

Master keyword index to volumes 458–482 (2003)

A61603

Vas deferens, human; Cirazoline; Oxymetazoline; Phenoxybenzamine; SZL-49; Dibenamine (Amobi, N. (462) 169)

A70104

Cholecystokinin; CCK₁ receptor antagonist; Devazepide; Satiety; Food intake (Ebenezer, I.S. (461) 113)

ABC transporter

Caco-2 cell; Digoxin; Intestinal transport; MDR1; P-glycoprotein; MRP2 (Lowes, S. (458) 49)

Abdominal aorta, rat

β₃-Adrenoceptor; β-Adrenoceptor; (±)-Bupranolol; (±)-CGP12177A; Smooth muscle relaxation (Matsushita, M. (482) 235)

A_{2B} receptor

Adenosine; Glycogenolysis; Gluconeogenesis; Hepatocyte, rat; cAMP (Yasuda, N. (459) 159)

9-AC

Cl[−] concentration, intracellular; Lectin; Jurkat T lymphocyte, human; Cl[−]-free condition; Stilbene derivative (Lai, Z.-F. (482) 1)

Access model

DAT (dopamine transporter); Dopamine recognition; Cation; Na⁺ (Chen, N. (479) 213)

Accumbens, shell

Dopamine D1-like receptor; Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Dopamine D1-like:D2-like receptor synergism; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Acetic acid-induced writhing response

(−)-Linalool; Essential oil; Antinociceptive activity; Hot plate test; Locomotor activity (Peana, A.T. (460) 37)

Acetophenones

Maltol-glucoside; Arachidonic acid metabolism; Anti-inflammatory compound; Analgesic compound (Sala, A. (460) 219)

Acetylcholine

Pulmonary artery; Na⁺/H⁺ exchanger; Wistar–Kyoto, rat (WKY); Spontaneously hypertensive, rat (SHR) (Chau, W.H. (464) 177)

Porcine uterus; Pregnancy; Spontaneous contraction; Oxytocin; 5-Hydroxytryptamine; Nitric oxide (Kitazawa, T. (469) 135)

Glutamate; NMDA receptor; Enteric nervous system; Colon; (Human) (Giaroni, C. (476) 63)

Nicotine; Addiction; Ventral tegmental area; Nucleus accumbens; Dopamine (Mansvelder, H.D. (480) 117)

Acetylcholine receptor

Jaw movement; Superior colliculus; Ventrolateral striatum; GABA_A receptor; Dopamine receptor; (Rat) (Adachi, K. (464) 147)

Acetylcholine release

Post-tetanic facilitation; Nicotinic α3β2 receptor; Adenosine A_{2A} receptor; Adenosine endogenous; Neuromuscular junction (Timóteo, M.A. (464) 115)

Adenosine A₁ receptor; Low-efficacy agonist; Partial agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Bueters, T.J.H. (481) 141)

Acetylcholinesterase inhibitor

Donepezil; Oxygen–glucose deprivation; LDH release; Primary cultured cerebral cortical neuron; (Rat) (Akasofu, S. (472) 57)

Acetyl-CoA carboxylase

VLDL (very-low-density lipoprotein) particle production; Sterol synthesis; Fatty acid synthesis; HMG-CoA reductase; VLDL (very low density lipoprotein) secretion (Ohmori, K. (471) 69)

Acetylsalicylic acid

Aspirin; Anti-thrombin action; Coronary heart disease; Platelet factor 4 (Di Micco, B. (460) 59)

Acharan sulfate

Glycosaminoglycan; Tumor suppression; Angiogenesis; Matrigel assay (Lee, Y.S. (465) 191)

α₁-Acid glycoprotein

Aorta, mouse; Isometric tension; Ca²⁺ entry; Smooth muscle cell, vascular (Tokutomi, Y. (477) 137)

Acidosis

Hyperpolarization; K⁺ channel, ATP-sensitive; K⁺ channel, Ca²⁺-activated; K⁺ channel, delayed rectifier; Aorta, Wistar rat; Aorta, Wistar Kyoto rat (Rohra, D.K. (476) 123)

Acidosis, intracellular

Aorta; pH, acidic; Spontaneously hypertensive rat (SHR); Wistar–Kyoto rat (WKY) (Rohra, D.K. (465) 141)

Acoustic startle

Nicotine withdrawal; Self-administration; Prepulse inhibition; Somatic sign; Mouse (Semenova, S. (472) 99)

Acrosome reaction

Antifertility compound; (*Tripterygium wilfordii* Hook. f.); Whole-cell recording; Ca²⁺-channel; Spermatogenic cell; (Mouse) (Bai, J.-P. (464) 9)

ACTH (adrenocorticotrophic hormone)

Emesis; Cisplatin; Metyrapone (Sam, T.S.W. (466) 163)

ACTH (adrenocorticotropin hormone)

Stress; CRF (corticotropin-releasing factor); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Actin filament

Endothelial cell; Hypoxia; Monolayer permeability; cAMP; ATP (Fan, Y. (481) 33)

Action potential

Azimilide; Delayed rectifier K^+ current; Papillary muscle; Purkinje fiber (Takács, J. (470) 163)

Action potential duration

Parkinson's disease; Dopamine receptor agonist; hERG channel (Hurst, R.S. (482) 31)

Activator protein-1

Poly (ADP-ribose) polymerase; 3-Aminobenzamide; 1,5-Dihydroxyisoquinoline; NF- κ B (nuclear factor- κ B); Colitis (Zingarelli, B. (469) 183)

Acute lung inflammation; Cytokine; Chemokine; Peroxisome proliferator-activated receptor- γ (Inoue, K.-i. (481) 261)

Acute lung inflammation

Cytokine; Chemokine; Peroxisome proliferator-activated receptor- γ ; Activator protein-1 (Inoue, K.-i. (481) 261)

Acute mesenteric ischemia

Antioxidant; Non-steroidal anti-inflammatory agent; Intestinal viability; Ischemia–reperfusion (Poussios, D. (465) 275)

Acute renal failure

Carnosine; Renal sympathetic nerve activity; Norepinephrine; Ischemia/reperfusion (Fujii, T. (474) 261)

Ischemia; Reperfusion; Na^+/Ca^{2+} exchanger; Endothelin-1 (Ogata, M. (478) 187)

Ischemia; Reperfusion; Sympathetic nerve; Norepinephrine (Fujii, T. (481) 241)

Acyclic nucleoside phosphonate

Antiviral; Chemokine; Cytokine; Nitric oxide (NO) (Zidek, Z. (475) 149)

 $\alpha_{2A/D}$ -Adrenoceptor knockout

Nitric oxide (NO); NOS-2 knockout; NOS-3 knockout; L-NAME (N^G -nitro-L-arginine methylester) (Vandeputte, C. (466) 129)

Addiction

Nicotine; Neurotensin; Sensitization; Psychostimulant (Fredrickson, P. (458) 111)

Solvent; Conditioned-place preference; (Rodent) (Gerasimov, M.R. (477) 45)

Dopamine transporter (DAT); Cocaine; Attention deficit hyperactivity disorder (ADHD); Anti-depressant; Serotonin transporter (SERT) (Madras, B.K. (479) 41)

Nicotine; Ventral tegmental area; Nucleus accumbens; Acetylcholine; Dopamine (Mansvelder, H.D. (480) 117)

Adenosine

A_{2B} receptor; Glycogenolysis; Gluconeogenesis; Hepatocyte, rat; cAMP (Yasuda, N. (459) 159)

Preconditioning; ^{31}P -NMR (nuclear magnetic resonance); (Rat); Ischemia, low-flow (Bradamante, S. (465) 115)

Colitis; Cytokine; Chemokine (Mabley, J. (466) 323)

Epileptiform; Hippocampal slice; Organophosphate; Sarin; (Guinea pig) (Harrison, P.K. (471) 97)

Cerebral blood flow; Hypercapnia; Nitric oxide (NO); ZM 241385 (Phillis, J.W. (476) 211)

Hyperalgesia; Chronic stress; CPA; N^6 -cyclopentyladenosine; Dipyrdimole; Tail-flick (da Silva Torres, I.L. (481) 197)

Adenosine A_{2A} receptor

Adenosine A_1 receptor; Adenosine A_{2B} receptor; Adenosine A_3 receptor; Postjunctional contraction (Diniz, C. (460) 191)

Parkinson's disease; Striatum; Microdialysis; Glutamate (Corsi, C. (464) 33)

Post-tetanic facilitation; Nicotinic $\alpha 3\beta 2$ receptor; Adenosine endogenous; Acetylcholine release; Neuromuscular junction (Timóteo, M.A. (464) 115)

Adenosine A_3 receptor; Dendritic cell; TNF- α (tumour necrosis factor- α) (Dickenson, J.M. (474) 43)

Adenosine A_{2B} receptor

Adenosine A_1 receptor; Adenosine A_{2A} receptor; Adenosine A_3 receptor; Postjunctional contraction (Diniz, C. (460) 191)

Species difference; Adenosine receptor antagonist; Colon, rat; Aorta, guinea pig; Saphenous vein, dog (Fozard, J.R. (475) 79)

Adenosine A_1 receptor, antagonist

Postoperative ileus; Colon; (Rat) (Kadowaki, M. (458) 197)

Streptozotocin-induced diabetes; Carbachol; Prostaglandin; Ca^{2+} ionophore A23187 (Talubmook, C. (469) 153)

Adenosine A_{2A} receptor; Dendritic cell; TNF- α (tumour necrosis factor- α) (Dickenson, J.M. (474) 43)

Ischaemia; Hypoxia; Stunning; Heart, isolated; working; Papillary muscle; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

Acetylcholine release; Low-efficacy agonist; Partial agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Bueters, T.J.H. (481) 141)

Adenosine A_{2B} receptor

Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Adenosine A_3 receptor; Postjunctional contraction (Diniz, C. (460) 191)

Adenosine A_3 receptor

Adenosine A_1 receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Postjunctional contraction (Diniz, C. (460) 191)

Adenosine endogenous

Post-tetanic facilitation; Nicotinic $\alpha 3\beta 2$ receptor; Adenosine A_{2A} receptor; Acetylcholine release; Neuromuscular junction (Timóteo, M.A. (464) 115)

Adenosine receptor antagonist

Adenosine A_{2B} receptor; Species difference; Colon, rat; Aorta, guinea pig; Saphenous vein, dog (Fozard, J.R. (475) 79)

Adenylate cyclase

Ligustrazine; Coronary artery, porcine; Ca^{2+} channel, L-type (Shan Au, A.L. (468) 199)

Adenylyl cyclase

Bromocriptine; Corticosterone; Zona fasciculata–reticularis cell; Cytochrome P450_{sc}; StAR protein (Kan, S.-F. (468) 141)

Dopamine D1-like receptor; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Accumbens, shell; Dopamine D1-like:D2-like receptor synergism; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Prostacyclin receptor; Phospholipase C; G protein coupling; Receptor switching (Chow, K.B.S. (474) 7)

Adhesion

Chemokine; Endothelium; Fatty acid; Neutrophil; TNF- α (tumor necrosis factor- α) (Wang, Y. (459) 269)

Enoxaparin; Endothelial cell; NF- κ B (nuclear factor- κ B) (Manduteanu, I. (477) 269)

Adiponectin

Fatty acid; Glucocorticoid; Leptin; PPAR γ (peroxisome proliferator-activated receptor); Hypothalamus (van Dijk, G. (480) 31)

Adipose cell

Semicarbazide-sensitive amine oxidase; Monoamine oxidase; Glutathione; Hydrogen peroxide; Isoprenaline; Tyramine (Visentin, V. (466) 235)

Adjuvant-induced arthritis

Chalcones; Nitric oxide (NO); Prostaglandin E₂; RAW 264.7; Zymosan-injected mouse air pouch (Rojas, J. (465) 183)

TAS-202; Angiogenesis inhibitor (Tanaka, K. (466) 191)

ADP-ribosylation

G protein; Receptor; Pertussis toxin; Phospholipase C (Wong, C.S.S. (473) 105)

Adrenal chromaffin cell, bovine

Amphetamine; Nicotinic receptor; Catecholamine secretion; Ca^{2+} concentration, cytosolic; Receptor binding (Liu, P.-S. (460) 9)

Adrenal gland

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A₂ synthase; Brain; Adrenaline; Noradrenaline; Plasma; Sympathetic nerve (Okada, S. (467) 125)

Adrenaline

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A₂ synthase; Brain; Noradrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

Noradrenaline; Plasma; CRH (corticotropin-releasing hormone); Nitric oxide (NO) synthase, inducible; Brain (Okada, S. (477) 95)

Adrenal steroid

Dopamine; Microdialysis; Nicotine; Nucleus accumbens; Sensitization (Molander, A. (481) 51)

Adrenectomy

Atopic dermatitis; Glucocorticoid; RU-486; Scratching behavior (Hirayama, K. (481) 59)

Adrenergic innervation

Aging; Clenbuterol; β -Adrenoceptor; Hypertension; Nitrergic innervation; Mesenteric artery, rat (Ferrer, M. (466) 289)

 α -Adrenoceptor

(+)-Nantenine; Pithed rat; Pressor response; Sympathetic nerve stimulation; 5-HT receptor (Tsuchida, H. (477) 53)

 α_1 -Adrenoceptor

Water intake; Drinking; Muscarine cholinergic; (Rat) (Oryan, S. (477) 123)

Carvedilol; β -Adrenoceptor; Myocardium, rat (Qvigstad, E. (481) 83)

 α_2 -Adrenoceptor

Locus coeruleus; Extracellular unitary recording; Noradrenaline; Microdialysis; Alnespirone; Clonidine; 5-HT_{1A} receptor (Astier, B. (459) 17)

Adrenoceptor

Noradrenaline; N-terminal; Radioligand binding; Protein expression (Pupo, A.S. (462) 1)

Antibody; Apoptosis; Cardiomyocyte (Staudt, Y. (466) 1)

Aging; Clenbuterol; Hypertension; Nitrergic innervation; Adrenergic innervation; Mesenteric artery, rat (Ferrer, M. (466) 289)

Diabetes; Urinary bladder, rat; Relaxation; Streptozotocin (Kubota, Y. (467) 191)

cAMP; Protein kinase A; Urinary bladder; Smooth muscle; Ca^{2+} channel L-type (Kobayashi, H. (470) 9)

Vas deferens; (Rat); Castration; Testosterone (Campos, M. (471) 149)

 β -Adrenoceptor

β_3 -Adrenoceptor; ($\pm$)-Bupranolol; ($\pm$)-CGP12177A; Abdominal aorta; rat; Smooth muscle relaxation (Matsushita, M. (482) 235)

 β_1 Adrenoceptor

β_2 -Adrenoceptor; β_3 -Adrenoceptor; Smooth muscle relaxation; Messenger RNA (mRNA); Esophageal muscularis mucosae, guinea-pig (Horinouchi, T. (473) 79)

 β_2 Adrenoceptor

β_1 -Adrenoceptor; β_3 -Adrenoceptor; Smooth muscle relaxation; Messenger RNA (mRNA); Esophageal muscularis mucosae, guinea-pig (Horinouchi, T. (473) 79)

 β_3 Adrenoceptor

β_2 -Adrenoceptor; β_1 -Adrenoceptor; Smooth muscle relaxation; Messenger RNA (mRNA); Esophageal muscularis mucosae, guinea-pig (Horinouchi, T. (473) 79)

β -Adrenoceptor; ($\pm$)-Bupranolol; ($\pm$)-CGP12177A; Abdominal aorta, rat; Smooth muscle relaxation (Matsushita, M. (482) 235)

Adrenoceptor agent

Jumping; Histamine; Morphine; Naloxone; (Mouse) (Zarrindast, M.-R. (471) 105)

Jumping; Imipramine; Morphine; Naloxone; (Mouse) (Zarrindast, M.-R. (473) 19)

 β -adrenoceptor agonist

Calcium ion; Ca^{2+} ionophore; Calmodulin; Renal cortical slice, dog; Renin release; Superfusion (Yatsu, T. (458) 191) Interleukin-12; p38 Mitogen-activated protein kinase; Macrophage (Kang, B.Y. (467) 223)

β_1 -Adrenoceptor antagonist

Atrium, human, right; Muscarinic M_2 receptor; Carbachol; Negative inotropic effect, indirect (Wangemann, T. (458) 163)

Antipsychotic; Functional affinity; Cognitive function; Clozapine; Iloperidone (Kalkman, H.O. (462) 33)

 β_1 -adrenoceptor selectivity

Nebivolol; Bisoprolol; Carvedilol; Myocardium, human (Bundkirchen, A. (460) 19)

 α_{1D} -Adrenoceptor subtype

WB4101; Chloroethylclonidine; Pulmonary artery; Pulmonary hypertension; (Oriowo, M.A. (482) 255)

 α_2 -Adrenoceptor subtype

Pain; Hyperalgesia; Carrageenan; Morphine (Lähdesmäki, J. (468) 183)

Mydriasis; (Rat); Norepinephrine; 5-Methylurapidil; L-765314 (Yu, Y. (471) 135)

Adrenomedullin

Calcitonin gene-related peptide (CGRP); CRLR (Calcitonin-receptor-like receptor); RAMP (Receptor-activity modifying protein); Mast cell; Peritoneal; (Rat) (Matsushima, M. (464) 111)

CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Lung; Vas deferens; BIBN4096BS; [Cys(Et)^{2,7}]hCGRP α ; Adrenomedullin-(22–52), human; (Rat) (Juaneda, C. (474) 165)

Adrenomedullin-(22–52), human

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Lung; Vas deferens; BIBN4096BS; [Cys(Et)^{2,7}]hCGRP α ; (Rat) (Juaneda, C. (474) 165)

Affinity

Protonation; Microcalorimetry (Raffa, R.B.. (483) 323)

Adriamycin

Low-molecular-weight heparin; Glomerulopathy; Glycosaminoglycan; Oxidative stress (Deepa, P.R. (478) 199)

 ω -Agatoxin-IVA

Striatum; Dopamine release; Neomycin; Veratridine; ω -Conotoxin (Dobrev, D. (461) 105)

Aggregation

Platelet; 5-HT (5-hydroxytryptamine, serotonin); SERT (serotonin transporter); Hypoxic pulmonary hypertension (Awabdy, D. (459) 1)

Aggression

Anxiety; 5-HT (5-hydroxytryptamine, serotonin); Transgenics; Knockout mouse (Lesch, K.P. (480) 185)

Aging

Clenbuterol; β -Adrenoceptor; Hypertension; Nitroergic innervation; Adrenergic innervation; Mesenteric artery, rat (Ferrer, M. (466) 289)

Agmatine

Antidepressant; PC12 cell; Monoamine; Ca²⁺ (Li, Y.F. (469) 81)

α -Difluoromethyl-ornithine; Aminoguanidine; Morphine; Analgesia; Tolerance (Lu, G. (478) 139)

Agonist

Cytisine; Nicotinic receptor, neuronal; Antagonist; Partial agonist; Binding; FLIPR; Electrophysiology (Carbonnelle, E. (471) 85)

Antinociception; Galanin receptor; Hyperalgesia; Neuropathy; Pain; Spinal cord (Wu, W.-P. (482) 133)

Agonist-directed trafficking

δ -Opioid receptor, human; Down-regulation; Phosphorylation; Pertussis toxin (Okura, T. (459) 9)

Agouti-related peptide

Leptin; Proopiomelanocortin; Neuropeptide Y; Ghrelin; Peptide YY-(3–36) (Cowley, M.A. (480) 3)

AgRP (agouti-related protein)

Anorexia; Hypothalamus; Mouse model; Genetic; Positional cloning; Neuropeptide Y; POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Airway

Asthma; Thromboxane A_2 ; Smooth muscle cell; Human; Proliferation (Capra, V. (474) 149)

Ca²⁺; Calmodulin; Inflammatory cell; Mast cell (Ten Broeke, R. (476) 151)

Substance P; Inflammation; Neutrophil; Mast cell (van der Kleij, H.P.M. (476) 249)

Airway C-fiber

Vanilloid VR1 receptor; Olvanil; Capsaicin-sensitive C-fiber; Vanilloid (Stebbins, K.J. (471) 205)

Airway hyperresponsiveness

Airway smooth muscle contraction; Erythromycin; Macrolide antibiotic; Ca²⁺-dependent Cl[−] current (Janssen, L.J. (475) 93)

Airway inflammation

Bradykinin; Bradykinin receptor antagonist; Eosinophil; Asthma (Gama Landgraf, R. (460) 75)

Airway smooth muscle

Insulin; Phenotype; Asthma; Diabetes (Gosens, R. (481) 125)

Airway smooth muscle contraction

Airway hyperresponsiveness; Erythromycin; Macrolide antibiotic; Ca²⁺-dependent Cl[−] current (Janssen, L.J. (475) 93)

Akt

NF- κ B; iNOS; Vascular smooth muscle (Hattori, Y. (481) 153)

Alcohol

Opiate; Opioid; Cocaine; Amphetamine; Withdrawal; Benzodiazepine; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

Self-administration; NR2B subunit; Protein; Up-regulation (Henniger, M.S.H. (470) 33)

Alcohol preference

(Selected rat line); Risperidone; Food consumption; Locomotor activity (Ingman, K. (468) 121)

Alfentanil

Anaesthesia; Analgesia; EEG (electroencephalogram); Ketamine; Stereoisomer (Edwards, S.R. (460) 27)

Alkaline phosphatase

Bisphosphonate; Osteoblast; Differentiation; Protein phosphatase; Protein tyrosine phosphatase (Itoh, F. (477) 9)

Amisulpride

Atypical neuroleptic; Opioid receptor sub-type; Antinociception; Tail-flick; Pain (Weizman, T. (478) 155)

Amitriptyline

Cyclobenzaprine; Cyproheptadine; Flexor reflex; Spinal reflex (Honda, M. (458) 91)

Amlodipine

Ca²⁺ channel blocker; Proliferation; Human epidermoid carcinoma A431 cell; Intracellular Ca²⁺; Fura-2; Fluo-3 (Yoshida, J. (472) 23)

Ammonia neurotoxicity

NMDA receptor; cGMP; Hydroxyl radical; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Amnesia

β-Amyloid fragment; Cannabinoid CB₁ receptor; Cannabinoid; Avoidance retention (Mazzola, C. (477) 219)

AMPA receptor antagonist

Intracerebral, hemorrhage; Hematoma; Neurological deficit; YM872 (Terai, K. (467) 95)

Amphetamine

Adrenal chromaffin cell, bovine; Nicotinic receptor; Catecholamine secretion; Ca²⁺ concentration, cytosolic; Receptor binding (Liu, P.-S. (460) 9)

Opiate; Opioid; Cocaine; Withdrawal; Benzodiazepine; Alcohol; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

Bupropion; Heart; Contractility; Catecholamine (Cremers, B. (467) 169)

Nicotine; Bupropion; Bupropion metabolite; Hydroxybupropion; Threohydrobupropion (Bondarev, M.L. (474) 85)

Nociceptin; Conditioned place preference; Sensitization; Stereotypy; (Rat) (Kotlinska, J. (474) 233)

Cocaine; Monoamine; Psychostimulant; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); DAT (dopamine transporter); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

Dopamine transporter; Trafficking; Cocaine (Kahlig, K.M. (479) 153)

Neurotransmitter transport; Dopamine transporter; Transporter regulation; Trafficking; Signaling mechanism; Phosphorylation; Cocaine (Mortensen, O.V. (479) 159)

Vesicular monoamine transporter; Methylphenidate; Cocaine (Fleckenstein, A.E. (479) 283)

Amtolmetin guacyl

Intestine; Inflammation; Neuropeptide; (Rat) (Tubaro, E. (467) 173)

Amygdala

Bed nucleus of the stria terminalis; Fear; Anxiety; Stress; CRF (corticotropin releasing hormone) (Walker, D.L. (463) 199)

Fear; Learning; Memory; Hippocampus; Context (Sanders, M.J. (463) 217)

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Hypothalamus (Carrasco, G.A. (463) 235)

Amygdaloid nucleus, basolateral

Microdialysis; Immobilization stress; Lactate; Benzodiazepine (Uehara, T. (459) 211)

Amylase secretion

SNI-2011; Nitric oxide (NO) synthase; NOS knockout, mouse, neuronal; Guanyl cyclase, soluble; Myosin light chain kinase (Yuan, Z. (464) 197)

β-Amyloid fragment

Amnesia; Cannabinoid CB₁ receptor; Cannabinoid; Avoidance retention (Mazzola, C. (477) 219)

Amyloid precursor protein

Muscarinic receptor; Alzheimer's disease (Qiu, Y. (468) 1)

β-Amyloid protein

Hippocampal neuron; Propentofylline; cAMP; Protein kinase A; Apoptosis (Koriyama, Y. (458) 235)

Amyotrophic lateral sclerosis

GCP II; Glutamate; NAA; NAALADase; Neuroprotection; Motor neuron disorder (Thomas, A.G. (471) 177)

Anabolic–androgenic steroid

Nandrolone; Hypothermia; Morphine tolerance; Reward; Dependence; (Mouse) (Célérier, E. (465) 69)

Anaesthesia

Alfentanil; Analgesia; EEG (electroencephalogram); Ketamine; Stereoisomer (Edwards, S.R. (460) 27)

Anaesthetic

GABA_A receptor; GABA (γ-aminobutyric acid); Extrasynaptic receptor; Inhibition; Benzodiazepine (Eghbali, M. (468) 75)

Ligand-gated; Benzodiazepine; γ-Aminobutyric acid; THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol); Inhibition (Smith, M. (478) 21)

Anaesthetic, intravenous

Barbiturate; Propofol; Glycine receptor (Hadipour-Jahromy, M. (477) 81)

Anaesthetic, local

cAMP; (Bovine); Lidocaine; Smooth muscle (Yunoki, M. (470) 65)

Analgesia

Opioid; Metopon; Morphine (King, M.A. (459) 203)

Alfentanil; Anaesthesia; EEG (electroencephalogram); Ketamine; Stereoisomer (Edwards, S.R. (460) 27)

Morphine withdrawal; Morphine tolerance; Prazosin; Clonidine (Özdoğan, Ü.K. (460) 127)

Opiate; Morphine; Pain; Formalin test; (Rat) (Sevostianova, N. (462) 109)

Hyperalgesia; Pain; 5-HT_{1A} receptor; Tolerance (Bruins Slot, L.A. (466) 271)

Crotalus durissus terrificus venom; ATP-sensitive K⁺ channel; δ-Opioid receptor agonist, peripheral; κ-Opioid receptor agonist, peripheral (Piccolo, G. (469) 57)

Nicotinic acetylcholine receptor; Epibatidine; Radioligand; Spinal cord (Nishiyama, T. (470) 27)

Flumazenil; Morphine; Tolerance; Sex; (Rat) (Holtman Jr., J.R. (470) 149)

Antiepileptic; Neuropathic pain; Antiepileptic drug; Levetiracetam (Ardid, D. (473) 27)

Neuropathic pain; 5-HT_{1A} receptor; Serotonin (Wu, W.-P. (478) 131)

α -Difluoromethyl-ornithine; Aminoguanidine; Agmatine; Morphine; Tolerance (Lu, G. (478) 139)

Pain; Spinal cord; Opioid; Nonsteroidal anti-inflammatory drug; Wind-up (Gaitán, G. (481) 181)

Analgesic

Animal model; Nociception; Gene expression; Polymerase chain reaction (PCR); Quantitative PCR; (Rat) (Hofmann, H.A. (470) 17)

Analgesic compound

Acetophenones; Maltol-glucoside; Arachidonic acid metabolism; Anti-inflammatory compound (Sala, A. (460) 219)

Analogue

Cocaine; Structure–activity relationship study; DAT (dopamine transporter); Dopamine hypothesis; Binding activity (Dutta, A.K. (479) 93)

Anandamide

Cannabinoid receptor; Mast cell; Histamine release, anti-IgE-induced; Palmitoylethanolamide; WIN 55,512-2 (Lau, A.H.Y. (464) 229)

Cannabinoid; Neurotransmission (Ralevic, V. (472) 1)

Vanilloid VR1 receptor; Cannabinoid CB₁ receptor; Vanilloid; Cannabinoid (Harrison, S. (475) 107)

2-Arachidonoylglycerol; Cannabinoid; Dopamine; Movement disorder; Reward (van der Stelt, M. (480) 133)

Anandamide transport

Cerebellar granule neuron; Ethanol; Endocannabinoid; Cannabinoid CB1 receptor (Basavarajappa, B.S. (466) 73)

Angiogenesis

Endothelial cell; Invasion; Migration; Tumor metastasis; Wf-536 (Nakajima, M. (459) 113)

Quercetin; Umbilical vein endothelial cell (Human); Microvascular dermal endothelial cell (Human); Matrix metalloproteinase-2 (Tan, W.-f. (459) 255)

Plasmin; Angiostatin; α_2 -Antiplasmin; ϵ -Aminocaproic acid (HatziaPOSTOULOU, M. (460) 1)

Glycosaminoglycan; Acharan sulfate; Tumor suppression; Matrigel assay (Lee, Y.S. (465) 191)

Angiogenesis inhibitor

TAS-202; Adjuvant-induced arthritis (Tanaka, K. (466) 191)

Angiogenic endothelial function

Rhizoxin; Microbial angiogenesis inhibitor; Plasminogen activator; Tube formation (Aoki, K. (459) 131)

Angiostatin

Plasmin; Angiogenesis; α_2 -Antiplasmin; ϵ -Aminocaproic acid (HatziaPOSTOULOU, M. (460) 1)

Angiotensin

Capacitance; Diabetes; Circulatory filling pressure, mean; Noradrenaline; Vasoconstriction (Cheng, X. (458) 299)

Angiotensin AT₁ receptor

Sanguinarine; CHO cell; CHO membrane; Noncompetitive atagonist; [³H]Candesartan (Caballero-George, C. (458) 257)

Angiotensin II; NADPH oxidase; Heart; Ischaemia–reperfusion; Losartan (Oudot, A. (462) 145)

Hypertension; K⁺ channel; Sympathetic system; Vascular tension; Endothelin ET_A receptor; Protein kinase C (Berg, T. (466) 301)

Angiotensin II; [Lys²]angiotensin II; Tachyphylaxis; mRNA; Untranslated region; CHO cell line (França, L.P. (476) 25)

Angiotensin II; 4E-BP1 (4E-binding protein 1); Phosphatidylinositol 3-kinase; mTOR (mammalian target of rapamycin) (Yamakawa, T. (478) 39)

Angiotensin AT₁ receptor antagonist

Angiotensin II; Renin–angiotensin system; (Rabbit) (Nap, A. (469) 117)

Angiotensin-converting enzyme

Endothelium; Nitric oxide (NO); Oxidative stress (Scribner, A.W. (482) 95)

Angiotensin-converting enzyme inhibitor

Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; Cough; (Guinea pig) (Hirata, R. (474) 255)

Angiotensin II

Renin–angiotensin–aldosterone system; Prostanoid; Cyclooxygenase; Kidney; Heart (Cheng, Z.J. (461) 159)

NADPH oxidase; Heart; Angiotensin AT₁ receptor; Ischaemia–reperfusion; Losartan (Oudot, A. (462) 145)

Gene expression; Microarray; Transcription factor; Renal cell, human; Proximal tubule (Braam, B. (464) 87)

Renin–angiotensin system; Angiotensin AT₁ receptor antagonist; (Rabbit) (Nap, A. (469) 117)

[Lys²]angiotensin II; Angiotensin AT₁ receptor; Tachyphylaxis; mRNA; Untranslated region; CHO cell line (França, L.P. (476) 25)

4E-BP1 (4E-binding protein 1); Phosphatidylinositol 3-kinase; Angiotensin AT₁ receptor; mTOR (mammalian target of rapamycin) (Yamakawa, T. (478) 39)

Animal model

5-HT, (5-hydroxytryptamine; serotonin); 5-HT_{3A} receptor; Anxiety; (Mouse) (Kelley, S.P. (461) 19)

Defensive behavior; Fear; Anxiety; Coping, active; Coping, passive; Avoidance; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Analgesic; Nociception; Gene expression; Polymerase chain reaction (PCR); Quantitative PCR; (Rat) (Hofmann, H.A. (470) 17)

Bombesin BB3 receptor (BRS-3); Sibutramine; Serotonin and noradrenaline re-uptake inhibitor (SNRI); Hyperphagia; Energy efficiency (Matsumoto, K. (473) 41)

ENU (ethyl-nitrosourea); Mouse mutant; Phenotype-driven screen; Disease gene (Keays, D.A. (480) 205)

Mutagenesis; ENU (ethyl-nitrosourea); Psychiatric disorder; Behaviour; High-throughput screen; Candidate gene (Ohl, F. (480) 219)

Anion

DAT (dopamine transporter); Cation; Binding; Uptake blocker (Bonnet, J.-J. (479) 199)

Annexin-1

Cardiomyocyte; Cyclo-oxygenase-2; Cytokine; Glucocorticoid; Nitric oxide (NO) synthase 2 (Ritchie, R.H. (461) 171)

Anococcygeus, mouse

Calyculin-A; Nitrgic relaxation; Thapsigargin (Gibson, A. (471) 213)

Anococcygeus muscle, rat

Ebselen; Nitric oxide (NO) donor; Nitrgic transmission; Nitric oxide (NO) synthase; Guanylate cyclase, soluble (Che, Y. (462) 161)

Anorectic

Cannabinoid; AM-251; Micro-CT; Obesity (Hildebrandt, A.L. (462) 125)

Anorexia

Eating disorder; Bulimia; Hypothalamus; Peptide; Randomized controlled trial (Södersten, P. (480) 67)

Hypothalamus; Mouse model; Genetic; Positional cloning; Neuropeptide Y; AgRP (agouti-related protein); POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Anorexia nervosa

Phenotype; Obesity; Genotype; Trait; Hyperactivity; Anxiety (Kas, M.J.H. (480) 13)

Anoxia

Spinal synaptic transmission; Glutamate; Inhibitory transmission; Creatine phosphate (Jha, A. (481) 189)

Antagonism

DAT (dopamine transporter); SERT (serotonin transporter); Transmembrane domain; Mutant; Cocaine selective (Uhl, G.R. (479) 71)

Tramadol; Non-steroidal anti-inflammatory drug (NSAID); Interaction; Gastrointestinal transit (Planas, E. (482) 223)

Antagonist

Postoperative ileus; Colon; (Rat); Adenosine A₁ receptor (Kadowaki, M. (458) 197)

ATP receptor; Oocyte; Voltage clamp; Whole cell; NF449 (4,4',4'',4'''-(carbonylbis(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid) (Hülsmann, M. (470) 1)

Cytisine; Nicotinic receptor, neuronal; Agonist; Partial agonist; Binding; FLIPR; Electrophysiology (Carbannelle, E. (471) 85)

PD176252; Gastrin releasing peptide receptor; Lung cancer; Proliferation (Moody, T.W. (474) 21)

YM598; Endothelin ET_A receptor (Yuyama, H. (478) 61)

μ-Opioid; κ-Opioid; δ-Opioid; 3,4-Dimethyl-4-(3-hydroxyphenyl)piperidine; Receptor autoradiography (Statnick, M.A. (482) 139)

Anti-allergic drug

Scratching behavior; Histamine H₁ receptor; Histamine H₁ receptor antagonist (Sugimoto, Y. (470) 113)

Antiarrhythmic

Allodynia; Anticonvulsant; Gazelius nerve injury; Hyperalgesia; Spared nerve injury (Erichsen, H.K. (458) 275)

Antibody

β₁-Adrenoceptor; Apoptosis; Cardiomyocyte (Staudt, Y. (466) 1)

Tachykinin NK₁ receptor; Substance P; Neurokinin A; Peptide receptor antagonist; Hydropathy (Wijkhuizen, A. (468) 175)

Anticonvulsant

Allodynia; Antiarrhythmic; Gazelius nerve injury; Hyperalgesia; Spared nerve injury (Erichsen, H.K. (458) 275)

Chronic constriction injury; Formalin test; Neuropathic pain; Spared nerve injury; Tail flick (Blackburn-Munro, G. (460) 109)

Benzodiazepine; AWD 131-138; Midazolam; Diazepam; Drug discrimination; Self-administration, monkey (Yasar, S. (465) 257)

Ca²⁺ channel, voltage-activated; Lamotrigine; Antiepileptic drug (Hainsworth, A.H. (467) 77)

Glutamate receptor, metabotropic; Epilepsy; DBA/2 mouse; Temporal lobe epilepsy; Kindling (Moldrich, R.X. (476) 3)

Binding; Brain; Levetiracetam; Photoaffinity labelling (Fuks, B. (478) 11)

Lamotrigine; Electroshock, maximal; Pharmacokinetics; Pharmacodynamics (Castel-Branco, M. (482) 163)

Antidepressant

Bipolar disorder; Imipramine; Mania; Rapid cycling; Supersensitivity (D'Aquila, P.S. (458) 129)

Elevated plus-maze; Test experience; Anxiety; Benzodiazepine; (Mouse) (Holmes, A. (459) 221)

Antipsychotic; Anxiolytic; Light/dark test, mouse; Neuropeptide receptor ligand (Bourin, M. (463) 55)

Nitric oxide (NO); Antioxidant; Nerve cell culture; Neuroprotection; Monoamine oxidase A inhibitor (Boland, A. (466) 21)

Agmatine; PC12 cell; Monoamine; Ca²⁺ (Li, Y.F. (469) 81)

Dopamine transporter (DAT); Cocaine; Attention deficit hyperactivity disorder (ADHD); Serotonin transporter (SERT); Addiction (Madras, B.K. (479) 41)

CoMFA (Comparative Molecular Field Analysis); *Drosophila*; 5-HT (5-hydroxytryptamine serotonin); SERT (serotonin transporter) (Roman, D.L. (479) 53)

Antidepressants

Noradrenaline uptake; Cytokine production; NET-KO, mouse (Selmezy, Z. (469) 175)

Antidiabetic agent

JTT-608; Hemoglobin A1c; Goto–Kakizaki rat; Neuropathy; Nephropathy (Ohta, T. (476) 159)

Anti-emetic

Cisplatin; 5-HT₃ receptor; Glucocorticoid; Delayed emesis (Sam, T.S.W. (472) 135)

Emesis; Emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (477) 247)

U46619; Prostanoid TP receptor; Tachykinin NK₁ receptor; Emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (482) 297)

Antiepileptic

Anxiety; Anxiolytic effect; Vogel conflict test; Levetiracetam; Chlordiazepoxide (Lamberty, Y. (469) 97)

Analgesia; Neuropathic pain; Antiepileptic drug; Levetiracetam (Ardid, D. (473) 27)

Binding; Brain; Levetiracetam (Gillard, M. (478) 1)

Anxiety; Plus-maze test; Levetiracetam; Chlordiazepoxide; Buspirone (Gower, A.J. (481) 67)

Antiepileptic drug

Kindling; Seizure, nicotine-induced; Nicotinic receptor; NMDA receptor; Epilepsy (Löscher, W. (466) 99)

Levetiracetam; Paired-pulse inhibition/facilitation; GABAergic mechanism; Dentate gyrus, rat (Margineanu, D.G. (466) 255)

Ca²⁺ channel, voltage-activated; Lamotrigine; Anticonvulsant (Hainsworth, A.H. (467) 77)

Antiepileptic; Analgesia; Neuropathic pain; Levetiracetam (Ardid, D. (473) 27)

Antifertility compound

(*Tripterygium wilfordii* Hook. f.); Whole-cell recording; Ca²⁺-channel; Acrosome reaction; Spermatogenic cell; (Mouse) (Bai, J.-P. (464) 9)

Antihistamine, second-generation, non-sedating

Taurine efflux, osmosensitive; Cell cycle progression; Tricyclic antidepressant; Volume-sensitive organic osmolyte/anion channel (Belsey, M.J. (474) 185)

Anti-inflammatory activity

Tilioside; Gnaphaliin; Pinocembrin; Antioxidant activity (Sala, A. (461) 53)

Erycristagallin; (*Erythrina mildbraedii*); Arachidonic acid metabolism; 5-Lipoxygenase inhibition (Njamen, D. (468) 67)

Anti-inflammatory compound

Acetophenones; Maltol-glucoside; Arachidonic acid metabolism; Analgesic compound (Sala, A. (460) 219)

Antimuscarinic

5-HT receptor; Gastrointestinal motility; Muscarinic receptor; (Rat) (Axelsson, L.-G. (467) 211)

Antinociception

Endomorphin-1; Na⁺,K⁺-ATPase; Ouabain; Tail-flick test (Horvath, G. (458) 291)

Dermorphin; TAPS (Tyr-D-Arg²-Phe-Sar⁴); Tetrapeptide; Tolerance; Withdrawal (Vanhof, S. (459) 41)

μ-opioid receptor; κ-opioid receptor; G-protein activation; (Mouse) (Mizoguchi, H. (461) 35)

Morphine; Serine/threonine protein phosphatase; Okadaic acid; Cantharidin; Calyculin-A; L-Norokadaone; [³H]Naloxone (Moncada, A. (465) 53)

Morphine; Nucleus reticularis gigantocellularis/nucleus reticularis gigantocellularis alpha; Muscarinic antagonist; (Rat) (Abe, K. (465) 237)

Lewis rat; F344 rat; Morphine; Yohimbine; Clonidine (Herradón, G. (465) 251)

Inflammatory hyperalgesia; NMDA receptor; Spinal cord; Tyrosine kinase inhibitor (Sato, E. (468) 191)

Opioid; Metamizol; Potentiation; Tolerance (Hernández-Delgadillo, G.P. (469) 71)

Endomorphin-1; Gastrointestinal motility; μ-Opioid receptor; Naloxonazine; Naloxone methiodide (Spampinato, S. (469) 89)

H₃ receptor; Immapip (Cannon, K.E. (470) 139)

Opioid; Oxymorphanol; Mouse (Wu, H.-e. (473) 143)

Amisulpride; Atypical neuroleptic; Opioid receptor sub-type; Tail-flick; Pain (Weizman, T. (478) 155)

Agonist; Galanin receptor; Hyperalgesia; Neuropathy; Pain; Spinal cord (Wu, W.-P. (482) 133)

Antinociceptive activity

(–)-Linalool; Essential oil; Acetic acid-induced writhing response; Hot plate test; Locomotor activity (Peana, A.T. (460) 37)

Anti-oedematogenic

Phyllanthus amarus; Lignan; Allodynia; Myeloperoxidase; Inflammatory pain; Neuropathic pain (Kassuya, C.A.L. (478) 145)

Antioxidant

Edaravone; Free radical; Mitochondrion; Ischemia/reperfusion (Okatani, Y. (465) 163)

Non-steroidal anti-inflammatory agent; Acute mesenteric ischemia; Intestinal viability; Ischemia–reperfusion (Poussios, D. (465) 275)

Nitric oxide (NO); Antidepressant; Nerve cell culture; Neuroprotection; Monoamine oxidase A inhibitor (Boland, A. (466) 21)

Arachidonate; Capillary permeability; Reactive oxygen species (Alvarez-Guerra, M. (466) 199)

Ethamsylate; Arachidonate; Vascular permeability (Hannaert, P. (466) 207)

Melatonin; Free radical; Mitochondria; Ischemia/reperfusion (Okatani, Y. (469) 145)

Quercetin; Prooxidant; Glutathione; Malondialdehyde (Choi, E.J. (482) 281)

Antioxidant activity

Tilioside; Gnaphaliin; Pinocembrin; Anti-inflammatory activity (Sala, A. (461) 53)

Antioxidant property

Permeability transition pore; Binding site; Specific; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

α₂-Antiplasmin

Plasmin; Angiostatin; Angiogenesis; ε-Aminocaproic acid (Hatziaepostolou, M. (460) 1)

Antiproliferative

Vascular contraction; Vascular relaxation; Balloon injury; Restenosis (Kennedy, S. (481) 101)

Antiproliferative activity

Malignant mesothelioma; Experimental therapeutics; Apoptosis (de Cupis, A. (473) 83)

Antipsychotic

α_2 -Adrenoceptor antagonist; Functional affinity; Cognitive function; Clozapine; Iloperidone (Kalkman, H.O. (462) 33)

Antidepressant; Anxiolytic; Light/dark test, mouse; Neuropeptide receptor ligand (Bourin, M. (463) 55)

Depressant; Cannabinoid; SR 141716A (Wiley, J.L. (471) 185)

Antisauvagine-30

CRF (corticotropin-releasing factor); CRF₂ receptor antagonist; Urocortin 2; Cardiovascular (Mackay, K.B. (469) 111)

Antisense

Ca²⁺ channel, L-type; Dihydropyridine; Cilnidipine; β -Subunit; A7r5 cell (Uchida, R. (466) 53)

Cocaine; Conditioned place preference; Convulsion; Gene expression; Locomotor activity; Microarray; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

Antisense oligonucleotide

Opioid; Vas deferens; Ontogenesis; Stress (Loizzo, A. (458) 201)

Anti-thrombin action

Acetylsalicylic acid; Aspirin; Coronary heart disease; Platelet factor 4 (Di Micco, B. (460) 59)

Antitumor activity

Catalase; Hydroselenite; Glutathione peroxidase; Morphology; Nitric oxide (NO); Selenium (Arsenyan, P. (465) 229)

Antitumoural

Natural killer cell; Titanocene; Ehrlich ascites tumour (Valadares, M.C. (473) 191)

Antitussive effect

Endomorphin-1; Endomorphin-2; Cough reflex; μ -Opioid receptor; κ -Opioid receptor (Kamei, J. (467) 219)

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Cough; Kampo preparation (Kamei, J. (469) 159)

Cough; cannabinoid CB₁ receptor; WIN 55212-2; SR141716A (Morita, K. (474) 269)

Antiviral

Acyclic nucleoside phosphonate; Chemokine; Cytokine; Nitric oxide (NO) (Zidek, Z. (475) 149)

Anxiety

Elevated plus-maze; Test experience; Antidepressant; Benzodiazepine; (Mouse) (Holmes, A. (459) 221)

5-HT, (5-hydroxytryptamine; serotonin); 5-HT_{3A} receptor; Animal model; (Mouse) (Kelley, S.P. (461) 19)

Open field; Benzodiazepine; 5-HT (5-hydroxytryptamine; serotonin); Neuropeptide (Prut, L. (463) 3)

Social interaction; Neuropeptide; GABA receptor; 5-HT (5-hydroxytryptamine; serotonin); Brain region (File, S.E. (463) 35)

Anxiolytic; Anxiogenic; Stress; Limbic system; Benzodiazepine; 5-HT_{1A} receptor (Millan, M.J. (463) 67)

Mouse Defense Test Battery; Panic; GABA_A–benzodiazepine receptor; 5-HT (5-hydroxytryptamine, serotonin); Neuropeptide (Blanchard, D.C. (463) 97)

Stress; Stress-induced hyperthermia; Body temperature; Mutant mouse (Olivier, B. (463) 117)

Vocalisation; Stress; Aversion; Ultrasound; (Rat) (Sánchez, C. (463) 133)

Animal model; Defensive behavior; Fear; Coping, active; Coping, passive; Avoidance; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Benzodiazepine; 5-HT (5-hydroxytryptamine, serotonin); 5-HT receptor (Toth, M. (463) 177)

5-HT_{1A} receptor; CRF (corticotropin-releasing factor); CRH (corticotropin-releasing hormone); Transgenic; Knockout (Groenink, L. (463) 185)

Amygdala; Bed nucleus of the stria terminalis; Fear; Stress; CRF (corticotropin releasing hormone) (Walker, D.L. (463) 199)

CART-(55–102); CART-(62-102); FG-7142 (Chaki, S. (464) 49)

Anxiolytic effect; Vogel conflict test; Levetiracetam; Antiepileptic; Chlordiazepoxide (Lamberty, Y. (469) 97)

Periaqueductal gray, dorsal; Panic; 5-HT (5-hydroxytryptamine, serotonin); T-maze, elevated (Zanoveli, J.M. (473) 153)

Melanocortin MC₄ receptor; Melanocortin; MCL0020; MT II (Ac-[Nle⁴, Asp⁵, D-Phe⁷, Lys¹⁰] α -MSH-(4-10)-NH₂) (Chaki, S. (474) 95)

Microdialysis; Norepinephrine; Cortex prefrontal; Reboxetine; Rat (Dazzi, L. (476) 55)

Anorexia nervosa; Phenotype; Obesity; Genotype; Trait; Hyperactivity (Kas, M.J.H. (480) 13)

Aggression; 5-HT (5-hydroxytryptamine, serotonin); Transgenics; Knock-out mouse (Lesch, K.P. (480) 185)

Plus-maze test; Levetiracetam; Anti-epileptic; Chlordiazepoxide; Buspirone (Gower, A.J. (481) 67)

WAY 100635; Marmoset, monkey; Figure-eight maze; Taxidermized predator (Barros, M. (482) 197)

Anxiogenic

Anxiety; Anxiolytic; Stress; Limbic system; Benzodiazepine; 5-HT_{1A} receptor (Millan, M.J. (463) 67)

Anxiolytic

Antidepressant; Antipsychotic; Light/dark test, mouse; Neuropeptide receptor ligand (Bourin, M. (463) 55)

Anxiety; Anxiogenic; Stress; Limbic system; Benzodiazepine; 5-HT_{1A} receptor (Millan, M.J. (463) 67)

5-HT (5-hydroxytryptamine, serotonin); Citalopram; Escitalopram; R-citalopram (Sánchez, C. (464) 155)

Anxiolytic effect

Anxiety; Vogel conflict test; Levetiracetam; Antiepileptic; Chlordiazepoxide (Lamberty, Y. (469) 97)

Anxiolytic-like effect

Baicalin; Baicalin; Vogel conflict test; Chlordiazepoxide; Flumazenil (Liao, J.-F. (464) 141)

Aorta

cGMP; Hydrogen peroxide; Myosin light chain; Norepinephrine (Fujimoto, S. (459) 65)

Acidosis, intracellular; pH, acidic; Spontaneously hypertensive rat (SHR); Wistar–Kyoto rat (WKY) (Rohra, D.K. (465) 141)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca^{2+} influx (Hu, C.M. (468) 37)

17 β -Estradiol; Progesterone; Endothelium; Inbred SHR, rat; K^+ channel (Unemoto, T. (472) 119))

Salt; Isoproterenol; Nitric oxide (NO); cAMP; cGMP (Sofola, O. (474) 241)

Protein kinase C; Diabetes mellitus; Endothelium; Smooth muscle; NANC (non-adrenergic, non-cholinergic) nerve; Nitric oxide (NO); Corpus cavernosum (Nangle, M.R. (475) 99)

Zucker rat; Blood pressure; Mesenteric artery; Noradrenaline; Endothelin-1; Endothelium (Subramanian, R. (477) 143)

Endothelial cell; OP4 receptor; Immunocytochemistry; In situ hybridization; MAP (mitogen-activated protein) kinase (Granata, F. (482) 17)

Aorta, guinea pig

Adenosine A_{2B} receptor; Species difference; Adenosine receptor antagonist; Colon, rat; Saphenous vein, dog (Fozard, J.R. (475) 79)

Aorta, mouse

α_1 -Acid glycoprotein; Isometric tension; Ca^{2+} entry; Smooth muscle cell, vascular (Tokutomi, Y. (477) 137)

Aorta, rat

NS-398; Cyclooxygenase-2; Endothelium derived; Nitric oxide; SERCA (Ca^{2+} pump); Sarcoplasmic reticulum (Adeagbo, A.S.O. (458) 145)

Aorta, Wistar Kyoto rat

Acidosis; Hyperpolarization; K^+ channel, ATP-sensitive; K^+ channel, Ca^{2+} -activated; K^+ channel, delayed rectifier; Aorta, Wistar rat (Rohra, D.K. (476) 123)

Aorta, Wistar rat

Acidosis; Hyperpolarization; K^+ channel, ATP-sensitive; K^+ channel, Ca^{2+} -activated; K^+ channel, delayed rectifier; Aorta, Wistar Kyoto rat (Rohra, D.K. (476) 123)

Apamin

Colon, murine; Fast inhibitory junction potential; ATP; PACAP (pituitary adenylate cyclase activating peptide); Purinoceptor (Serio, R. (460) 183)

Apelin

Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Cheng, X. (470) 171)

Apomorphine

YC-1; Guanylate cyclase; Nitric oxide (NO); Penile erection; Corpus cavernosum (Hsieh, G.C. (458) 183)

cAMP-mediated signaling pathway; Receptor supersensitivity; Uptake; Up-regulation; PET (positron emission tomography) (Schwartz, R.A. (459) 195)

GMC1111; Parkinson's disease; Dyskinesia; 6-Hydroxydopamine; Levodopa; Dopamine stabilizer (Klitenberg, R. (459) 231)

Morphine; Nitric oxide (NO); L-Arginine; L-NAME (N^G -nitro-L-arginine methyl ester); Locomotor activity; Sensitization; (Mouse) (Zarrindast, M.-R. (482) 205)

Apoptosis

β -Amyloid protein; Hippocampal neuron; Propentofylline; cAMP; Protein kinase A (Koriyama, Y. (458) 235)

Selegiline; Oxidative stress; Cardiac function; Heart failure (Qin, F. (461) 149)

L-PDMP; Ganglioside biosynthesis; Spatial cognition; 8-Arm radial maze (Yamagishi, K. (462) 53)

α -Tocopherol; Neuroprotection; Oxidative stress; Striatal neuron; (In vitro); (Rat) (Osakada, F. (465) 15)

Microphysiometry; Extracellular acidification rate; Na^+/H^+ antiporter; Leukemic cell line (Khare, S. (465) 23)

β_1 -Adrenoceptor; Antibody; Cardiomyocyte (Staudt, Y. (466) 1)

5-Fluorouracil; Apoptosis regulating protein; Carcinogenesis, cervical; Growth medium (Mo, B. (467) 15)

Phenylacetate derivative; Cell cycle; Caspase (Chan, H.-C. (467) 31)

Cerebellar granule cell; Fe ion; Tetramethylpyrazine; Ferulic acid (Zhang, Z. (467) 41)

Ethanol; Cytochrome *c*; Caspase-3; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Neuron; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

Selenite; JNK; c-Jun; p53; p21^{WAF1/CIP1} (Nango, R. (471) 1)

Dopamine; Parkinson's disease; Ginseng; Saponin; Oxidative stress (Chen, X.-C. (473) 1)

Peucedanum praeruptorum Dunn; Pyranocoumarins; Multidrug resistance; KB-V1; P-glycoprotein (Wu, J.Y.-C. (473) 9)

Malignant mesothelioma; Experimental therapeutics; Antiproliferative activity (de Cupis, A. (473) 83)

Emodin; Caspase; Cervical cancer; Bu 25TK (Srinivas, G. (473) 117)

FK506; Hypoxia-reoxygenation; JNK1/SAPK1; Necrosis; Hepatocyte; (Rat) (Crenesse, D. (473) 177)

Natriuretic peptide; Endothelin; Cardiac myocyte; Ornithine decarboxylase (Han, B. (474) 15)

Heat shock protein; Herbimycin A; Thermotolerance; (Rat) (Sachidhanandam, S.B. (474) 121)

Arsenic trioxide; DODC (diethyloxadicarbocyanine); Cell cycle; Sensitivity; Telomere (Zhang, Y. (474) 141)

Roxithromycin; Asthma; Fas ligand; Bcl-2 (Ogawa, N. (474) 273)

6-Nitro-7-hydroxycoumarin; Renal cell carcinoma; p38 MAP kinase; Cell cycle (Finn, G. (481) 159)

Caspase; Neuroprotection; Stroke (Feng, Y. (481) 169)

Cyclo-oxygenase-2; Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; Interleukin-1 β ; Prostaglandin (Martín, A.R. (481) 281)

Nicotinic receptor; $\alpha 7$ -Subunit; Bleomycin; HL-60 cell (Gimonet, D. (482) 25)

Cocaine; Cerebral vascular smooth muscle cell; Stroke (Su, J. (482) 61)

Sesquiterpene lactone; Cytotoxic activity; Caspase; Poly(ADP-ribose) polymerase-1 cleavage; Cytochrome *c* release (Rivero, A. (482) 77)

Apoptosis regulating protein

5-Fluorouracil; Apoptosis; Carcinogenesis, cervical; Growth medium (Mo, B. (467) 15)

Aporphine

Nantenine; Ca^{2+} entry blocker; Fura-2; Smooth muscle; Vas deferens, rat (Ribeiro, R.d.A. (470) 37)

Arachidonate

Antioxidant; Capillary permeability; Reactive oxygen species (Alvarez-Guerra, M. (466) 199)

Ethamsylate; Antioxidant; Vascular permeability (Hannaert, P. (466) 207)

Arachidonic acid

Loop of Henle; Microperfusion, in vitro; Fenoldopam; Protein kinase C (Grider, J.S. (473) 185)

Dopamine transport; Voltammetry, rotating disk; Fatty acid; Eicosanoid (Chen, N. (478) 89)

Arachidonic acid metabolism

Acetophenones; Maltol-glucoside; Anti-inflammatory compound; Analgesic compound (Sala, A. (460) 219)

Erycristagallin; (*Erythrina mildbraedii*); 5-Lipoxygenase inhibition; Anti-inflammatory activity (Njamen, D. (468) 67)

2-Arachidonoyl glycerol

Endocannabinoid; Cannabinoid receptor; Milk suckling; SR141716A; Cannabidiol (Fride, E. (461) 27)

2-Arachidonoylglycerol

Anandamide; Cannabinoid; Dopamine; Movement disorder; Reward (van der Stelt, M. (480) 133)

A7r5 cell

Ca^{2+} channel, L-type; Dihydropyridine; Cilnidipine; Antisense; β -Subunit (Uchida, R. (466) 53)

Argatroban

PDGF, (platelet-derived growth factor); Smooth muscle cell, vascular; RT-PCR, (reverse transcription-polymerase chain reaction); In situ hybridization (Yoshinaga, M. (461) 9)

Arginase

Alveolar macrophage; Nitric oxide synthesis; Phosphodiesterase; Lipopolysaccharides; iNOS (Koschorreck, S. (471) 229)

Aripiprazole

Haloperidol; Risperidone; Catalepsy; Dopamine; Partial agonist; Atypical antipsychotic (Nakai, S. (472) 89)

8-Arm radial maze

L-PDMP; Ganglioside biosynthesis; Spatial cognition; Apoptosis (Yamagishi, K. (462) 53)

Arousal

Estrogen; Genomic; Hypothalamus; Sex (Mong, J. (480) 229)

Arrhythmia

$\text{Cl}^-/\text{HCO}_3^-$ exchange; Ischemia; Reperfusion; DIDS; SITS (Zhu, B.-M. (460) 43)

Arrhythmias

Myocardial infarction; Survival rate; (Rat); Levosimendan (Leprán, I. (464) 171)

Arsenic trioxide

Apoptosis; DODC (diethyloxadicarbocyanine); Cell cycle; Sensitivity; Telomere (Zhang, Y. (474) 141)

Artemisinin

Leukemia; Cell differentiation; PKC (protein kinase C); ERK (extracellular-regulated kinase) (Kim, S.H. (482) 67)

Arterial conductance

Urocortin; Arterial pressure; Peripheral resistance; Cardiac output; Blood flow (Abdelrahman, A.M. (466) 317)

Arterial pressure

Cocaine; Cardiac output (Williams, J.B. (464) 189)

Urocortin; Peripheral resistance; Cardiac output; Blood flow; Arterial conductance (Abdelrahman, A.M. (466) 317)

Arterial pressure, mean

Apelin; Circulatory filling pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Cheng, X. (470) 171)

Arterial thrombosis

Kinetin; Hydroxyl radical; Bleeding time; Occlusion time (Hsiao, G. (465) 281)

FR171113; PAR-1 antagonist; Thrombin receptor (Kato, Y. (473) 163)

Arteriovenous anastomosis

BIBN4096BS; Carotid vasodilatation; Cardiac output; CGRP (calcitonin gene-related peptide); α -CGRP human; Migraine; (Pig) (Kapoor, K. (475) 69)

Artery

Irradiation; Endothelium-dependent relaxation; endothelial nitric oxide synthase (eNOS); Free radical scavenger (Zhang, X.-H. (476) 131)

Arthritis, adjuvant-induced

iNOS [nitric oxide (NO) synthase, inducible]; Aminoguanidine; IGFBP-3 (insulin-like growth factor binding protein-3); IGFBP-3 proteolysis; IGFBP-3 mRNA (Ibáñez de Cáceres, I. (481) 293)

ASC

Glutamate; Neutral amino acid transporter (Kanai, Y. (479) 237)

Asiatic acid

Ursolic acid; HaCaT human keratinocyte; Reactive oxygen species; Matrix metalloproteinase; p53 (Soo Lee, Y. (476) 173)

Aspirin

Acetylsalicylic acid; Anti-thrombin action; Coronary heart disease; Platelet factor 4 (Di Micco, B. (460) 59)

Histidine decarboxylase; Stomach; Indomethacin; Dexamethasone; Histamine H_2 receptor antagonist (Ayada, K. (460) 63)

Platelet; Receptor; Coronary artery disease (Malinin, A.I. (462) 139)

Association

Psychosis; Linkage; Genetic; 5-HT (5-hydroxytryptamine, serotonin); Proline; Neuregulin (Collier, D.A. (480) 177)

Asthma

Bradykinin; Bradykinin receptor antagonist; Airway inflammation; Eosinophil (Gama Landgraf, R. (460) 75)

Bradykinin; Bradykinin B₂ receptor; Bradykinin receptor antagonist; Rhinitis; FK3657 (Hirayama, Y. (467) 197)

Mycobacterium vaccae; Allergy; Hygiene hypothesis (Smit, J.J. (470) 193)

Thromboxane A₂; Smooth muscle cell; Human; Proliferation; Airway (Capra, V. (474) 149)

Roxithromycin; Apoptosis; Fas ligand; Bcl-2 (Ogawa, N. (474) 273)

Insulin; Airway smooth muscle; Phenotype; Diabetes (Gosens, R. (481) 125)

Allergen; Allergic pulmonary inflammation; Glucocorticosteroid; Lung; Magnetic resonance imaging (MRI); Mitogen-activated protein kinase inhibitor; Oedema; Oedema resolution (Tigani, B. (482) 319)

Astressin

Hepatic sympathectomy; Central nervous system; Liver injury (Nakade, Y. (460) 135)

Atherosclerosis

CYR61; Iloprost; Prostacyclin; Smooth muscle (Debey, S. (474) 161)

Diabetes mellitus; LDL (low-density lipoprotein), glycoxidized; MCP-1 (monocyte chemoattractant protein-1); NF-κB (nuclear factor-κB); Umbilical vein endothelial cell, human (Sonoki, K. (475) 139)

Atipamezole

Dopamine overflow; L-3,4-dihydroxyphenylalanine (L-DOPA); Storage pool, readily releasable; Voltammetry, in vivo; Caudate nucleus; Nucleus accumbens (Yavich, L. (462) 83)

Atopic dermatitis

NC/Nga, mouse; Scratching; Itch; MicroAct (Takano, N. (471) 223)

Adrenectomy; Glucocorticoid; RU-486; Scratching behavior (Hirayama, K. (481) 59)

Atorvastatin

α-Thrombin, human; Interleukin-6; NF-κB (nuclear factor-κB); RhoA (Haloui, M. (474) 175)

ATP

Colon, murine; Fast inhibitory junction potential; Apamin; PACAP (pituitary adenylate cyclase activating peptide); Purinoceptor (Serio, R. (460) 183)

P2X receptor; Site-directed mutagenesis; Cysteine; *Xenopus* oocyte (Nakazawa, K. (474) 205)

Endothelial cell; Hypoxia; Monolayer permeability; cAMP; Actin filament (Fan, Y. (481) 33)

ATP-dependent K⁺ channel

Torsade de pointes; QT prolongation; Prostaglandin E₂; K⁺ channel; Proarrhythmia (Farkas, A. (472) 189)

ATP purinoceptor

P2X₄ purinoceptor; Copper neuromodulation; Zinc neuromodulation; Desensitized purinoceptor; Metal chelator; Metal neuromodulation (Codou, C. (472) 49)

ATP receptor

Oocyte; Antagonist; Voltage clamp; Whole cell; NF449 (4,4',4'',4'''-(carbonylbis(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid) (Hülsmann, M. (470) 1)

ATP-sensitive K⁺ channel

Hydrogen peroxide; Hyperpolarization; Prostaglandin; Smooth muscle vascular (Hattori, T. (464) 101)

Crotalus durissus terrificus venom; Analgesia; δ-Opioid receptor agonist, peripheral; κ-Opioid receptor agonist, peripheral (Picolo, G. (469) 57)

Atrioventricular block

Famotidine; Monophasic action potential; Torsades de pointe; HERG; QT interval (Sugiyama, A. (466) 137)

Atrium

Adenosine A₃ receptor; Ischaemia; Hypoxia; Stunning; Heart, isolated; working; Papillary muscle; Cardioprotection (Maddock, H.L. (477) 235)

Atrium, human

U50,488H; Ion channel; Opioid; K⁺ current, transient outward; K⁺ current, ultra-rapid delayed rectifier (Xiao, G.-S. (473) 97)

Atrium, human, right

Muscarinic M₂ receptor; Carbachol; Negative inotropic effect, indirect; β₁-Adrenoceptor antagonist (Wangemann, T. (458) 163)

Atropine

Salivary gland; Cysteamine; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Omeprazole (Bedeckovic, V. (477) 73)

Attention

Dizocilpine; MK-801; NMDA receptor; Nicotine; Cognition (Rezvani, A.H. (465) 83)

Attention deficit hyperactivity disorder (ADHD)

Dopamine transporter (DAT); Cocaine; Anti-depressant; Serotonin transporter (SERT); Addiction (Madras, B.K. (479) 41)

A-type afferent

Morphine; Inflammation; Allodynia (Li, S. (481) 203)

Atypical antipsychotic

Aripiprazole; Haloperidol; Risperidone; Catalepsy; Dopamine; Partial agonist (Nakai, S. (472) 89)

Atypical neuroleptic

Amisulpride; Opioid receptor sub-type; Antinociception; Tail-flick; Pain (Weizman, T. (478) 155)

Autoantibody

Anorexia; Hypothalamus; Mouse model; Genetic; Positional cloning; Neuropeptide Y; AgRP (agouti-related protein); POMC (pro-opiomelanocortin) (Johansen, J.E. (480) 171)

Autonomic nervous system

Neuropeptide; Vagus; Hepatic cytoprotection (Yoneda, M. (478) 173)

Hypothalamus; Circadian rhythm; Metabolic syndrome; Visceral obesity; Diabetes; Hypertension (Kreier, F. (480) 51)

Autoradiography

d-opioid receptor; G-protein coupling; Opioid receptor knockout (Oakley, S.M. (466) 91)

Autoreceptor

CP-93,129; 5-HT (5-hydroxytryptamine, serotonin); Selective reuptake inhibitor; Fluvoxamine; Caudate putamen; Heteroreceptor (De Groote, L. (476) 71)

Aversion

Vocalisation; Stress; Anxiety; Ultrasound; (Rat) (Sánchez, C. (463) 133)

Midbrain tectum; Dorsal periaqueductal gray; Superior colliculus; Inferior colliculus (Brandão, M.L. (463) 225)

Avoidance

Animal model; Defensive behavior; Fear; Anxiety; Coping, active; Coping, passive; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Avoidance retention

Amnesia; β -Amyloid fragment; Cannabinoid CB₁ receptor; Cannabinoid (Mazzola, C. (477) 219)

AWD 131-138

Anticonvulsant; Benzodiazepine; Midazolam; Diazepam; Drug discrimination; Self-administration, monkey (Yasar, S. (465) 257)

Axotomy

Injury; mRNA expression; POMC (proopiomelanocortin); Melanocortin receptor; Retina (Lindqvist, N. (482) 85)

Azimilide

Delayed rectifier K⁺ current; Papillary muscle; Purkinje fiber; Action potential (Takács, J. (470) 163)

Baclofen

GABA (γ -Aminobutyric acid); Glutamate release; Hippocampus; Microdialysis, brain; Ca²⁺ influx (Tanaka, S. (465) 61)

GABA_B receptor; L-Amino acid; Dipeptide; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Breath test; GABA_B receptor; Gastric emptying; (Mouse) (Symonds, E. (470) 95)

α_{1B} -Adrenoceptor

Neurojunctional transmission; Neuropeptide Y Y₁ receptor; Splenic artery, canine (Yang, X.-P. (466) 311)

Baicalein

p42/p44 MAPK (ERK); MEK-1; Raf-1; Prostaglandin E₂ (Nakahata, N. (461) 1)

Baicalin; Anxiolytic-like effect; Vogel conflict test; Chlordiazepoxide; Flumazenil (Liao, J.-F. (464) 141)

Baicalin; Ca²⁺; NADPH oxidase; Myeloperoxidase; Reactive oxygen intermediate (Shen, Y.-C. (465) 171)

Baicalin

Baicalein; Anxiolytic-like effect; Vogel conflict test; Chlordiazepoxide; Flumazenil (Liao, J.-F. (464) 141)

Baicalein; Ca²⁺; NADPH oxidase; Myeloperoxidase; Reactive oxygen intermediate (Shen, Y.-C. (465) 171)

Bakumondo-to (Mai-men-dong-tang)

Glycyrrhizae radix; Antitussive effect; Cough; Kampo preparation (Kamei, J. (469) 159)

Balloon injury

Vascular contraction; Vascular relaxation; Antiproliferative; Restenosis (Kennedy, S. (481) 101)

Barbiturate

Benzodiazepine; 1,4-Butanediol; Drug discrimination; γ -Butyrolactone; Self-administration (McMahon, L.R. (466) 113)

Anaesthetic, intravenous; Propofol; Glycine receptor (Hadipour-Jahromy, M. (477) 81)

Basal forebrain lesion

T-82; Scopolamine; Passive avoidance task; (Rat) (Isomae, K. (465) 97)

Basolateral membrane

Organic anion transporter 1; Organic anion transporter 3; Phenolsulfonphthalein; Renal uptake; Urinary excretion (Itagaki, S. (475) 85)

Basophil, human

Heme oxygenase; Histamine; CD63; cGMP (Vannacci, A. (465) 289)

BAY 41-8543

BAY 58-2667; Kinetics; Heme; Nitric oxide (NO); Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Corpus cavernosum; Soluble guanylyl cyclase; Sildenafil; Nitric oxide (NO) (Barakat, J.S. (477) 163)

Bcl-2

Roxithromycin; Apoptosis; Asthma; Fas ligand (Ogawa, N. (474) 273)

8-BCPA (8-butylamino-CPA)

Acetylcholine release; Adenosine A₁ receptor; Low-efficacy agonist; Partial agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA) (Bueters, T.J.H. (481) 141)

BDNF (brain-derived neurotrophic factor)

Selegiline; Desmethylelegiline; NMDA (*N*-methyl-D-aspartate); Retinal degeneration; Cell death (Takahata, K. (458) 81)

Dopamine; Parkinson's disease; Behavioral sensitization; Dyskinesia (Guillin, O. (480) 89)

Bed nucleus of the stria terminalis

Amygdala; Fear; Anxiety; Stress; CRF (corticotropin releasing hormone) (Walker, D.L. (463) 199)

Behavior

Methamphetamine; Monoclonal antibody; Drug abuse; Pharmacokinetics (Byrnes-Blake, K.A. (461) 119)

Fruit fly; GHB (γ -hydroxybutyric acid); GABA (γ -aminobutyric acid) (Satta, R. (473) 149)

Pruritus; Opioid system; TRK-820; CNS (central nervous system); (Mouse) (Umeuchi, H. (477) 29)

Behavioral sensitization

Methamphetamine; Pharmacokinetics; Microdialysis, brain; Drug transporter (Kitaichi, K. (464) 39)

Morphine; Locomotor activity; Nifedipine; Nimodipine; Verapamil (Zhang, Q. (467) 145)

Methamphetamine; Nocturnal behavior; Monoamine metabolism; Dopamine; 5-HT (5-hydroxytryptamine; serotonin) (Kitanaka, N. (474) 63)

Reinforcement; Cocaine self-administration; Hyperactivity; Knockout, mouse; DAT (dopamine transporter); NET (norepinephrine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Dopamine; BDNF (brain-derived neurotrophic factor); Parkinson's disease; Dyskinesia (Guillin, O. (480) 89)

Behavior, schedule controlled

Cannabinoid; (*R*)-Methanandamide; Δ^9 -Tetrahydrocannabinol; SR-141716A; (Rat) (Järbe, T.U.C. (466) 121)

Behaviour

Chlorpromazine; Haloperidol; Risperidone; Clozapine; (Rhesus monkey) (Kumar, R. (462) 133)

Clozapine; Haloperidol; Risperidone; Stress; Blood pressure; Heart rate (van den Buuse, M. (464) 55)

Animal model; Mutagenesis; ENU (ethyl-nitrosourea); Psychiatric disorder; High-throughput screen; Candidate gene (Ohl, F. (480) 219)

Benign prostatic hyperplasia

LNCaP; PC-3; Intermediate-conductance K^+ channel, intermediate-conducting, Ca^{2+} -activated; Riluzole; 1-EBIO (Parihar, A.S. (471) 157)

Benzimidazole derivative

5-HT (5-hydroxytryptamine, serotonin); 5-HT₃ receptor antagonist; Gastrointestinal motility (Pascual, D. (462) 99)

Benzodiazepine

Microdialysis; Immobilization stress; Amygdaloid nucleus, basolateral; Lactate (Uehara, T. (459) 211)

Elevated plus-maze; Test experience; Anxiety; Antidepressant; (Mouse) (Holmes, A. (459) 221)

Flavonoid; GABA (γ -aminobutyric acid); GABA_A receptor; GABA_C receptor (Goutman, J.D. (461) 79)

Open field; 5-HT (5-hydroxytryptamine; serotonin); Neuropeptide; Anxiety (Prut, L. (463) 3)

Anxiety; Anxiolytic; Anxiogenic; Stress; Limbic system; 5-HT_{1A} receptor (Millan, M.J. (463) 67)

Anxiety; 5-HT (5-hydroxytryptamine, serotonin); 5-HT receptor (Toth, M. (463) 177)

Anticonvulsant; AWD 131-138; Midazolam; Diazepam; Drug discrimination; Self-administration, monkey (Yasar, S. (465) 257)

Barbiturate; 1,4-Butanediol; Drug discrimination; γ -Butyrolactone; Self-administration (McMahon, L.R. (466) 113)

Opiate; Opioid; Cocaine; Amphetamine; Withdrawal; Alcohol; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

Gaboxadol; THIP; Ethanol (Störustovu, S. (467) 49)

GABA_A receptor; GABA (γ -aminobutyric acid); Extrasynaptic receptor; Inhibition; Anaesthetic (Eghbali, M. (468) 75)

Ligand-gated; Anaesthetic; γ -Aminobutyric acid; THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol); Inhibition (Smith, M. (478) 21)

Benzodiazepine coupling

(Swiss Webster mouse); GABA_A receptor; Diazepam; DMCM; Benzodiazepine inverse agonist; Benzodiazepine Type-1 receptor agonist (Davies, D.L. (469) 37)

Benzodiazepine inverse agonist

(Swiss Webster mouse); GABA_A receptor; Benzodiazepine coupling; Diazepam; DMCM; Benzodiazepine Type-1 receptor agonist (Davies, D.L. (469) 37)

Benzodiazepine receptor, peripheral-type

PK11195; Ro5-4864; Depression; Steroid; (Mouse); Forced swimming test (Gavioli, E.C. (471) 21)

Benzodiazepine Type-1 receptor agonist

(Swiss Webster mouse); GABA_A receptor; Benzodiazepine coupling; Diazepam; DMCM; Benzodiazepine inverse agonist (Davies, D.L. (469) 37)

B16-F10 melanoma

RNA, regulatory; RNA, noncoding; PKR (RNA-dependent protein kinase); NF- κ B (nuclear factor- κ B); TNF- α (tumor necrosis factor- α) (Watanabe, M.A.E. (465) 205)

BIA 3-202

Catechol-*O*-methyltransferase inhibitor; Kinetic; Liver catechol-*O*-methyltransferase; Parkinson's disease (Bonifácio, M.J. (460) 163)

BIBN4096BS

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Lung; Vas deferens; [Cys(Et)^{2,7}]hCGRP α ; Adrenomedullin (22–52), human; (Rat) (Juaneda, C. (474) 165)

Arteriovenous anastomosis; Carotid vasodilatation; Cardiac output; CGRP (calcitonin gene-related peptide); α -CGRP human; Migraine; (Pig) (Kapoor, K. (475) 69)

Bicuculline

Ginkgo biloba; Bilobalide; Picrotoxinin; GABA_A receptor; Voltage clamp, two-electrode; *Xenopus* oocyte (Huang, S.H. (464) 1)

Bilobalide

Ginkgo biloba; Picrotoxinin; Bicuculline; GABA_A receptor; Voltage clamp, two-electrode; *Xenopus* oocyte (Huang, S.H. (464) 1)

Binding

Cytisine; Nicotinic receptor, neuronal; Agonist; Antagonist; Partial agonist; FLIPR; Electrophysiology (Carbonnelle, E. (471) 85)

Antiepileptic; Brain; Levetiracetam (Gillard, M. (478) 1)

Anticonvulsant; Brain; Levetiracetam; Photoaffinity labelling (Fuks, B. (478) 11)

DAT (dopamine transporter); Cation; Anion; Uptake blocker (Bonnet, J.-J. (479) 199)

Binding activity

Cocaine; Analogue; Structure–activity relationship study; DAT (dopamine transporter); Dopamine hypothesis (Dutta, A.K. (479) 93)

Binding assay

5-HT receptor; 5-HT (5-hydroxytryptamine, serotonin) neurotransmission; Ciliary muscle (Lograno, M.D. (464) 69)

Binding, Receptor

Adrenomedullin; CGRP (calcitonin gene-related peptide); Brain; Lung; Vas deferens; BIBN4096BS; [Cys(Et)^{2,7}]hCGRP α ; Adrenomedullin-(22–52), human; (Rat) (Juaneda, C. (474) 165)

Binding site

Permeability transition pore; Specific; Antioxidant property; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Bioassay

Lycium barbarum; Polysaccharide-protein complex; Cytokine; Gene expression (Gan, L. (471) 217)

Biogenic amine

Structural probing; Functional probing; Fluorescence spectroscopy (Rasmussen, S.G.F. (479) 13)

Biogenic amine receptor

Drosophila; *Caenorhabditis* (Roeder, T. (466) 85)

Bioluminescence assay

PTH (Parathyroid hormone); Tuberoinsulin peptide (TIP39); PTH2 receptor; Proliferation; Luciferase gene-reporter assay (Misiano, P. (468) 159)

Biomarker

Nefiracetam; Metabolite; Renal papillary necrosis; Prostaglandin (Tsuchiya, Y. (475) 119)

Bipolar disorder

Antidepressant; Imipramine; Mania; Rapid cycling; Supersensitivity (D'Aquila, P.S. (458) 129)

Bisindolylmaleimide I

Ca²⁺ current; Calphostin; Clearythrine; K⁺ current; Protein kinase C (Voutilainen-Myllylä, S. (466) 41)

Bisoprolol

β_1 -adrenoceptor selectivity; Nebivolol; Carvedilol; Myocardium, human (Bundkirchen, A. (460) 19)

Bisphosphonate

Osteoblast; Differentiation; Alkaline phosphatase; Protein phosphatase; Protein tyrosine phosphatase (Itoh, F. (477) 9)

Black tea

Thearubigin; Inflammatory bowel disease; Colitis; Cytokine; Nitric oxide (NO) synthase, inducible; NF- κ B (nuclear factor kappa B) (Maity, S. (470) 103)

Bleeding time

Kinetin; Hydroxyl radical; Occlusion time; Arterial thrombosis (Hsiao, G. (465) 281)

Beomycin

Nicotinic receptor; $\alpha 7$ -Subunit; Apoptosis; HL-60 cell (Gimonet, D. (482) 25)

Blood flow

Pancreatic islet; Superoxide; Superoxide dismutase; Nitric oxide (NO) (Svensson, A.M. (459) 59)

Urocortin; Arterial pressure; Peripheral resistance; Cardiac output; Arterial conductance (Abdelrahman, A.M. (466) 317)

Blood flow, pancreatic

Pancreatitis; Ischemic preconditioning; Sensory nerve; Vagal nerve, interleukin-1 β (Dembiński, A. (473) 207)

Blood flow regulation

Cl[−] channel; Smooth muscle; Systemic circulation; Hypoxia (Jiang, J. (481) 133)

Blood pressure

Clozapine; Haloperidol; Risperidone; Stress; Heart rate; Behaviour (van den Buuse, M. (464) 55)

Zucker rat; Mesenteric artery; Aorta; Noradrenaline; Endothelin-1; Endothelium (Subramanian, R. (477) 143)

Blood vessel

Estrogen receptor; Nitric oxide (NO); Endothelium (Stirone, C. (478) 35)

Body temperature

Deltorphin II; Hypothermia; Hyperthermia (Salmi, P. (458) 101)

Stress; Anxiety; Stress-induced hyperthermia; Mutant mouse (Olivier, B. (463) 117)

Middle cerebral artery occlusion; Ischemia; Reperfusion; Neurological deficit; Diffusion-perfusion magnetic resonance imaging (Petty, M.A. (474) 53)

Body weight

MCH (melanin-concentrating hormone); Food intake; Neuropeptide Y; Obesity (Shearman, L.P. (475) 37)

Bombesin BB3 receptor (BRS-3)

Sibutramine; Serotonin and noradrenaline re-uptake inhibitor (SNRI); Hyperphagia; Energy efficiency; Animal model (Matsumoto, K. (473) 41)

Bone marrow

Cerebral ischemia; Growth factor (Six, I. (458) 327)

Bone marrow toxicity

Thiazolidinedione; CFU-GM; Insulin sensitizer (Benkő, I. (477) 179)

(Bovine)

cAMP; Lidocaine; Anaesthetic, local; Smooth muscle (Yunoki, M. (470) 65)

Bradykinin

Iris sphincter, pig; Contraction; Cyclooxygenase metabolite; Bradykinin B₁ receptor-selective antagonist; Bradykinin B₂ receptor-selective antagonist (El Sayah, M. (458) 175)

Bradykinin receptor antagonist; Airway inflammation; Eosinophil; Asthma (Gama Landgraf, R. (460) 75)

Hyperalgesia; Allergy; Inflammation; Vasoactive amine (Lavich, T.R. (462) 185)

Bradykinin B₂ receptor; Bradykinin receptor antagonist; Asthma; Rhinitis; FK3657 (Hirayama, Y. (467) 197)

Prostaglandin E₂; Trigeminal; Migraine; Primary culture (Jenkins, D.W. (469) 29)

Angiotensin-converting enzyme inhibitor; Bradykinin B₁ receptor; Bradykinin B₂ receptor; Cough; (Guinea pig) (Hirata, R. (474) 255)

Bradykinin receptor; Des-Arg⁹-bradykinin; HOE-140; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Allergic rhinitis; Nasal blockage; Hyperresponsiveness; Bradykinin B₁ receptor; Bradykinin B₂ receptor (Sugahara, S. (476) 229)

Bradykinin B₂ receptor

Bradykinin; Bradykinin receptor antagonist; Asthma; Rhinitis; FK3657 (Hirayama, Y. (467) 197)

Angiotensin-converting enzyme inhibitor; Bradykinin; Bradykinin B₂ receptor; Cough; (Guinea pig) (Hirata, R. (474) 255)

Allergic rhinitis; Nasal blockage; Hyperresponsiveness; Bradykinin; Bradykinin B₂ receptor (Sugahara, S. (476) 229)

Bradykinin B₁ receptor-selective antagonist

Bradykinin; Iris sphincter, pig; Contraction; Cyclooxygenase metabolite; Bradykinin B₂ receptor-selective antagonist (El Sayah, M. (458) 175)

Bradykinin B₂ receptor-selective antagonist

Bradykinin; Iris sphincter, pig; Contraction; Cyclooxygenase metabolite; Bradykinin B₁ receptor-selective antagonist (El Sayah, M. (458) 175)

Bradykinin receptor

Myocardial infarction; Membrane transporter; (Rat) (Sandmann, S. (458) 3)

Induction; Desensitisation; (Rat); Vas deferens (Scott, P. (458) 319)

Bradykinin; Des-Arg⁹-bradykinin; HOE-140; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Bradykinin receptor antagonist

Bradykinin; Airway inflammation; Eosinophil; Asthma (Gama Landgraf, R. (460) 75)

Bradykinin; Bradykinin B₂ receptor; Asthma; Rhinitis; FK3657 (Hirayama, Y. (467) 197)

Brain

Rotenone; Mortality; HPLC (high-performance liquid chromatography); Dopamine metabolism; (Rat); 1-Methyl-1,2,3,4-tetrahydroisoquinoline (Antkiewicz-Michaluk, L. (466) 263)

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A₂ synthase; Adrenaline; Noradrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

Dermorphin; Tetrapeptide; TAPS; Receptor binding; Kinetic (Vonhof, S. (473) 127)

CRH (corticotropin-releasing hormone); Noradrenaline; Prostaglandin; (–)-Nicotine; Brain nicotinic receptor; Corticosterone, plasma (Okada, S. (473) 217)

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Lung; Vas deferens; BIBN4096BS; [Cys(Et)²⁻⁷]hCGRPα; Adrenomedullin-(22–52), human; (Rat) (Juaneda, C. (474) 165)

Catecholamine; Plasma; Corticotropin-releasing hormone (CRH); Phospholipase C; Diacylglycerol lipase; Sympatho-adrenomedullary outflow (Okada, S. (475) 49)

Noradrenaline; Adrenaline; Plasma; CRH (corticotropin-releasing hormone); Nitric oxide (NO) synthase, inducible (Okada, S. (477) 95)

Antiepileptic; Binding; Levetiracetam (Gillard, M. (478) 1)

Anticonvulsant; Binding; Levetiracetam; Photoaffinity labelling (Fuks, B. (478) 11)

Brain-derived neurotrophic factor (BDNF)

Aminoguanidine; Nitric oxide (NO) (Johansson, R. (476) 221)

Brain nicotinic receptor

CRH (corticotropin-releasing hormone); Noradrenaline; Prostaglandin; Brain; (–)-Nicotine; Corticosterone, plasma (Okada, S. (473) 217)

Brain, rat

GABA_B receptor; cAMP; CGP7930; Allosteric modulation (Onali, P. (471) 77))

Somatostatin; GABA_B receptors; GABA (γ-aminobutyric acid); Glutamate; Hippocampus (Nyitrai, G. (478) 111)

Brain region

Anxiety; Social interaction; Neuropeptide; GABA receptor; 5-HT (5-hydroxytryptamine, serotonin) (File, S.E. (463) 35)

Brazilin

Caesalpinia sappan L.; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

Breast cancer cell, human

Geranylgeranyl transferase inhibitor; Endothelial cell, human; Metronomic therapy (Bocci, G. (477) 17)

Breath test

Baclofen; GABA_B receptor; Gastric emptying; (Mouse) (Symonds, E. (470) 95)

“Broad-spectrum” antidepressant

DOV 21,947; Norepinephrine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Reuptake inhibitor (Skolnick, P. (461) 99)

Bromocriptine

Corticosterone; Zona fasciculata–reticularis cell; Adenylyl cyclase; Cytochrome P450sc; StAR protein (Kan, S.-F. (468) 141)

Bronchial epithelial cell, human

Interleukin-17; C-X-C chemokine (Prause, O. (462) 193)

Bronchoalveolar lavage

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; HOE-140; R-715; Ovalbumin sensitization; Eosinophil; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Bulimia

Eating disorder; Anorexia; Hypothalamus; Peptide; Randomized controlled trial (Södersten, P. (480) 67)

Buoyant density separation

Receptor conservation; Receptor affinity; Endocytosis rate; Lysosomal sorting; Endosomal sorting; Selective agonist endocytosis (Parker, S.L. (474) 31)

(±)-Bupranolol

β₃-Adrenoceptor; β-Adrenoceptor; (±)-CGP12177A; Abdominal aorta, rat; Smooth muscle relaxation (Matsushita, M. (482) 235)

Buprenorphine

Phenethylamine; Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); μ -Opioid receptor; Head shake; DOI; 5-HT_{2A} receptor; Fentanyl (Marek, G.J. (474) 77)

Bupropion

Heart; Contractility; Catecholamine; Amphetamine (Cremers, B. (467) 169)

Nicotine; Amphetamine; Bupropion metabolite; Hydroxybupropion; Threohydrobupropion (Bondarev, M.L. (474) 85)

Bupropion metabolite

Nicotine; Amphetamine; Bupropion; Hydroxybupropion; Threohydrobupropion (Bondarev, M.L. (474) 85)

Buspirone

Serotonin; 5-HT_{1A} receptor; 8-OH-DPAT; Fluoxetine; Short-term memory (Pache, D.M. (477) 205)

Anxiety; Plus-maze test; Levetiracetam; Anti-epileptic; Chlordiazepoxide (Gower, A.J. (481) 67)

1,4-Butanediol

Barbiturate; Benzodiazepine; Drug discrimination; γ -Butyrolactone; Self-administration (McMahon, L.R. (466) 113)

Bu 25TK

Emodin; Apoptosis; Caspase; Cervical cancer (Srinivas, G. (473) 117)

 γ -Butyrolactone

Barbiturate; Benzodiazepine; 1,4-Butanediol; Drug discrimination; Self-administration (McMahon, L.R. (466) 113)

Ca²⁺

Baicalin; Baicalein; NADPH oxidase; Myeloperoxidase; Reactive oxygen intermediate (Shen, Y.-C. (465) 171)

Ca²⁺ channel, L-type; Diltiazem; Ca²⁺ channel antagonist; Dihydropyridine receptor; Radioligand binding (Hagiwara, M. (466) 63)

Agmatine; Antidepressant; PC12 cell; Monoamine (Li, Y.F. (469) 81)

LASSBio 294 (L-294); Skeletal muscle; Contractility; Sarcoplasmic reticulum (Zapata-Sudo, G. (470) 79)

Honokiol; Magnolol; Cortical neuron, rat; SH-SY5Y neuroblastoma (Zhai, H. (474) 199)

Calmodulin; Airway; Inflammatory cell; Mast cell (Ten Broeke, R. (476) 151)

Nitrosourea; Glutathione reductase; Oxidative stress; Cation channel; Cl⁻ channel (Doroshenko, N. (476) 185)

Ca²⁺-channel

Antifertility compound; (*Tripterygium wilfordii* Hook. f.); Whole-cell recording; Acrosome reaction; Spermatogenic cell; (Mouse) (Bai, J.-P. (464) 9)

Ca²⁺ channel

Ca²⁺ entry, capacitative; Inositol 1,4,5-trisphosphate; Monensin; Smooth muscle, vascular; Vasoconstriction (Wakabayashi, I. (464) 27)

Cannabinoid; Exocytotic release; Hippocampus; Nerve terminal (Wang, S.-J. (469) 47)

Morphine withdrawal; Protein kinase A; Protein kinase C; Noradrenaline turnover; Heart (Martínez, M.D. (471) 113)

Phytoestrogen; Cerebral artery; Nitric oxide (NO); Estrogen; Stroke (Torregrosa, G. (482) 227)

Ca²⁺ channel antagonist

Ca²⁺ channel, L-type; Diltiazem; Dihydropyridine receptor; Ca²⁺; Radioligand binding (Hagiwara, M. (466) 63)

Nifedipine; Ovariectomy; Flushing; Menopause; Tail skin temperature (Kai, M. (481) 79)

Ca²⁺ channel blocker

Proliferation; Human epidermoid carcinoma A431 cell; Intracellular Ca²⁺; Fura-2; Fluo-3; Amlodipine (Yoshida, J. (472) 23)

Ca²⁺ channel, L-type

Dihydropyridine; Cilnidipine; Antisense; β -Subunit; A7r5 cell (Uchida, R. (466) 53)

Diltiazem; Ca²⁺ channel antagonist; Dihydropyridine receptor; Ca²⁺; Radioligand binding (Hagiwara, M. (466) 63)

Ligustrazine; Coronary artery, porcine; Adenylate cyclase (Shan Au, A.L. (468) 199)

β -Adrenoceptor; cAMP; Protein kinase A; Urinary bladder; Smooth muscle (Kobayashi, H. (470) 9)

Norbormide; (Rat); Trachea; Urinary bladder; Duodenum (Bova, S. (470) 185)

Ca²⁺ channels P/Q

Dotarizine; Migraine; Chromaffin cell; Catecholamine release (Ruiz-Nuño, A. (481) 41)

Ca²⁺ channel, voltage-activated

Lamotrigine; Antiepileptic drug; Anticonvulsant (Hainsworth, A.H. (467) 77)

Caco-2 cell

ABC transporter; Digoxin; Intestinal transport; MDR1; P-glycoprotein; MRP2 (Lowes, S. (458) 49)

Interleukin-8; κ -Opioid receptor agonist; Opioid receptor (Neudeck, B.L. (467) 81)

Ca²⁺ concentration, cytosolic

Amphetamine; Adrenal chromaffin cell, bovine; Nicotinic receptor; Catecholamine secretion; Receptor binding (Liu, P.-S. (460) 9)

Ca²⁺ current

Bisindolylmaleimide I; Calphostin; Clelerythrine; K⁺ current; Protein kinase C (Voutilainen-Myllylä, S. (466) 41)

Na⁺ current; Ion channel; Toxin; Catecholamine cell (Arroyo, G. (475) 11)

K⁺ current; Long QT syndrome; Heart (Bai, C.-X. (476) 35)

Ghrelin; Ghrelin derivative, endogenous; Growth hormone secretagogue; GH secretagogues receptor; Cardiac contractility (Bedendi, I. (476) 87)

Ca²⁺ current, L-type

Nitric oxide (NO); Contraction; Excitation–contraction coupling (Au, A. (476) 45)

Ca²⁺, cytosolic, free

Palytoxin; Spleen cell; Fura-2 (Satoh, E. (465) 9)

Ca²⁺-dependent Cl⁻ current

Airway smooth muscle contraction; Airway hyperresponsiveness; Erythromycin; Macrolide antibiotic (Janssen, L.J. (475) 93)

cADP-ribose

STOC (spontaneous transient outward current); Smooth muscle, vascular (Cheung, D.W. (458) 57)

Caenorhabditis

Drosophila; Biogenic amine receptor (Roeder, T. (466) 85)

Ca²⁺ entry

α₁-Acid glycoprotein; Aorta, mouse; Isometric tension; Smooth muscle cell, vascular (Tokutomi, Y. (477) 137)

Ca²⁺ entry blocker

Nantenine; Aporphine; Fura-2; Smooth muscle; Vas deferens, rat (Ribeiro, R.d.A. (470) 37)

Ca²⁺ entry, capacitative

Ca²⁺ channel; Inositol 1,4,5-trisphosphate; Monensin; Smooth muscle, vascular; Vasoconstriction (Wakabayashi, I. (464) 27)

***Caesalpinia sappan* L.**

Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

Caffeine

Stroke-prone spontaneously hypertensive rat (SHRSP); Oesophageal striated muscle; Contracture; Ca²⁺ influx; Sarcoplasmic reticulum (Sekiguchi, F. (465) 153)

Sequential three-key drug discrimination; Drug discrimination retention; Fixed-interval schedule; Pentobarbital; D-Amphetamine; Morphine; (Pigeon) (Li, M. (476) 79)

Ca²⁺ imaging

Cyclic nucleotide-gated channel; cAMP; Second messenger assay (Reinscheid, R.K. (478) 27)

Ca²⁺ influx

GABA (γ-Aminobutyric acid); Glutamate release; Hippocampus; Microdialysis, brain; Baclofen (Tanaka, S. (465) 61)

Testosterone; K⁺ channel; Vasorelaxation; Prostanoid (Tep-areenan, P. (465) 125)

Stroke-prone spontaneously hypertensive rat (SHRSP); Oesophageal striated muscle; Caffeine; Contracture; Sarcoplasmic reticulum (Sekiguchi, F. (465) 153)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS) (Hu, C.M. (468) 37)

17β-Oestradiol; K⁺ channel; Vasorelaxation (Tep-areenan, P. (476) 139)

Ca²⁺, intracellular

Dantrolene; Myocardial infarction; Myocardial contractility (Min, J.-Y. (471) 41)

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; HOE-140; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Fura-2 (Eric, J. (475) 129)

Ca²⁺, intracellular, free

GEA3162; S-Nitrosylation; Cation entry; Cyclopiazonic acid; Neutrophil (Wang, J.-P. (458) 243)

Ca²⁺ ionophore

β-adrenoceptor agonist; Calcium ion; Calmodulin; Renal cortical slice, dog; Renin release; Superfusion (Yatsu, T. (458) 191)

Ca²⁺ ionophore A23187

Streptozotocin-induced diabetes; Carbachol; Prostaglandin; Adenosine A₁ receptor (Talubmook, C. (469) 153)

[Ca²⁺]_i transient

Endothelin-1; Cardiac muscle; Neonate, mouse; Na⁺-Ca²⁺ exchanger (Nagasaka, T. (472) 197)

Calcitonin

Hypocalcemia; Chronopharmacology; (Rat) (Nishiki, K. (460) 171)

Calcitonin gene-related peptide

Vasomotor response; Human; Cerebral artery; Meningeal artery (Jansen-Olesen, I. (481) 207)

Calcitonin gene-related peptide (CGRP)

Adrenomedullin; CRLR (Calcitonin-receptor-like receptor); RAMP (Receptor-activity modifying protein); Mast cell; Peritoneal; (Rat) (Matsushima, M. (464) 111)

Calcitonin receptor-like receptor

CGRP (Calcitonin gene-related peptide); MAP (Mitogen-activated protein) kinase; Proliferation; Osteoblast (Kawase, T. (470) 125)

CRL receptor; Vascular endothelium; Rat; Immunoreactivity (Hagner, S. (481) 147)

Calcium ion

β-adrenoceptor agonist; Ca²⁺ ionophore; Calmodulin; Renal cortical slice, dog; Renin release; Superfusion (Yatsu, T. (458) 191)

Calmodulin

β-adrenoceptor agonist; Calcium ion; Ca²⁺ ionophore; Renal cortical slice, dog; Renin release; Superfusion (Yatsu, T. (458) 191)

Ca²⁺; Airway; Inflammatory cell; Mast cell (Ten Broeke, R. (476) 151)

Calphostin

Bisindolylmaleimide I; Ca²⁺ current; Clelerythrine; K⁺ current; Protein kinase C (Voutilainen-Myllylä, S. (466) 41)

Calyculin-A

Antinociception; Morphine; Serine/threonine protein phosphatase; Okadaic acid; Cantharidin; L-Norokadaone; [³H]Naloxone (Moncada, A. (465) 53)

Anococcygeus, mouse; Nitric relaxation; Thapsigargin (Gibson, A. (471) 213)

CaMKII

Opioid receptor; KN93 (Wang, Z.J. (465) 199)

Ca²⁺ mobilization

Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

cAMP

β -Amyloid protein; Hippocampal neuron; Propentofylline; Protein kinase A; Apoptosis (Koriyama, Y. (458) 235)

Adenosine; A_{2B} receptor; Glycogenolysis; Gluconeogenesis; Hepatocyte, rat (Yasuda, N. (459) 159)

DIF-1; MAP (mitogen-activated protein) kinase; Germinal vesicle breakdown (Kubohara, Y. (460) 93)

Porcine oviduct; 5-HT (5-hydroxytryptamine, serotonin); Relaxation; 5-HT₇ receptor; [³H]5-CT ([³H]5-carboxamidotryptamine) binding (Inoue, M. (461) 207)

Somatostatin; Somatostatin sst₂ receptor 2; Non-peptide antagonist; Luciferase; SRE (serum response element) (Nunn, C. (465) 211)

β -Adrenoceptor; Protein kinase A; Urinary bladder; Smooth muscle; Ca²⁺ channel L-type (Kobayashi, H. (470) 9)

Phosphodiesterase type 4; Relaxation; Smooth muscle, Tracheal (Moriuchi, H. (470) 57)

(Bovine); Lidocaine; Anaesthetic, local; Smooth muscle (Yunoki, M. (470) 65)

GABA_B receptor; CGP7930; Allosteric modulation; Brain, rat (Onali, P. (471) 77)

Salt; Aorta; Isoproterenol; Nitric oxide (NO); cGMP (Sofola, O. (474) 241)

Cyclic nucleotide-gated channel; Ca²⁺ imaging; Second messenger assay (Reinscheid, R.K. (478) 27)

Endothelial cell; Hypoxia; Monolayer permeability; ATP; Actin filament (Fan, Y. (481) 33)

cAMP-mediated signaling pathway

Apomorphine; Receptor supersensitivity; Uptake; Up-regulation; PET (positron emission tomography) (Schwartz, R.A. (459) 195)

Candidate gene

Animal model; Mutagenesis; ENU (ethyl-nitrosourea); Psychiatric disorder; Behaviour; High-throughput screen (Ohl, F. (480) 219)

Cannabidiol

2-Arachidonoyl glycerol; Endocannabinoid; Cannabinoid receptor; Milk suckling; SR141716A (Fride, E. (461) 27)

Cannabinoid

Interleukin-8; TNF- α (tumour necrosis factor- α); HT-29 cell; Inflammatory bowel disease (Ihenetu, K. (458) 207)

Vanilloid; Cholinergic; (Guinea-pig); Trachea (Nieri, P. (459) 75)

Anorectic; AM-251; Micro-CT; Obesity (Hildebrandt, A.L. (462) 125)

Interleukin-2; Phytohaemagglutinin; Peripheral blood mononuclear cell (Ihenetu, K. (464) 207)

(R)-Methanandamide; Δ^9 -Tetrahydrocannabinol; SR-141716A; Behavior, schedule controlled; (Rat) (Järbe, T.U.C. (466) 121)

Exocytotic release; Hippocampus; Nerve terminal; Ca²⁺ channel (Wang, S.-J. (469) 47)

Antipsychotic; Depressant; SR 141716A (Wiley, J.L. (471) 185)

Neurotransmission; Anandamide (Ralevic, V. (472) 1)

Microglial cell; Migration; Inflammation (Franklin, A. (474) 195)

Vanilloid VR1 receptor; Cannabinoid CB₁ receptor; Anandamide; Vanilloid (Harrison, S. (475) 107)

NANC (Non-adrenergic non-cholinergic) inhibitory; WIN 55,212-2; Trachea; (Guinea-pig); Nitric oxide (NO) (Nieri, P. (475) 115)

Amnesia; β -Amyloid fragment; Cannabinoid CB₁ receptor; Avoidance retention (Mazzola, C. (477) 219)

Anandamide; 2-Arachidonoylglycerol; Dopamine; Movement disorder; Reward (van der Stelt, M. (480) 133)

Cannabinoid CB₁ receptor

Vomiting; Locomotor activity; CP55,940; SR141716A; (Least shrew); G-protein; Potency; Efficacy (Darmani, N.A. (459) 83)

G-protein; Physical dependence; Desensitization; Down-regulation (Breivogel, C.S. (459) 139)

Cerebellar granule neuron; Ethanol; Anandamide transport; Endocannabinoid (Basavarajappa, B.S. (466) 73)

Spinal cord; Carrageenan inflammation; von Frey monofilament; Dorsal horn neurone; Cannabinoid CB₁ receptor agonist, selective (Kelly, S. (474) 209)

Antitussive effect; Cough; WIN 55212-2; SR141716A (Morita, K. (474) 269)

Vanilloid VR1 receptor; Anandamide; Vanilloid; Cannabinoid (Harrison, S. (475) 107)

Amnesia; β -Amyloid fragment; Cannabinoid; Avoidance retention (Mazzola, C. (477) 219)

Cannabinoid CB₁ receptor agonist, selective

Spinal cord; Cannabinoid CB₁ receptor; Carrageenan inflammation; von Frey monofilament; Dorsal horn neurone (Kelly, S. (474) 209)

Cannabinoid CB₁ receptor antagonist

Memory consolidation; Radial arm maze (Wolff, M.C. (477) 213)

Cannabinoid receptor

2-Arachidonoyl glycerol; Endocannabinoid; Milk suckling; SR141716A; Cannabidiol (Fride, E. (461) 27)

Mast cell; Histamine release, anti-IgE-induced; Anandamide; Palmitoylethanolamide; WIN 55,512-2 (Lau, A.H.Y. (464) 229)

Cannabinoid receptor agonist

CP 55,940; Morphine; Self-administration; (Lewis rat) (Norwood, C.S. (465) 105)

Cantharidin

Antinociception; Morphine; Serine/threonine protein phosphatase; Okadaic acid; Calyculin-A; L-Norokadaone; [³H]Naloxone (Moncada, A. (465) 53)

Capacitance

Angiotensin; Diabetes; Circulatory filling pressure, mean; Noradrenaline; Vasoconstriction (Cheng, X. (458) 299)

Capacitance vessel

Apelin; Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Ganglionic blockade (Cheng, X. (470) 171)

Capillary permeability

Antioxidant; Arachidonate; Reactive oxygen species (Alvarez-Guerra, M. (466) 199)

Capsaicin

Neuropeptide release; Substance P; CGRP (calcitonin gene-related peptide); Somatostatin; Tetrodotoxin (Németh, J. (458) 313)

Vagal sensory nerve; Nitric oxide (NO); cGMP; Ischemia; Heart, rat (Csont, T. (476) 107)

Urinary bladder, rat; Cholinergic contraction; Purinergic contraction; Peptidergic response; Electrical field stimulation; Streptozotocin diabetes (Benkó, R. (478) 73)

Capsaicin receptor

Immunohistochemistry; Myenteric plexus-longitudinal muscle; Choline acetyltransferase; Confocal microscopy (Anavi-Goffer, S. (458) 61)

Capsaicin-sensitive C-fiber

Vanilloid VR1 receptor; Olvanil; Airway C-fiber; Vanilloid (Stebbins, K.J. (471) 205)

Carbachol

Atrium, human, right; Muscarinic M₂ receptor; Negative inotropic effect, indirect; β_1 -Adrenoceptor antagonist (Wangemann, T. (458) 163)

Streptozotocin-induced diabetes; Prostaglandin; Ca²⁺ ionophore A23187; Adenosine A₁ receptor (Talubmook, C. (469) 153)

 β -carboline

Efaroxan; β -cell; Insulin secretion; Imidazoline-binding site; KU14R; Clonidine-displacing substance (Cooper, E.J. (482) 189)

Carbon monoxide

Heme oxygenase; Carbon monoxide-releasing molecule; Pulmonary artery smooth muscle cell, human; Pulmonary hypertension (Stanford, S.J. (473) 135)

Carbon monoxide-releasing molecule

Carbon monoxide; Heme oxygenase; Pulmonary artery smooth muscle cell, human; Pulmonary hypertension (Stanford, S.J. (473) 135)

Carboxypeptidase B

Microthrombosis; Fibrinolysis; MGPA (DL-Mercaptomethyl-3-guanidinooethylthiopropionic acid); Potato-derived carboxypeptidase inhibitor (CPI) (Muto, Y. (461) 181)

Carcinogenesis, cervical

5-Fluorouracil; Apoptosis; Apoptosis regulating protein; Growth medium (Mo, B. (467) 15)

Cardiac contractility

Ghrelin; Ghrelin derivative, endogenous; Growth hormone secretagogue; GH secretagogues receptor; Ca²⁺ current (Bedendi, I. (476) 87)

Cardiac function

Selegiline; Oxidative stress; Apoptosis; Heart failure (Qin, F. (461) 149)

Cardiac muscle

Endothelin-1; Neonate, mouse; Na⁺–Ca²⁺ exchanger; [Ca²⁺]_i transient (Nagasaka, T. (472) 197)

Cardiac myocyte

Apoptosis; Natriuretic peptide; Endothelin; Ornithine decarboxylase (Han, B. (474) 15)

Cyclic GMP; Cyclic AMP; Cyclic GMP affected cyclic AMP phosphodiesterases; (Rabbit) (Weiss, H.R. (481) 25)

Cardiac output

Cocaine; Arterial pressure (Williams, J.B. (464) 189)

Urocortin; Arterial pressure; Peripheral resistance; Blood flow; Arterial conductance (Abdelrahman, A.M. (466) 317)

Sepsis; Septic shock; Endothelin; Endothelin receptor; Organ failure; Edema (Albertini, M. (474) 129)

Arteriovenous anastomosis; BIBN4096BS; Carotid vasodilatation; CGRP (calcitonin gene-related peptide); α -CGRP human; Migraine; (Pig) (Kapoor, K. (475) 69)

Cardiac performance

Phosphodiesterase inhibition, type IV; Endotoxemia; Ro 20–1724 (Thomas, N.J. (465) 133)

Cardiac risk assessment

Prulifloxacin; QT prolongation; HERG current; ECG (electrocardiogram) (Lacroix, P. (477) 69)

Cardiomyocyte

Cyclo-oxygenase-2; Cytokine; Annexin-1; Glucocorticoid; Nitric oxide (NO) synthase 2 (Ritchie, R.H. (461) 171)

β_1 -Adrenoceptor; Antibody; Apoptosis (Staudt, Y. (466) 1)

Cardioprotection

Adenosine A₃ receptor; Ischaemia; Hypoxia; Stunning; Heart, isolated; working; Papillary muscle; Atrium (Maddock, H.L. (477) 235)

Cardio-protective

Nitric oxide synthase; Sepsis (Price, S. (472) 111)

Cardioprotective effect

Sabiporide; Slow dissociation kinetics (Touret, N. (459) 151)

Cardiovascular

CRF (corticotropin-releasing factor); CRF₂ receptor antagonist; Urocortin 2; Antisauvagine-30 (Mackay, K.B. (469) 111)

Cardiovascular action

Nitroglycerin; Nitrate tolerance; Nitric oxide (NO); Posterior hypothalamus; Dialysis (Ma, S.-X. (472) 179)

Cariporide

Na⁺/H⁺ exchange; Na⁺/Ca²⁺ exchange; Heart, isolated, rat; Ischemia/reperfusion injury; KB-R7943; Nitric oxide (NO); Free radical (Mączewski, M. (461) 139)

Carnosine

Renal sympathetic nerve activity; Norepinephrine; Acute renal failure; Ischemia/reperfusion (Fujii, T. (474) 261)

Carotid vasodilatation

Arteriovenous anastomosis; BIBN4096BS; Cardiac output; CGRP (calcitonin gene-related peptide); α -CGRP human; Migraine; (Pig) (Kapoor, K. (475) 69)

Carrageenan

Pain; Hyperalgesia; α_2 -Adrenoceptor subtype; Morphine (Lähdesmäki, J. (468) 183)

Carrageenan inflammation

Spinal cord; Cannabinoid CB₁ receptor; von Frey monofilament; Dorsal horn neurone; Cannabinoid CB₁ receptor agonist, selective (Kelly, S. (474) 209)

Carrageenan test

Orexin-A; Mechanical allodynia; Thermal hyperalgesia; SB-334867; Spinal cord (Yamamoto, T. (481) 175)

CART-(55–102)

CART-(62-102); Anxiety; FG-7142 (Chaki, S. (464) 49)

CART-(62–102)

CART-(55-102); Anxiety; FG-7142 (Chaki, S. (464) 49)

Melatonin; Photoperiod; *Phodopus*; Leptin; SOCS3 (Mercer, J.G. (480) 43)

Carvedilol

β_1 -adrenoceptor selectivity; Nebivolol; Bisoprolol; Myocardium, human (Bundkirchen, A. (460) 19)

α_1 -Adrenoceptor; β -Adrenoceptor; Myocardium, rat (Qvigstad, E. (481) 83)

Ischaemia; Mitochondrion (Monteiro, P. (482) 245)

Ca²⁺ signaling

Fluorometric imaging plate reader; FLIPR; 5-HT₆ receptor; chimeric G-protein (Zhang, J.Y. (472) 33)

Caspase

Phenylacetate derivative; Cell cycle; Apoptosis (Chan, H.-C. (467) 31)

Ethanol; Apoptosis; Cytochrome *c*; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Neuron; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

Emodin; Apoptosis; Cervical cancer; Bu 25TK (Srinivas, G. (473) 117)

Neuroprotection; Apoptosis; Stroke (Feng, Y. (481) 169)

Apoptosis; Sesquiterpene lactone; Cytotoxic activity; Poly(ADP-ribose) polymerase-1 cleavage; Cytochrome *c* release (Rivero, A. (482) 77)

Castration

α_1 -Adrenoceptor; Vas deferens; (Rat); Testosterone (Campos, M. (471) 149)

Catalase

Antitumor activity; Hydroselenite; Glutathione peroxidase; Morphology; Nitric oxide (NO); Selenium (Arsenyan, P. (465) 229)

Catalepsy

Muscarinic receptor; Extrapyramidal side effect; Haloperidol; Scopolamine; Knockout mouse (Karasawa, H. (468) 15)

Aripiprazole; Haloperidol; Risperidone; Dopamine; Partial agonist; Atypical antipsychotic (Nakai, S. (472) 89)

Catecholamine

Bupropion; Heart; Contractility; Amphetamine (Cremers, B. (467) 169)

CDP-choline; Choline; Cytidine; Haemorrhagic shock; Vasopressin (Savci, V. (468) 129)

Plasma; Corticotropin-releasing hormone (CRH); Phospholipase C; Diacylglycerol lipase; Brain; Sympatho-adrenomedullary outflow (Okada, S. (475) 49)

Catecholamine cell

Ca²⁺ current; Na⁺ current; Ion channel; Toxin (Arroyo, G. (475) 11)

Catecholamine release

Dotarizine; Migraine; Ca²⁺ channels P/Q; Chromaffin cell (Ruiz-Nuño, A. (481) 41)

Catecholaminergic and serotonergic activity enhancer

R-(–)-1-(Benzofuran-2-yl)-2-propylaminopentane [(–)-BPAP]; Human embryonic kidney 293 cell; Parkinson's disease; Transporter; Tyramine (Shimazu, S. (482) 9)

Catecholamine secretion

Amphetamine; Adrenal chromaffin cell, bovine; Nicotinic receptor; Ca²⁺ concentration, cytosolic; Receptor binding (Liu, P.-S. (460) 9)

Catechol-*O*-methyltransferase inhibitor

Kinetic; Liver catechol-*O*-methyltransferase; BIA 3-202; Parkinson's disease (Bonifácio, M.J. (460) 163)

 β -catenin signaling

FP prostanoid receptor; Cyclooxygenase-2 (Fujino, H. (465) 39)

Cathinone

MDMA (methylenedioxymethamphetamine); MDA (methylenedioxyamphetamine); MDEA (methylenedioxyethylamphetamine); Cocaine; Nisoxetine (Cleary, L. (476) 31)

Cation

DAT (dopamine transporter); Anion; Binding; Uptake blocker (Bonnet, J.-J. (479) 199)

DAT (dopamine transporter); Dopamine recognition; Na⁺; Access model (Chen, N. (479) 213)

Cation channel

Nitrosourea; Glutathione reductase; Oxidative stress; Cl[–] channel; Ca²⁺ (Doroshenko, N. (476) 185)

Cation entry

GEA3162; *S*-Nitrosylation; Ca²⁺, intracellular, free; Cyclopiazonic acid; Neutrophil (Wang, J.-P. (458) 243)

Caudate nucleus

Dopamine overflow; L-3,4-dihydroxyphenylalanine (L-DOPA); Atipamezole; Storage pool, readily releasable; Voltammetry, in vivo; Nucleus accumbens (Yavich, L. (462) 83)

Caudate putamen

CP-93,129; 5-HT (5-hydroxytryptamine, serotonin); Selective reuptake inhibitor; Fluvoxamine; Autoreceptor; Heteroreceptor (De Groote, L. (476) 71)

CCK₁ receptor antagonist

Cholecystokinin; A70104; Devazepide; Satiety; Food intake (Ebenezer, I.S. (461) 113)

CD63

Heme oxygenase; Basophil, human; Histamine; cGMP (Vannacci, A. (465) 289)

Cdc42

Piperlactam S; Complement 5a; RAW264.7 macrophage; F-actin; Filopodia (Chiou, W.-F. (458) 217)

CDP-choline

Choline; Cytidine; Haemorrhagic shock; Vasopressin; Catecholamine (Savci, V. (468) 129)

Cedar pollen

TAK-427 {2-[6-[[3-[4-(diphenylmethoxy) piperidino]propyl]amino]imidazo[1,2-*b*]pyridazin-2-yl]-2-methylpropionic acid dihydrate}; Nasal acute symptom; Allergic rhinitis; Histamine H₁-receptor antagonist; Nasal obstruction (Fukuda, S. (476) 239)

Celecoxib

Cyclooxygenase-2; VEGF (vascular endothelial growth factor); Diabetes (Ayalasomayajula, S.P. (458) 283)

β-cell

Efaroxan; Insulin secretion; Imidazoline-binding site; KU14R; β-carboline; Clonidine-displacing substance (Cooper, E.J. (482) 189)

Cell adhesion

Reperfusion injury; Myocardial infarction; Selectin; Echocardiography (Onai, Y. (481) 217)

Cell cycle

PPARγ (Peroxisome proliferator-activated receptor γ); Smooth muscle cell, vascular; Cyclin D1 (Brummer, D. (466) 225)

Phenylacetate derivative; Caspase; Apoptosis (Chan, H.-C. (467) 31)

Apoptosis; Arsenic trioxide; DODC (diethyloxadycarbocyanine); Sensitivity; Telomere (Zhang, Y. (474) 141)

6-Nitro-7-hydroxycoumarin; Renal cell carcinoma; p38 MAP kinase; Apoptosis (Finn, G. (481) 159)

Cell cycle progression

Taurine efflux, osmosensitive; Antihistamine, second-generation, non-sedating; Tricyclic antidepressant; Volume-sensitive organic osmolyte/anion channel (Belsey, M.J. (474) 185)

Cell death

Selegiline; Desmethylselegiline; NMDA (*N*-methyl-D-aspartate); Retinal degeneration; BDNF (brain-derived neurotrophic factor) (Takahata, K. (458) 81)

Cell differentiation

Artemisinin; Leukemia; PKC (protein kinase C); ERK (extracellular-regulated kinase) (Kim, S.H. (482) 67)

Cell line

Organic anion transporter; Proximal tubule; Cephalosporin antibiotic; Transport (Khamdang, S. (465) 1)

Cell proliferation

Gastric ulcer; Morphine; Mucus; Stress; Myeloperoxidase (Cho, C.H. (460) 177)

Central nervous system

Astressin; Hepatic sympathectomy; Liver injury (Nakade, Y. (460) 135)

Gastric mucosa; Histamine H₂ receptor (Fukushima, Y. (468) 47)

Tachykinin; Micturition; Urinary bladder (Yamamoto, T. (477) 253)

Glycine transport; Neurotransmission; GLYT1 (glycine transporter 1); GLYT2 (glycine transporter 2); NMDA receptor (Aragón, C. (479) 249)

Cephalosporin antibiotic

Organic anion transporter; Proximal tubule; Transport; Cell line (Khamdang, S. (465) 1)

Ceramide

Dopamine; 5-HT (5-hydroxytryptamine, serotonin) transporter; Dopamine transporter (Riddle, E.L. (458) 31)

Cerebellar granule cell

Fe ion; Apoptosis; Tetramethylpyrazine; Ferulic acid (Zhang, Z. (467) 41)

Cerebellar granule neuron

Ethanol; Anandamide transport; Endocannabinoid; Cannabinoid CB1 receptor (Basavarajappa, B.S. (466) 73)

Cerebellum

Ethanol; Apoptosis; Cytochrome *c*; Caspase-3; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Neuron; Cortex (Rajgopal, Y. (470) 117)

Cerebral artery

Coronary artery; Renal artery; Tail artery; Nitric oxide (NO); Prostanoid (García-Villalón, A.L. (459) 247)

Calcitonin gene-related peptide; Vasomotor response; Human; Meningeal artery (Jansen-Olesen, I. (481) 207)

Phytoestrogen; Ca²⁺ channel; Nitric oxide (NO); Estrogen; Stroke (Torregrosa, G. (482) 227)

Cerebral blood flow

Indomethacin; 8-OH-dG; Glutamate; Reperfusion injury; Reactive oxygen species (Miyamoto, O. (459) 179)

Adenosine; Hypercapnia; Nitric oxide (NO); ZM 241385 (Phillis, J.W. (476) 211)

Cerebral circulation

Excitatory amino acid; Signal transduction; Neurotrauma (Armstead, W.M. (474) 249)

Cerebral cortex

Serofendic acid; Fetal calf serum; L-Glutamate; Neurotoxicity; Nitric oxide (NO) (Taguchi, R. (477) 195)

Cerebral ischemia

Growth factor; Bone marrow (Six, I. (458) 327)

Dexamethasone; Dopamine; Substantia nigra, rat (Mitsuyo, T. (465) 267)

Delayed neuronal death; Hippocampus; Global ischemia; Locomotor activity; (Mongolian gerbil); Neuroprotective drug (Katsuta, K. (467) 103)

Cerebral vascular smooth muscle cell

Cocaine; Apoptosis; Stroke (Su, J. (482) 61)

Cerebral vessel

Sphingosine-1-phosphate; S1P receptor; Vasoconstriction; Suramin (Salomone, S. (469) 125)

Cerebrovascular circulation

Purine; Pyrimidine; Vasoconstriction; P2Y₆ receptor (Malmjö, M. (458) 305)

Cervical cancer

Emodin; Apoptosis; Caspase; Bu 25TK (Srinivas, G. (473) 117)

Cetirizine

Histamine H₁ receptor antagonism; Receptor reserve; Dissociation kinetic; Ileum, guinea pig; Trachea, guinea pig (Christophe, B. (470) 87)

CFU-GM

Thiazolidinedione; Bone marrow toxicity; Insulin sensitizer (Benkő, I. (477) 179)

cGMP

Aorta; Hydrogen peroxide; Myosin light chain; Norepinephrine (Fujimoto, S. (459) 65)

Heme oxygenase; Basophil, human; Histamine; CD63 (Vannacci, A. (465) 289)

Multidrug resistance protein; Vascular vessel (Mitani, A. (466) 223)

Ammonia neurotoxicity; NMDA receptor; Hydroxyl radical; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Phosphodiesterase; Nitric oxide (NO) synthase; Guanylate cyclase; Corpus cavernosum (Hosogai, N. (473) 65)

Salt; Aorta; Isoproterenol; Nitric oxide (NO); cAMP (Sofola, O. (474) 241)

Capsaicin; Vagal sensory nerve; Nitric oxide (NO); Ischemia; Heart, rat (Csont, T. (476) 107)

NCX 4016; Hypertension; Vasoconstriction; Nitric oxide (NO); Spontaneously hypertensive rat; Tail artery (Rossoni, G. (477) 59)

Phosphodiesterase type 5 inhibitor; FR226807 (Hosogai, N. (477) 171)

CGRP7930

GABA_B receptor; cAMP; Allosteric modulation; Brain, rat (Onali, P. (471) 77)

(±)-CGRP12177A

β₃-Adrenoceptor; β-Adrenoceptor; (±)-Bupranolol; Abdominal aorta, rat; Smooth muscle relaxation (Matsushita, M. (482) 235)

CGRP (calcitonin gene-related peptide)

Capsaicin; Neuropeptide release; Substance P; Somatostatin; Tetrodotoxin (Németh, J. (458) 313)

Perindopril; Losartan; Renohypertension (Qin, X.-P. (464) 63)

Calcitonin receptor-like receptor; MAP (Mitogen-activated protein) kinase; Proliferation; Osteoblast (Kawase, T. (470) 125)

Adrenomedullin; Binding, Receptor; Brain; Lung; Vas deferens; BIBN4096BS; [Cys(Et)^{2,7}]hCGRPα; Adrenomedullin-(22–52), human; (Rat) (Juaneda, C. (474) 165)

Arteriovenous anastomosis; BIBN4096BS; Carotid vasodilatation; Cardiac output; α-CGRP human; Migraine; (Pig) (Kapoor, K. (475) 69)

α-CGRP human

Arteriovenous anastomosis; BIBN4096BS; Carotid vasodilatation; Cardiac output; CGRP (calcitonin gene-related peptide); Migraine; (Pig) (Kapoor, K. (475) 69)

Chalcones

Nitric oxide (NO); Prostaglandin E₂; RAW 264.7; Zymosan-injected mouse air pouch; Adjuvant-induced arthritis (Rojas, J. (465) 183)

Channel expression

K⁺ current; M-current; Oxo-tremorine M; Muscarinic receptor (Guo, J. (462) 25)

Chemokine

Adhesion; Endothelium; Fatty acid; Neutrophil; TNF-α (tumor necrosis factor-α) (Wang, Y. (459) 269)

Colitis; Adenosine; Cytokine (Mabley, J. (466) 323)

Acyclic nucleoside phosphonate; Antiviral; Cytokine; Nitric oxide (NO) (Zidek, Z. (475) 149)

Acute lung inflammation; Cytokine; Peroxisome proliferator-activated receptor-γ; Activator protein-1 (Inoue, K.-i. (481) 261)

Chemotaxis

N-formylmethionyl peptide; Neutrophil, human; Superoxide anion generation; Lysozyme release; Receptor binding (Spisani, S. (469) 13)

Chimera

Nicotinic receptor; α6 Subunit; HEK-293 cell; (Human) (Evans, N.M. (466) 31)

Chimeric G-protein

Fluorometric imaging plate reader; FLIPR; 5-HT₆ receptor; Ca²⁺ signaling (Zhang, J.Y. (472) 33)

Chlordiazepoxide

Baicalein; Baicalin; Anxiolytic-like effect; Vogel conflict test; Flumazenil (Liao, J.-F. (464) 141)

Anxiety; Anxiolytic effect; Vogel conflict test; Levetiracetam; Antiepileptic (Lamberty, Y. (469) 97)

Anxiety; Plus-maze test; Levetiracetam; Anti-epileptic; Buspirone (Gower, A.J. (481) 67)

Chlorisondamine

Nicotine; Scopalamine; Sulpiride; Memory (Hefco, V. (474) 227)

Chloroethylclonidine

α_{1D}-Adrenoceptor subtype; WB 4101; Pulmonary artery; Pulmonary hypertension (Oriowo, M.A. (482) 255)

Chlorpromazine

Behaviour; Haloperidol; Risperidone; Clozapine; (Rhesus monkey) (Kumar, R. (462) 133)

CHO cell

Sanguinarine; Angiotensin AT₁ receptor; CHO membrane; Noncompetitive antagonist; [³H]Candesartan (Caballero-George, C. (458) 257)

CHO cell line

Angiotensin II; [Lys²]angiotensin II; Angiotensin AT₁ receptor; Tachyphylaxis; mRNA; Untranslated region (França, L.P. (476) 25)

Cholecystokinin

CCK₁ receptor antagonist; A70104; Devazepide; Satiety; Food intake (Ebenezer, I.S. (461) 113)

Pancreas; Secretin; Gastrin-releasing peptide; Leptin; Ghrelin; Pancreatic polypeptide (Konturek, S.J. (481) 1)

Cholecystokinin-octapeptide

Heat shock protein; HSP72; NF- κ B (nuclear factor- κ B); Methylprednisolone; Pancreatitis (Rakoncay Jr., Z. (464) 217)

Cholestasis

NANC (non-adrenergic non-cholinergic) relaxation; Corpus cavernosum, rat; Nitric oxide (NO); Opioid; Electrical field stimulation (Sadeghipour, H. (460) 201)

Cholesteryl ester transfer protein (CETP) inhibitor

JTT-705; High density lipoprotein (HDL) cholesterol (Okamoto, H. (466) 147)

Choline

CDP-choline; Cytidine; Haemorrhagic shock; Vasopressin; Catecholamine (Savci, V. (468) 129)

Nicotinic receptor; Sympathetic neurone; Intracellular Ca^{2+} ; Indo1 (Seddik, R. (471) 165)

Choline acetyltransferase

Immunohistochemistry; Myenteric plexus-longitudinal muscle; Capsaicin receptor; Confocal microscopy (Anavi-Goffer, S. (458) 61)

Cholinergic

Cannabinoid; Vanilloid; (Guinea-pig); Trachea (Nieri, P. (459) 75)

Cholinergic contraction

Urinary bladder, rat; Capsaicin; Purinergic contraction; Peptidergic response; Electrical field stimulation; Streptozotocin diabetes (Benkó, R. (478) 73)

Cholinoceptor drug

Memory retention; Passive avoidance; Histaminergic agent; (Rat) (Eidi, M. (465) 91)

CHO membrane

Sanguinarine; Angiotensin AT_1 receptor; CHO cell; Noncompetitive antagonist; [^3H]Candesartan (Caballero-George, C. (458) 257)

Choreoathetosis

Dyskinesia; Glutamate; Kynurenic acid; Kynurenine hydroxylase; Movement disorder (Richter, A. (478) 47)

Chromaffin cell

Dotarizine; Migraine; Ca^{2+} channels P/Q; Catecholamine release (Ruiz-Nuño, A. (481) 41)

Chronic constriction injury

Anticonvulsant; Formalin test; Neuropathic pain; Spared nerve injury; Tail flick (Blackburn-Munro, G. (460) 109)

Chronic pain

Formalin test; Melanocortin MC_4 receptor (Bellasio, S. (482) 127)

Chronic stress

Hyperalgesia; Adenosine; CPA; N6-cyclopentyladenosine; Dipyrindamole; Tail-flick (da Silva Torres, I.L. (481) 197)

Chronopharmacology

Calcitonin; Hypocalcemia; (Rat) (Nishiki, K. (460) 171)

Chymase

Mast cell; Pulmonary fibrosis; Collagen synthesis; TGF- β 1 (transforming growth factor- β 1) (Tomimori, Y. (478) 179)

Ciliary muscle

5-HT receptor; Binding assay; 5-HT (5-hydroxytryptamine, serotonin) neurotransmission (Lograno, M.D. (464) 69)

Cilnidipine

Ca^{2+} channel, L-type; Dihydropyridine; Antisense; β -Subunit; A7r5 cell (Uchida, R. (466) 53)

Cilobradine

Zatebradine; Pacemaker current (I_f); Use-dependence; HCN channel; (Electrophysiology) (Van Bogaert, P.P. (478) 161)

Cilomilast

Phosphodiesterase 4 inhibitor; Dendritic cell; Skin, mouse; Matrix metalloproteinase 9; Toluene-2,4-diisocyanate; Zymography (Bäumer, W. (481) 271)

Cinnamyl derivative

Endotoxin shock; Cytokine (Kurokawa, M. (474) 283)

Cirazoline

Vas deferens, human; A-61603; Oxymetazoline; Phenoxybenzamine; SZL-49; Dibenamine (Amobi, N. (462) 169)

Circadian rhythm

Autonomic nervous system; Hypothalamus; Metabolic syndrome; Visceral obesity; Diabetes; Hypertension (Kreier, F. (480) 51)

Circular muscle

Muscarinic receptor; [^3H]Quinuclidinyl benzylate; Colon, human; Radioligand binding; Alkylating agent (Mansfield, K.J. (482) 101)

Circulatory filling pressure, mean

Angiotensin; Capacitance; Diabetes; Noradrenaline; Vasoconstriction (Cheng, X. (458) 299)

Apelin; Arterial pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Cheng, X. (470) 171)

Cirrhosis

Nitric oxide (NO); L-NAME (N^G -nitro-L-arginine methyl ester); Liver (Yang, W. (461) 41)

Cisplatin

Renal failure, acute; Dopamine D1 receptor; Zelandopam (Yatsu, T. (461) 191)

Emesis; Tachykinin NK_1 receptor antagonist; GR205171; (Pigeon) (Tanihata, S. (461) 197)

Emesis; ACTH (adrenocorticotrophic hormone); Metirapone (Sam, T.S.W. (466) 163)

Anti-emetic; 5-HT $_3$ receptor; Glucocorticoid; Delayed emesis (Sam, T.S.W. (472) 135)

Cisplatin-induced neuropathy

Melanocortin receptor; α -MSH (α -melanocyte-stimulating hormone); Nerve crush; Melanotan-II (Ter Laak, M.P. (462) 179)

Citalopram

5-HT (5-hydroxytryptamine, serotonin); Anxiolytic; Escitalopram; R-citalopram (Sánchez, C. (464) 155)

c-Jun

Selenite; Apoptosis; JNK; p53; p21^{WAF1/CIP1} (Nango, R. (471) 1)

Cl⁻ channel

Nitrosoarea; Glutathione reductase; Oxidative stress; Cation channel; Ca²⁺ (Doroshenko, N. (476) 185)

Stilbene; Mast cell; Exocytosis; Diethylstilbestrol; Hexestrol (Roloff, T. (478) 81)

Smooth muscle; Systemic circulation; Blood flow regulation; Hypoxia (Jiang, J. (481) 133)

Cl⁻ concentration, intracellular

Lectin; Jurkat T lymphocyte, human; Cl⁻-free condition; 9-AC; Stilbene derivative (Lai, Z.-F. (482) 1)

Cl⁻-dependent transport

DAT (Dopamine transporter); Multisubstrate mechanisms; Leakage; Terreactant mechanisms; Na⁺-dependent transporter; Slippage (Schenk, J.O. (479) 223)

Clelerythrine

Bisindolylmaleimide I; Ca²⁺ current; Calphostin; K⁺ current; Protein kinase C (Voutilainen-Myllylä, S. (466) 41)

Clenbuterol

Aging; β -Adrenoceptor; Hypertension; Nitrergic innervation; Adrenergic innervation; Mesenteric artery, rat (Ferrer, M. (466) 289)

Cl⁻-free condition

Cl⁻ concentration, intracellular; Lectin; Jurkat T lymphocyte, human; 9-AC; Stilbene derivative (Lai, Z.-F. (482) 1)

Cl⁻/HCO₃⁻ exchange

Arrhythmia; Ischemia; Reperfusion; DIDS; SITS (Zhu, B.-M. (460) 43)

Clobenpropit

Seizure; Endogenous histamine; Immepip; α -Fluoromethylhistidine (Zhang, L. (482) 169)

Clonidine

Locus coeruleus; Extracellular unitary recording; Noradrenaline; Microdialysis; Alnespirone; α_2 -Adrenoceptor; 5-HT_{1A} receptor (Astier, B. (459) 17)

Morphine withdrawal; Morphine tolerance; Analgesia; Prazosin (Özdoğan, Ü.K. (460) 127)

Antinociception; Lewis rat; F344 rat; Morphine; Yohimbine (Herradón, G. (465) 251)

Clonidine-displacing substance

Efaroxan; β -cell; Insulin secretion; Imidazoline-binding site; KU14R; β -carboline (Cooper, E.J. (482) 189)

Cloning

Histamine H₃ receptor; Pharmacology; Splice variant (Chen, J. (467) 57)

Histamine H₃ receptor; (Monkey); Expression; G-protein coupled receptor; Pharmacology (Yao, B.B. (482) 49)

Clozapine

Zotepine; Schizophrenia; Glutamate; Dizocilpine (MK-801); (Rat) (Okamura, N. (461) 93)

α_2 -Adrenoceptor antagonist; Antipsychotic; Functional affinity; Cognitive function; Iloperidone (Kalkman, H.O. (462) 33)

Behaviour; Chlorpromazine; Haloperidol; Risperidone; (Rhesus monkey) (Kumar, R. (462) 133)

Haloperidol; Risperidone; Stress; Blood pressure; Heart rate; Behaviour (van den Buuse, M. (464) 55)

Metabolite; Metabolism; Hippocampus (Heiser, P. (476) 167)

Haloperidol; Olanzapine; Neuroleptic; Striatum; Oral dyskinesia (McCullumsmith, R.E. (477) 101)

CNS (central nervous system)

Pruritus; Opioid system; TRK-820; Behavior; (Mouse) (Umeuchi, H. (477) 29)

Cocaine

5-HT (5-hydroxytryptamine, serotonin); Ligand-gated; Overexpression; Hippocampus; 5-HT₃ receptor (Carta, M. (459) 167)

5-HT_{1B} receptor; CP 93129; GR 55562; Discriminative stimulus effect; Ventral tegmental area (Filip, M. (459) 239)

Cardiac output; Arterial pressure (Williams, J.B. (464) 189)

Opiate; Opioid; Amphetamine; Withdrawal; Benzodiazepine; Alcohol; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

Antisense; Conditioned place preference; Convulsion; Gene expression; Locomotor activity; Microarray; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

MDMA (methylenedioxymethamphetamine); MDA (methylenedioxyamphetamine); MDEA (methylenedioxyethylamphetamine); Cathinone; Nisoxetine (Cleary, L. (476) 31)

Ethanol; Dopamine release; Nucleus accumbens; Non-exocytotic; Microdialysis (Yan, Q.-S. (477) 37)

Monoamine; Psychostimulant; Amphetamine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); DAT (dopamine transporter); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

Dopamine transporter (DAT); Attention deficit hyperactivity disorder (ADHD); Anti-depressant; Serotonin transporter (SERT); Addiction (Madras, B.K. (479) 41)

Analogue; Structure–activity relationship study; DAT (dopamine transporter); Dopamine hypothesis; Binding activity (Dutta, A.K. (479) 93)

Dopamine; DAT (dopamine transporter); Release; Diffusion; Voltammetry (Greco, P.G. (479) 117)

Dopamine transporter; Trafficking; Amphetamine (Kahlig, K.M. (479) 153)

Neurotransmitter transport; Dopamine transporter; Transporter regulation; Trafficking; Signaling mechanism; Phosphorylation; Amphetamine (Mortensen, O.V. (479) 159)

Vesicular monoamine transporter; Amphetamine; Methylphenidate (Fleckenstein, A.E. (479) 283)

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{2C} receptor knockout mouse; Drug self-administration; Feeding behaviour; RNA editing (Higgins, G.A. (480) 151)

Apoptosis; Cerebral vascular smooth muscle cell; Stroke (Su, J. (482) 61)

Cocaine affinity

DAT (dopamine transporter); Structure; Zn²⁺-site engineering; Conformational change (Loland, C.J. (479) 187)

Cocaine discrimination

(Mouse); (Rat); (Rhesus monkey); Mazindane; Mazindol; Motor activity, mouse; Neurotransmitter binding (Houlihan, W.J. (458) 263)

Cocaine kindling

Neuroactive steroid; Sensitization; (mouse) (Kaminski, R.M. (474) 217)

Cocaine selective

DAT (dopamine transporter); SERT (serotonin transporter); Transmembrane domain; Mutant; Antagonism (Uhl, G.R. (479) 71)

Cocaine self-administration

Reinforcement; Hyperactivity; Behavioral sensitization; Knockout, mouse; DAT (dopamine transporter); NET (norepinephrine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Cochlear disturbance

Otitis media; Nitric oxide (NO) synthase inhibitor; Dexamethasone (Sone, M. (482) 313)

Cognition

Dizocilpine; MK-801; NMDA receptor; Nicotine; Attention (Rezvani, A.H. (465) 83)

Cognitive function

α₂-Adrenoceptor antagonist; Antipsychotic; Functional affinity; Clozapine; Iloperidone (Kalkman, H.O. (462) 33)

Colitis

TNBS (trinitrobenzene sulphonic acid); Neutrophil; TNF-α (tumor necrosis factor-α); Flavonoid; Dosmalfate (Villegas, I. (460) 209)

Adenosine; Cytokine; Chemokine (Mabley, J. (466) 323)

Poly (ADP-ribose) polymerase; 3-Aminobenzamide; 1,5-Dihydroxyisoquinoline; NF-κB (nuclear factor-κB); Activator protein-1 (Zingarelli, B. (469) 183)

Thearubigin; Inflammatory bowel disease; Black tea; Cytokine; Nitric oxide (NO) synthase, inducible; NF-κB (nuclear factor kappa B) (Maity, S. (470) 103)

Group IIA phospholipase A₂; Dextran sulfate sodium; S-3013/LY333013 (Tomita, Y. (472) 147)

Cyclo-oxygenase-2; TNBS (trinitrobenzene sulphonic acid); Neutrophil; Interleukin-1β; Prostaglandin; Apoptosis (Martín, A.R. (481) 281)

Collagen synthesis

Chymase; Mast cell; Pulmonary fibrosis; TGF-β1 (transforming growth factor-β1) (Tomimori, Y. (478) 179)

(Collie)

Ivermectin; (Dog); Hypersensitivity; P-glycoprotein; MDR (multidrug resistance) (Roulet, A. (460) 85)

Colon

Postoperative ileus; (Rat); Adenosine A₁ receptor; antagonist (Kadowaki, M. (458) 197)

Glutamate; NMDA receptor; Acetylcholine; Enteric nervous system; (Human) (Giaroni, C. (476) 63)

Colon, human

Muscarinic receptor; [³H]Quinuclidinyl benzylate; Circular muscle; Radioligand binding; Alkylating agent (Mansfield, K.J. (482) 101)

Colon, murine

Fast inhibitory junction potential; Apamin; ATP; PACAP (pituitary adenylate cyclase activating peptide); Purinoceptor (Serio, R. (460) 183)

Colon, rat

Adenosine A_{2B} receptor; Species difference; Adenosine receptor antagonist; Aorta, guinea pig; Saphenous vein, dog (Fozard, J.R. (475) 79)

CoMFA (Comparative Molecular Field Analysis)

Antidepressant; *Drosophila*; 5-HT (5-hydroxytryptamine serotonin); SERT (serotonin transporter) (Roman, D.L. (479) 53)

Complement 5a

Piperlactam S; RAW264.7 macrophage; F-actin; Filopodia; Cdc42 (Chiou, W.-F. (458) 217)

Conditioned avoidance

Ethanol; Narcosis; Dopamine D2 receptor; Ultrasonic call; Pharmacokinetic (Castorina, M. (477) 129)

Conditioned place preference

Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Ventral tegmental area; (Rat) (Gholami, A. (458) 119)

Antisense; Cocaine; Convulsion; Gene expression; Locomotor activity; Microarray; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

Nociceptin; Amphetamine; Sensitization; Stereotypy; (Rat) (Kotlinska, J. (474) 233)

Conditioned-place preference

Solvent; Addiction; (Rodent) (Gerasimov, M.R. (477) 45)

Conditioned taste aversion

Lithium chloride; Nefazodone; Corticosterone (Gorzalka, B. (471) 129)

Conflict drinking test

5-HT_{1A} receptor antagonist; *p*-Chloroamphetamine; Flumazenil; (Rat) (Wesołowska, A. (471) 27)

Confocal microscopy

Immunohistochemistry; Myenteric plexus-longitudinal muscle; Choline acetyltransferase; Capsaicin receptor (Anavi-Goffer, S. (458) 61)

Conformational change

Neurotransmitter transporter; Structural context (Goldberg, N.R. (479) 3)

DAT (dopamine transporter); Structure; Zn²⁺-site engineering; Cocaine affinity (Loland, C.J. (479) 187)

ω-Conotoxin

Striatum; Dopamine release; Neomycin; Veratridine; ω-Agatoxin-IVA (Dobrev, D. (461) 105)

Context

Fear; Learning; Memory; Amygdala; Hippocampus (Sanders, M.J. (463) 217)

Contextual conditioning

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potentiation; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Diazepam (Meechel Korte, S. (463) 163)

Contractility

Bupropion; Heart; Catecholamine; Amphetamine (Cremers, B. (467) 169)

LASSBio 294 (L-294); Skeletal muscle; Ca^{2+} ; Sarcoplasmic reticulum (Zapata-Sudo, G. (470) 79)

Nebivolol; Nebivolol, enantiomer; Nebivolol, metabolite; Myocardium, human (Bundkirchen, A. (476) 97)

Contraction

Bradykinin; Iris sphincter, pig; Cyclooxygenase metabolite; Bradykinin B_1 receptor-selective antagonist; Bradykinin B_2 receptor-selective antagonist (El Sayah, M. (458) 175)

Pulmonary artery; Stretch; Prostaglandin H_2 ; Integrin (Saito, M. (467) 151)
Vasopressin; Vasopressin V_{1a} receptor; Oxytocin; Oxytocin receptor; Uterus (Kawamata, M. (472) 229)

Ca^{2+} current, L-type; Nitric oxide (NO); Excitation–contraction coupling (Au, A. (476) 45)

Contracture

Stroke-prone spontaneously hypertensive rat (SHRSP); Oesophageal striated muscle; Caffeine; Ca^{2+} influx; Sarcoplasmic reticulum (Sekiguchi, F. (465) 153)

Controllability

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potential; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Convulsion

Antisense; Cocaine; Conditioned place preference; Gene expression; Locomotor activity; Microarray; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

Diazepam; Neonatal reflex; Pentylentetrazol; GABA_A receptor (Nicosia, A. (469) 103)

Coping, active

Animal model; Defensive behavior; Fear; Anxiety; Coping, passive; Avoidance; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Coping, passive

Animal model; Defensive behavior; Fear; Anxiety; Coping, active; Avoidance; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Copper neuromodulation

P2X_4 purinoceptor; ATP purinoceptor; Zinc neuromodulation; Desensitized purinoceptor; Metal chelator; Metal neuromodulation (Coddou, C. (472) 49)

Coronary artery

Cerebral artery; Renal artery; Tail artery; Nitric oxide (NO); Prostanoid (García-Villalón, A.L. (459) 247)

Diabetes; Vasopressin; Gender; Renal artery; K^+ channel (Sanz, E. (471) 35)

Coronary artery disease

Platelet; Aspirin; Receptor (Malinin, A.I. (462) 139)

Coronary artery, porcine

Ligustrazine; Adenylate cyclase; Ca^{2+} channel, L-type (Shan Au, A.L. (468) 199)

Coronary flow

Endothelium-dependent vasodilatation; Vasoconstriction, coronary; Vasodilatation, coronary; Vasodilator reserve, coronary (Martínez, M.A. (473) 55)

Endothelium-dependent vasodilatation; Coronary vasoconstriction; Coronary vasodilatation; (Goat) (Fernández, N. (481) 109)

Coronary heart disease

Acetylsalicylic acid; Aspirin; Anti-thrombin action; Platelet factor 4 (Di Micco, B. (460) 59)

Coronary vasoconstriction

Coronary flow; Endothelium-dependent vasodilatation; Coronary vasodilatation; (Goat) (Fernández, N. (481) 109)

Coronary vasodilatation

Coronary flow; Endothelium-dependent vasodilatation; Coronary vasoconstriction; (Goat) (Fernández, N. (481) 109)

Corpus cavernosum

YC-1; Guanylate cyclase; Nitric oxide (NO); Apomorphine; Penile erection (Hsieh, G.C. (458) 183)

Nitric oxide (NO); 3-Nitro-L-tyrosine; Photorelaxation; Ultraviolet light (Büyükaşar, K. (459) 263)

Phosphodiesterase; Phosphodiesterase type 5 inhibitor; Erectile dysfunction (Qiu, Y. (472) 73)

Diabetes; Erectile dysfunction; Fasudil; Rho-kinase; Y-27632 (Büyükaşar, K. (472) 235)

Phosphodiesterase; cGMP; Nitric oxide (NO) synthase; Guanylate cyclase (Hosogai, N. (473) 65)

Protein kinase C; Diabetes mellitus; Endothelium; Smooth muscle; NANC (non-adrenergic, non-cholinergic) nerve; Nitric oxide (NO); Aorta (Nangle, M.R. (475) 99)

BAY 41-2272; Soluble guanylyl cyclase; Sildenafil; Nitric oxide (NO) (Barakat, J.S. (477) 163)

Corpus cavernosum, rat

Cholestasis; NANC (non-adrenergic non-cholinergic) relaxation; Nitric oxide (NO); Opioid; Electrical field stimulation (Sadeghipour, H. (460) 201)

Cortex

Diabetes; Streptozotocin; Lipid peroxidation; Hippocampus; GFAP (glial fibrillary acidic protein) (Baydas, G. (462) 67)

Ethanol; Apoptosis; Cytochrome *c*; Caspase-3; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Neuron; Cerebellum (Rajgopal, Y. (470) 117)

Cortex, prefrontal

Dopamine D1 -like receptor; Adenylyl cyclase; Dopamine D1 -like receptor, non-cyclase-coupled; Striatum, ventrolateral; Accumbens, shell; Dopamine D1 -like/ D2 -like receptor synergism; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Anxiety; Microdialysis; Norepinephrine; Reboxetine; Rat (Dazzi, L. (476) 55)

Dopamine; Dorsolateral, striatum; GABA_A receptor; Corticostriatal pathway (Matsumoto, M. (482) 177)

Cortical neuron

SITS; DIDS; Oxygen-glucose deprivation; NMDA (*N*-methyl-D-aspartate) (Tauskela, J.S. (464) 17)

Cortical neuron, rat

Honokiol; Magnolol; Ca^{2+} ; SH-SY5Y neuroblastoma (Zhai, H. (474) 199)

Corticosteroid

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potentiation; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Neutrophil; Inhibition; Transmigration (van Overveld, F.J. (477) 261)

Corticosterone

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Bromocriptine; Zona fasciculata–reticularis cell; Adenylyl cyclase; Cytochrome P450_{scc}; StAR protein (Kan, S.-F. (468) 141)

α -MSH (melanocyte-stimulating hormone); Ischemia; Reperfusion; Heart, rat (Vecsernyes, M. (470) 177)

Lithium chloride; Conditioned taste aversion; Nefazodone (Gorzalka, B. (471) 129)

Diazepam; Flow cytometry; Neutrophil; Oxidative burst; Peripheral benzodiazepine receptor; Tolerance development (da Silva, F.R. (478) 97)

Corticosterone, plasma

CRH (corticotropin-releasing hormone); Noradrenaline; Prostaglandin; Brain; (–)-Nicotine; Brain nicotinic receptor (Okada, S. (473) 217)

Corticoatrial afferent

μ -Opioid receptor; Opioid, presynaptic inhibition; K^+ channel; Striatum (Barral, J. (462) 91)

Corticoatrial pathway

Dopamine; Dorsolateral, striatum; Cortex prefrontal; GABA_A receptor (Matsumoto, M. (482) 177)

Corticotropin-releasing factor

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potentiation; Allostasis; Allostatic state; Allostatic load; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Corticotropin-releasing factor (CRF)

Locus coeruleus; DMP695; Unit activity (Lejeune, F. (464) 127)

Corticotropin-releasing hormone (CRH)

Catecholamine; Plasma; Phospholipase C; Diacylglycerol lipase; Brain; Sympatho-adrenomedullary outflow (Okada, S. (475) 49)

Cough

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Kampo preparation (Kamei, J. (469) 159)

Angiotensin-converting enzyme inhibitor; Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; Guinea pig (Hirata, R. (474) 255)

Antitussive effect; cannabinoid CB₁ receptor; WIN 55212-2; SR141716A (Morita, K. (474) 269)

Cough reflex

Endomorphin-1; Endomorphin-2; Antitussive effect; μ -Opioid receptor; κ -Opioid receptor (Kamei, J. (467) 219)

CP55,940

Vomiting; Locomotor activity; SR141716A; Cannabinoid CB₁ receptor; (Least shrew); G-protein; Potency; Efficacy (Darmani, N.A. (459) 83)

CP 93129

5-HT_{1B} receptor; Cocaine; GR 55562; Discriminative stimulus effect; Ventral tegmental area (Filip, M. (459) 239)

CP8668

Progesterone receptor modulator, nonsteroidal; T47D; Endometrial transformation, rabbit; PF1092 (Tabata, Y. (461) 73)

CP 55,940

Cannabinoid receptor agonist; Morphine; Self-administration; (Lewis rat) (Norwood, C.S. (465) 105)

CP-93,129

5-HT (5-hydroxytryptamine, serotonin); Selective reuptake inhibitor; Fluvoxamine; Caudate putamen; Autoreceptor; Heteroreceptor (De Groot, L. (476) 71)

(Rat); Morris watermaze; NMDA receptor NR2B subunit selective antagonist (Guscott, M.R. (476) 193)

CPA

Hyperalgesia; Chronic stress; Adenosine; N₆-cyclopentyladenosine; Dipyr-idamole; Tail-flick (da Silva Torres, I.L. (481) 197)

CPA (cyclopentyladenosine)

Acetylcholine release; Adenosine A₁ receptor; Low-efficacy agonist; Partial agonist; Neuronal synaptosome; 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Bueters, T.J.H. (481) 141)

Creatine phosphate

Spinal synaptic transmission; Anoxia; Glutamate; Inhibitory transmission (Jha, A. (481) 189)

CRF (corticotropin-releasing factor)

Hypericum perforatum; St. John's wort; Hypericin; Pseudohypericin; Hyperforin; Depression (Simmen, U. (458) 251)

Anxiety; 5-HT_{1A} receptor; CRH (corticotropin-releasing hormone); Trans-genic; Knockout (Groenink, L. (463) 185)

Stress; ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

CRF₂ receptor antagonist; Urocortin 2; Antisauvagine-30; Cardiovascular (Mackay, K.B. (469) 111)

CRF (corticotropin releasing hormone)

Amygdala; Bed nucleus of the stria terminalis; Fear; Anxiety; Stress (Walker, D.L. (463) 199)

CRF₂ receptor antagonist

CRF (corticotropin-releasing factor); Urocortin 2; Antisauvagine-30; Cardiovascular (Mackay, K.B. (469) 111)

CRH (corticotropin-releasing hormone)

Anxiety; 5-HT_{1A} receptor; CRF (corticotropin-releasing factor); Transgenic; Knockout (Groenink, L. (463) 185)

Vasopressin; Cyclooxygenase; Thromboxane A₂ synthase; Brain; Adrenaline; Noradrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

Noradrenaline; Prostaglandin; Brain; (–)-Nicotine; Brain nicotinic receptor; Corticosterone, plasma (Okada, S. (473) 217)

Noradrenaline; Adrenaline; Plasma; Nitric oxide (NO) synthase, inducible; Brain (Okada, S. (477) 95)

CRLR (Calcitonin-receptor-like receptor)

Adrenomedullin; Calcitonin gene-related peptide (CGRP); RAMP (Receptor-activity modifying protein); Mast cell; Peritoneal; (Rat) (Matsushima, M. (464) 111)

CRL receptor

Calcitonin receptor-like receptor; Vascular endothelium; Rat; Immunoreactivity (Hagner, S. (481) 147)

Cross-tolerance

Ethanol; Flunitrazepam; GABA_A receptor; Gaboxadol; THIP; Hypnotic; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

***Crotalus durissus terrificus* venom**

Analgesia; ATP-sensitive K⁺ channel; δ -Opioid receptor agonist, peripheral; κ -Opioid receptor agonist, peripheral (Picolo, G. (469) 57)

Crotonin

Semi-synthetic; V79 cell; Cytotoxicity; Hepatocyte toxicity; Gastric ulcer (Albino de Almeida, A.B. (472) 205)

Cultured cell

Metallothionein; Zn²⁺ trafficking; Transition element; Zinquin; Mitochondrion; Fluorescence microscopy; (Rat) (Colvin, R.A. (479) 171)

Cutaneous blood flow

Passive cutaneous anaphylaxis; 5-Hydroxytryptamine receptor; Histamine H₂ receptor; (Rat) (Hayashi, K.-i. (482) 305)

C-X-C chemokine

Interleukin-17; Bronchial epithelial cell, human (Prause, O. (462) 193)

Cyclic AMP

Cardiac myocyte; Cyclic GMP; Cyclic GMP affected cyclic AMP phosphodiesterases; (Rabbit) (Weiss, H.R. (481) 25)

Cyclic GMP

Cardiac myocyte; Cyclic AMP; Cyclic GMP affected cyclic AMP phosphodiesterases; (Rabbit) (Weiss, H.R. (481) 25)

Cyclic GMP affected cyclic AMP phosphodiesterases

Cardiac myocyte; Cyclic GMP; Cyclic AMP; (Rabbit) (Weiss, H.R. (481) 25)

3',5'-Cyclic guanosine monophosphate

Oesophageal sphincter, lower; Smooth muscle; Mexiletine; Nitric oxide (NO); Nitric oxide (NO) synthase (Kohjitani, A. (465) 145)

Cyclic nucleotide-gated channel

cAMP; Ca²⁺ imaging; Second messenger assay (Reinscheid, R.K. (478) 27)

Cyclin D1

PPAR γ (Peroxisome proliferator-activated receptor γ); Smooth muscle cell, vascular; Cell cycle (Bruemmer, D. (466) 225)

Cyclobenzaprine

Amitriptyline; Cyproheptadine; Flexor reflex; Spinal reflex (Honda, M. (458) 91)

Cyclooxygenase

Renin–angiotensin–aldosterone system; Angiotensin II; Prostanoid; Kidney; Heart (Cheng, Z.J. (461) 159)

Cyclooxygenase-2

NS-398; Aorta, rat; Endothelium derived; Nitric oxide; SERCA (Ca²⁺ pump); Sarcoplasmic reticulum (Adeagbo, A.S.O. (458) 145)

VEGF (vascular endothelial growth factor); Celecoxib; Diabetes (Ayalasomayajula, S.P. (458) 283)

Inflammatory pain; Morphine; Rofecoxib; Synergism (Déciga-Campos, M. (460) 99)

Cardiomyocyte; Cytokine; Annexin-1; Glucocorticoid; Nitric oxide (NO) synthase 2 (Ritchie, R.H. (461) 171)

FP prostanoid receptor; β -catenin signaling (Fujino, H. (465) 39)

Vasopressin; CRH (corticotropin-releasing hormone); Thromboxane A₂ synthase; Brain; Adrenaline; Noradrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

Honokiol; Reactive oxygen species; NADPH oxidase; Myeloperoxidase; Glutathione peroxidase; Protein kinase C (Liou, K.-T. (475) 19)

Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; Interleukin-1 β ; Prostaglandin; Apoptosis (Martín, A.R. (481) 281)

Cyclooxygenase metabolite

Bradykinin; Iris sphincter, pig; Contraction; Bradykinin B₁ receptor-selective antagonist; Bradykinin B₂ receptor-selective antagonist (El Sayah, M. (458) 175)

Cyclophosphamide-induced cystitis

Dorsal root ganglion; P2X receptor; Vanilloid 1 receptor (Borvendeg, S.J. (474) 71)

Cyclopiazonic acid

GEA3162; S-Nitrosylation; Cation entry; Ca²⁺, intracellular, free; Neutrophil (Wang, J.-P. (458) 243)

Cyclosporine

Testosterone; Endothelium dysfunction; Renal vasculature; Gonadectomy (El-Mas, M.M. (468) 217)

Cyclosporine A

FK506; Ileum, guinea pig; Tolerance; Dependence; Morphine (Mehr, S.E. (467) 205)

CYP3A (Cytochrome P450 3A)

Omeprazole; Pantoprazole; St. John's wort; Induction of transcription; RT-PCR (reverse transcription–polymerase chain reaction) (Krusekopf, S. (466) 7)

Cyproheptadine

Cyclobenzaprine; Amitriptyline; Flexor reflex; Spinal reflex (Honda, M. (458) 91)

CYR61

Iloprost; Prostacyclin; Smooth muscle; Atherosclerosis (Debey, S. (474) 161)

[Cys(Et)^{2,7}]hCGRP α

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Lung; Vas deferens; BIBN4096BS; Adrenomedullin-(22–52), human; (Rat) (Juaneda, C. (474) 165)

Cysteamine

Salivary gland; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Cysteine

ATP; P2X receptor; Site-directed mutagenesis; *Xenopus* oocyte (Nakazawa, K. (474) 205)

Cytidine

CDP-choline; Choline; Haemorrhagic shock; Vasopressin; Catecholamine (Savci, V. (468) 129)

Cytisine

Nicotinic receptor, neuronal; Agonist; Antagonist; Partial agonist; Binding; FLIPR; Electrophysiology (Carbonnelle, E. (471) 85)

Cytochrome *c*

Ethanol; Apoptosis; Caspase-3; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Neuron; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

Cytochrome *c* release

Apoptosis; Sesquiterpene lactone; Cytotoxic activity; Caspase; Poly(ADP-ribose) polymerase-1 cleavage (Rivero, A. (482) 77)

Cytochrome P450

Huperzine A; Metabolism; Microsome (Xiaochao, Ma. (461) 89)

Downregulation; Inflammation; Serum mediator; Cytokine (Bleau, A.-M. (473) 197)

Cytochrome P450scc

Bromocriptine; Corticosterone; Zona fasciculata–reticularis cell; Adenylyl cyclase; StAR protein (Kan, S.-F. (468) 141)

Cytokine

Cardiomyocyte; Cyclo-oxygenase-2; Annexin-1; Glucocorticoid; Nitric oxide (NO) synthase 2 (Ritchie, R.H. (461) 171)

Colitis; Adenosine; Chemokine (Mabley, J. (466) 323)

Thearubigin; Inflammatory bowel disease; Black tea; Colitis; Nitric oxide (NO) synthase, inducible; NF- κ B (nuclear factor kappa B) (Maity, S. (470) 103)

Lycium barbarum; Polysaccharide-protein complex; Gene expression; Bioassay (Gan, L. (471) 217)

Cytochrome P450; Downregulation; Inflammation; Serum mediator (Bleau, A.-M. (473) 197)

Cinnamyl derivative; Endotoxin shock (Kurokawa, M. (474) 283)

Acyclic nucleoside phosphonate; Antiviral; Chemokine; Nitric oxide (NO) (Zidek, Z. (475) 149)

Acute lung inflammation; Chemokine; Peroxisome proliferator-activated receptor- γ ; Activator protein-1 (Inoue, K.-i. (481) 261)

Cytokine production

Noradrenaline uptake; Antidepressants; NET-KO, mouse (Selmezy, Z. (469) 175)

Cytokines

Streptozotocin; Diabetes mellitus; Heat shock protein; Growth factor; Ulcer (Harsch, I.A. (481) 249)

Cytoprotection

Salivary gland; Cysteamine; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Cytotoxic activity

Apoptosis; Sesquiterpene lactone; Caspase; Poly(ADP-ribose) polymerase-1 cleavage; Cytochrome *c* release (Rivero, A. (482) 77)

Cytotoxicity

Crotonin; Semi-synthetic; V79 cell; Hepatocyte toxicity; Gastric ulcer (Albino de Almeida, A.B. (472) 205)

DADLE ([D-Ala², D-Leu⁵]enkephalin)

NGF (Nerve growth factor); GDNF (Glia-derived neurotrophic factor) (Hayashi, T. (464) 237)

 α_{1D} -Adrenoceptor subtype

WB 4101; Chloroethylclonidine; Pulmonary artery; Pulmonary hypertension (Oriowo, M.A. (482) 255)

D-Amphetamine

Sequential three-key drug discrimination; Drug discrimination retention; Fixed-interval schedule; Pentobarbital; Morphine; Caffeine; (Pigeon) (Li, M. (476) 79)

Dantrolene

Myocardial infarction; Ca²⁺, intracellular; Myocardial contractility (Min, J.-Y. (471) 41)

DAT (dopamine transporter)

Cocaine; Monoamine; Psychostimulant; Amphetamine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

SERT (serotonin transporter); Transmembrane domain; Mutant; Cocaine selective; Antagonism (Uhl, G.R. (479) 71)

Cocaine; Analogue; Structure–activity relationship study; Dopamine hypothesis; Binding activity (Dutta, A.K. (479) 93)

Reinforcement; Cocaine self-administration; Hyperactivity; Behavioral sensitization; Knockout, mouse; NET (norepinephrine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Cocaine; Dopamine; Release; Diffusion; Voltammetry (Greco, P.G. (479) 117)

Functional regulation; Trafficking; Presynaptic receptor; Substrate-mediated regulation (Gulley, J.M. (479) 139)

Structure; Zn²⁺-site engineering; Conformational change; Cocaine affinity (Loland, C.J. (479) 187)

Cation; Anion; Binding; Uptake blocker (Bonnet, J.-J. (479) 199)

Dopamine recognition; Cation; Na⁺; Access model (Chen, N. (479) 213)

Multisubstrate mechanisms; Leakage; Terreactant mechanisms; Na⁺-dependent transporter; Cl[−]-dependent transport; Slippage (Schenk, J.O. (479) 223)

DBA/2 mouse

Glutamate receptor, metabotropic; Epilepsy; Anticonvulsant; Temporal lobe epilepsy; Kindling (Moldrich, R.X. (476) 3)

3D-CPA (3'-deoxy-CPA)

Acetylcholine release; Adenosine A₁ receptor; Low-efficacy agonist; Partial agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Bueters, T.J.H. (481) 141)

Defensive behavior

Animal model; Fear; Anxiety; Coping, active; Coping, passive; Avoidance; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Delayed emesis

Cisplatin; Anti-emetic; 5-HT₃ receptor; Glucocorticoid (Sam, T.S.W. (472) 135)

Delayed neuronal death

Hippocampus; Cerebral ischemia; Global ischemia; Locomotor activity; (Mongolian gerbil); Neuroprotective drug (Katsuta, K. (467) 103)

Delayed rectifier K⁺ current

Azimilide; Papillary muscle; Purkinje fiber; Action potential (Takács, J. (470) 163)

Deltorphin II

Body temperature; Hypothermia; Hyperthermia (Salmi, P. (458) 101)

Dendritic cell

Adenosine A₃ receptor; Adenosine A_{2A} receptor; TNF-α (tumour necrosis factor-α) (Dickenson, J.M. (474) 43)

Cilomilast; Phosphodiesterase 4 inhibitor; Skin, mouse; Matrix metalloproteinase 9; Toluene-2,4-diisocyanate; Zymography (Bäumer, W. (481) 271)

Dentate gyrus

Morphine; Norepinephrine; Locus coeruleus; Synaptic plasticity (Zhu, H. (467) 141)

Dentate gyrus, rat

Levetiracetam; Paired-pulse inhibition/facilitation; GABAergic mechanism; Antiepileptic drug (Margineanu, D.G. (466) 255)

15-Deoxy-prostaglandin-J2

Neuroprotection; Peroxisome proliferator-activated receptor; Troglitazone; Thiazolidinedione (Aoun, P. (472) 65)

15-Deoxy^{Δ12,14} prostaglandin J₂

Shock; PPAR (Collin, M. (476) 257)

Dependence

Anabolic-androgenic steroid; Nandrolone; Hypothermia; Morphine tolerance; Reward; (Mouse) (Célériér, E. (465) 69)

Cyclosporine A; FK506; Ileum, guinea pig; Tolerance; Morphine (Mehr, S.E. (467) 205)

Depressant

Antipsychotic; Cannabinoid; SR 141716A (Wiley, J.L. (471) 185)

Depression

Hypericum perforatum; St. John's wort; Hypericin; Pseudohypericin; Hyperforin; CRF (corticotropin-releasing factor) (Simmen, U. (458) 251)

Benzodiazepine receptor, peripheral-type; PK11195; Ro5-4864; Steroid; (Mouse); Forced swimming test (Gavioli, E.C. (471) 21)

Depression treatment-resistant

8-OH-DPAT (8-hydroxy-2-di-*n*-propylamino tetralin); Imipramine; 5-HT_{1A} receptor; Forced swim test (Kitamura, Y. (481) 75)

Dermorphin

TAPS (Tyr-D-Arg²-Phe-Sar⁴); Tetrapeptide; Antinociception; Tolerance; Withdrawal (Vonhof, S. (459) 41)

Tetrapeptide; TAPS; Receptor binding; Kinetic; Brain (Vonhof, S. (473) 127)

Des-Arg⁹-bradykinin

Bradykinin receptor; Bradykinin; HOE-140; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Δ5 desaturase

Statins; Linoleic acid (Risè, P. (467) 73)

Desensitisation

Bradykinin receptor; Induction; (Rat); Vas deferens (Scott, P. (458) 319)

Desensitization

Cannabinoid CB₁ receptor; G-protein; Physical dependence; Down-regulation (Breivogel, C.S. (459) 139)

Endocytosis; GABA_B receptor; Green fluorescent protein (GFP); Receptor dimerization (González-Maeso, J. (481) 15)

Desensitized purinoceptor

P2X₄ purinoceptor; ATP purinoceptor; Copper neuromodulation; Zinc neuromodulation; Metal chelator; Metal neuromodulation (Coddou, C. (472) 49)

Desmethylselegiline

Selegiline; NMDA (*N*-methyl-D-aspartate); Retinal degeneration; Cell death; BDNF (brain-derived neurotrophic factor) (Takahata, K. (458) 81)

Devazepide

Cholecystokinin; CCK₁ receptor antagonist; A70104; Satiety; Food intake (Ebenezer, I.S. (461) 113)

Development

Mesencephalic; Dopaminergic; Pitx3; Midbrain; Dopamine (Smidt, M.P. (480) 75)

Sciatic nerve crush; Regeneration; Homeobox; Transcription factor; Dorsal root ganglion (Vogelaar, C.F. (480) 233)

Dexamethasone

Histidine decarboxylase; Stomach; Aspirin; Indomethacin; Histamine H₂ receptor antagonist (Ayada, K. (460) 63)

Cerebral ischemia; Dopamine; Substantia nigra, rat (Mitsuyo, T. (465) 267)

Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); Sephadex bead; TNF-α (tumor necrosis factor-α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Otitis media; Cochlear disturbance; Nitric oxide (NO) synthase inhibitor (Sone, M. (482) 313)

Dextran sulfate sodium

Group IIA phospholipase A₂; Colitis; S-3013/LY333013 (Tomita, Y. (472) 147)

Diabetes

Cyclooxygenase-2; VEGF (vascular endothelial growth factor); Celecoxib (Ayalasomayajula, S.P. (458) 283)

Angiotensin; Capacitance; Circulatory filling pressure, mean; Noradrenaline; Vasoconstriction (Cheng, X. (458) 299)

Streptozotocin; Lipid peroxidation; Hippocampus; Cortex; GFAP (glial fibrillary acidic protein) (Baydas, G. (462) 67)

β -Adrenoceptor; Urinary bladder, rat; Relaxation; Streptozotocin (Kubota, Y. (467) 191)

Vasopressin; Gender; Renal artery; Coronary artery; K⁺ channel (Sanz, E. (471) 35)

Systemic anaphylaxis; Glucocorticoid; Mast cell (Carvalho, V.F. (472) 221)

Corpus cavernosum; Erectile dysfunction; Fasudil; Rho-kinase; Y-27632 (Büyükaşar, K. (472) 235)

Autonomic nervous system; Hypothalamus; Circadian rhythm; Metabolic syndrome; Visceral obesity; Hypertension (Kreier, F. (480) 51)

Insulin; Airway smooth muscle; Phenotype; Asthma (Gosens, R. (481) 125)

Diabetes mellitus

Vascular contraction; Diacylglycerol; Otsuka Long-Evans Tokushima Fatty (OLETF), rat; Streptozotocin (Nobe, K. (471) 195)

Hemoglobin, glycated; Endothelium; NF- κ B (nuclear factor- κ B); Iron chelator (Pieper, G.M. (472) 127)

Protein kinase C; Endothelium; Smooth muscle; NANC (non-adrenergic, non-cholinergic) nerve; Nitric oxide (NO); Aorta; Corpus cavernosum (Nangle, M.R. (475) 99)

Atherosclerosis; LDL (low-density lipoprotein), glycoxidized; MCP-1 (monocyte chemoattractant protein-1); NF- κ B (nuclear factor- κ B); Umbilical vein endothelial cell, human (Sonoki, K. (475) 139)

Probucol; Leukocyte–endothelial interaction (Zanardo, R.C.O. (478) 211)

Streptozotocin; Cytokines; Heat shock protein; Growth factor; Ulcer (Harsch, I.A. (481) 249)

Diacylglycerol

Diabetes mellitus; Vascular contraction; Otsuka Long-Evans Tokushima Fatty (OLETF), rat; Streptozotocin (Nobe, K. (471) 195)

Diacylglycerol lipase

Catecholamine; Plasma; Corticotropin-releasing hormone (CRH); Phospholipase C; Brain; Sympatho-adrenomedullary outflow (Okada, S. (475) 49)

Diadenosine polyphosphate

Ca²⁺ mobilization; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Dialysis

Nitroglycerin; Nitrate tolerance; Nitric oxide (NO); Posterior hypothalamus; Cardiovascular action (Ma, S.-X. (472) 179)

Diazepam

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potential; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning (Mechiel Korte, S. (463) 163)

Anticonvulsant; Benzodiazepine; AWD 131-138; Midazolam; Drug discrimination; Self-administration, monkey (Yasar, S. (465) 257)

(Swiss Webster mouse); GABA_A receptor; Benzodiazepine coupling; DMCM; Benzodiazepine inverse agonist; Benzodiazepine Type-1 receptor agonist (Davies, D.L. (469) 37)

Neonatal reflex; Pentylentetrazol; Convulsion; GABA_A receptor (Nicosia, A. (469) 103)

Flow cytometry; Neutrophil; Oxidative burst; Peripheral benzodiazepine receptor; Corticosterone; Tolerance development (da Silva, F.R. (478) 97)

GABA_A receptor; HEK 293 cell; GABA (γ -aminobutyric acid); Muscimol; Radioligand binding (Perićić, D. (482) 117)

Dibenzamine

Vas deferens, human; A-61603; Cirazoline; Oxymetazoline; Phenoxybenzamine; SZL-49 (Amobi, N. (462) 169)

DIDS

Cl[−]/HCO₃[−] exchange; Arrhythmia; Ischemia; Reperfusion; SITS (Zhu, B.-M. (460) 43)

SITS; Oxygen-glucose deprivation; NMDA (*N*-methyl-D-aspartate); Cortical neuron (Tauskela, J.S. (464) 17)

Diethylstilbestrol

Stilbene; Mast cell; Cl[−] channel; Exocytosis; Hexestrol (Roloff, T. (478) 81)

DIF-1

MAP (mitogen-activated protein) kinase; Germinal vesicle breakdown; cAMP (Kubohara, Y. (460) 93)

Differentiation

Bisphosphonate; Osteoblast; Alkaline phosphatase; Protein phosphatase; Protein tyrosine phosphatase (Itoh, F. (477) 9)

Diffusion

Cocaine; Dopamine; DAT (dopamine transporter); Release; Voltammetry (Greco, P.G. (479) 117)

Diffusion–perfusion magnetic resonance imaging

Middle cerebral artery occlusion; Ischemia; Reperfusion; Body temperature; Neurological deficit (Petty, M.A. (474) 53)

α -Difluoromethyl-ornithine

Aminoguanidine; Agmatine; Morphine; Analgesia; Tolerance (Lu, G. (478) 139)

Digoxin

ABC transporter; Caco-2 cell; Intestinal transport; MDR1; P-glycoprotein; MRP2 (Lowes, S. (458) 49)

Dihydropyridine

Ca²⁺ channel, L-type; Cilnidipine; Antisense; β -Subunit; A7r5 cell (Uchida, R. (466) 53)

Dihydropyridine receptor

Ca²⁺ channel, L-type; Diltiazem; Ca²⁺ channel antagonist; Ca²⁺; Radioligand binding (Hagiwara, M. (466) 63)

L-3,4-dihydroxyphenylalanine (L-DOPA)

Dopamine overflow; Atipamezole; Storage pool, readily releasable; Voltammetry, in vivo; Caudate nucleus; Nucleus accumbens (Yavich, L. (462) 83)

1,5-Dihydroxyisoquinoline

Poly (ADP-ribose) polymerase; 3-Aminobenzamide; NF-κB (nuclear factor-κB); Activator protein-1; Colitis (Zingarelli, B. (469) 183)

5,7-Dihydroxytryptamine

Locus coeruleus; Dorsal raphe nucleus; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin); 5-HIAA (5-hydroxyindoleacetic acid); Tryptophan; Ethanol (Hayashi, M. (462) 61)

Diinosine pentaphosphate

Ca²⁺ mobilization; Diadenosine polyphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Diltiazem

Ca²⁺ channel, L-type; Ca²⁺ channel antagonist; Dihydropyridine receptor; Ca²⁺; Radioligand binding (Hagiwara, M. (466) 63)

Dimer

Na⁺–Cl[–]-coupled neurotransmitter transporter; Neurotransmitter: Na⁺ symporter; FRET (fluorescence resonance energy transfer); Microscopy; Oligomer (Sitte, H.H. (479) 229)

3,4-Dimethyl-4-(3-hydroxyphenyl)piperidine

μ-Opioid; κ-Opioid; δ-Opioid; Antagonist; Receptor autoradiography (Statnick, M.A. (482) 139)

Dinucleotide oxidized

Synaptophysin; GRP-78; Subcellular fractionation (Shepel, P.N. (467) 67)

Dipeptide

GABA_B receptor; L-Amino acid; Baclofen; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Diprenorphine

Opioid receptor; Opioid receptor antagonist; Naloxone; PET (Positron Emission Tomography) (Melichar, J.K. (459) 217)

Diprenorphine (Pig)

Opioid receptor; Enteric nervous system; Naltrindole (Townsend IV, D. (482) 111)

Dipyridamole

Hyperalgesia; Chronic stress; Adenosine; CPA; N6-cyclopentyladenosine; Tail-flick (da Silva Torres, I.L. (481) 197)

Discriminative stimulus effect

5-HT_{1B} receptor; Cocaine; CP 93129; GR 55562; Ventral tegmental area (Filip, M. (459) 239)

Disease gene

ENU (ethyl-nitrosurea); Animal model; Mouse mutant; Phenotype-driven screen (Keays, D.A. (480) 205)

Dissociation kinetic

Cetirizine; Histamine H₁ receptor antagonism; Receptor reserve; Ileum, guinea pig; Trachea, guinea pig (Christophe, B. (470) 87)

Distress

Opiate; Opioid; Cocaine; Amphetamine; Withdrawal; Benzodiazepine; Alcohol; Vocalization; Ultrasound (Covington III, H.E. (467) 1)

Dithiocarbamates

Renal/kidney; Reperfusion-injury; Pyrrolidine dithiocarbamate; Nuclear factor-κB; Inducible nitric oxide synthase; Nitric oxide (Chatterjee, P.K. (482) 271)

Dizocilpine

MK-801; NMDA receptor; Nicotine; Attention; Cognition (Rezvani, A.H. (465) 83)

Dizocilpine (MK-801)

Zotepine; Clozapine; Schizophrenia; Glutamate; (Rat) (Okamura, N. (461) 93)

DMCM

(Swiss Webster mouse); GABA_A receptor; Benzodiazepine coupling; Diazepam; Benzodiazepine inverse agonist; Benzodiazepine Type-1 receptor agonist (Davies, D.L. (469) 37)

DMP695

Corticotropin-releasing factor (CRF); Locus coeruleus; Unit activity (Lejeune, F. (464) 127)

DNA fragmentation

Ethanol; Apoptosis; Cytochrome *c*; Caspase-3; Poly (ADP-ribose) polymerase-1; Neuron; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

Dobutamine

Inotrope; Ischaemia; Thyroxine; Heart, rat (Pantos, C. (460) 155)

DOCA-salt hypertension

Endothelium-derived hyperpolarizing factor; Tempol; Free radical species; Mesenteric vascular bed (Adeagbo, A.S.O. (481) 91)

DODC (diethyloxadycarbocyanine)

Apoptosis; Arsenic trioxide; Cell cycle; Sensitivity; Telomere (Zhang, Y. (474) 141)

(Dog)

Ivermectin; (Collie); Hypersensitivity; P-glycoprotein; MDR (multidrug resistance) (Roulet, A. (460) 85)

DOI

5-HT₂ receptor; Glycogenolysis; Hyperthermia (Darvesh, A.S. (464) 135)

Phenethylamine; Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); μ-Opioid receptor; Head shake; 5-HT_{2A} receptor; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

Donepezil

Acetylcholinesterase inhibitor; Oxygen–glucose deprivation; LDH release; Primary cultured cerebral cortical neuron; (Rat) (Akasofu, S. (472) 57)

Dopamine

5-HT (5-hydroxytryptamine, serotonin) transporter; Ceramide; Dopamine transporter (Riddle, E.L. (458) 31)

Microdialysis; Ventral subiculum; Muscarinic receptor; Nucleus accumbens; (Rat) (Moss, S. (460) 117)

DOV 21,947; “Broad-spectrum” antidepressant; Norepinephrine; 5-HT (5-hydroxytryptamine, serotonin); Reuptake inhibitor (Skolnick, P. (461) 99)

Cerebral ischemia; Dexamethasone; Substantia nigra, rat (Mitsuyo, T. (465) 267)

Rimcazole; GBR 12909 (Katz, J.L. (468) 109)

Aripiprazole; Haloperidol; Risperidone; Catalepsy; Partial agonist; Atypical antipsychotic (Nakai, S. (472) 89)

Methamphetamine; VMAT-2; (Mouse) (Ugarte, Y.V. (472) 165)

Parkinson's disease; Ginseng; Saponin; Oxidative stress; Apoptosis (Chen, X.-C. (473) 1)

Methamphetamine; Behavioral sensitization; Nocturnal behavior; Monoamine metabolism; 5-HT (5-hydroxytryptamine; serotonin) (Kitanaka, N. (474) 63)

Dopamine D1 receptor; Partial-agonist; Phenylbenzazepine (Neumeyer, J.L. (474) 137)

Kainic acid; 6-OHDA (6-hydroxydopamine); Memory; Substantia nigra; Ventral tegmental area (Hefco, V. (475) 55)

Microdialysis; Dopamine D3/D2 receptor agonist; Nucleus accumbens (Shilliam, C.S. (477) 113)

Cocaine; Monoamine; Psychostimulant; Amphetamine; 5-HT (5-hydroxytryptamine, serotonin); DAT (dopamine transporter); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

Cocaine; DAT (dopamine transporter); Release; Diffusion; Voltammetry (Greco, P.G. (479) 117)

Development; Mesencephalic; Dopaminergic; Pitx3; Midbrain (Smidt, M.P. (480) 75)

BDNF (brain-derived neurotrophic factor); Parkinson's disease; Behavioral sensitization; Dyskinesia (Guillin, O. (480) 89)

Nicotine; Addiction; Ventral tegmental area; Nucleus accumbens; Acetylcholine (Mansvelder, H.D. (480) 117)

Dopamine D2 receptor; Metabolic syndrome X; Insulin resistance; Obesity (Pijl, H. (480) 125)

Anandamide; 2-Arachidonoylglycerol; Cannabinoid; Movement disorder; Reward (van der Stelt, M. (480) 133)

Adrenal steroid; Microdialysis; Nicotine; Nucleus accumbens; Sensitization (Molander, A. (481) 51)

Pharmacokinetics; Neurotoxicity; 5-HT (5-hydroxytryptamine, serotonin); Hyperthermia (Johnson-Davis, K.L. (482) 151)

Dorsolateral, striatum; Cortex prefrontal; GABA_A receptor; Corticostriatal pathway (Matsumoto, M. (482) 177)

Nucleus accumbens; Feeding; Leptin; Microdialysis (Krtügel, U. (482) 185)

Dopamine D3/D2 receptor agonist

Microdialysis; Dopamine; Nucleus accumbens (Shilliam, C.S. (477) 113)

Dopamine D1 receptor

Renal failure, acute; Cisplatin; Zelandopam (Yatsu, T. (461) 191)

Dopamine; Partial-agonist; Phenylbenzazepine (Neumeyer, J.L. (474) 137)

Parkinson's disease; MPTP; Pramipexole (Ramirez, A.D. (475) 29)

Ethanol; Narcosis; Conditioned avoidance; Ultrasonic call; Pharmacokinetic (Castorina, M. (477) 129)

Dopamine; Metabolic syndrome X; Insulin resistance; Obesity (Pijl, H. (480) 125)

Dopamine D1-like:D2-like receptor synergism

Dopamine D1-like receptor; Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Accumbens, shell; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Dopamine D1-like receptor

Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Accumbens, shell; Dopamine D1-like:D2-like receptor synergism; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Dopamine D1-like receptor agonist

Penile erection; Erectile dysfunction (D'Aquila, P.S. (460) 71)

Dopamine D1-like receptor, non-cyclase-coupled

Dopamine D1-like receptor; Adenylyl cyclase; Cortex, prefrontal; Striatum, ventrolateral; Accumbens, shell; Dopamine D1-like:D2-like receptor synergism; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Dopamine hypothesis

Cocaine; Analogue; Structure–activity relationship study; DAT (dopamine transporter); Binding activity (Dutta, A.K. (479) 93)

Dopamine, mesolimbic

Ethanol; Nicotine; Nicotinic receptor; Microdialysis; (Rat) (Ericson, M. (467) 85)

Dopamine metabolism

Rotenone; Mortality; HPLC (high-performance liquid chromatography); (Rat); Brain; 1-Methyl-1,2,3,4-tetrahydroisoquinoline (Antkiewicz-Michaluk, L. (466) 263)

Dopamine overflow

L-3,4-dihydroxyphenylalanine (L-DOPA); Atipamezole; Storage pool, readily releasable; Voltammetry, in vivo; Caudate nucleus; Nucleus accumbens (Yavich, L. (462) 83)

Dopamine receptor

Jaw movement; Superior colliculus; Ventrolateral striatum; GABA_A receptor; Acetylcholine receptor; (Rat) (Adachi, K. (464) 147)

Gene targeting; Dynorphin; Substance P; Enkephalin (Wong, J.Y.F. (472) 39)

Dopamine receptor agonist

Parkinson's disease; hERG channel; Action potential duration (Hurst, R.S. (482) 31)

Dopamine recognition

DAT (dopamine transporter); Cation; Na⁺; Access model (Chen, N. (479) 213)

Dopamine release

Striatum; Neomycin; Veratridine; ω -Conotoxin; ω -Agatoxin-IVA (Dobrev, D. (461) 105)

Ethanol; Cocaine; Nucleus accumbens; Non-exocytotic; Microdialysis (Yan, Q.-S. (477) 37)

Dopamine transporter; Norepinephrine transporter; Protein kinase C; PC12 cell; Striatum (Gnegy, M.E. (479) 83)

Dopaminergic

Development; Mesencephalic; Pitx3; Midbrain; Dopamine (Smidt, M.P. (480) 75)

Dopamine stabilizer

GMC1111; Parkinson's disease; Dyskinesia; 6-Hydroxydopamine; Levodopa; Apomorphine (Klitenberg, R. (459) 231)

Dopamine transport

Voltammetry, rotating disk; Arachidonic acid; Fatty acid; Eicosanoid (Chen, N. (478) 89)

Dopamine transporter

Dopamine; 5-HT (5-hydroxytryptamine, serotonin) transporter; Ceramide (Riddle, E.L. (458) 31)

Norepinephrine transporter; Protein kinase C; Dopamine release; PC12 cell; Striatum (Gnegy, M.E. (479) 83)

Trafficking; Amphetamine; Cocaine (Kahlig, K.M. (479) 153)

Neurotransmitter transport; Transporter regulation; Trafficking; Signaling mechanism; Phosphorylation; Cocaine; Amphetamine (Mortensen, O.V. (479) 159)

Dopamine transporter (DAT)

Cocaine; Attention deficit hyperactivity disorder (ADHD); Anti-depressant; Serotonin transporter (SERT); Addiction (Madras, B.K. (479) 41)

d-opioid receptor

Autoradiography; G-protein coupling; Opioid receptor knockout (Oakley, S.M. (466) 91)

Dorsal ganglion neuron

Spider toxin; Na⁺ current; Patch-clamp, whole-cell (Xiao, Y. (477) 1)

Dorsal horn neurone

Spinal cord; Cannabinoid CB₁ receptor; Carrageenan inflammation; von Frey monofilament; Cannabinoid CB₁ receptor agonist, selective (Kelly, S. (474) 209)

Dorsal periaqueductal gray

Aversion; Midbrain tectum; Superior colliculus; Inferior colliculus (Brandão, M.L. (463) 225)

Dorsal raphe nucleus

Locus coeruleus; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin); 5-HIAA (5-hydroxyindoleacetic acid); Tryptophan; Ethanol; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

Sleep; REM sleep; Laterodorsal tegmental nucleus; Medial pontine reticular formation; 5-HT_{1A} receptor (Monti, J.M. (478) 121)

Dorsal root ganglion

P2X receptor; Vanilloid 1 receptor; Cyclophosphamide-induced cystitis (Borvendeg, S.J. (474) 71)

Sciatic nerve crush; Regeneration; Development; Homeobox; Transcription factor (Vogelaar, C.F. (480) 233)

Dorsolateral, striatum

Dopamine; Cortex prefrontal; GABA_A receptor; Corticostriatal pathway (Matsumoto, M. (482) 177)

Dosmalfate

Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; TNF-α (tumor necrosis factor-α); Flavonoid (Villegas, I. (460) 209)

Dotarizine

Migraine; Ca²⁺ channels P/Q; Chromaffin cell; Catecholamine release (Ruiz-Nuño, A. (481) 41)

DOV 21,947

“Broad-spectrum” antidepressant; Norepinephrine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Reuptake inhibitor (Skolnick, P. (461) 99)

Down-regulation

δ-Opioid receptor, human; Agonist-directed trafficking; Phosphorylation; Pertussis toxin (Okura, T. (459) 9)

Cannabinoid CB₁ receptor; G-protein; Physical dependence; Desensitization (Breivogel, C.S. (459) 139)

Cytochrome P450; Inflammation; Serum mediator; Cytokine (Bleau, A.-M. (473) 197)

Drinking

Water intake; α₁-Adrenoceptor; Muscarine cholinoreceptor; (Rat) (Oryan, S. (477) 123)

Water intake; Histamine system; Morphine; Naloxone; (rat) (Eidi, M. (478) 105)

Drosophila

Caenorhabditis; Biogenic amine receptor (Roeder, T. (466) 85)

Antidepressant; CoMFA (Comparative Molecular Field Analysis); 5-HT (5-hydroxytryptamine serotonin); SERT (serotonin transporter) (Roman, D.L. (479) 53)

Drug abuse

Marijuana; Gene expression (Casu, M.A. (459) 97)

Methamphetamine; Monoclonal antibody; Pharmacokinetics; Behavior (Byrnes-Blake, K.A. (461) 119)

Drug addiction

Ventral tegmental area; Mesolimbic; Synaptic transmission; Electrophysiology (Mathon, D.S. (480) 97)

Drug discrimination

Anticonvulsant; Benzodiazepine; AWD 131-138; Midazolam; Diazepam; Self-administration, monkey (Yasar, S. (465) 257)

Barbiturate; Benzodiazepine; 1,4-Butanediol; γ-Butyrolactone; Self-administration (McMahon, L.R. (466) 113)

Drug discrimination retention

Sequential three-key drug discrimination; Fixed-interval schedule; Pentobarbital; D-Amphetamine; Morphine; Caffeine; (Pigeon) (Li, M. (476) 79)

Drug disposition

Nucleoside transporter; Nucleoside analog; Renal cancer; Kidney; Localization (Mangravite, L.M. (479) 269)

Drug interaction

Felbamate; Lamotrigine; Pentylentetrazole; 4-Aminopyridine (Cuadrado, A. (465) 43)

GHB (γ-hydroxy butyrate); Ethanol; NCS 382; (Rat); Schedule-controlled behavior (Lamb, R.J. (470) 157)

Drug self-administration

Cocaine; 5-HT (5-hydroxytryptamine, serotonin); 5-HT_{2C} receptor knock-out mouse; Feeding behaviour; RNA editing (Higgins, G.A. (480) 151)

Drug transporter

Methamphetamine; Behavioral sensitization; Pharmacokinetics; Microdialysis, brain (Kitaichi, K. (464) 39)

Duodenal ulcer

Salivary gland; Cysteamine; Gastrectomy; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Duodenum

Norbormide; (Rat); Trachea; Urinary bladder; Ca²⁺ channel L-type (Bova, S. (470) 185)

Dynorphin

Gene targeting; Dopamine receptor; Substance P; Enkephalin (Wong, J.Y.F. (472) 39)

Dyskinesia

GMC1111; Parkinson's disease; 6-Hydroxydopamine; Levodopa; Apomorphine; Dopamine stabilizer (Klintenberg, R. (459) 231)

Choreoathetosis; Glutamate; Kynurenic acid; Kynurenine hydroxylase; Movement disorder (Richter, A. (478) 47)

Dopamine; BDNF (brain-derived neurotrophic factor); Parkinson's disease; Behavioral sensitization (Guillin, O. (480) 89)

Eating disorder

Anorexia; Bulimia; Hypothalamus; Peptide; Randomized controlled trial (Södersten, P. (480) 67)

5-HT_{2A} receptor gene; Heritability (Gorwood, P. (480) 163)

1-EBIO

LNCAp; PC-3; Intermediate-conductance K⁺ channel, intermediate-conducting, Ca²⁺-activated; Riluzole; Benign prostatic hyperplasia (Parihar, A.S. (471) 157)

4E-BP1 (4E-binding protein 1)

Angiotensin II; Phosphatidylinositol 3-kinase; Angiotensin AT₁ receptor; mTOR (mammalian target of rapamycin) (Yamakawa, T. (478) 39)

Ebselen

Nitric oxide (NO) donor; Nitrgic transmission; Nitric oxide (NO) synthase; Guanylate cyclase, soluble; Anococcygeus muscle, rat (Che, Y. (462) 161)

ECG (electrocardiogram)

Prulifloxacin; Cardiac risk assessment; QT prolongation; HERG current (Lacroix, P. (477) 69)

Echocardiography

Reperfusion injury; Myocardial infarction; Selectin; Cell adhesion (Onai, Y. (481) 217)

Edaravone

Free radical scavenger; Horizontal vestibulo-ocular reflex; Osmotic pump; Streptomycin; (Guinea pig) (Horiike, O. (464) 75)

Antioxidant; Free radical; Mitochondrion; Ischemia/reperfusion (Okatani, Y. (465) 163)

Edema

Sepsis; Septic shock; Endothelin; Endothelin receptor; Cardiac output; Organ failure (Albertini, M. (474) 129)

EEG (electroencephalogram)

Alfentanil; Anaesthesia; Analgesia; Ketamine; Stereoisomer (Edwards, S.R. (460) 27)

E2F

Smooth muscle cell, vascular; HMG-CoA reductase; Minichromosome maintenance protein (Bruemmer, D. (462) 15)

Efaroxan

β-cell; Insulin secretion; Imidazoline-binding site; KU14R; β-carboline; Clonidine-displacing substance (Cooper, E.J. (482) 189)

Effective refractory period

Mexiletine; Sparfloxacin; Long QT syndrome; Monophasic action potential (Takahara, A. (476) 115)

Efficacy

Vomiting; Locomotor activity; CP55,940; SR141716A; Cannabinoid CB₁ receptor; (Least shrew); G-protein; Potency (Darmani, N.A. (459) 83)

Ehrlich ascites tumour

Natural killer cell; Titanocene; Antitumoural (Valadares, M.C. (473) 191)

Eicosanoid

Dopamine transport; Voltammetry, rotating disk; Arachidonic acid; Fatty acid (Chen, N. (478) 89)

Electrical field stimulation

Cholestasis; NANC (non-adrenergic non-cholinergic) relaxation; Corpus cavernosum, rat; Nitric oxide (NO); Opioid (Sadeghipour, H. (460) 201)

Endothelium; K_{Ca} channel; K_V channel; K_{ATP} channel; Penile small artery (Kun, A. (474) 103)

Urinary bladder, rat; Capsaicin; Cholinergic contraction; Purinergic contraction; Peptidergic response; Streptozotocin diabetes (Benkó, R. (478) 73)

Electrophysiology

Cytisine; Nicotinic receptor, neuronal; Agonist; Antagonist; Partial agonist; Binding; FLIPR (Carbonnelle, E. (471) 85)

GABA_A receptor; Spontaneous activity; Potency; Partial agonist; Oocyte (Mortensen, M. (476) 17)

Cilobradine; Zatebradine; Pacemaker current (*I_p*); Use-dependence; HCN channel (Van Bogaert, P.P. (478) 161)

Ventral tegmental area; Mesolimbic; Synaptic transmission; Drug addiction (Mathon, D.S. (480) 97)

Electroshock, maximal

Lamotrigine; Anticonvulsant; Pharmacokinetics; Pharmacodynamics (Castel-Branco, M. (482) 163)

Elevated plus maze

Stress; Nitric oxide (NO); Open-field (Masood, A. (458) 135)

Elevated plus-maze

Test experience; Anxiety; Antidepressant; Benzodiazepine; (Mouse) (Holmes, A. (459) 221)

Stress; Enhanced anxiety state; State anxiety; Fear-potential; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

EMD 281014

5-HT_{2A} receptor antagonist; M 100907 (Bartoszyk, G.D. (473) 229)

Emesis

Cisplatin; Tachykinin NK₁ receptor antagonist; GR205171; (Pigeon) (Tanihata, S. (461) 197)

Cisplatin; ACTH (adrenocorticotrophic hormone); Metirapone (Sam, T.S.W. (466) 163)

Emetic; Anti-emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (477) 247)

Emetic

Emesis; Anti-emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (477) 247)

U46619; Prostanoid TP receptor; Tachykinin NK₁ receptor; Anti-emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (482) 297)

Emodin

Apoptosis; Caspase; Cervical cancer; Bu 25TK (Srinivas, G. (473) 117)

Endocannabinoid

2-Arachidonoyl glycerol; Cannabinoid receptor; Milk suckling; SR141716A; Cannabidiol (Fride, E. (461) 27)

Cerebellar granule neuron; Ethanol; Anandamide transport; Cannabinoid CB1 receptor (Basavarajappa, B.S. (466) 73)

Endocytosis

Desensitization; GABA_B receptor; Green fluorescent protein (GFP); Receptor dimerization (González-Maeso, J. (481) 15)

Endocytosis rate

Receptor conservation; Receptor affinity; Lysosomal sorting; Endosomal sorting; Selective agonist endocytosis; Buoyant density separation (Parker, S.L. (474) 31)

Endogenous histamine

Clobenpropit; Seizure; Imepip; α -Fluoromethylhistidine (Zhang, L. (482) 169)

Endometrial transformation, rabbit

CP8668; Progesterone receptor modulator, nonsteroidal; T47D; PF1092 (Tabata, Y. (461) 73)

Endomorphin-1

Antinociception; Na⁺,K⁺-ATPase; Ouabain; Tail-flick test (Horvath, G. (458) 291)

Endomorphin-2; Cough reflex; Antitussive effect; μ -Opioid receptor; κ -Opioid receptor (Kamei, J. (467) 219)

Antinociception; Gastrointestinal motility; μ -Opioid receptor; Naloxonazine; Naloxone methiodide (Spampinato, S. (469) 89)

Endosomal sorting

Receptor conservation; Receptor affinity; Endocytosis rate; Lysosomal sorting; Selective agonist endocytosis; Buoyant density separation (Parker, S.L. (474) 31)

Endothelial cell

Angiogenesis; Invasion; Migration; Tumor metastasis; Wf-536 (Nakajima, M. (459) 113)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

Nuclear factor- κ B; Nitric oxide; Endothelin-1; Tumor necrosis factor- α (Ohkita, M. (472) 159)

Enoxaparin; Adhesion; NF- κ B (nuclear factor- κ B) (Manduteanu, I. (477) 269)

Hypoxia; Monolayer permeability; cAMP; ATP; Actin filament (Fan, Y. (481) 33)

Aorta; OP4 receptor; Immunocytochemistry; In situ hybridization; MAP (mitogen-activated protein) kinase (Granata, F. (482) 17)

Endothelial cell, human

Geranylgeranyl transferase inhibitor; Breast cancer cell, human; Metronomic therapy (Bocci, G. (477) 17)

Endothelial cell, umbilical vein, human

KR-31372; K⁺ channel opener, ATP-sensitive; VEGF (vascular endothelial growth factor); p125^{FAK}; KDR/Flk-1 (Kim, K.Y. (465) 219)

endothelial nitric oxide synthase (eNOS)

Irradiation; Endothelium-dependent relaxation; Free radical scavenger; Artery (Zhang, X.-H. (476) 131)

Endothelin

MAP Mitogen-activated protein (kinase); ERK (Extracellular signal-regulated kinase)1/2; Sarafotoxin 6c; ET_B receptor (Uddman, E. (482) 39)

Endothelin-1

Endothelin-1-(1–31); Endothelin ET_A receptor; Endothelin ET_B receptor; Radio receptor binding assay; Lung, porcine (Kitamura, H. (465) 31)

Salt; Hypertension; Kidney, rat; Genetic (Rothermund, L. (468) 209)

Nuclear factor- κ B; Nitric oxide; Endothelial cell; Tumor necrosis factor- α (Ohkita, M. (472) 159)

Cardiac muscle; Neonate, mouse; Na⁺–Ca²⁺ exchanger; [Ca²⁺]_i transient (Nagasaka, T. (472) 197)

Apoptosis; Natriuretic peptide; Cardiac myocyte; Ornithine decarboxylase (Han, B. (474) 15)

Sepsis; Septic shock; Endothelin receptor; Cardiac output; Organ failure; Edema (Albertini, M. (474) 129)

Zucker rat; Blood pressure; Mesenteric artery; Aorta; Noradrenaline; Endothelium (Subramanian, R. (477) 143)

Ischemia; Reperfusion; Acute renal failure; Na⁺/Ca²⁺ exchanger (Ogata, M. (478) 187)

Endothelin-1-(1–31)

Endothelin-1; Endothelin ET_A receptor; Endothelin ET_B receptor; Radio receptor binding assay; Lung, porcine (Kitamura, H. (465) 31)

Endothelin ET_A receptor

Endothelin-1; Endothelin-1-(1–31); Endothelin ET_B receptor; Radio receptor binding assay; Lung, porcine (Kitamura, H. (465) 31)

Hypertension; K⁺ channel; Sympathetic system; Vascular tension; Angiotensin AT₁ receptor; Protein kinase C (Berg, T. (466) 301)

Endothelin ET_B receptor; Urinary bladder; Receptor autoradiography (Yoshida, A. (470) 99)

YM598; Antagonist (Yuyama, H. (478) 61)

Endothelin ET_B receptor

Endothelin-1; Endothelin-1-(1–31); Endothelin ET_A receptor; Radio receptor binding assay; Lung, porcine (Kitamura, H. (465) 31)

Endothelin ET_A receptor; Urinary bladder; Receptor autoradiography (Yoshida, A. (470) 99)

Endothelin receptor

Endothelin receptor antagonist; TA-0201; Prostate, human (Takahashi, M. (467) 185)

Sepsis; Septic shock; Endothelin; Cardiac output; Organ failure; Edema (Albertini, M. (474) 129)

Endothelin receptor antagonist

TA-0201; Endothelin receptor; Prostate, human (Takahashi, M. (467) 185)

Endothelium

Adhesion; Chemokine; Fatty acid; Neutrophil; TNF- α (tumor necrosis factor- α) (Wang, Y. (459) 269)

17 β -Estradiol; Progesterone; Inbred SHR, rat; Aorta; K⁺ channel (Unemoto, T. (472) 119)

Diabetes mellitus; Hemoglobin, glycated; NF- κ B (nuclear factor- κ B); Iron chelator (Pieper, G.M. (472) 127)

Electrical field stimulation; K_{Ca} channel; K_V channel; K_{ATP} channel; Penile small artery (Kun, A. (474) 103)

Protein kinase C; Diabetes mellitus; Smooth muscle; NANC (non-adrenergic, non-cholinergic) nerve; Nitric oxide (NO); Aorta; Corpus cavernosum (Nangle, M.R. (475) 99)

Zucker rat; Blood pressure; Mesenteric artery; Aorta; Noradrenaline; Endothelin-1 (Subramanian, R. (477) 143)

Estrogen receptor; Nitric oxide (NO); Blood vessel (Stirone, C. (478) 35)

Angiotensin-converting enzyme; Nitric oxide (NO); Oxidative stress (Scribner, A.W. (482) 95)

Endothelium-dependent relaxation

Irradiation; endothelial nitric oxide synthase (eNOS); Free radical scavenger; Artery (Zhang, X.-H. (476) 131)

Endothelium-dependent vasodilatation

Coronary flow; Vasoconstriction, coronary; Vasodilatation, coronary; Vasodilator reserve, coronary (Martínez, M.A. (473) 55)

5-HT (5-hydroxytryptamine, serotonin); Hypoxia, intermittent; Pulmonary artery; Pulmonary hypertension; Vasoactive agent (Thomas, B.J. (477) 153)

Coronary flow; Coronary vasoconstriction; Coronary vasodilatation; (Goat) (Fernández, N. (481) 109)

Endothelium derived

NS-398; Cyclooxygenase-2; Aorta, rat; Nitric oxide; SERCA (Ca²⁺ pump); Sarcoplasmic reticulum (Adeagbo, A.S.O. (458) 145)

Endothelium-derived factor

Purine inhibitory neuromodulation; Mesenteric artery; (Hamster) (Thapaliya, S. (461) 129)

Endothelium-derived hyperpolarizing factor

DOCA-salt hypertension; Tempol; Free radical species; Mesenteric vascular bed (Adeagbo, A.S.O. (481) 91)

Endothelium dysfunction

Cyclosporine; Testosterone; Renal vasculature; Gonadectomy (El-Mas, M.M. (468) 217)

Endotoxaemia

Lipopolysaccharide; Tail artery; Vasocontraction (Ralevic, V. (460) 145)

Endotoxemia

Phosphodiesterase inhibition, type IV; Cardiac performance; Ro 20–1724 (Thomas, N.J. (465) 133)

Endotoxic shock

Steroid; Immunomodulation; (*Physalis angulata* L.) (Soares, M.B.P. (459) 107)

Hemodynamics; Ghrelin (Chang, L. (473) 171)

Endotoxin shock

Cinnamyl derivative; Cytokine (Kurokawa, M. (474) 283)

Energy efficiency

Bombesin BB3 receptor (BRS-3); Sibutramine; Serotonin and noradrenaline re-uptake inhibitor (SNRI); Hyperphagia; Animal model (Matsumoto, K. (473) 41)

Enhanced anxiety state

Stress; Elevated plus-maze; State anxiety; Fear-potentiation; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Enkephalin

Gene targeting; Dopamine receptor; Dynorphin; Substance P (Wong, J.Y.F. (472) 39)

Enoxaparin

Endothelial cell; Adhesion; NF- κ B (nuclear factor- κ B) (Manduteanu, I. (477) 269)

Enteric nervous system

Intestine; Stomach; Immune system; Inflammation; Leukotriene; Myenteric plexus; Submucosal plexus (Liu, S. (459) 27)

Submucous plexus; Small intestine; Synaptic transmission; Galanin (Liu, S. (471) 49)

Glutamate; NMDA receptor; Acetylcholine; Colon; (Human) (Giaroni, C. (476) 63)

Opioid receptor; Naltrindole; Diprenorphine (Pig) (Townsend IV, D. (482) 111)

Enterochromaffin-like cell

Histamine; Proton pump inhibitor (Yokota, T. (481) 233)

Enteropathy

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Injury; intestinal (Evans, S.M. (461) 63)

ENU (ethyl-nitrosourea)

Animal model; Mutagenesis; Psychiatric disorder; Behaviour; High-throughput screen; Candidate gene (Ohl, F. (480) 219)

ENU (ethyl-nitrosourea)

Animal model; Mouse mutant; Phenotype-driven screen; Disease gene (Keays, D.A. (480) 205)

Eosinophil

Bradykinin; Bradykinin receptor antagonist; Airway inflammation; Asthma (Gama Landgraf, R. (460) 75)

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; HOE-140; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Epibatidine

Nicotinic acetylcholine receptor; Radioligand; Analgesia; Spinal cord (Nishiyama, T. (470) 27)

Epilepsy

Kindling; Seizure, nicotine-induced; Nicotinic receptor; NMDA receptor; Antiepileptic drug (Löscher, W. (466) 99)

Glutamate receptor, metabotropic; Anticonvulsant; DBA/2 mouse; Temporal lobe epilepsy; Kindling (Moldrich, R.X. (476) 3)

GABA transport; Tiagabine; GAT-1 (GABA transporter-1); GAT-2 (GABA transporter-2); GAT-3 (GABA transporter-3); Tonic conductance; Extrasynaptic (Dalby, N.O. (479) 127)

Epileptiform

Adenosine; Hippocampal slice; Organophosphate; Sarin; (Guinea pig) (Harrison, P.K. (471) 97)

EP₃ receptor

TP receptor; Noradrenaline release; Stomach, rat; Pertussis toxin (Yokotani, K. (459) 187)

Erectile dysfunction

Penile erection; Dopamine D1-like receptor agonist (D'Aquila, P.S. (460) 71)

Phosphodiesterase; Phosphodiesterase type 5 inhibitor; Corpus cavernosum (Qiu, Y. (472) 73)

Corpus cavernosum; Diabetes; Fasudil; Rho-kinase; Y-27632 (Büyükaşar, K. (472) 235)

erg current

Linoleoylamide; GH₃ cell (Liu, Y.-C. (458) 37)

ERK (extracellular-regulated kinase)

Artemisinin; Leukemia; Cell differentiation; PKC (protein kinase C) (Kim, S.H. (482) 67)

ERK (Extracellular signal-regulated kinase)1/2

MAP Mitogen-activated protein (kinase); Sarafotoxin 6c; Endothelin; ET_B receptor (Uddman, E. (482) 39)

Erycristagallin

(*Erythrina mildbraedii*); Arachidonic acid metabolism; 5-Lipoxygenase inhibition; Anti-inflammatory activity (Njamen, D. (468) 67)

(*Erythrina mildbraedii*)

Erycristagallin; Arachidonic acid metabolism; 5-Lipoxygenase inhibition; Anti-inflammatory activity (Njamen, D. (468) 67)

Erythromycin

Airway smooth muscle contraction; Airway hyperresponsiveness; Macrolide antibiotic; Ca²⁺-dependent Cl[−] current (Janssen, L.J. (475) 93)

Escitalopram

5-HT (5-hydroxytryptamine, serotonin); Anxiolytic; Citalopram; *R*-citalopram (Sánchez, C. (464) 155)

Esophageal muscularis mucosae, guinea-pig

β₁-Adrenoceptor; β₂-Adrenoceptor; β₃-Adrenoceptor; Smooth muscle relaxation; Messenger RNA (mRNA) (Horinouchi, T. (473) 79)

Essential oil

(−)-Linalool; Antinociceptive activity; Acetic acid-induced writhing response; Hot plate test; Locomotor activity (Peana, A.T. (460) 37)

17β-Estradiol

Progesterone; Endothelium; Inbred SHR, rat; Aorta; K⁺ channel (Unemoto, T. (472) 119)

Estrogen

Infarct size; Progestin; Raloxifene; Hypercholesterolemia (Sbarouni, E. (467) 163)

Genomic; Hypothalamus; Sex; Arousal (Mong, J. (480) 229)

Phytoestrogen; Cerebral artery; Ca²⁺ channel; Nitric oxide (NO); Stroke (Torregrosa, G. (482) 227)

Estrogen receptor

Nitric oxide (NO); Blood vessel; Endothelium (Stirone, C. (478) 35)

ET_B receptor

MAP Mitogen-activated protein (kinase); ERK (Extracellular signal-regulated kinase)1/2; Sarafotoxin 6c; Endothelin (Uddman, E. (482) 39)

Ethamsylate

Antioxidant; Arachidonate; Vascular permeability (Hannaert, P. (466) 207)

Ethanol

GRP (glucose-regulated stress protein); K⁺-channel HERG; SH-SY5Y; Neuroblastoma cell, human (Mühlbauer, E. (459) 121)

Locus coeruleus; Dorsal raphe nucleus; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin); 5-HIAA (5-hydroxyindoleacetic acid); Tryptophan; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

Social memory; Olfactory memory; Naloxone; Scopolamine; (Rat) (Prediger, R.D.S. (462) 115)

Cerebellar granule neuron; Anandamide transport; Endocannabinoid; Cannabinoid CB1 receptor (Basavarajappa, B.S. (466) 73)

Gaboxadol; THIP; Benzodiazepine (Storustovu, S. (467) 49)

Nicotine; Nicotinic receptor; Dopamine, mesolimbic; Microdialysis; (Rat) (Ericson, M. (467) 85)

Apoptosis; Cytochrome *c*; Caspase-3; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Neuron; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

GHB (γ-hydroxy butyrate); NCS 382; (Rat); Schedule-controlled behavior; Drug interaction (Lamb, R.J. (470) 157)

StAR (steroidogenic acute regulatory protein); Neuroactive steroid (Khisti, R.T. (473) 225)

Cocaine; Dopamine release; Nucleus accumbens; Non-exocytotic; Microdialysis (Yan, Q.-S. (477) 37)

Narcosis; Dopamine D2 receptor; Conditioned avoidance; Ultrasonic call; Pharmacokinetic (Castorina, M. (477) 129)

Cross-tolerance; Flunitrazepam; GABA_A receptor; Gaboxadol; THIP; Hypnotic; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

Ethanol withdrawal, repeated

Amino acid; Microdialysis; Hippocampus (Dahchour, A. (459) 171)

Eticlopride

Pramipexole; Vesicular monoamine transporter; Parkinson's disease; Vesicle function (Truong, J.G. (474) 223)

EUK-8

Oxygen radical; Superoxide dismutase; EUK-134; Superoxide anion; Multiple organ failure; Shock (McDonald, M.C. (466) 181)

Evans blue

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Excitation–contraction coupling

Ca²⁺ current, L-type; Nitric oxide (NO); Contraction (Au, A. (476) 45)

Excitatory amino acid

Cerebral circulation; Signal transduction; Neurotrauma (Armstead, W.M. (474) 249)

Excitatory amino acid receptor

Phoneutria nigriventer venom; Hyperalgesia; Vanilloid receptor; Tachykinin receptor (Zanchet, E.M. (467) 111)

Excitotoxicity

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Neuroprotection; Pentacyclo-undecylamine (Geldenhuys, W.J. (458) 73)

Exendin-4

Insulin; Glucagon; Somatostatin (Silvestre, R.A. (469) 195)

Exocytosis

Glucagon; Imidazoline compound; Insulin; Pancreatic islet (Høy, M. (466) 213)

Local anaesthetic; Procaine; Fluid-phase endocytosis; Fibroblast; Skin, human; Neutral red uptake assay (Michalik, M. (475) 1)

Stilbene; Mast cell; Cl[−] channel; Diethylstilbestrol; Hexestrol (Roloff, T. (478) 81)

Exocytotic release

Cannabinoid; Hippocampus; Nerve terminal; Ca²⁺ channel (Wang, S.-J. (469) 47)

Experimental therapeutics

Malignant mesothelioma; Antiproliferative activity; Apoptosis (de Cupis, A. (473) 83)

Expression

Histamine H₃ receptor; (Monkey); Cloning; G-protein coupled receptor; Pharmacology (Yao, B.B. (482) 49)

Extracellular acidification rate

Apoptosis; Microphysiometry; Na⁺/H⁺ antiporter; Leukemic cell line (Khare, S. (465) 23)

Extracellular unitary recording

Locus coeruleus; Noradrenaline; Microdialysis; Alnespirone; Clonidine; α₂-Adrenoceptor; 5-HT_{1A} receptor (Astier, B. (459) 17)

Extrapyrmidal side effect

Muscarinic receptor; Catalepsy; Haloperidol; Scopolamine; Knockout mouse (Karasawa, H. (468) 15)

Extrasynaptic

GABA transport; Tiagabine; GAT-1 (GABA transporter-1); GAT-2 (GABA transporter-2); GAT-3 (GABA transporter-3); Epilepsy; Tonic conductance (Dalby, N.O. (479) 127)

Extrasynaptic receptor

GABA_A receptor; GABA (γ-aminobutyric acid); Inhibition; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

Eye

Histamine; Nitric oxide (NO); Nadroparine; Hypersensitivity (Giannoulaki, V. (481) 119)

F-actin

Piperlactam S; Complement 5a; RAW264.7 macrophage; Filopodia; Cdc42 (Chiou, W.-F. (458) 217)

Famotidine

Monophasic action potential; Torsades de pointe; HERG; QT interval; Atrioventricular block (Sugiyama, A. (466) 137)

Fas ligand

Roxithromycin; Apoptosis; Asthma; Bcl-2 (Ogawa, N. (474) 273)

Fast inhibitory junction potential

Colon, murine; Apamin; ATP; PACAP (pituitary adenylate cyclase activating peptide); Purinoceptor (Serio, R. (460) 183)

Fasudil

Corpus cavernosum; Diabetes; Erectile dysfunction; Rho-kinase; Y-27632 (Büyükaşar, K. (472) 235)

Fatty acid

Adhesion; Chemokine; Endothelium; Neutrophil; TNF-α (tumor necrosis factor-α) (Wang, Y. (459) 269)

Dopamine transport; Voltammetry, rotating disk; Arachidonic acid; Eicosanoid (Chen, N. (478) 89)

Glucocorticoid; Leptin; Adiponectin; PPARγ (peroxisome proliferator-activated receptor); Hypothalamus (van Dijk, G. (480) 31)

Fatty acid synthesis

VLDL (very-low-density lipoprotein) particle production; Sterol synthesis; HMG-CoA reductase; Acetyl-CoA carboxylase; VLDL (very low density lipoprotein) secretion (Ohmori, K. (471) 69)

Fear

Animal model; Defensive behavior; Anxiety; Coping, active; Coping, passive; Avoidance; Marble-burying; Shock-prod burying (De Boer, S.F. (463) 145)

Amygdala; Bed nucleus of the stria terminalis; Anxiety; Stress; CRF (corticotropin releasing hormone) (Walker, D.L. (463) 199)

Learning; Memory; Amygdala; Hippocampus; Context (Sanders, M.J. (463) 217)

Fear-potentiation

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Feeding

Nucleus accumbens; Dopamine; Leptin; Microdialysis (Krügel, U. (482) 185)

Feeding behaviour

Cocaine; 5-HT (5-hydroxytryptamine, serotonin); 5-HT_{2C} receptor knock-out mouse; Drug self-administration; RNA editing (Higgins, G.A. (480) 151)

Fee radical

Edaravone; Antioxidant; Mitochondrion; Ischemia/reperfusion (Okatani, Y. (465) 163)

Fe ion

Cerebellar granule cell; Apoptosis; Tetramethylpyrazine; Ferulic acid (Zhang, Z. (467) 41)

Felbamate

Lamotrigine; Pentylentetrazole; 4-Aminopyridine; Drug interaction (Cuadrado, A. (465) 43)

Fenoldopam

Loop of Henle; Microperfusion, in vitro; Arachidonic acid; Protein kinase C (Grider, J.S. (473) 185)

Fentanyl

Phenethylamine; Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); μ -Opioid receptor; Head shake; DOI; 5-HT_{2A} receptor; Buprenorphine (Marek, G.J. (474) 77)

Ferulic acid

Cerebellar granule cell; Fe ion; Apoptosis; Tetramethylpyrazine (Zhang, Z. (467) 41)

Fetal calf serum

Serofendic acid; L-Glutamate; Neurotoxicity; Nitric oxide (NO); Cerebral cortex (Taguchi, R. (477) 195)

Fever

Nitric oxide (NO) synthase; Heme oxygenase; PDGF (platelet-derived growth factor) (Almeida, M.C. (467) 133)

FG-7142

CART-(55–102); CART-(62–102); Anxiety (Chaki, S. (464) 49)

Fibrinolysis

Carboxypeptidase B; Microthrombosis; MGPA (DL-Mercaptomethyl-3-guanidinoethylthiopropionic acid); Potato-derived carboxypeptidase inhibitor (CPI) (Muto, Y. (461) 181)

Fibroblast

Local anaesthetic; Procaine; Fluid-phase endocytosis; Exocytosis; Skin, human; Neutral red uptake assay (Michalik, M. (475) 1)

Figure-eight maze

WAY 100635; Marmoset, monkey; Anxiety; Taxidermized predator (Barros, M. (482) 197)

Filopodia

Piperlactam S; Complement 5a; RAW264.7 macrophage; F-actin; Cdc42 (Chiou, W.-F. (458) 217)

Fixed-interval schedule

Sequential three-key drug discrimination; Drug discrimination retention; Pentobarbital; D-Amphetamine; Morphine; Caffeine; (Pigeon) (Li, M. (476) 79)

Fixed ratio

NMDA; Nitric oxide (NO); Operant behavior; (Rat) (Smith, J.B. (471) 121)

FK3657

Bradykinin; Bradykinin B₂ receptor; Bradykinin receptor antagonist; Asthma; Rhinitis (Hirayama, Y. (467) 197)

Cyclosporine A; Ileum, guinea pig; Tolerance; Dependence; Morphine (Mehr, S.E. (467) 205)

FK506

Hypoxia-reoxygenation; JNK₁/SAPK₁; Apoptosis; Necrosis; Hepatocyte; (Rat) (Crenesse, D. (473) 177)

Oxidative stress; Neurodegeneration; Tardive dyskinesia; Vacuous chewing movement; Neuroleptic; Neuroprotection (Singh, A. (477) 87)

Flavonoid

Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; TNF- α (tumor necrosis factor- α); Dismal fate (Villegas, I. (460) 209)

GABA (γ -aminobutyric acid); GABA_A receptor; GABA_C receptor; Benzodiazepine (Goutman, J.D. (461) 79)

Rotenone; Oxidative stress; SH-SY5Y cell; Parkinson's disease (Molina-Jimenez, M.F. (472) 81)

Flexor reflex

Cyclobenzaprine; Amitriptyline; Cyproheptadine; Spinal reflex (Honda, M. (458) 91)

FLIPR

Cytisine; Nicotinic receptor, neuronal; Agonist; Antagonist; Partial agonist; Binding; Electrophysiology (Carbannelle, E. (471) 85)

Fluorometric imaging plate reader; 5-HT₆ receptor; chimeric G-protein; Ca²⁺ signaling (Zhang, J.Y. (472) 33)

Flourescence spectroscopy

Structural probing; Functional probing; Biogenic amine (Rasmussen, S.G.F. (479) 13)

Flow cytometry

Diazepam; Neutrophil; Oxidative burst; Peripheral benzodiazepine receptor; Corticosterone; Tolerance development (da Silva, F.R. (478) 97)

Fluid-phase endocytosis

Local anaesthetic; Procaine; Exocytosis; Fibroblast; Skin, human; Neutral red uptake assay (Michalik, M. (475) 1)

Flumazenil

Baicalein; Baicalin; Anxiolytic-like effect; Vogel conflict test; Chlordiazepoxide (Liao, J.-F. (464) 141)

Morphine; Tolerance; Sex; Analgesia; (Rat) (Holtman Jr., J.R. (470) 149)

5-HT_{1A} receptor antagonist; *p*-Chloroamphetamine; Conflict drinking test; (Rat) (Wesołowska, A. (471) 27)

Flunitrazepam

Cross-tolerance; Ethanol; GABA_A receptor; Gaboxadol; THIP; Hypnotic; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

Fluo-3

Ca²⁺ channel blocker; Proliferation; Human epidermoid carcinoma A431 cell; Intracellular Ca²⁺; Fura-2; Amlodipine (Yoshida, J. (472) 23)

Fluorescence microscopy

Metallothionein; Zn²⁺ trafficking; Transition element; Zinquin; Mitochondrion; Cultured cell; (Rat) (Colvin, R.A. (479) 171)

α-Fluoromethylhistidine

Clobenpropit; Seizure; Endogenous histamine; Immapip (Zhang, L. (482) 169)

Fluorometric imaging plate reader

FLIPR; 5-HT₆ receptor; chimeric G-protein; Ca²⁺ signaling (Zhang, J.Y. (472) 33)

Fluoroquinolone

Hippocampus; K⁺ current, transient; K⁺ current, delayed rectifier (Zhang, L.-R. (462) 9)

5-Fluorouracil

Apoptosis; Apoptosis regulating protein; Carcinogenesis, cervical; Growth medium (Mo, B. (467) 15)

Fluoxetine

Serotonin; 5-HT_{1A} receptor; 8-OH-DPAT; Buspirone; Short-term memory (Pache, D.M. (477) 205)

Flushing

Ca²⁺ channel antagonist; Nifedipine; Ovariectomy; Menopause; Tail skin temperature (Kai, M. (481) 79)

Fluvoxamine

CP-93,129; 5-HT (5-hydroxytryptamine, serotonin); Selective reuptake inhibitor; Caudate putamen; Autoreceptor; Heteroreceptor (De Groote, L. (476) 71)

FMRamide-like (Phe-Met-Arg-Phe-NH₂-like) peptide

Myocardium; Reperfusion injury; Oxygen free radical; Melanocortin MC₃ receptor; γ-MSH (γ-melanocyte-stimulating hormone) (Mioni, C. (477) 227)

Food consumption

(Selected rat line); Alcohol preference; Risperidone; Locomotor activity (Ingman, K. (468) 121)

Food intake

Cholecystokinin; CCK₁ receptor antagonist; A70104; Devazepide; Satiety (Ebenezer, I.S. (461) 113)

MCH (melanin-concentrating hormone); Body weight; Neuropeptide Y; Obesity (Shearman, L.P. (475) 37)

Neuropeptide Y; Obesity; Transgenic animal; Satiety signal (Herzog, H. (480) 21)

Forced swimming test

Benzodiazepine receptor, peripheral-type; PK11195; Ro5-4864; Depression; Steroid; (Mouse) (Gavioli, E.C. (471) 21)

Forced swim test

8-OH-DPAT (8-hydroxy-2-di-n-propylamino tetralin); Imipramine; 5-HT_{1A} receptor; Depression treatment-resistant (Kitamura, Y. (481) 75)

Formalin test

Anticonvulsant; Chronic constriction injury; Neuropathic pain; Spared nerve injury; Tail flick (Blackburn-Munro, G. (460) 109)

Opiate; Morphine; Pain; Analgesia; (Rat) (Sevostianova, N. (462) 109)

Hyperalgesia; Migraine; Nitric oxide (NO); Pain; Tail-flick test (Tassorelli, C. (464) 159)

Chronic pain; Melanocortin MC₄ receptor (Bellasio, S. (482) 127)

FP prostanoid receptor

Cyclooxygenase-2; β-catenin signaling (Fujino, H. (465) 39)

FR171113

PAR-1 antagonist; Thrombin receptor; Arterial thrombosis (Kato, Y. (473) 163)

cGMP; Phosphodiesterase type 5 inhibitor (Hosogai, N. (477) 171)

F344 rat

Antinociception; Lewis rat; Morphine; Yohimbine; Clonidine (Herradón, G. (465) 251)

Free radical

Na⁺/H⁺ exchange; Na⁺/Ca²⁺ exchange; Heart, isolated, rat; Ischemia/reperfusion injury; Cariporide; KB-R7943; Nitric oxide (NO) (Mączewski, M. (461) 139)

Melatonin; Antioxidant; Mitochondria; Ischemia/reperfusion (Okatani, Y. (469) 145)

Septic shock; Propofol; Organ dysfunction; Nitric oxide (NO) (Tsao, C.-M. (477) 183)

Free radical scavenger

Edaravone; Horizontal vestibulo-ocular reflex; Osmotic pump; Streptomycin; (Guinea pig) (Horiike, O. (464) 75)

Irradiation; Endothelium-dependent relaxation; endothelial nitric oxide synthase (eNOS); Artery (Zhang, X.-H. (476) 131)

Free radical species

Endothelium-derived hyperpolarizing factor; DOCA-salt hypertension; Tempol; Mesenteric vascular bed (Adeagbo, A.S.O. (481) 91)

FRET (fluorescence resonance energy transfer)

Na⁺-Cl⁻-coupled neurotransmitter transporter; Neurotransmitter: Na⁺ symporter; Microscopy; Oligomer; Dimer (Sitte, H.H. (479) 229)

Fructose-1,6-bisphosphatase

Glucose output, hepatic; Gluconeogenesis; Glucose-6-phosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Fruit fly

GHB (γ-hydroxybutyric acid); GABA (γ-aminobutyric acid); Behavior (Satta, R. (473) 149)

Functional affinity

α₂-Adrenoceptor antagonist; Antipsychotic; Cognitive function; Clozapine; Iloperidone (Kalkman, H.O. (462) 33)

Functional probing

Structural probing; Biogenic amine; Fluorescence spectroscopy (Rasmussen, S.G.F. (479) 13)

Functional regulation

DAT (dopamine transporter); Trafficking; Presynaptic receptor; Substrate-mediated regulation (Gulley, J.M. (479) 139)

Fura-2

Palytoxin; Ca^{2+} , cytosolic, free; Spleen cell (Sato, E. (465) 9)

Nantenine; Aporphine; Ca^{2+} entry blocker; Smooth muscle; Vas deferens, rat (Ribeiro, R.d.A. (470) 37)

Ca^{2+} channel blocker; Proliferation; Human epidermoid carcinoma A431 cell; Intracellular Ca^{2+} ; Fluo-3; Amlodipine (Yoshida, J. (472) 23)

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; HOE-140; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Ca^{2+} intracellular (Eric, J. (475) 129)

Furosemide

Loop diuretic; Vasoactivity; Resistance artery; (Human) (Pickkers, P. (466) 281)

GABA_A–benzodiazepine receptor

Mouse Defense Test Battery; Anxiety; Panic; 5-HT (5-hydroxytryptamine, serotonin); Neuropeptide (Blanchard, D.C. (463) 97)

GABA (γ -aminobutyric acid)

Flavonoid; GABA_A receptor; GABA_C receptor; Benzodiazepine (Goutman, J.D. (461) 79)

Glutamate release; Hippocampus; Microdialysis, brain; Baclofen; Ca^{2+} influx (Tanaka, S. (465) 61)

Nitric oxide (NO); Sodium nitroprusside; Hippocampus; Microdialysis (Hada, J. (467) 119)

GABA_A receptor; Extrasynaptic receptor; Inhibition; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

Somatostatin; GABA_B receptors; Glutamate; Hippocampus; Brain, rat (Nyitrai, G. (478) 111)

GABA_A receptor; HEK 293 cell; Diazepam; Muscimol; Radioligand binding (Peričić, D. (482) 117)

GABA (γ -aminobutyric acid)

Fruit fly; GHB (γ -hydroxybutyric acid); Behavior (Satta, R. (473) 149)

GABA_A receptor

Flavonoid; GABA (γ -aminobutyric acid); GABA_C receptor; Benzodiazepine (Goutman, J.D. (461) 79)

Ginkgo biloba; Bilobalide; Picrotoxinin; Bicuculline; Voltage clamp, two-electrode; *Xenopus* oocyte (Huang, S.H. (464) 1)

Jaw movement; Superior colliculus; Ventrolateral striatum; Dopamine receptor; Acetylcholine receptor; (Rat) (Adachi, K. (464) 147)

GABA (γ -aminobutyric acid); Extrasynaptic receptor; Inhibition; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

(Swiss Webster mouse); Benzodiazepine coupling; Diazepam; DMCM; Benzodiazepine inverse agonist; Benzodiazepine Type-1 receptor agonist (Davies, D.L. (469) 37)

Diazepam; Neonatal reflex; Pentylentetrazol; Convulsion (Nicosia, A. (469) 103)

Spontaneous activity; Potency; Partial agonist; Oocyte; Electrophysiology (Mortensen, M. (476) 17)

HEK 293 cell; GABA (γ -aminobutyric acid); Diazepam; Muscimol; Radioligand binding (Peričić, D. (482) 117)

Dopamine; Dorsolateral, striatum; Cortex prefrontal; Corticostriatal pathway (Matsumoto, M. (482) 177)

Cross-tolerance; Ethanol; Flunitrazepam; Gaboxadol; THIP; Hypnotic; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

GABA_A receptor complex

Retigabine; TBOB; Synergy; Isobole method; Molecular model (van Rijn, C.M. (464) 95)

GABA_B receptor

L-Amino acid; Dipeptide; Baclofen; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Baclofen; Breath test; Gastric emptying; (Mouse) (Symonds, E. (470) 95)

cAMP; CGP7930; Allosteric modulation; Brain, rat (Onali, P. (471) 77)

Desensitization; Endocytosis; Green fluorescent protein (GFP); Receptor dimerization (González-Maeso, J. (481) 15)

GABA_B receptors

Somatostatin; GABA (γ -aminobutyric acid); Glutamate; Hippocampus; Brain, rat (Nyitrai, G. (478) 111)

GABA_C receptor

Flavonoid; GABA (γ -aminobutyric acid); GABA_A receptor; Benzodiazepine (Goutman, J.D. (461) 79)

GABAergic mechanism

Levetiracetam; Paired-pulse inhibition/facilitation; Antiepileptic drug; Dentate gyrus, rat (Margineanu, D.G. (466) 255)

GABA receptor

Anxiety; Social interaction; Neuropeptide; 5-HT (5-hydroxytryptamine, serotonin); Brain region (File, S.E. (463) 35)

GABA transport

Tiagabine; GAT-1 (GABA transporter-1); GAT-2 (GABA transporter-2); GAT-3 (GABA transporter-3); Epilepsy; Tonic conductance; Extrasynaptic (Dalby, N.O. (479) 127)

Gaboxadol

THIP; Benzodiazepine; Ethanol (Stórustovu, S.I. (467) 49)

Cross-tolerance; Ethanol; Flunitrazepam; GABA_A receptor; THIP; Hypnotic; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

Galanin

Enteric nervous system; Submucous plexus; Small intestine; Synaptic transmission (Liu, S. (471) 49)

Galanin receptor

Agonist; Antinociception; Hyperalgesia; Neuropathy; Pain; Spinal cord (Wu, W.-P. (482) 133)

Ganglionic blockade

Apelin; Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Capacitance vessel (Cheng, X. (470) 171)

Ganglioside biosynthesis

L-PDMP; Spatial cognition; 8-Arm radial maze; Apoptosis (Yamagishi, K. (462) 53)

Garlic

Aminoglycoside; Superoxide dismutase; Glutathione peroxidase; Oxidative stress; Nephrotoxicity (Pedraza-Chaverri, J. (473) 71)

Gastrectomy

Salivary gland; Cysteamine; Duodenal ulcer; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Gastric emptying

Baclofen; Breath test; GABA_B receptor; (Mouse) (Symonds, E. (470) 95)

Gastric mucosa

Central nervous system; Histamine H₂ receptor (Fukushima, Y. (468) 47)

Gastric pentadecapeptide BPC 157 (PLD-116)

Salivary gland; Cysteamine; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Cytoprotection; Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Gastric ulcer

Cell proliferation; Morphine; Mucus; Stress; Myeloperoxidase (Cho, C.H. (460) 177)

Crotonin; Semi-synthetic; V79 cell; Cytotoxicity; Hepatocyte toxicity (Albino de Almeida, A.B. (472) 205)

Gastrin-releasing peptide

Pancreas; Cholecystokinin; Secretin; Leptin; Ghrelin; Pancreatic polypeptide (Konturek, S.J. (481) 1)

Gastrin releasing peptide receptor

PD176252; Antagonist; Lung cancer; Proliferation (Moody, T.W. (474) 21)

Gastrointestinal motility

5-HT (5-hydroxytryptamine, serotonin); 5-HT₃ receptor antagonist; Benzimidazole derivative (Pascual, D. (462) 99)

Antimuscarinic; 5-HT receptor; Muscarinic receptor; (Rat) (Axelsson, L.-G. (467) 211)

Endomorphin-1; Antinociception; μ -Opioid receptor; Naloxonazine; Naloxone methiodide (Spampinato, S. (469) 89)

Gastrointestinal transit

Tramadol; Non-steroidal anti-inflammatory drug (NSAID); Antagonism; Interaction (Planas, E. (482) 223)

GAT-1 (GABA transporter-1)

GABA transport; Tiagabine; GAT-2 (GABA transporter-2); GAT-3 (GABA transporter-3); Epilepsy; Tonic conductance; Extrasynaptic (Dalby, N.O. (479) 127)

Gazeliuss nerve injury

Allodynia; Antiarrhythmic; Anticonvulsant; Hyperalgesia; Spared nerve injury (Erichsen, H.K. (458) 275)

GBR 12909

Rimcazole; Dopamine (Katz, J.L. (468) 109)

GCP II

Amyotrophic lateral sclerosis; Glutamate; NAAG; NAALADase; Neuroprotection; Motor neuron disorder (Thomas, A.G. (471) 177)

GDNF (Glia-derived neurotrophic factor)

DADLE ([D-Ala², D-Leu⁵]enkephalin); NGF (Nerve growth factor) (Hayashi, T. (464) 237)

GEA3162

S-Nitrosylation; Cation entry; Ca²⁺, intracellular, free; Cyclopiazonic acid; Neutrophil (Wang, J.-P. (458) 243)

Gender

Diabetes; Vasopressin; Renal artery; Coronary artery; K⁺ channel (Sanz, E. (471) 35)

Gene expression

Marijuana; Drug abuse (Casu, M.A. (459) 97)

Angiotensin II; Microarray; Transcription factor; Renal cell, human; Proximal tubule (Braam, B. (464) 87)

Antisense; Cocaine; Conditioned place preference; Convulsion; Locomotor activity; Microarray; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

Analgesic; Animal model; Nociception; Polymerase chain reaction (PCR); Quantitative PCR; (Rat) (Hofmann, H.A. (470) 17)

Lycium barbarum; Polysaccharide-protein complex; Cytokine; Bioassay (Gan, L. (471) 217)

Norepinephrine transporter; Alternative splicing; Methamphetamine; Uptake inhibitor (Kitayama, S. (479) 65)

Gene targeting

Dopamine receptor; Dynorphin; Substance P; Enkephalin (Wong, J.Y.F. (472) 39)

Genetic

Salt; Hypertension; Endothelin; Kidney, rat (Rothermund, L. (468) 209)

Anorexia; Hypothalamus; Mouse model; Positional cloning; Neuropeptide Y; AgRP (agouti-related protein); POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Psychosis; Linkage; Association; 5-HT (5-hydroxytryptamine, serotonin); Proline; Neuregulin (Collier, D.A. (480) 177)

Genistein

Peroxyinitrite; Preconditioning; Tyrosine kinase; Tyrphostin (Söylemez, S. (464) 163)

Phytoestrogen; Vasodilatation; Smooth muscle (Lee, M.Y.K. (481) 227)

Genomic

Estrogen; Hypothalamus; Sex; Arousal (Mong, J. (480) 229)

Genotype

Anorexia nervosa; Phenotype; Obesity; Trait; Hyperactivity; Anxiety (Kas, M.J.H. (480) 13)

Geranylgeranyl transferase inhibitor

Endothelial cell, human; Breast cancer cell, human; Metronomic therapy (Bocci, G. (477) 17)

Germinal vesicle breakdown

DIF-1; MAP (mitogen-activated protein) kinase; cAMP (Kubohara, Y. (460) 93)

GFAP (glial fibrillary acidic protein)

Diabetes; Streptozotocin; Lipid peroxidation; Hippocampus; Cortex (Baydas, G. (462) 67)

GHB (γ -hydroxy butyrate)

Ethanol; NCS 382; (Rat); Schedule-controlled behavior; Drug interaction (Lamb, R.J. (470) 157)

GHB (γ -hydroxybutyric acid)

Fruit fly; GABA (γ -aminobutyric acid); Behavior (Satta, R. (473) 149)

GH₃ cell

Linoleoylamide; *erg* current (Liu, Y.-C. (458) 37)

Ghrelin

Endotoxic shock; Hemodynamics (Chang, L. (473) 171)

Ghrelin derivative, endogenous; Growth hormone secretagogue; GH secretagogues receptor; Cardiac contractility; Ca²⁺ current (Bedendi, I. (476) 87)

Leptin; Proopiomelanocortin; Agouti-related peptide; Neuropeptide Y; Peptide YY(3–36) (Cowley, M.A. (480) 3)

Pancreas; Cholecystokinin; Secretin; Gastrin-releasing peptide; Leptin; Pancreatic polypeptide (Konturek, S.J. (481) 1)

Ghrelin derivative, endogenous

Ghrelin; Growth hormone secretagogue; GH secretagogues receptor; Cardiac contractility; Ca²⁺ current (Bedendi, I. (476) 87)

GH secretagogues receptor

Ghrelin; Ghrelin derivative, endogenous; Growth hormone secretagogue; Cardiac contractility; Ca²⁺ current (Bedendi, I. (476) 87)

Ginkgo biloba

Bilobalide; Picrotoxinin; Bicuculline; GABA_A receptor; Voltage clamp, two-electrode; *Xenopus* oocyte (Huang, S.H. (464) 1)

Ginseng

Ginsenoside; Protein kinase C; K⁺ channel; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Dopamine; Parkinson's disease; Saponin; Oxidative stress; Apoptosis (Chen, X.-C. (473) 1)

Ginsenoside

Ginseng; Protein kinase C; K⁺ channel; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Global ischemia

Delayed neuronal death; Hippocampus; Cerebral ischemia; Locomotor activity; (Mongolian gerbil); Neuroprotective drug (Katsuta, K. (467) 103)

Glomerulopathy

Low-molecular-weight heparin; Adriamycin; Glycosaminoglycan; Oxidative stress (Deepa, P.R. (478) 199)

Glucagon

Exocytosis; Imidazoline compound; Insulin; Pancreatic islet (Høy, M. (466) 213)

Exendin-4; Insulin; Somatostatin (Silvestre, R.A. (469) 195)

Glucocorticoid

Cardiomyocyte; Cyclo-oxygenase-2; Cytokine; Annexin-1; Nitric oxide (NO) synthase 2 (Ritchie, R.H. (461) 171)

Cisplatin; Anti-emetic; 5-HT₃ receptor; Delayed emesis (Sam, T.S.W. (472) 135)

Diabetes; Systemic anaphylaxis; Mast cell (Carvalho, V.F. (472) 221)

Fatty acid; Leptin; Adiponectin; PPAR γ (peroxisome proliferator-activated receptor); Hypothalamus (van Dijk, G. (480) 31)

Adrenalectomy; Atopic dermatitis; RU-486; Scratching behavior (Hirayama, K. (481) 59)

Glucocorticoid receptor antagonist

Stress; Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potentiation; Allostasis; Allostasis state; Allostasis load; Corticotropin-releasing factor; Corticosteroid; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Glucocorticosteroid

Allergen; Allergic pulmonary inflammation; Asthma; Lung; Magnetic resonance imaging (MRI); Mitogen-activated protein kinase inhibitor; Oedema; Oedema resolution (Tigani, B. (482) 319)

Gluconeogenesis

Adenosine; A_{2B} receptor; Glycogenolysis; Hepatocyte, rat; cAMP (Yasuda, N. (459) 159)

Glucose output, hepatic; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Glucose, blood

Glucose output, hepatic; Gluconeogenesis; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; YM440 (Kurosaki, E. (468) 151)

Glucose output, hepatic

Gluconeogenesis; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Glucose-6-phosphatase

Glucose output, hepatic; Gluconeogenesis; Fructose-1,6-bisphosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Glutamate

Movement disorder; Paroxysmal choreoathetosis (Richter, A. (458) 107)

Indomethacin; 8-OH-dG; Reperfusion injury; Cerebral blood flow; Reactive oxygen species (Miyamoto, O. (459) 179)

Zotepine; Clozapine; Schizophrenia; Dizocilpine (MK-801); (Rat) (Okamura, N. (461) 93)

Adenosine A_{2A} receptor; Parkinson's disease; Striatum; Microdialysis (Corsi, C. (464) 33)

Amyotrophic lateral sclerosis; GCP II; NAAG; NAALADase; Neuroprotection; Motor neuron disorder (Thomas, A.G. (471) 177)

NMDA receptor; Acetylcholine; Enteric nervous system; Colon; (Human) (Giaroni, C. (476) 63)

Choreoathetosis; Dyskinesia; Kynurenic acid; Kynurenine hydroxylase; Movement disorder (Richter, A. (478) 47)

Somatostatin; GABA_B receptors; GABA (γ -aminobutyric acid); Hippocampus; Brain, rat (Nyitrai, G. (478) 111)

Neutral amino acid transporter; ASC (Kanai, Y. (479) 237)

Spinal synaptic transmission; Anoxia; Inhibitory transmission; Creatine phosphate (Jha, A. (481) 189)

Glutamate receptor, metabotropic

Epilepsy; Anticonvulsant; DBA/2 mouse; Temporal lobe epilepsy; Kindling (Moldrich, R.X. (476) 3)

Glutamate release

GABA (γ -Aminobutyric acid); Hippocampus; Microdialysis, brain; Baclofen; Ca^{2+} influx (Tanaka, S. (465) 61)

Glutamate transporter

Neurodegeneration; Glutamate uptake; Substrate; Inhibitor (Mennini, T. (479) 291)

Glutamate uptake

Nicotine; Glutamine synthetase; Na^+/K^+ ATPase (Lim, D.K. (476) 179)

Glutamate transporter; Neurodegeneration; Substrate; Inhibitor (Mennini, T. (479) 291)

Glutamine synthetase

Nicotine; Glutamate uptake; Na^+/K^+ ATPase (Lim, D.K. (476) 179)

Glutathione

Semicarbazide-sensitive amine oxidase; Monoamine oxidase; Hydrogen peroxide; Isoprenaline; Tyramine; Adipose cell (Visentin, V. (466) 235)

Quercetin; Antioxidant; Prooxidant; Malondialdehyde (Choi, E.J. (482) 281)

Glutathione peroxidase

Antitumor activity; Catalase; Hydroselenite; Morphology; Nitric oxide (NO); Selenium (Arsenyan, P. (465) 229)

Garlic; Aminoglycoside; Superoxide dismutase; Oxidative stress; Nephrotoxicity (Pedraza-Chaverrí, J. (473) 71)

Honokiol; Reactive oxygen species; NADPH oxidase; Myeloperoxidase; Cyclooxygenase; Protein kinase C (Liou, K.-T. (475) 19)

Glutathione reductase

Nitrosourea; Oxidative stress; Cation channel; Cl^- channel; Ca^{2+} (Doroshenko, N. (476) 185)

Glyburide

Interleukin-18; Lipopolysaccharide; Monocyte; Inflammation; Purinoreceptor subtype $\text{P}_{2\text{x}7}$ (Mühl, H. (482) 325)

Glycine receptor

Anaesthetic, intravenous; Barbiturate; Propofol (Hadipour-Jahromy, M. (477) 81)

Glycine transport

Neurotransmission; GLYT1 (glycine transporter 1); GLYT2 (glycine transporter 2); NMDA receptor; Central nervous system (Aragón, C. (479) 249)

Glycogen

Nicotine; Insulin resistance; Obesity; Zucker fatty rat (Liu, R.-H. (458) 227)

Glycogenolysis

Adenosine; $\text{A}_{2\text{B}}$ receptor; Gluconeogenesis; Hepatocyte, rat; cAMP (Yasuda, N. (459) 159)

5-HT₂ receptor; DOI; Hyperthermia (Darvesh, A.S. (464) 135)

Glycosaminoglycan

Acharan sulfate; Tumor suppression; Angiogenesis; Matrigel assay (Lee, Y.S. (465) 191)

Low-molecular-weight heparin; Adriamycin; Glomerulopathy; Oxidative stress (Deepa, P.R. (478) 199)

Glycyrrhizae radix

Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Cough; Kampo preparation (Kamei, J. (469) 159)

GLYT1 (glycine transporter 1)

Glycine transport; Neurotransmission; GLYT2 (glycine transporter 2); NMDA receptor; Central nervous system (Aragón, C. (479) 249)

GMC111

Parkinson's disease; Dyskinesia; 6-Hydroxydopamine; Levodopa; Apomorphine; Dopamine stabilizer (Klintenberg, R. (459) 231)

Gnaphalium

Tiliroside; Pinocembrin; Anti-inflammatory activity; Antioxidant activity (Sala, A. (461) 53)

(Goat)

Coronary flow; Endothelium-dependent vasodilatation; Coronary vasoconstriction; Coronary vasodilatation (Fernández, N. (481) 109)

Gonadectomy

Cyclosporine; Testosterone; Endothelium dysfunction; Renal vasculature (El-Mas, M.M. (468) 217)

Goto–Kakizaki rat

JTT-608; Antidiabetic agent; Hemoglobin A1c; Neuropathy; Nephropathy (Ohta, T. (476) 159)

G-protein

Vomiting; Locomotor activity; CP55,940; SR141716A; Cannabinoid CB₁ receptor; (Least shrew); Potency; Efficacy (Darmani, N.A. (459) 83)

Cannabinoid CB₁ receptor; Physical dependence; Desensitization; Down-regulation (Breivogel, C.S. (459) 139)

G protein

ADP-ribosylation; Receptor; Pertussis toxin; Phospholipase C (Wong, C.S.S. (473) 105)

G-protein activation

μ -opioid receptor; κ -opioid receptor; Antinociception; (Mouse) (Mizoguchi, H. (461) 35)

G protein-coupled inwardly rectifying

Ginseng; Ginsenoside; Protein kinase C; K^+ channel; *Xenopus* oocyte (Choi, S. (468) 83)

G-protein-coupled receptor

Obesity; Melanocortin receptor; Melanotropin (Holder, J.R. (462) 41)

G protein-coupled receptor

Ca^{2+} mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

TPEN; Ligand binding (Webster, J.M. (474) 1)

G-protein coupled receptor

Histamine H₃ receptor; (Monkey); Cloning; Expression; Pharmacology (Yao, B.B. (482) 49)

G-protein coupling

Autoradiography; d-opioid receptor; Opioid receptor knockout (Oakley, S.M. (466) 91)

G protein coupling

Prostacyclin receptor; Adenylyl cyclase; Phospholipase C; Receptor switching (Chow, K.B.S. (474) 7)

GR 55562

5-HT_{1B} receptor; Cocaine; CP 93129; Discriminative stimulus effect; Ventral tegmental area (Filip, M. (459) 239)

GR205171

Emesis; Cisplatin; Tachykinin NK₁ receptor antagonist; (Pigeon) (Tanihata, S. (461) 197)

Gram-negative bacteria

Indomethacin; Microvascular albumin leakage; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Green fluorescent protein (GFP)

Desensitization; Endocytosis; GABA_B receptor; Receptor dimerization (González-Maeso, J. (481) 15)

Group IIA phospholipase A₂

Colitis; Dextran sulfate sodium; S-3013/LY333013 (Tomita, Y. (472) 147)

Growth factor

Cerebral ischemia; Bone marrow (Six, I. (458) 327)

Streptozotocin; Diabetes mellitus; Cytokines; Heat shock protein; Ulcer (Harsch, I.A. (481) 249)

Growth hormone secretagogue

Ghrelin; Ghrelin derivative, endogenous; GH secretagogues receptor; Cardiac contractility; Ca²⁺ current (Bedendi, I. (476) 87)

Growth medium

5-Fluorouracil; Apoptosis; Apoptosis regulating protein; Carcinogenesis, cervical (Mo, B. (467) 15)

GRP-78

Synaptophysin; Dinucleotide oxidized; Subcellular fractionation (Shepel, P.N. (467) 67)

GRP (glucose-regulated stress protein)

K⁺-channel HERG; SH-SY5Y; Neuroblastoma cell, human; Ethanol (Mühlbauer, E. (459) 121)

Guanylate cyclase

YC-1; Nitric oxide (NO); Apomorphine; Penile erection; Corpus cavernosum (Hsieh, G.C. (458) 183)

Phosphodiesterase; cGMP; Nitric oxide (NO) synthase; Corpus cavernosum (Hosogai, N. (473) 65)

Guanylate cyclase, soluble

Ebselen; Nitric oxide (NO) donor; Nitrogenic transmission; Nitric oxide (NO) synthase; Anococcygeus muscle, rat (Che, Y. (462) 161)

Guanyl cyclase, soluble

SNI-2011; Amylase secretion; Nitric oxide (NO) synthase; NOS knockout, mouse, neuronal; Myosin light chain kinase (Yuan, Z. (464) 197)

(Guinea-pig)

Cannabinoid; Vanilloid; Cholinergic; Trachea (Nieri, P. (459) 75)

(Guinea pig)

Edaravone; Free radical scavenger; Horizontal vestibulo-ocular reflex; Osmotic pump; Streptomycin (Horiike, O. (464) 75)

Epileptiform; Adenosine; Hippocampal slice; Organophosphate; Sarin (Harrison, P.K. (471) 97)

Angiotensin-converting enzyme inhibitor; Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor; Cough (Hirata, R. (474) 255)

(Guinea-pig)

NANC (Non-adrenergic non-cholinergic) inhibitory; Cannabinoid; WIN 55,212-2; Trachea; Nitric oxide (NO) (Nieri, P. (475) 115)

GW 273629

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

HaCaT human keratinocyte

Asiatic acid; Ursolic acid; Reactive oxygen species; Matrix metalloproteinase; p53 (Soo Lee, Y. (476) 173)

Haemorrhagic shock

CDP-choline; Choline; Cytidine; Vasopressin; Catecholamine (Savci, V. (468) 129)

Hallucinogen

Phenethylamine; 5-HT (5-hydroxytryptamine, serotonin); μ -Opioid receptor; Head shake; DOI; 5-HT_{2A} receptor; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

Haloperidol

Behaviour; Chlorpromazine; Risperidone; Clozapine; (Rhesus monkey) (Kumar, R. (462) 133)

Clozapine; Risperidone; Stress; Blood pressure; Heart rate; Behaviour (van den Buuse, M. (464) 55)

Muscarinic receptor; Catalepsy; Extrapyramidal side effect; Scopolamine; Knockout mouse (Karasawa, H. (468) 15)

Aripiprazole; Risperidone; Catalepsy; Dopamine; Partial agonist; Atypical antipsychotic (Nakai, S. (472) 89)

Olanzapine; Clozapine; Neuroleptic; Striatum; Oral dyskinesia (McCullum-smith, R.E. (477) 101)

(Hamster)

Purinergic inhibitory neuromodulation; Endothelium-derived factor; Mesenteric artery (Thapaliya, S. (461) 129)

[³H]Candesartan

Sanguinarine; Angiotensin AT₁ receptor; CHO cell; CHO membrane; Noncompetitive antagonist (Caballero-George, C. (458) 257)

HCN channel

Cilobradine; Zatebradine; Pacemaker current (*I_p*); Use-dependence; (Electrophysiology) (Van Bogaert, P.P. (478) 161)

[³H]5-CT ([³H]5-carboxamidotryptamine) binding

Porcine oviduct; 5-HT (5-hydroxytryptamine, serotonin); Relaxation; 5-HT₇ receptor; cAMP (Inoue, M. (461) 207)

Head shake

Phenethylamine; Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); μ -Opioid receptor; DOI; 5-HT_{2A} receptor; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

Heart

Renin–angiotensin–aldosterone system; Angiotensin II; Prostanoid; Cyclooxygenase; Kidney (Cheng, Z.J. (461) 159)

Angiotensin II; NADPH oxidase; Angiotensin AT₁ receptor; Ischaemia–reperfusion; Losartan (Oudot, A. (462) 145)

Bupropion; Contractility; Catecholamine; Amphetamine (Cremers, B. (467) 169)

Morphine withdrawal; Protein kinase A; Protein kinase C; Ca²⁺ channel; Noradrenaline turnover (Martínez, M.D. (471) 113)

Ca²⁺ current; K⁺ current; Long QT syndrome (Bai, C.-X. (476) 35)

HSP27 (heat-shock protein 27); Thyroxine; Ischaemia–reperfusion; (Rat) (Pantos, C. (478) 53)

Heart failure

Selegiline; Oxidative stress; Apoptosis; Cardiac function (Qin, F. (461) 149)

Heart, isolated

Adenosine A₃ receptor; Ischaemia; Hypoxia; Stunning; working; Papillary muscle; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

Heart, isolated, rat

Na⁺/H⁺ exchange; Na⁺/Ca²⁺ exchange; Ischemia/reperfusion injury; Cariporide; KB-R7943; Nitric oxide (NO); Free radical (Mączewski, M. (461) 139)

Heart, rat

Inotrope; Ischaemia; Dobutamine; Thyroxine (Pantos, C. (460) 155)

α -MSH (melanocyte-stimulating hormone); Ischemia; Reperfusion; Corticosterone (Vecseryes, M. (470) 177)

Capsaicin; Vagal sensory nerve; Nitric oxide (NO); cGMP; Ischemia (Csont, T. (476) 107)

Heart rate

Clozapine; Haloperidol; Risperidone; Stress; Blood pressure; Behaviour (van den Buuse, M. (464) 55)

Heat shock protein

HSP72; NF- κ B (nuclear factor- κ B); Methylprednisolone; Cholecystokinin-octapeptide; Pancreatitis (Rakonczay Jr., Z. (464) 217)

MAP (mitogen-activated protein) kinase; Neutrophil; TNF- α (tumor necrosis factor- α) (Niwa, M. (466) 245)

Herbimycin A; Thermotolerance; Apoptosis; (Rat) (Sachidhanandam, S.B. (474) 121)

Streptozotocin; Diabetes mellitus; Cytokines; Growth factor; Ulcer (Harsch, I.A. (481) 249)

HEK-293 cell

Nicotinic receptor; α 6 Subunit; Chimera; (Human) (Evans, N.M. (466) 31)

HEK 293 cell

GABA_A receptor; GABA (γ -aminobutyric acid); Diazepam; Muscimol; Radioligand binding (Peričić, D. (482) 117)

Hematoma

Intracerebral, hemorrhage; Neurological deficit; AMPA receptor antagonist; YM872 (Teraí, K. (467) 95)

Heme

BAY 41-8543; BAY 58-2667; Kinetics; Nitric oxide (NO); Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Heme oxygenase

Basophil, human; Histamine; CD63; cGMP (Vannacci, A. (465) 289)

Nitric oxide (NO) synthase; Fever; PDGF (platelet-derived growth factor) (Almeida, M.C. (467) 133)

Carbon monoxide; Carbon monoxide-releasing molecule; Pulmonary artery smooth muscle cell, human; Pulmonary hypertension (Stanford, S.J. (473) 135)

Hemodynamic

Sepsis; Steroid; Vasopressor; Nitric oxide (NO) (Mansart, A. (475) 61)

Hemodynamics

Endotoxic shock; Ghrelin (Chang, L. (473) 171)

Hemoglobin A1c

JTT-608; Antidiabetic agent; Goto–Kakizaki rat; Neuropathy; Nephropathy (Ohta, T. (476) 159)

Hemoglobin, glycated

Diabetes mellitus; Endothelium; NF- κ B (nuclear factor- κ B); Iron chelator (Pieper, G.M. (472) 127)

Hepatic cytoprotection

Neuropeptide; Vagus; Autonomic nervous system (Yoneda, M. (478) 173)

Hepatic sympathectomy

Astressin; Central nervous system; Liver injury (Nakade, Y. (460) 135)

Hepatocyte

FK506; Hypoxia-reoxygenation; JNK₁/SAPK₁; Apoptosis; Necrosis; (Rat) (Crenesse, D. (473) 177)

Hepatocyte, rat

Adenosine; A_{2B} receptor; Glycogenolysis; Gluconeogenesis; cAMP (Yasuda, N. (459) 159)

Hepatocyte toxicity

Crotonin; Semi-synthetic; V79 cell; Cytotoxicity; Gastric ulcer (Albino de Almeida, A.B. (472) 205)

Herbimycin A

Heat shock protein; Thermotolerance; Apoptosis; (Rat) (Sachidhanandam, S.B. (474) 121)

HERG

Famotidine; Monophasic action potential; Torsades de pointe; QT interval; Atrioventricular block (Sugiyama, A. (466) 137)

HERG channel

K⁺ channel; *I*- α -acetylmethadol; QT prolongation; Torsades de pointes (Kang, J. (458) 25)

hERG channel

Parkinson's disease; Dopamine receptor agonist; Action potential duration (Hurst, R.S. (482) 31)

HERG current

Prulifloxacin; Cardiac risk assessment; QT prolongation; ECG (electrocardiogram) (Lacroix, P. (477) 69)

Heritability

Eating disorder; 5-HT_{2A} receptor gene (Gorwood, P. (480) 163)

δ-κ Heteromer

δ₁-Opioid receptor; Norbinaltorphimine (Portoghese, P.S. (467) 233)

Heteroreceptor

CP-93,129; 5-HT (5-hydroxytryptamine, serotonin); Selective reuptake inhibitor; Fluvoxamine; Caudate putamen; Autoreceptor (De Groote, L. (476) 71)

Hexestrol

Stilbene; Mast cell; Cl⁻ channel; Exocytosis; Diethylstilbestrol (Roloff, T. (478) 81)

5-HIAA (5-hydroxyindoleacetic acid)

Locus coeruleus; Dorsal raphe nucleus; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin); Tryptophan; Ethanol; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

High density lipoprotein (HDL) cholesterol

JTT-705; Cholesteryl ester transfer protein (CETP) inhibitor (Okamoto, H. (466) 147)

High-throughput screen

Animal model; Mutagenesis; ENU (ethyl-nitrosourea); Psychiatric disorder; Behaviour; Candidate gene (Ohl, F. (480) 219)

Hindlimb ischemia

5-HT receptor; Sumatriptan; Vasoconstriction; SL65.0472; Ketanserin (Barbe, F. (474) 117)

Hippocampal neuron

β-Amyloid protein; Propentofylline; cAMP; Protein kinase A; Apoptosis (Koriyama, Y. (458) 235)

Hippocampal slice

Epileptiform; Adenosine; Organophosphate; Sarin; (Guinea pig) (Harrison, P.K. (471) 97)

Hippocampus

5-HT (5-hydroxytryptamine, serotonin); Cocaine; Ligand-gated; Overexpression; 5-HT₃ receptor (Carta, M. (459) 167)

Ethanol withdrawal, repeated; Amino acid; Microdialysis (Dahchour, A. (459) 171)

Fluoroquinolone; K⁺ current, transient; K⁺ current, delayed rectifier (Zhang, L.-R. (462) 9)

Diabetes; Streptozotocin; Lipid peroxidation; Cortex; GFAP (glial fibrillary acidic protein) (Baydas, G. (462) 67)

Fear; Learning; Memory; Amygdala; Context (Sanders, M.J. (463) 217)

GABA (γ-Aminobutyric acid); Glutamate release; Microdialysis, brain; Baclofen; Ca²⁺ influx (Tanaka, S. (465) 61)

Delayed neuronal death; Cerebral ischemia; Global ischemia; Locomotor activity; (Mongolian gerbil); Neuroprotective drug (Katsuta, K. (467) 103)

GABA (γ-Aminobutyric acid); Nitric oxide (NO); Sodium nitroprusside; Microdialysis (Hada, J. (467) 119)

Cannabinoid; Exocytotic release; Nerve terminal; Ca²⁺ channel (Wang, S.-J. (469) 47)

Clozapine; Metabolite; Metabolism (Heiser, P. (476) 167)

Somatostatin; GABA_B receptors; GABA (γ-aminobutyric acid); Glutamate; Brain, rat (Nyitrai, G. (478) 111)

Histamine

Heme oxygenase; Basophil, human; CD63; cGMP (Vannacci, A. (465) 289)

Pulmonary artery; Nitric oxide (NO); (Wistar–Kyoto rat); Spontaneously hypertensive, rat (Lau, W.H. (470) 45)

Jumping; Morphine; Naloxone; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (471) 105)

Mast cell; PAR (proteinase-activated receptor); PAR-activating peptide (PAR-AP); Thrombin; Peritonitis (Dugina, T.N. (471) 141)

Eye; Nitric oxide (NO); Nadroparine; Hypersensitivity (Giannoulaki, V. (481) 119)

Enterochromaffin-like cell; Proton pump inhibitor (Yokota, T. (481) 233)

Histamine H₃ receptor

Cloning; Pharmacology; Splice variant (Chen, J. (467) 57)

Gastric mucosa; Central nervous system (Fukushima, Y. (468) 47)

Scratching behavior; Histamine H₁ receptor antagonist; Anti-allergic drug (Sugimoto, Y. (470) 113)

(Monkey); Cloning; Expression; G-protein coupled receptor; Pharmacology (Yao, B.B. (482) 49)

Histamine H₂ receptor

Cutaneous blood flow; Passive cutaneous anaphylaxis; 5-Hydroxytryptamine receptor; (Rat) (Hayashi, K.-i. (482) 305)

Histamine H₁ receptor antagonism

Cetirizine; Receptor reserve; Dissociation kinetic; Ileum, guinea pig; Trachea, guinea pig (Christophe, B. (470) 87)

Histamine H₂ receptor antagonist

Histidine decarboxylase; Stomach; Aspirin; Indomethacin; Dexamethasone (Ayada, K. (460) 63)

Scratching behavior; Histamine H₁ receptor; Anti-allergic drug (Sugimoto, Y. (470) 113)

Histamine H₁-receptor antagonist

TAK-427 {2-[6-[[3-[4-(diphenylmethoxy) piperidino]propyl]amino]imidazo[1,2-*b*]pyridazin-2-yl]-2-methylpropionic acid dihydrate}; Nasal acute symptom; Allergic rhinitis; Cedar pollen; Nasal obstruction (Fukuda, S. (476) 239)

Histamine release, anti-IgE-induced

Cannabinoid receptor; Mast cell; Anandamide; Palmitoylethanolamide; WIN 55,512-2 (Lau, A.H.Y. (464) 229)

Histaminergic agent

Memory retention; Passive avoidance; Cholinoceptor drug; (Rat) (Eidi, M. (465) 91)

Histamine system

Water intake; Drinking; Morphine; Naloxone; (rat) (Eidi, M. (478) 105)

Histidine decarboxylase

Stomach; Aspirin; Indomethacin; Dexamethasone; Histamine H₂ receptor antagonist (Ayada, K. (460) 63)

HL-60 cell

Nicotinic receptor; α 7-Subunit; Bleomycin; Apoptosis (Gimonet, D. (482) 25)

HMG-CoA reductase

Smooth muscle cell, vascular; Minichromosome maintenance protein; E2F (Bruemmer, D. (462) 15)

VLDL (very-low-density lipoprotein) particle production; Sterol synthesis; Fatty acid synthesis; Acetyl-CoA carboxylase; VLDL (very low density lipoprotein) secretion (Ohmori, K. (471) 69)

[³H]Naloxone

Antinociception; Morphine; Serine/threonine protein phosphatase; Okadaic acid; Cantharidin; Calyculin-A; L-Norokadaone (Moncada, A. (465) 53)

HOE-140

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; R-715; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Homeobox

Sciatic nerve crush; Regeneration; Development; Transcription factor; Dorsal root ganglion (Vogelaar, C.F. (480) 233)

Honokiol

Magnolol; Ca²⁺; Cortical neuron, rat; SH-SY5Y neuroblastoma (Zhai, H. (474) 199)

Reactive oxygen species; NADPH oxidase; Myeloperoxidase; Cyclooxygenase; Glutathione peroxidase; Protein kinase C (Liou, K.-T. (475) 19)

Horizontal vestibulo-ocular reflex

Edaravone; Free radical scavenger; Osmotic pump; Streptomycin; (Guinea pig) (Horiike, O. (464) 75)

Hormone replacement therapy

19-Nor-steroid; Norethisterone; Progestin, synthetic; Vasorelaxation (Perusquía, M. (475) 161)

Hot flush

Mirtazapine; Oestrogen; Tail-temperature; (Rat) (Berendsen, H.H.G. (482) 329)

Hot plate test

(–)-Linalool; Essential oil; Antinociceptive activity; Acetic acid-induced writhing response; Locomotor activity (Peana, A.T. (460) 37)

HPLC (high-performance liquid chromatography)

Rotenone; Mortality; Dopamine metabolism; (Rat); Brain; 1-Methyl-1,2,3,4-tetrahydroisoquinoline (Antkiewicz-Michaluk, L. (466) 263)

[³H]Quinuclidinyl benzylate

Muscarinic receptor; Colon, human; Circular muscle; Radioligand binding; Alkylating agent (Mansfield, K.J. (482) 101)

H₃ receptor

Impepip; Antinociception (Cannon, K.E. (470) 139)

HSP72

Heat shock protein; NF- κ B (nuclear factor- κ B); Methylprednisolone; Cholecystokinin-octapeptide; Pancreatitis (Rakonczay Jr., Z. (464) 217)

HSP27 (heat-shock protein 27)

Thyroxine; Ischaemia–reperfusion; Heart; (Rat) (Pantos, C. (478) 53)

HSP70 (heat shock protein 70)

PPAR- γ ligand; Ulcer healing; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); Nitric oxide (NO) synthase (Konturek, P.C. (472) 213)

5-HT receptor

Anxiety; Benzodiazepine; 5-HT (5-hydroxytryptamine, serotonin) (Toth, M. (463) 177)

5-HT_{2A} receptor antagonist; SpAmDA (Peddi, S. (482) 335)

5-HT_{1A} receptor

MKC-242; Plus-maze test; (Mouse) (Sakaue, M. (458) 141)

Locus coeruleus; Extracellular unitary recording; Noradrenaline; Microdialysis; Alnespirone; Clonidine; α ₂-Adrenoceptor (Astier, B. (459) 17)

5-HT, (5-hydroxytryptamine; serotonin); Anxiety; Animal model; (Mouse) (Kelley, S.P. (461) 19)

Anxiety; Anxiolytic; Anxiogenic; Stress; Limbic system; Benzodiazepine (Millan, M.J. (463) 67)

Anxiety; CRF (corticotropin-releasing factor); CRH (corticotropin-releasing hormone); Transgenic; Knockout (Groenink, L. (463) 185)

Analgesia; Hyperalgesia; Pain; Tolerance (Bruins Slot, L.A. (466) 271)

Phenethylamine; Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); μ -Opioid receptor; Head shake; DOI; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

Serotonin; 8-OH-DPAT; Buspirone; Fluoxetine; Short-term memory (Pache, D.M. (477) 205)

Sleep; REM sleep; Dorsal raphe nucleus; Laterodorsal tegmental nucleus; Medial pontine reticular formation (Monti, J.M. (478) 121)

Analgesia; Neuropathic pain; Serotonin (Wu, W.-P. (478) 131)

8-OH-DPAT (8-hydroxy-2-di-*n*-propylamino tetralin); Imipramine; Depression treatment-resistant; Forced swim test (Kitamura, Y. (481) 75)

5-HT_{1A} receptor antagonist

p-Chloroamphetamine; Flumazenil; Conflict drinking test; (Rat) (Wesołowska, A. (471) 27)

5-HT_{2A} receptor antagonist

5-HT receptor; SpAMDA (Peddi, S. (482) 335)

5-HT_{2A} receptor gene

Eating disorder; Heritability (Gorwood, P. (480) 163)

EMD 281014; M 100907 (Bartoszyk, G.D. (473) 229)

5-HT_{3A} receptor

5-HT, (5-hydroxytryptamine; serotonin); Anxiety; Animal model; (Mouse) (Kelley, S.P. (461) 19)

5-HT_{1B} receptor

Cocaine; CP 93129; GR 55562; Discriminative stimulus effect; Ventral tegmental area (Filip, M. (459) 239)

5-HT_{2C} receptor knockout mouse

Cocaine; 5-HT (5-hydroxytryptamine, serotonin); Drug self-administration; Feeding behaviour; RNA editing (Higgins, G.A. (480) 151)

5-HT (5-hydroxytryptamine; serotonin)

Open field; Benzodiazepine; Neuropeptide; Anxiety (Prut, L. (463) 3)

5-HT_{3A} (5-hydroxytryptamine; serotonin)

5-HT_{3A} receptor; Anxiety; Animal model; (Mouse) (Kelley, S.P. (461) 19)

Methamphetamine; Behavioral sensitization; Nocturnal behavior; Monoamine metabolism; Dopamine (Kitanaka, N. (474) 63)

5-HT (5-hydroxytryptamine, serotonin)

Anxiety; Benzodiazepine; 5-HT receptor (Toth, M. (463) 177)

5-HT (5-hydroxytryptamine, serotonin)

DOV 21,947; “Broad-spectrum” antidepressant; Norepinephrine; Dopamine; Reuptake inhibitor (Skolnick, P. (461) 99)

5-HT (5-hydroxytryptamine, serotonin)

Platelet; SERT (serotonin transporter); Hypoxic pulmonary hypertension; Aggregation (Awabdy, D. (459) 1)

Cocaine; Ligand-gated; Overexpression; Hippocampus; 5-HT₃ receptor (Carta, M. (459) 167)

Porcine oviduct; Relaxation; 5-HT₇ receptor; cAMP; [³H]5-CT ([³H]5-carboxamidotryptamine) binding (Inoue, M. (461) 207)

Locus coeruleus; Dorsal raphe nucleus; Microdialysis; 5-HIAA (5-hydroxyindoleacetic acid); Tryptophan; Ethanol; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

5-HT₃ receptor antagonist; Gastrointestinal motility; Benzimidazole derivative (Pascual, D. (462) 99)

Anxiety; Social interaction; Neuropeptide; GABA receptor; Brain region (File, S.E. (463) 35)

Mouse Defense Test Battery; Anxiety; Panic; GABA_A–benzodiazepine receptor; Neuropeptide (Blanchard, D.C. (463) 97)

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Anxiolytic; Citalopram; Escitalopram; *R*-citalopram (Sánchez, C. (464) 155)

Periaqueductal gray, dorsal; Panic; Anxiety; T-maze, elevated (Zanoveli, J.M. (473) 153)

Phenethylamine; Hallucinogen; μ -Opioid receptor; Head shake; DOI; 5-HT_{2A} receptor; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

CP-93,129; Selective reuptake inhibitor; Fluvoxamine; Caudate putamen; Autoreceptor; Heteroreceptor (De Groote, L. (476) 71)

Endothelium-dependent vasodilatation; Hypoxia, intermittent; Pulmonary artery; Pulmonary hypertension; Vasoactive agent (Thomas, B.J. (477) 153)

Cocaine; Monoamine; Psychostimulant; Amphetamine; Dopamine; DAT (dopamine transporter); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

Antidepressant; CoMFA (Comparative Molecular Field Analysis); *Drosophila*; SERT (serotonin transporter) (Roman, D.L. (479) 53)

Cocaine; 5-HT_{2C} receptor knockout mouse; Drug self-administration; Feeding behaviour; RNA editing (Higgins, G.A. (480) 151)

Anxiety; Aggression; Transgenics; Knockout mouse (Lesch, K.P. (480) 185)

5-HT (5-hydroxytryptamine, serotonin) neurotransmission

5-HT receptor; Binding assay; Ciliary muscle (Lograno, M.D. (464) 69)

5-HT (5-hydroxytryptamine, serotonin) transporter

Dopamine; Ceramide; Dopamine transporter (Riddle, E.L. (458) 31)

5-HT (5-hydroxytryptamine, serotonin)

Psychosis; Linkage; Association; Genetic; Proline; Neuregulin (Collier, D.A. (480) 177)

5-HT (5-hydroxytryptamine, serotonin)

Pharmacokinetics; Neurotoxicity; Dopamine; Hyperthermia (Johnson-Davis, K.L. (482) 151)

5-HT receptor

Binding assay; 5-HT (5-hydroxytryptamine, serotonin) neurotransmission; Ciliary muscle (Lograno, M.D. (464) 69)

5-HT₂ receptor

DOI; Glycogenolysis; Hyperthermia (Darvesh, A.S. (464) 135)

5-HT₃ receptor

5-HT (5-hydroxytryptamine, serotonin); Cocaine; Ligand-gated; Overexpression; Hippocampus (Carta, M. (459) 167)

Antimuscarinic; Gastrointestinal motility; Muscarinic receptor; (Rat) (Axelsson, L.-G. (467) 211)

Cisplatin; Anti-emetic; Glucocorticoid; Delayed emesis (Sam, T.S.W. (472) 135)

Sumatriptan; Vasoconstriction; Hindlimb ischemia; SL65.0472; Ketanserin (Barbe, F. (474) 117)

(+)-Nantenine; Pithed rat; Pressor response; Sympathetic nerve stimulation; α -Adrenoceptor (Tsuchida, H. (477) 53)

5-HT_{2A} receptor antagonist; SpAMDA (Peddi, S. (482) 335)

5-HT₃ receptor antagonist

5-HT (5-hydroxytryptamine, serotonin); Gastrointestinal motility; Benzimidazole derivative (Pascual, D. (462) 99)

5-HT₆ receptor

Fluorometric imaging plate reader; FLIPR; chimeric G-protein; Ca²⁺ signaling (Zhang, J.Y. (472) 33)

5-HT₇ receptor

Porcine oviduct; 5-HT (5-hydroxytryptamine, serotonin); Relaxation; cAMP; [³H]5-CT ([³H]5-carboxamidotryptamine) binding (Inoue, M. (461) 207)

5-HT receptor subtype

5-Hydroxytryptophan; Spinal reflex (Honda, M. (482) 155)

HT-29 cell

Cannabinoid; Interleukin-8; TNF- α (tumour necrosis factor- α); Inflammatory bowel disease (Ihenetu, K. (458) 207)

(Human)

Nicotinic receptor; $\alpha 6$ Subunit; Chimera; HEK-293 cell (Evans, N.M. (466) 31)

Loop diuretic; Furosemide; Vasoactivity; Resistance artery (Pickkers, P. (466) 281)

Asthma; Thromboxane A₂; Smooth muscle cell; Proliferation; Airway (Capra, V. (474) 149)

Glutamate; NMDA receptor; Acetylcholine; Enteric nervous system; Colon (Giaroni, C. (476) 63)

Calcitonin gene-related peptide; Vasomotor response; Cerebral artery; Meningeal artery (Jansen-Olesen, I. (481) 207)

Human embryonic kidney 293 cell

R-(–)-1-(Benzofuran-2-yl)-2-propylaminopentane [(–)-BPAP]; Catecholaminergic and serotonergic activity enhancer; Parkinson's disease; Transporter; Tyramine (Shimazu, S. (482) 9)

Human epidermoid carcinoma A431 cell

Ca²⁺ channel blocker; Proliferation; Intracellular Ca²⁺; Fura-2; Fluo-3; Amlodipine (Yoshida, J. (472) 23)

Hyperzine A

Metabolism; Cytochrome P450; Microsome ((461) 89)

Hydrogen peroxide

Aorta; cGMP; Myosin light chain; Norepinephrine (Fujimoto, S. (459) 65)

Hyperpolarization; ATP-sensitive K⁺ channel; Prostaglandin; Smooth muscle vascular (Hattori, T. (464) 101)

Semicarbazide-sensitive amine oxidase; Monoamine oxidase; Glutathione; Isoprenaline; Tyramine; Adipose cell (Visentin, V. (466) 235)

Hydropathy

Tachykinin NK₁ receptor; Substance P; Neurokinin A; Peptide receptor antagonist; Antibody (Wijkhuisen, A. (468) 175)

Hydroseleinite

Antitumor activity; Catalase; Glutathione peroxidase; Morphology; Nitric oxide (NO); Selenium (Arsenyan, P. (465) 229)

Hydroxybupropion

Nicotine; Amphetamine; Bupropion; Bupropion metabolite; Threohydrobupropion (Bondarev, M.L. (474) 85)

6-Hydroxydopamine

GMC1111; Parkinson's disease; Dyskinesia; Levodopa; Apomorphine; Dopamine stabilizer (Klintenberg, R. (459) 231)

Hydroxyl radical

Kinetin; Bleeding time; Occlusion time; Arterial thrombosis (Hsiao, G. (465) 281)

Ammonia neurotoxicity; NMDA receptor; cGMP; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

5-Hydroxytryptamine

Porcine uterus; Pregnancy; Spontaneous contraction; Acetylcholine; Oxytocin; Nitric oxide (Kitazawa, T. (469) 135)

5-Hydroxytryptamine receptor

Cutaneous blood flow; Passive cutaneous anaphylaxis; Histamine H₂ receptor; (Rat) (Hayashi, K.-i. (482) 305)

5-Hydroxytryptophan

Spinal reflex; 5-HT receptor subtype (Honda, M. (482) 155)

Hygiene hypothesis

Mycobacterium vaccae; Allergy; Asthma (Smit, J.J. (470) 193)

Hyperactivity

Reinforcement; Cocaine self-administration; Behavioral sensitization; Knockout, mouse; DAT (dopamine transporter); NET (norepinephrine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Anorexia nervosa; Phenotype; Obesity; Genotype; Trait; Anxiety (Kas, M.J.H. (480) 13)

Hyperalgesia

Allodynia; Antiarrhythmic; Anticonvulsant; Gazelius nerve injury; Spared nerve injury (Erichsen, H.K. (458) 275)

Allergy; Inflammation; Bradykinin; Vasoactive amine (Lavich, T.R. (462) 185)

Formalin test; Migraine; Nitric oxide (NO); Pain; Tail-flick test (Tassorelli, C. (464) 159)

Analgesia; Pain; 5-HT_{1A} receptor; Tolerance (Bruins Slot, L.A. (466) 271)

Phoneutria nigriventer venom; Vanilloid receptor; Tachykinin receptor; Excitatory amino acid receptor (Zanchet, E.M. (467) 111)

Pain; Carrageenan; α₂-Adrenoceptor subtype; Morphine (Lähdesmäki, J. (468) 183)

Mg²⁺; MK-801; Mg²⁺-deficiency; (Rat); Nociceptive pathway; Sensitization (Alloui, A. (469) 65)

Chronic stress; Adenosine; CPA; N6-cyclopentyladenosine; Dipyridamole; Tail-flick (da Silva Torres, I.L. (481) 197)

Agonist; Antinociception; Galanin receptor; Neuropathy; Pain; Spinal cord (Wu, W.-P. (482) 133)

Hypercapnia

Adenosine; Cerebral blood flow; Nitric oxide (NO); ZM 241385 (Phillis, J.W. (476) 211)

Hypercholesterolemia

Infarct size; Estrogen; Progesterone; Raloxifene (Sbarouni, E. (467) 163)

Isoprostane; Vasodilatation; TP receptor; Thromboxane (Ishizuka, T. (468) 27)

Hypercholesterolemia, familial

TAK-475; Squalene synthase inhibitor; LDL receptor knockout, mouse; WHHL, rabbit (Amano, Y. (466) 155)

Hyperforin

Hypericum perforatum; St. John's wort; Hypericin; Pseudohypericin; Depression; CRF (corticotropin-releasing factor) (Simmen, U. (458) 251)

Hypericin

Hypericum perforatum; St. John's wort; Pseudohypericin; Hyperforin; Depression; CRF (corticotropin-releasing factor) (Simmen, U. (458) 251)

Hypericum perforatum

St. John's wort; Hypericin; Pseudohypericin; Hyperforin; Depression; CRF (corticotropin-releasing factor) (Simmen, U. (458) 251)

Hyperphagia

Bombesin BB3 receptor (BRS-3); Sibutramine; Serotonin and noradrenaline re-uptake inhibitor (SNRI); Energy efficiency; Animal model (Matsumoto, K. (473) 41)

Hyperpolarization

Hydrogen peroxide; ATP-sensitive K^+ channel; Prostaglandin; Smooth muscle vascular (Hattori, T. (464) 101)

Acidosis; K^+ channel, ATP-sensitive; K^+ channel, Ca^{2+} -activated; K^+ channel, delayed rectifier; Aorta, Wistar rat; Aorta, Wistar Kyoto rat (Rohra, D.K. (476) 123)

Hyperresponsiveness

Allergic rhinitis; Nasal blockage; Bradykinin; Bradykinin B_1 receptor; Bradykinin B_2 receptor (Sugahara, S. (476) 229)

Hypersensitivity

Ivermectin; (Dog); (Collie); P-glycoprotein; MDR (multidrug resistance) (Roulet, A. (460) 85)

Histamine; Eye; Nitric oxide (NO); Nadroparine (Giannoulaki, V. (481) 119)

Hypertension

Aging; Clenbuterol; β -Adrenoceptor; Nitrgenic innervation; Adrenergic innervation; Mesenteric artery, rat (Ferrer, M. (466) 289)

K^+ channel; Sympathetic system; Vascular tension; Angiotensin AT_1 receptor; Endothelin ET_A receptor; Protein kinase C (Berg, T. (466) 301)

Salt; Endothelin; Kidney, rat; Genetic (Rothermund, L. (468) 209)

NCX 4016; Vasoconstriction; Nitric oxide (NO); cGMP; Spontaneously hypertensive rat; Tail artery (Rossoni, G. (477) 59)

Autonomic nervous system; Hypothalamus; Circadian rhythm; Metabolic syndrome; Visceral obesity; Diabetes (Kreier, F. (480) 51)

Hyperthermia

Deltorphan II; Body temperature; Hypothermia (Salmi, P. (458) 101)

5-HT₂ receptor; DOI; Glycogenolysis (Darvesh, A.S. (464) 135)

Pharmacokinetics; Neurotoxicity; Dopamine; 5-HT (5-hydroxytryptamine, serotonin) (Johnson-Davis, K.L. (482) 151)

Hypnotic

Cross-tolerance; Ethanol; Flunitrazepam; GABA_A receptor; Gaboxadol; THIP; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

Hypocalcemia

Calcitonin; Chronopharmacology; (Rat) (Nishiki, K. (460) 171)

Hypothalamus

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala (Carrasco, G.A. (463) 235)

Fatty acid; Glucocorticoid; Leptin; Adiponectin; PPAR γ (peroxisome proliferator-activated receptor) (van Dijk, G. (480) 31)

Autonomic nervous system; Circadian rhythm; Metabolic syndrome; Visceral obesity; Diabetes; Hypertension (Kreier, F. (480) 51)

Eating disorder; Anorexia; Bulimia; Peptide; Randomized controlled trial (Södersten, P. (480) 67)

Anorexia; Mouse model; Genetic; Positional cloning; Neuropeptide Y; AgRP (agouti-related protein); POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Estrogen; Genomic; Sex; Arousal (Mong, J. (480) 229)

Hypothermia

Deltorphan II; Body temperature; Hyperthermia (Salmi, P. (458) 101)

Anabolic-androgenic steroid; Nandrolone; Morphine tolerance; Reward; Dependence; (Mouse) (Célrier, E. (465) 69)

Hypoxia

Pulmonary artery, sheep; Pyrrolidine dithiocarbamate; Pyrithione (Uzun, Ö. (458) 171)

Adenosine A_3 receptor; Ischaemia; Stunning; Heart, isolated; working; Papillary muscle; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

Endothelial cell; Monolayer permeability; cAMP; ATP; Actin filament (Fan, Y. (481) 33)

Cl^- channel; Smooth muscle; Systemic circulation; Blood flow regulation (Jiang, J. (481) 133)

Hypoxia, intermittent

Endothelium-dependent vasodilatation; 5-HT (5-hydroxytryptamine, serotonin); Pulmonary artery; Pulmonary hypertension; Vasoactive agent (Thomas, B.J. (477) 153)

Hypoxia-reoxygenation

FK506; JNK₁/SAPK₁; Apoptosis; Necrosis; Hepatocyte; (Rat) (Crenesse, D. (473) 177)

Hypoxic pulmonary hypertension

Platelet; 5-HT (5-hydroxytryptamine, serotonin); SERT (serotonin transporter); Aggregation (Awabdy, D. (459) 1)

ICAM-1 (intercellular adhesion molecule)

Dexamethasone; Lung eosinophilia; Sephadex bead; TNF- α (tumor necrosis factor- α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

IGFBP-3 (insulin-like growth factor binding protein-3)

iNOS [nitric oxide (NO) synthase, inducible]; Aminoguanidine; IGFBP-3 proteolysis; IGFBP-3 mRNA; Arthritis, adjuvant-induced (Ibáñez de Cáceres, I. (481) 293)

IGFBP-3 mRNA

iNOS [nitric oxide (NO) synthase, inducible]; Aminoguanidine; IGFBP-3 (insulin-like growth factor binding protein-3); IGFBP-3 proteolysis; Arthritis, adjuvant-induced (Ibáñez de Cáceres, I. (481) 293)

IGFBP-3 proteolysis

iNOS [nitric oxide (NO) synthase, inducible]; Aminoguanidine; IGFBP-3 (insulin-like growth factor binding protein-3); IGFBP-3 mRNA; Arthritis, adjuvant-induced (Ibáñez de Cáceres, I. (481) 293)

Ileum, guinea pig

Cyclosporine A; FK506; Tolerance; Dependence; Morphine (Mehr, S.E. (467) 205)

Cetirizine; Histamine H_1 receptor antagonism; Receptor reserve; Dissociation kinetic; Trachea, guinea pig (Christophe, B. (470) 87)

Iloperidone

α_2 -Adrenoceptor antagonist; Antipsychotic; Functional affinity; Cognitive function; Clozapine (Kalkman, H.O. (462) 33)

Iloprost

CYR61; Prostacyclin; Smooth muscle; Atherosclerosis (Debey, S. (474) 161)

Imidazoline-binding site

Efaroxan; β -cell; Insulin secretion; KU14R; β -carboline; Clonidine-displacing substance (Cooper, E.J. (482) 189)

Imidazoline compound

Exocytosis; Glucagon; Insulin; Pancreatic islet (Høy, M. (466) 213)

Imipramine

Antidepressant; Bipolar disorder; Mania; Rapid cycling; Supersensitivity (D'Aquila, P.S. (458) 129)

Jumping; Morphine; Naloxone; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (473) 19)

8-OH-DPAT (8-hydroxy-2-di-*n*-propylamino tetralin); 5-HT_{1A} receptor; Depression treatment-resistant; Forced swim test (Kitamura, Y. (481) 75)

Immepip

H₃ receptor; Antinociception (Cannon, K.E. (470) 139)

Clobenpropit; Seizure; Endogenous histamine; α -Fluoromethylhistidine (Zhang, L. (482) 169)

Immobilization stress

Microdialysis; Amygdaloid nucleus, basolateral; Lactate; Benzodiazepine (Uehara, T. (459) 211)

Immune system

Intestine; Stomach; Enteric nervous system; Inflammation; Leukotriene; Myenteric plexus; Submucosal plexus (Liu, S. (459) 27)

Amiodarone; Myocarditis; Lymphocyte; Mast cell (Matsui, S. (469) 165)

Immunocytochemistry

Endothelial cell; Aorta; OP4 receptor; In situ hybridization; MAP (mitogen-activated protein) kinase (Granata, F. (482) 17)

Immunohistochemistry

Myenteric plexus-longitudinal muscle; Choline acetyltransferase; Capsaicin receptor; Confocal microscopy (Anavi-Goffer, S. (458) 61)

Immunomodulation

Steroid; (*Physalis angulata* L.); Endotoxic shock (Soares, M.B.P. (459) 107)

Immunoreactivity

Calcitonin receptor-like receptor; CRL receptor; Vascular endothelium; Rat (Hagner, S. (481) 147)

Impotence

Renal failure; Phosphodiesterase inhibitor; (Rabbit) (Kilicarslan, H. (462) 155)

Inbred SHR, rat

17 β -Estradiol; Progesterone; Endothelium; Aorta; K⁺ channel (Unemoto, T. (472) 119)

Indiplon

Cross-tolerance; Ethanol; Flunitrazepam; GABA_A receptor; Gaboxadol; THIP; Hypnotic; Rotarod; Zolpidem (Voss, J. (482) 215)

Indo1

Choline; Nicotinic receptor; Sympathetic neurone; Intracellular Ca²⁺ (Seddik, R. (471) 165)

Indomethacin

8-OH-dG; Glutamate; Reperfusion injury; Cerebral blood flow; Reactive oxygen species (Miyamoto, O. (459) 179)

Histidine decarboxylase; Stomach; Aspirin; Dexamethasone; Histamine H₂ receptor antagonist (Ayada, K. (460) 63)

Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Indoxyl sulfate

Organic anion transporter; Organic cation transporter; Proximal tubule; Uremia (Enomoto, A. (466) 13)

Inducible nitric oxide synthase

Renal/kidney; Reperfusion-injury; Dithiocarbamates; Pyrrolidine dithiocarbamate; Nuclear factor- κ B; Nitric oxide (Chatterjee, P.K. (482) 271)

Induction

Bradykinin receptor; Desensitisation; (Rat); Vas deferens (Scott, P. (458) 319)

Induction of transcription

CYP3A (Cytochrome P450 3A); Omeprazole; Pantoprazole; St. John's wort; RT-PCR (reverse transcription–polymerase chain reaction) (Krusekopf, S. (466) 7)

Infarct size

Neutrophil elastase inhibition; SSR69071; Ischemia–reperfusion injury, cardiac (Bidouard, J.-P. (461) 49)

Estrogen; Progesterin; Raloxifene; Hypercholesterolemia (Sbarouni, E. (467) 163)

Inferior colliculus

Aversion; Midbrain tectum; Dorsal periaqueductal gray; Superior colliculus (Brandão, M.L. (463) 225)

Inflammation

Intestine; Stomach; Enteric nervous system; Immune system; Leukotriene; Myenteric plexus; Submucosal plexus (Liu, S. (459) 27)

Hyperalgesia; Allergy; Bradykinin; Vasoactive amine (Lavich, T.R. (462) 185)

Amtolmetin guacyl; Intestine; Neuropeptide; (Rat) (Tubaro, E. (467) 173)

Cytochrome P450; Downregulation; Serum mediator; Cytokine (Bleau, A.-M. (473) 197)

Cannabinoid; Microglial cell; Migration (Franklin, A. (474) 195)

Airway; Substance P; Neutrophil; Mast cell (van der Kleij, H.P.M. (476) 249)

Morphine; Allodynia; A-type afferent (Li, S. (481) 203)

Thermal hyperalgesia; Paw edema; Resiniferatoxin; Mast cell (Zhang, Y.-H. (481) 301)

Interleukin-18; Lipopolysaccharide; Monocyte; Glyburide; Purinoreceptor subtype P_{2X7} (Mühl, H. (482) 325)

Inflammatory bowel disease

Cannabinoid; Interleukin-8; TNF- α (tumour necrosis factor- α); HT-29 cell (Ihenetu, K. (458) 207)

Thearubigin; Black tea; Colitis; Cytokine; Nitric oxide (NO) synthase, inducible; NF- κ B (nuclear factor kappa B) (Maity, S. (470) 103)

Inflammatory cell

Ca²⁺; Calmodulin; Airway; Mast cell (Ten Broeke, R. (476) 151)

Inflammatory hyperalgesia

NMDA receptor; Spinal cord; Tyrosine kinase inhibitor; Antinociception (Sato, E. (468) 191)

Inflammatory pain

Cyclooxygenase-2; Morphine; Rofecoxib; Synergism (Déciga-Campos, M. (460) 99)

Phyllanthus amarus; Lignan; Allodynia; Anti-oedematogenic; Myeloperoxidase; Neuropathic pain (Kassuya, C.A.L. (478) 145)

Inflammatory response syndrome, systemic

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Inhibition

GABA_A receptor; GABA (γ -aminobutyric acid); Extrasynaptic receptor; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

Nicotinic receptor; Levamisole; Potentiation; Allosteric modulator; Oocyte (Levandowski, M.M. (471) 9)

Neutrophil; Corticosteroid; Transmigration (van Overveld, F.J. (477) 261)

Ligand-gated; Anaesthetic; Benzodiazepine; γ -Aminobutyric acid; THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol) (Smith, M. (478) 21)

Inhibitor

SEA0400; Na⁺/Ca²⁺ exchanger; Myocardial injury; Ischemia; Reperfusion (Takahashi, K. (458) 155)

Glutamate transporter; Neurodegeneration; Glutamate uptake; Substrate (Mennini, T. (479) 291)

Inhibitory transmission

Spinal synaptic transmission; Anoxia; Glutamate; Creatine phosphate (Jha, A. (481) 189)

Injury

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; intestinal (Evans, S.M. (461) 63)

Axotomy; mRNA expression; POMC (proopiomelanocortin); Melanocortin receptor; Retina (Lindqvist, N. (482) 85)

Innate lung defense

Amino acid; Peptide (Mager, S. (479) 263)

iNOS

Alveolar macrophage; Nitric oxide synthesis; Phosphodiesterase; Lipopolysaccharides; Arginase (Koschorreck, S. (471) 229)

NF- κ B; Akt; Vascular smooth muscle (Hattori, Y. (481) 153)

Inositol 1,4,5-trisphosphate

Ca²⁺ channel; Ca²⁺ entry, capacitative; Monensin; Smooth muscle, vascular; Vasoconstriction (Wakabayashi, I. (464) 27)

iNOS [nitric oxide (NO) synthase, inducible]

Aminoguanidine; IGFBP-3 (insulin-like growth factor binding protein-3); IGFBP-3 proteolysis; IGFBP-3 mRNA; Arthritis, adjuvant-induced (Ibáñez de Cáceres, I. (481) 293)

Inotrope

Ischaemia; Dobutamine; Thyroxine; Heart, rat (Pantos, C. (460) 155)

In situ hybridization

Argatroban; PDGF, (platelet-derived growth factor); Smooth muscle cell, vascular; RT-PCR, (reverse transcription-polymerase chain reaction) (Yoshinaga, M. (461) 9)

Endothelial cell; Aorta; OP4 receptor; Immunocytochemistry; MAP (mitogen-activated protein) kinase (Granata, F. (482) 17)

Insomnia

Sleep latency; Wakefulness; Non-rapid eye movement (non-REM) sleep; Rapid eye movement (REM) sleep; Short-acting hypnotic (Shinomiya, K. (460) 139)

Insulin

Exocytosis; Glucagon; Imidazoline compound; Pancreatic islet (Høy, M. (466) 213)

Exendin-4; Glucagon; Somatostatin (Silvestre, R.A. (469) 195)

Airway smooth muscle; Phenotype; Asthma; Diabetes (Gosens, R. (481) 125)

Insulin resistance

Nicotine; Obesity; Glycogen; Zucker fatty rat (Liu, R.-H. (458) 227)

Dopamine; Dopamine D2 receptor; Metabolic syndrome X; Obesity (Pijl, H. (480) 125)

Insulin secretion

Efaroxan; β -cell; Imidazoline-binding site; KU14R; β -carboline; Clonidine-displacing substance (Cooper, E.J. (482) 189)

Insulin sensitizer

Thiazolidinedione; CFU-GM; Bone marrow toxicity (Benkő, I. (477) 179)

Integrin

Pulmonary artery; Stretch; Contraction; Prostaglandin H₂ (Saito, M. (467) 151)

Interaction

Tramadol; Non-steroidal anti-inflammatory drug (NSAID); Antagonism; Gastrointestinal transit (Planas, E. (482) 223)

Interferon- γ

Ursodeoxycholic acid; Smooth muscle cell, aortic; Smooth muscle cell, coronary artery; Nitric oxide (NO) synthase; Lipopolysaccharide (Ma, J. (464) 79)

Interleukin-2

Cannabinoid; Phytohaemagglutinin; Peripheral blood mononuclear cell (Ihenetu, K. (464) 207)

Interleukin-6

Atorvastatin; α -Thrombin, human; NF- κ B (nuclear factor- κ B); RhoA (Haloui, M. (474) 175)

Interleukin-8

Cannabinoid; TNF- α (tumour necrosis factor- α); HT-29 cell; Inflammatory bowel disease (Ihenetu, K. (458) 207)

Interleukin–17

Bronchial epithelial cell, human; C-X-C chemokine (Prause, O. (462) 193)

Phospholipase A₂; NF-κB (nuclear factor-κB); MAP (mitogen-activated protein) kinase; T-lymphocyte (Burgermeister, E. (466) 169)

Caco-2 cell; κ-Opioid receptor agonist; Opioid receptor (Neudeck, B.L. (467) 81)

α₂-Adrenoceptor agonist; p38 Mitogen-activated protein kinase; Macrophage (Kang, B.Y. (467) 223)

Interleukin–18

Lipopolysaccharide; Monocyte; Inflammation; Glyburide; Purinoreceptor subtype P_{2x7} (Mühl, H. (482) 385)

Interleukin–1β

PPAR-γ ligand; Ulcer healing; TNF-α (tumor necrosis factor-α); Nitric oxide (NO) synthase; HSP70 (heat shock protein 70) (Konturek, P.C. (472) 213)

Cyclo-oxygenase-2; Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; Prostaglandin; Apoptosis (Martin, A.R. (481) 281)

Lipopolysaccharide; Monocyte; Inflammation; Glyburide; Purinoreceptor subtype P_{2x7} (Mühl, H. (482) 325)

Intermediate-conductance K⁺ channel, intermediate-conducting, Ca²⁺-activated

LNCaP; PC-3; Riluzole; 1-EBIO; Benign prostatic hyperplasia (Parihar, A.S. (471) 157)

intestinal

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury (Evans, S.M. (461) 63)

Intestinal transport

ABC transporter; Caco-2 cell; Digoxin; MDR1; P-glycoprotein; MRP2 (Lowes, S. (458) 49)

Intestinal viability

Antioxidant; Non-steroidal anti-inflammatory agent; Acute mesenteric ischemia; Ischemia–reperfusion (Poussios, D. (465) 275)

Intestine

Stomach; Enteric nervous system; Immune system; Inflammation; Leukotriene; Myenteric plexus; Submucosal plexus (Liu, S. (459) 27)

Amtolmetin guacyl; Inflammation; Neuropeptide; (Rat) (Tubaro, E. (467) 173)

Intracellular Ca²⁺

Choline; Nicotinic receptor; Sympathetic neurone; Indo1 (Seddik, R. (471) 165)

Ca²⁺ channel blocker; Proliferation; Human epidermoid carcinoma A431 cell; Fura-2; Fluo-3; Amlodipine (Yoshida, J. (472) 23)

Intracerebral, hemorrhage

Hematoma; Neurological deficit; AMPA receptor antagonist; YM872 (Terai, K. (467) 95)

Invasion

Angiogenesis; Endothelial cell; Migration; Tumor metastasis; Wf-536 (Nakajima, M. (459) 113)

(In vitro)

α-Tocopherol; Neuroprotection; Oxidative stress; Apoptosis; Striatal neuron; (Rat) (Osakada, F. (465) 15)

Ion channel

U50,488H; Atrium, human; Opioid; K⁺ current, transient outward; K⁺ current, ultra-rapid delayed rectifier (Xiao, G.-S. (473) 97)

Ca²⁺ current; Na⁺ current; Toxin; Catecholamine cell (Arroyo, G. (475) 11)

Iris sphincter, pig

Bradykinin; Contraction; Cyclooxygenase metabolite; Bradykinin B₁ receptor-selective antagonist; Bradykinin B₂ receptor-selective antagonist (El Sayah, M. (458) 175)

Iron chelator

Diabetes mellitus; Hemoglobin, glycated; Endothelium; NF-κB (nuclear factor-κB) (Pieper, G.M. (472) 127)

Irradiation

Endothelium-dependent relaxation; endothelial nitric oxide synthase (eNOS); Free radical scavenger; Artery (Zhang, X.-H. (476) 131)

Ischaemia

Inotrope; Dobutamine; Thyroxine; Heart, rat (Pantos, C. (460) 155)

Adenosine A₃ receptor; Hypoxia; Stunning; Heart, isolated; working; Papillary muscle; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

Carvedilol; Mitochondrion (Monteiro, P. (482) 245)

Ischaemia–reperfusion

Angiotensin II; NADPH oxidase; Heart; Angiotensin AT₁ receptor; Losartan (Oudot, A. (462) 145)

HSP27 (heat-shock protein 27); Thyroxine; Heart; (Rat) (Pantos, C. (478) 53)

Ischemia

SEA0400; Na⁺/Ca²⁺ exchanger; Myocardial injury; Reperfusion; Inhibitor (Takahashi, K. (458) 155)

Cl[−]/HCO₃[−] exchange; Arrhythmia; Reperfusion; DIDS; SITS (Zhu, B.-M. (460) 43)

α-MSH (melanocyte-stimulating hormone); Reperfusion; Corticosterone; Heart, rat (Vecsernyes, M. (470) 177)

Middle cerebral artery occlusion; Reperfusion; Body temperature; Neurological deficit; Diffusion–perfusion magnetic resonance imaging (Petty, M.A. (474) 53)

Capsaicin; Vagal sensory nerve; Nitric oxide (NO); cGMP; Heart, rat (Csont, T. (476) 107)

Reperfusion; Acute renal failure; Na⁺/Ca²⁺ exchanger; Endothelin-1 (Ogata, M. (478) 187)

Reperfusion; Acute renal failure; Sympathetic nerve; Norepinephrine (Fujii, T. (481) 241)

Ischemia, low-flow

Adenosine; Preconditioning; ^{31}P -NMR (nuclear magnetic resonance); (Rat) (Bradamante, S. (465) 115)

Ischemia/reperfusion

Edaravone; Antioxidant; Free radical; Mitochondrion (Okatani, Y. (465) 163)

Antioxidant; Non-steroidal anti-inflammatory agent; Acute mesenteric ischemia; Intestinal viability (Poussios, D. (465) 275)

Melatonin; Antioxidant; Free radical; Mitochondria (Okatani, Y. (469) 145)

Carnosine; Renal sympathetic nerve activity; Norepinephrine; Acute renal failure (Fujii, T. (474) 261)

Ischemia/reperfusion injury

Na^+/H^+ exchange; $\text{Na}^+/\text{Ca}^{2+}$ exchange; Heart, isolated, rat; Cariporide; KB-R7943; Nitric oxide (NO); Free radical (Mączewski, M. (461) 139)

Ischemia–reperfusion injury, cardiac

Neutrophil elastase inhibition; SSR69071; Infarct size (Bidouard, J.-P. (461) 49)

Ischemic preconditioning

Pancreatitis; Blood flow, pancreatic; Sensory nerve; Vagal nerve, interleukin-1 β (Dembinski, A. (473) 207)

Isobole method

Retigabine; GABA_A receptor complex; TBOB; Synergy; Molecular model (van Rijn, C.M. (464) 95)

Isobologram

Morphine; Ketamine; Methadone; Pain; Mononeuropathy; Paw pressure; (Rat) (Pelissier, T. (477) 23)

Isometric tension

α_1 -Acid glycoprotein; Aorta, mouse; Ca^{2+} entry; Smooth muscle cell, vascular (Tokutomi, Y. (477) 137)

Isoprenaline

Semicarbazide-sensitive amine oxidase; Monoamine oxidase; Glutathione; Hydrogen peroxide; Tyramine; Adipose cell (Visentin, V. (466) 235)

8-Iso-prostaglandin E₂

8-Iso-prostaglandin F_{2 α} ; Prostanoid EP₃ receptor; TP receptor; Noradrenaline release; Stomach, rat; Pertussis toxin (Nakamura, K. (470) 73)

8-Iso-prostaglandin F_{2 α}

8-Iso-prostaglandin E₂; Prostanoid EP₃ receptor; TP receptor; Noradrenaline release; Stomach, rat; Pertussis toxin (Nakamura, K. (470) 73)

Isoprostane

Vasodilatation; Hypercholesterolemia; TP receptor; Thromboxane (Ishizuka, T. (468) 27)

Isoproterenol

Salt; Aorta; Nitric oxide (NO); cAMP; cGMP (Sofola, O. (474) 241)

Itch

Atopic dermatitis; NC/Nga, mouse; Scratching; MicroAct (Takano, N. (471) 223)

Ivermectin

(Dog); (Collie); Hypersensitivity; P-glycoprotein; MDR (multidrug resistance) (Roulet, A. (460) 85)

Jaw movement

Superior colliculus; Ventrolateral striatum; GABA_A receptor; Dopamine receptor; Acetylcholine receptor; (Rat) (Adachi, K. (464) 147)

Dopamine D1-like receptor; Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Accum-bens, shell; Dopamine D1-like:D2-like receptor synergism; SK&F 83959; (Rat) (Adachi, K. (473) 47)

JNK

Selenite; Apoptosis; c-Jun; p53; p21^{WAF1/CIP1} (Nango, R. (471) 1)

JNK₁/SAPK₁

FK506; Hypoxia-reoxygenation; Apoptosis; Necrosis; Hepatocyte; (Rat) (Crenesse, D. (473) 177)

JTT-705

Cholesteryl ester transfer protein (CETP) inhibitor; High density lipoprotein (HDL) cholesterol (Okamoto, H. (466) 147)

Antidiabetic agent; Hemoglobin A1c; Goto–Kakizaki rat; Neuropathy; Nephropathy (Ohta, T. (476) 159)

Jumping

Histamine; Morphine; Naloxone; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (471) 105)

Imipramine; Morphine; Naloxone; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (473) 19)

Jurkat T lymphocyte, human

Cl^- concentration, intracellular; Lectin; Cl^- -free condition; 9-AC; Stilbene derivative (Lai, Z.-F. (482) 1)

Kainic acid

Dopamine; 6-OHDA (6-hydroxydopamine); Memory; Substantia nigra; Ventral tegmental area (Hefco, V. (475) 55)

Kampo preparation

Glycyrrhizae radix; Bakumondo-to (Mai-men-dong-tang); Antitussive effect; Cough (Kamei, J. (469) 159)

K_{ATP} channel

Endothelium; Electrical field stimulation; K_{Ca} channel; K_V channel; Penile small artery (Kun, A. (474) 103)

KB-R7943

Na^+/H^+ exchange; $\text{Na}^+/\text{Ca}^{2+}$ exchange; Heart, isolated, rat; Ischemia/reperfusion injury; Cariporide; Nitric oxide (NO); Free radical (Mączewski, M. (461) 139)

KB-V1

Peucedanum praeruptorum Dunn; Pyranocoumarins; Multidrug resistance; P-glycoprotein; Apoptosis (Wu, J.Y.-C. (473) 9)

K_{Ca} channel

Endothelium; Electrical field stimulation; K_V channel; K_{ATP} channel; Penile small artery (Kun, A. (474) 103)

K⁺ channel

HERG channel; *l*- α -acetylmetadol; QT prolongation; Torsades de pointes (Kang, J. (458) 25)

μ -Opioid receptor; Opioid, presynaptic inhibition; Striatum; Corticostriatal afferent (Barral, J. (462) 91)

Testosterone; Vasorelaxation; Prostanoid; Ca^{2+} influx (Tep-areenan, P. (465) 125)

Hypertension; Sympathetic system; Vascular tension; Angiotensin AT_1 receptor; Endothelin ET_A receptor; Protein kinase C (Berg, T. (466) 301)

Ginseng; Ginsenoside; Protein kinase C; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Diabetes; Vasopressin; Gender; Renal artery; Coronary artery (Sanz, E. (471) 35)

17β -Estradiol; Progesterone; Endothelium; Inbred SHR, rat; Aorta (Unemoto, T. (472) 119)

Torsade de pointes; QT prolongation; Prostaglandin E_2 ; ATP-dependent K^+ channel; Proarrhythmia (Farkas, A. (472) 189)

17β -Oestradiol; Vasorelaxation; Ca^{2+} influx (Tep-areenan, P. (476) 139)

K^+ channel, ATP-sensitive

Acidosis; Hyperpolarization; K^+ channel, Ca^{2+} -activated; K^+ channel, delayed rectifier; Aorta, Wistar rat; Aorta, Wistar Kyoto rat (Rohra, D.K. (476) 123)

MCC-134; Sulphonylurea receptor; Urethra; Smooth muscle (Yunoki, T. (482) 287)

K^+ channel, Ca^{2+} -activated

Acidosis; Hyperpolarization; K^+ channel, ATP-sensitive; K^+ channel, delayed rectifier; Aorta, Wistar rat; Aorta, Wistar Kyoto rat (Rohra, D.K. (476) 123)

K^+ channel, delayed rectifier

Acidosis; Hyperpolarization; K^+ channel, ATP-sensitive; K^+ channel, Ca^{2+} -activated; Aorta, Wistar rat; Aorta, Wistar Kyoto rat (Rohra, D.K. (476) 123)

K^+ -channel HERG

GRP (glucose-regulated stress protein); SH-SY5Y; Neuroblastoma cell, human; Ethanol (Mühlbauer, E. (459) 121)

K^+ channel opener, ATP-sensitive

KR-31372; VEGF (vascular endothelial growth factor); p125^{FAK} ; KDR/Flk-1; Endothelial cell, umbilical vein, human (Kim, K.Y. (465) 219)

K^+ current

M-current; Oxo-tremorine M; Muscarinic receptor; Channel expression (Guo, J. (462) 25)

Bisindolylmaleimide I; Ca^{2+} current; Calphostin; Clelerythrine; Protein kinase C (Voutilainen-Myllylä, S. (466) 41)

Ca^{2+} current; Long QT syndrome; Heart (Bai, C.-X. (476) 35)

K^+ current, delayed rectifier

Fluoroquinolone; Hippocampus; K^+ current, transient (Zhang, L.-R. (462) 9)

K^+ current, transient

Fluoroquinolone; Hippocampus; K^+ current, delayed rectifier (Zhang, L.-R. (462) 9)

K^+ current, transient outward

U50,488H; Atrium, human; Ion channel; Opioid; K^+ current, ultra-rapid delayed rectifier (Xiao, G.-S. (473) 97)

K^+ current, ultra-rapid delayed rectifier

U50,488H; Atrium, human; Ion channel; Opioid; K^+ current, transient outward (Xiao, G.-S. (473) 97)

KDR/Flk-1

KR-31372; K^+ channel opener, ATP-sensitive; VEGF (vascular endothelial growth factor); p125^{FAK} ; Endothelial cell, umbilical vein, human (Kim, K.Y. (465) 219)

Ketamine

Alfentanil; Anaesthesia; Analgesia; EEG (electroencephalogram); Stereo-isomer (Edwards, S.R. (460) 27)

Morphine; Methadone; Pain; Mononeuropathy; Paw pressure; Isobologram; (Rat) (Pelissier, T. (477) 23)

Ketanserine

5-HT receptor; Sumatriptan; Vasoconstriction; Hindlimb ischemia; SL65.0472 (Barbe, F. (474) 117)

Kidney

Renin–angiotensin–aldosterone system; Angiotensin II; Prostanoid; Cyclooxygenase; Heart (Cheng, Z.J. (461) 159)

Nucleoside transporter; Nucleoside analog; Renal cancer; Drug disposition; Localization (Mangravite, L.M. (479) 269)

Kidney, rat

Salt; Hypertension; Endothelin; Genetic (Rothermund, L. (468) 209)

Kindling

Seizure, nicotine-induced; Nicotinic receptor; NMDA receptor; Antiepileptic drug; Epilepsy (Löscher, W. (466) 99)

Glutamate receptor, metabotropic; Epilepsy; Anticonvulsant; DBA/2 mouse; Temporal lobe epilepsy (Moldrich, R.X. (476) 3)

Kinetic

Catechol-*O*-methyltransferase inhibitor; Liver catechol-*O*-methyltransferase; BIA 3-202; Parkinson's disease (Bonifácio, M.J. (460) 163)

Dermorphin; Tetrapeptide; TAPS; Receptor binding; Brain (Vonhof, S. (473) 127)

Kinetics

BAY 41-8543; BAY 58-2667; Heme; Nitric oxide (NO); Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Kinetin

Hydroxyl radical; Bleeding time; Occlusion time; Arterial thrombosis (Hsiao, G. (465) 281)

KN93

Opioid receptor; CaMKII (Wang, Z.J. (465) 199)

Knee joint, rat

Somatostatin; Vasodilatation; Plasma extravasation (Lam, F.F.Y. (474) 295)

Knockout

Anxiety; 5-HT $_{1A}$ receptor; CRF (corticotropin-releasing factor); CRH (corticotropin-releasing hormone); Transgenic (Groenink, L. (463) 185)

Knockout mouse

Muscarinic receptor; Catalepsy; Extrapyramidal side effect; Haloperidol; Scopolamine (Karasawa, H. (468) 15)

Reinforcement; Cocaine self-administration; Hyperactivity; Behavioral sensitization; DAT (dopamine transporter); NET (norepinephrine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Anxiety; Aggression; 5-HT (5-hydroxytryptamine, serotonin); Transgenics (Lesch, K.P. (480) 185)

KR-31372

K⁺ channel opener, ATP-sensitive; VEGF (vascular endothelial growth factor); p125^{FAK}; KDR/Flk-1; Endothelial cell, umbilical vein, human (Kim, K.Y. (465) 219)

KU14R

Efaroxan; β -cell; Insulin secretion; Imidazoline-binding site; β -carboline; Clonidine-displacing substance (Cooper, E.J. (482) 189)

K_v channel

Endothelium; Electrical field stimulation; K_{Ca} channel; K_{ATP} channel; Penile small artery (Kun, A. (474) 103)

Kynurenic acid

Choreoathetosis; Dyskinesia; Glutamate; Kynurenine hydroxylase; Movement disorder (Richter, A. (478) 47)

Kynurenine hydroxylase

Choreoathetosis; Dyskinesia; Glutamate; Kynurenic acid; Movement disorder (Richter, A. (478) 47)

L-765314

Adrenoceptor subtype; Mydriasis; (Rat); Norepinephrine; 5-Methylurapidil (Yu, Y. (471) 135)

L- α -acetylmethadol

HERG channel; K⁺ channel; QT prolongation; Torsades de pointes (Kang, J. (458) 25)

Lactate

Microdialysis; Immobilization stress; Amygdaloid nucleus, basolateral; Benzodiazepine (Uehara, T. (459) 211)

L-Amino acid

GABA_B receptor; Dipeptide; Baclofen; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Lamotrigine

Felbamate; Pentylenetetrazole; 4-Aminopyridine; Drug interaction (Cuadrado, A. (465) 43)

Ca²⁺ channel, voltage-activated; Antiepileptic drug; Anticonvulsant (Hainsworth, A.H. (467) 77)

Anticonvulsant; Electroshock, maximal; Pharmacokinetics; Pharmacodynamics (Castel-Branco, M. (482) 163)

L-Arginine

Morphine; Nitric oxide (NO); L-NAME (*N*^G-nitro-L-arginine methyl ester); Conditioned place preference; Ventral tegmental area; (Rat) (Gholami, A. (458) 119)

Apomorphine; Morphine; Nitric oxide (NO); L-NAME (*N*^G-nitro-L-arginine methyl ester); Locomotor activity; Sensitization; (Mouse) (Zarrindast, M.-R. (482) 205)

LASSBio 294 (L-294)

Skeletal muscle; Contractility; Ca²⁺; Sarcoplasmic reticulum (Zapata-Sudo, G. (470) 79)

Laterodorsal tegmental nucleus

Sleep; REM sleep; Dorsal raphe nucleus; Medial pontine reticular formation; 5-HT_{1A} receptor (Monti, J.M. (478) 121)

LDH release

Donepezil; Acetylcholinesterase inhibitor; Oxygen–glucose deprivation; Primary cultured cerebral cortical neuron; (Rat) (Akasofu, S. (472) 57)

LDL (low-density lipoprotein), glycoxidized

Diabetes mellitus; Atherosclerosis; MCP-1 (monocyte chemoattractant protein-1); NF- κ B (nuclear factor- κ B); Umbilical vein endothelial cell, human (Sonoki, K. (475) 139)

LDL receptor knockout, mouse

TAK-475; Squalene synthase inhibitor; Hypercholesterolemia, familial; WHHL, rabbit (Amano, Y. (466) 155)

Leakage

DAT (Dopamine transporter); Multisubstrate mechanisms; Terreactant mechanisms; Na⁺-dependent transporter; Cl[−]-dependent transport; Slippage (Schenk, J.O. (479) 223)

Learning

Fear; Memory; Amygdala; Hippocampus; Context (Sanders, M.J. (463) 217)

(Least shrew)

Vomiting; Locomotor activity; CP55,940; SR141716A; Cannabinoid CB₁ receptor; G-protein; Potency; Efficacy (Darmani, N.A. (459) 83)

Lectin

Cl[−] concentration, intracellular; Jurkat T lymphocyte, human; Cl[−]-free condition; 9-AC; Stilbene derivative (Lai, Z.-F. (482) 1)

Leptin

Proopiomelanocortin; Agouti-related peptide; Neuropeptide Y; Ghrelin; Peptide YY-(3–36) (Cowley, M.A. (480) 3)

Fatty acid; Glucocorticoid; Adiponectin; PPAR γ (peroxisome proliferator-activated receptor); Hypothalamus (van Dijk, G. (480) 31)

Melatonin; Photoperiod; *Phodopus*; SOCS3; CART (Mercer, J.G. (480) 43)

Pancreas; Cholecystokinin; Secretin; Gastrin-releasing peptide; Ghrelin; Pancreatic polypeptide (Konturek, S.J. (481) 1)

Nucleus accumbens; Dopamine; Feeding; Microdialysis (Krügel, U. (482) 185)

Leukemia

Artemisinin; Cell differentiation; PKC (protein kinase C); ERK (extracellular-regulated kinase) (Kim, S.H. (482) 67)

Leukemic cell line

Apoptosis; Microphysiometry; Extracellular acidification rate; Na⁺/H⁺ antiporter (Khare, S. (465) 23)

Leukocyte–endothelial interaction

Diabetes mellitus; Probucol (Zanardo, R.C.O. (478) 211)

Leukotriene

Intestine; Stomach; Enteric nervous system; Immune system; Inflammation; Myenteric plexus; Submucosal plexus (Liu, S. (459) 27)

Levamisole

Nicotinic receptor; Potentiation; Inhibition; Allosteric modulator; Oocyte (Levandoski, M.M. (471) 9)

Levetiracetam

Paired-pulse inhibition/facilitation; GABAergic mechanism; Antiepileptic drug; Dentate gyrus, rat (Margineanu, D.G. (466) 255)

Anxiety; Anxiolytic effect; Vogel conflict test; Antiepileptic; Chlordiazepoxide (Lamberty, Y. (469) 97)

Antiepileptic; Analgesia; Neuropathic pain; Antiepileptic drug (Ardid, D. (473) 27)

Antiepileptic; Binding; Brain (Gillard, M. (478) 1)

Anticonvulsant; Binding; Brain; Photoaffinity labelling (Fuks, B. (478) 11)

Anxiety; Plus-maze test; Anti-epileptic; Chlordiazepoxide; Buspirone (Gower, A.J. (481) 67)

Levodopa

GMC1111; Parkinson's disease; Dyskinesia; 6-Hydroxydopamine; Apomorphine; Dopamine stabilizer (Klitenberg, R. (459) 231)

Levosimendan

Myocardial infarction; Arrhythmias; Survival rate; (Rat) (Leprán, I. (464) 171)

(Lewis rat)

Cannabinoid receptor agonist; CP 55,940; Morphine; Self-administration (Norwood, C.S. (465) 105)

Antinociception; F344 rat; Morphine; Yohimbine; Clonidine (Herradón, G. (465) 251)

L-Glutamate

Serofendic acid; Fetal calf serum; Neurotoxicity; Nitric oxide (NO); Cerebral cortex (Taguchi, R. (477) 195)

Lidocaine

Na_v1.3 Na⁺ channel; Neonatal; β -Subunit; Oocyte (Lenkowski, P.W. (467) 23)

cAMP; (Bovine); Anaesthetic, local; Smooth muscle (Yunoki, M. (470) 65)

Ligand binding

TPEN; G protein-coupled receptor (Webster, J.M. (474) 1)

Ligand-gated

5-HT (5-hydroxytryptamine, serotonin); Cocaine; Overexpression; Hippocampus; 5-HT₃ receptor (Carta, M. (459) 167)

Anaesthetic; Benzodiazepine; γ -Aminobutyric acid; THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol); Inhibition (Smith, M. (478) 21)

Light/dark test, mouse

Antidepressant; Antipsychotic; Anxiolytic; Neuropeptide receptor ligand (Bourin, M. (463) 55)

Lignan

Phyllanthus amarus; Allodynia; Anti-oedematogenic; Myeloperoxidase; Inflammatory pain; Neuropathic pain (Kassuya, C.A.L. (478) 145)

Ligustrazine

Coronary artery, porcine; Adenylate cyclase; Ca²⁺ channel, L-type (Shan Au, A.L. (468) 199)

Limbic system

Anxiety; Anxiolytic; Anxiogenic; Stress; Benzodiazepine; 5-HT_{1A} receptor (Millan, M.J. (463) 67)

(–)-Linalool

Essential oil; Antinociceptive activity; Acetic acid-induced writhing response; Hot plate test; Locomotor activity (Peana, A.T. (460) 37)

Linkage

Psychosis; Association; Genetic; 5-HT (5-hydroxytryptamine, serotonin); Proline; Neuregulin (Collier, D.A. (480) 177)

Linoleic acid

Statins; $\Delta 5$ desaturase (Ris  , P. (467) 73)

Linoleoylamide

erg current; GH₃ cell (Liu, Y.-C. (458) 37)

Lipid peroxidation

Diabetes; Streptozotocin; Hippocampus; Cortex; GFAP (glial fibrillary acidic protein) (Baydas, G. (462) 67)

Lipopolysaccharide

Ursodeoxycholic acid; Smooth muscle cell, aortic; Smooth muscle cell, coronary artery; Nitric oxide (NO) synthase; Interferon- γ (Ma, J. (464) 79)

Lipopolysaccharide

Endotoxaemia; Tail artery; Vasocontraction (Ralevic, V. (460) 145)

Interleukin-18; Monocyte; Inflammation; Glyburide; Purinoreceptor sub-type P_{2X7} (M  hl, H. (482) 325)

Lipopolysaccharides

Alveolar macrophage; Nitric oxide synthesis; Phosphodiesterase; Arginase; iNOS (Koschorreck, S. (471) 229)

5-Lipoxygenase inhibition

Erycrisagallin; (*Erythrina mildbraedii*); Arachidonic acid metabolism; Anti-inflammatory activity (Njamen, D. (468) 67)

Lithium chloride

Conditioned taste aversion; Nefazodone; Corticosterone (Gorzalka, B. (471) 129)

Liver

Nitric oxide (NO); Cirrhosis; L-NAME (*N*^G-nitro-L-arginine methyl ester) (Yang, W. (461) 41)

Permeability transition pore; Binding site; Specific; Antioxidant property; Mitochondrion; (Rat) (Elimadi, A. (468) 93)

Liver catechol-O-methyltransferase

Catechol-O-methyltransferase inhibitor; Kinetic; BIA 3-202; Parkinson's disease (Bonif  cio, M.J. (460) 163)

Liver injury

Astressin; Hepatic sympathectomy; Central nervous system (Nakade, Y. (460) 135)

L-NAME (*N*^G-nitro-L-arginine methyl ester)

Morphine; Nitric oxide (NO); L-Arginine; Conditioned place preference; Ventral tegmental area; (Rat) (Gholami, A. (458) 119)

Nitric oxide (NO); Cirrhosis; Liver (Yang, W. (461) 41)

L-NAME (*N*^G-nitro-L-arginine methylester)

Nitric oxide (NO); NOS-2 knockout; NOS-3 knockout; $\alpha_{2A/D}$ -Adrenoceptor knockout (Vandeputte, C. (466) 129)

L-NAME (*N*^G-nitro-L-arginine methyl ester)

Apomorphine; Morphine; Nitric oxide (NO); L-Arginine; Locomotor activity; Sensitization; (Mouse) (Zarrindast, M.-R. (482) 205)

LNCaP

PC-3; Intermediate-conductance K⁺ channel, intermediate-conducting, Ca²⁺-activated; Riluzole; 1-EBIO; Benign prostatic hyperplasia (Parihar, A.S. (471) 157)

L-Norokadaone

Antinociception; Morphine; Serine/threonine protein phosphatase; Okadaic acid; Cantharidin; Calyculin-A; [³H]Naloxone (Moncada, A. (465) 53)

Local anaesthetic

Procaine; Fluid-phase endocytosis; Exocytosis; Fibroblast; Skin, human; Neutral red uptake assay (Michalik, M. (475) 1)

Localization

Nucleoside transporter; Nucleoside analog; Renal cancer; Kidney; Drug disposition (Mangravite, L.M. (479) 269)

Locomotor activity

Vomiting; CP55,940; SR141716A; Cannabinoid CB₁ receptor; (Least shrew); G-protein; Potency; Efficacy (Darmani, N.A. (459) 83)

(–)-Linalool; Essential oil; Antinociceptive activity; Acetic acid-induced writhing response; Hot plate test (Peana, A.T. (460) 37)

Delayed neuronal death; Hippocampus; Cerebral ischemia; Global ischemia; (Mongolian gerbil); Neuroprotective drug (Katsuta, K. (467) 103)

Morphine; Behavioral sensitization; Nifedipine; Nimodipine; Verapamil (Zhang, Q. (467) 145)

(Selected rat line); Alcohol preference; Risperidone; Food consumption (Ingman, K. (468) 121)

Antisense; Cocaine; Conditioned place preference; Convulsion; Gene expression; Microarray; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

Apomorphine; Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Sensitization; (Mouse) (Zarrindast, M.-R. (482) 205)

Locus coeruleus

Extracellular unitary recording; Noradrenaline; Microdialysis; Alnespirone; Clonidine; α_2 -Adrenoceptor; 5-HT_{1A} receptor (Astier, B. (459) 17)

Dorsal raphe nucleus; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin); 5-HIAA (5-hydroxyindoleacetic acid); Tryptophan; Ethanol; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

Corticotropin-releasing factor (CRF); DMP695; Unit activity (Lejeune, F. (464) 127)

Morphine; Dentate gyrus; Norepinephrine; Synaptic plasticity (Zhu, H. (467) 141)

Long QT syndrome

Ca²⁺ current; K⁺ current; Heart (Bai, C.-X. (476) 35)

Mexiletine; Sparfloxacin; Monophasic action potential; Effective refractory period (Takahara, A. (476) 115)

Loop diuretic

Furosemide; Vasoactivity; Resistance artery; (Human) (Pickkers, P. (466) 281)

Loop of Henle

Microperfusion, in vitro; Fenoldopam; Arachidonic acid; Protein kinase C (Grider, J.S. (473) 185)

Losartan

Angiotensin II; NADPH oxidase; Heart; Angiotensin AT₁ receptor; Ischaemia–reperfusion (Oudot, A. (462) 145)

CGRP (Calcitonin gene-related peptide); Perindopril; Renohypertension (Qin, X.-P. (464) 63)

Low-efficacy agonist

Acetylcholine release; Adenosine A₁ receptor; Partial agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Bueters, T.J.H. (481) 141)

Low-molecular-weight heparin

Adriamycin; Glomerulopathy; Glycosaminoglycan; Oxidative stress (Deepa, P.R. (478) 199)

Luciferase

Somatostatin; Somatostatin sst₂ receptor 2; Non-peptide antagonist; SRE (serum response element); cAMP (Nunn, C. (465) 211)

Luciferase gene-reporter assay

PTH (Parathyroid hormone); Tuberoinfundibular peptide (TIP39); PTH2 receptor; Proliferation; Bioluminescence assay (Misiano, P. (468) 159)

Lung

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Vas deferens; BIBN4096BS; [Cys(Et)^{2,7}]hCGRP α ; Adrenomedullin-(22–52), human; (Rat) (Juaneda, C. (474) 165)

Allergen; Allergic pulmonary inflammation; Asthma; Glucocorticosteroid; Magnetic resonance imaging (MRI); Mitogen-activated protein kinase inhibitor; Oedema; Oedema resolution (Tigani, B. (482) 319)

Lung cancer

PD176252; Gastrin releasing peptide receptor; Antagonist; Proliferation (Moody, T.W. (474) 21)

Lung eosinophilia

Dexamethasone; ICAM-1 (intercellular adhesion molecule); Sephadex bead; TNF- α (tumor necrosis factor- α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Lung, porcine

Endothelin-1; Endothelin-1-(1–31); Endothelin ET_A receptor; Endothelin ET_B receptor; Radio receptor binding assay (Kitamura, H. (465) 31)

Lycium barbarum

Polysaccharide-protein complex; Cytokine; Gene expression; Bioassay (Gan, L. (471) 217)

Lymphocyte

Amiodarone; Myocarditis; Immune system; Mast cell (Matsui, S. (469) 165)

[Lys²]angiotensin II

Angiotensin II; Angiotensin AT₁ receptor; Tachyphylaxis; mRNA; Untranslated region; CHO cell line (França, L.P. (476) 25)

Lysosomal sorting

Receptor conservation; Receptor affinity; Endocytosis rate; Endosomal sorting; Selective agonist endocytosis; Buoyant density separation (Parker, S.L. (474) 31)

Lysozyme release

N-formylmethionyl peptide; Neutrophil, human; Chemotaxis; Superoxide anion generation; Receptor binding (Spisani, S. (469) 13)

M 100907

5-HT_{2A} receptor antagonist; EMD 281014 (Bartoszyk, G.D. (473) 229)

Macrolide antibiotic

Airway smooth muscle contraction; Airway hyperresponsiveness; Erythromycin; Ca²⁺-dependent Cl[−] current (Janssen, L.J. (475) 93)

Macrophage

α₂-Adrenoceptor agonist; Interleukin-12; p38 Mitogen-activated protein kinase (Kang, B.Y. (467) 223)

Magnetic resonance imaging (MRI)

Allergen; Allergic pulmonary inflammation; Asthma; Glucocorticosteroid; Lung; Mitogen-activated protein kinase inhibitor; Oedema; Oedema resolution (Tigani, B. (482) 319)

Magnolol

Honokiol; Ca²⁺; Cortical neuron, rat; SH-SY5Y neuroblastoma (Zhai, H. (474) 199)

MAHMA NONOate

Platelet inhibition, in vivo; Nitric oxide (NO) donors; S-nitrosoglutathione; Vasodepression systemic (Homer, K.L. (482) 265)

Malignant mesothelioma

Experimental therapeutics; Antiproliferative activity; Apoptosis (de Cupis, A. (473) 83)

Malondialdehyde

Quercetin; Antioxidant; Prooxidant; Glutathione (Choi, E.J. (482) 281)

Maltol-glucoside

Acetophenones; Arachidonic acid metabolism; Anti-inflammatory compound; Analgesic compound (Sala, A. (460) 219)

Mania

Antidepressant; Bipolar disorder; Imipramine; Rapid cycling; Super-sensitivity (D'Aquila, P.S. (458) 129)

MAP (mitogen-activated protein) kinase

DIF-1; Germinal vesicle breakdown; cAMP (Kubohara, Y. (460) 93)

Phospholipase A₂; NFκB (nuclear factor-κB); Interleukin-2; T-lymphocyte (Burgermeister, E. (466) 169)

Heat shock protein; Neutrophil; TNF-α (tumor necrosis factor-α) (Niwa, M. (466) 245)

Nitric oxide (NO); Urinary tract infection; NF-κB (nuclear factor-κB); Tyrosine kinase (Poljakovic, M. (469) 21)

Calcitonin receptor-like receptor; CGRP (Calcitonin gene-related peptide); Proliferation; Osteoblast (Kawase, T. (470) 125)

Endothelial cell; Aorta; OP4 receptor; Immunocytochemistry; In situ hybridization (Granata, F. (482) 17)

ERK (Extracellular signal-regulated kinase)1/2; Sarafotoxin 6c; Endothelin; ET_B receptor (Uddman, E. (482) 39)

Marble-burying

Animal model; Defensive behavior; Fear; Anxiety; Coping, active; Coping, passive; Avoidance; Shock-prod burying (De Boer, S.F. (463) 145)

Marijuana

Gene expression; Drug abuse (Casu, M.A. (459) 97)

Marmoset, monkey

WAY 100635; Anxiety; Figure-eight maze; Taxidermized predator (Barros, M. (482) 197)

Mast cell

Adrenomedullin; Calcitonin gene-related peptide (CGRP); CRLR (Calcitonin-receptor-like receptor); RAMP (Receptor-activity modifying protein); Peritoneal; (Rat) (Matsushima, M. (464) 111)

Cannabinoid receptor; Histamine release, anti-IgE-induced; Anandamide; Palmitoylethanolamide; WIN 55,512-2 (Lau, A.H.Y. (464) 229)

Amiodarone; Myocarditis; Immune system; Lymphocyte (Matsui, S. (469) 165)

PAR (proteinase-activated receptor); PAR-activating peptide (PAR-AP); Thrombin; Histamine; Peritonitis (Dugina, T.N. (471) 141)

Diabetes; Systemic anaphylaxis; Glucocorticoid (Carvalho, V.F. (472) 221)

Ca²⁺; Calmodulin; Airway; Inflammatory cell (Ten Broeke, R. (476) 151)

Airway; Substance P; Inflammation; Neutrophil (van der Kleij, H.P.M. (476) 249)

Stilbene; Cl[−] channel; Exocytosis; Diethylstilbestrol; Hexestrol (Rolloff, T. (478) 81)

Chymase; Pulmonary fibrosis; Collagen synthesis; TGF-β1 (transforming growth factor-β1) (Tomimori, Y. (478) 179)

Inflammation; Thermal hyperalgesia; Paw edema; Resiniferatoxin (Zhang, Y.-H. (481) 301)

Matrigel assay

Glycosaminoglycan; Acharan sulfate; Tumor suppression; Angiogenesis (Lee, Y.S. (465) 191)

Matrix metalloproteinase-2

Quercetin; Angiogenesis; Umbilical vein endothelial cell (Human); Microvascular dermal endothelial cell (Human) (Tan, W.-f. (459) 255)

Asiatic acid; Ursolic acid; HaCaT human keratinocyte; Reactive oxygen species; p53 (Soo Lee, Y. (476) 173)

Matrix metalloproteinase 9

Cilomilast; Phosphodiesterase 4 inhibitor; Dendritic cell; Skin, mouse; Toluene-2,4-diisocyanate; Zymography (Bäumer, W. (481) 271)

Mazindane

Cocaine discrimination; (Mouse); (Rat); (Rhesus monkey); Mazindol; Motor activity, mouse; Neurotransmitter binding (Houlihan, W.J. (458) 263)

Mazindol

Cocaine discrimination; (Mouse); (Rat); (Rhesus monkey); Mazindane; Motor activity, mouse; Neurotransmitter binding (Houlihan, W.J. (458) 263)

MCC-134

K⁺ channel, ATP-sensitive; Sulphonylurea receptor; Urethra; Smooth muscle (Yunoki, T. (482) 287)

MCH (melanin-concentrating hormone)

Food intake; Body weight; Neuropeptide Y; Obesity (Shearman, L.P. (475) 37)

MCL0020

Melanocortin MC₄ receptor; Melanocortin; Anxiety; MT II (Ac-[Nle⁴,Asp⁵,D-Phe⁷,Lys¹⁰]α-MSH-(4-10)-NH₂) (Chaki, S. (474) 95)

MCP-1 (monocyte chemoattractant protein-1)

Diabetes mellitus; Atherosclerosis; LDL (low-density lipoprotein), glycosidized; NF-κB (nuclear factor-κB); Umbilical vein endothelial cell, human (Sonoki, K. (475) 139)

M-current

K⁺ current; Oxo-tremorine M; Muscarinic receptor; Channel expression (Guo, J. (462) 25)

MDA (methylenedioxymphetamine)

MDMA (methylenedioxymphetamine); MDEA (methylenedioxyethylamphetamine); Cathinone; Cocaine; Nisoxetine (Cleary, L. (476) 31)

MDEA (methylenedioxyethylamphetamine)

MDMA (methylenedioxymphetamine); MDA (methylenedioxyamphetamine); Cathinone; Cocaine; Nisoxetine (Cleary, L. (476) 31)

MDMA (methylenedioxymphetamine)

MDA (methylenedioxyamphetamine); MDEA (methylenedioxyethylamphetamine); Cathinone; Cocaine; Nisoxetine (Cleary, L. (476) 31)

Temperature; Self-administration (Cornish, J.L. (482) 339)

MDR1

ABC transporter; Caco-2 cell; Digoxin; Intestinal transport; P-glycoprotein; MRP2 (Lowes, S. (458) 49)

MDR (multidrug resistance)

Ivermectin; (Dog); (Collie); Hypersensitivity; P-glycoprotein (Roulet, A. (460) 85)

Mechanical allodynia

Orexin-A; Thermal hyperalgesia; SB-334867; Carrageenan test; Spinal cord (Yamamoto, T. (481) 175)

Medial pontine reticular formation

Sleep; REM sleep; Dorsal raphe nucleus; Laterodorsal tegmental nucleus; 5-HT_{1A} receptor (Monti, J.M. (478) 121)

MEK-1

Baicalin; p42/p44 MAPK (ERK); Raf-1; Prostaglandin E₂ (Nakahata, N. (461) 1)

Melanocortin

Melanocortin MC₄ receptor; Anxiety; MCL0020; MT II (Ac-[Nle⁴,Asp⁵,D-Phe⁷,Lys¹⁰]α-MSH-(4-10)-NH₂) (Chaki, S. (474) 95)

Melanocortin MC₄ receptor

Melanocortin; Anxiety; MCL0020; MT II (Ac-[Nle⁴,Asp⁵,D-Phe⁷,Lys¹⁰]α-MSH-(4-10)-NH₂) (Chaki, S. (474) 95)

Myocardium; Reperfusion injury; Oxygen free radical; γ-MSH (γ-melanocyte-stimulating hormone); FMRFamide-like (Phe-Met-Arg-Phe-NH₂-like) peptide (Mioni, C. (477) 227)

Chronic pain; Formalin test (Bellasio, S. (482) 127)

Melanocortin receptor

Obesity; G-protein-coupled receptor; Melanotropin (Holder, J.R. (462) 41)

α-MSH (α-melanocyte-stimulating hormone); Nerve crush; Cisplatin-induced neuropathy; Melanotan-II (Ter Laak, M.P. (462) 179)

Axotomy; Injury; mRNA expression; POMC (proopiomelanocortin); Retina (Lindqvist, N. (482) 85)

Melanotan-II

Melanocortin receptor; α-MSH (α-melanocyte-stimulating hormone); Nerve crush; Cisplatin-induced neuropathy (Ter Laak, M.P. (462) 179)

Melanotropin

Obesity; G-protein-coupled receptor; Melanocortin receptor (Holder, J.R. (462) 41)

Melatonin

Antioxidant; Free radical; Mitochondria; Ischemia/reperfusion (Okatani, Y. (469) 145)

Photoperiod; *Phodopus*; Leptin; SOCS3; CART (Mercer, J.G. (480) 43)

Membrane transporter

Myocardial infarction; Bradykinin receptor; (Rat) (Sandmann, S. (458) 3)

Memory

Fear; Learning; Amygdala; Hippocampus; Context (Sanders, M.J. (463) 217)

Chlorisondamine; Nicotine; Scopolamine; Sulpiride (Hefco, V. (474) 227)

Dopamine; Kainic acid; 6-OHDA (6-hydroxydopamine); Substantia nigra; Ventral tegmental area (Hefco, V. (475) 55)

Memory consolidation

Cannabinoid CB₁ receptor antagonist; Radial arm maze (Wolff, M.C. (477) 213)

Memory retention

Passive avoidance; Cholinoceptor drug; Histaminergic agent; (Rat) (Eidi, M. (465) 91)

Meningeal artery

Calcitonin gene-related peptide; Vasomotor response; Human; Cerebral artery (Jansen-Olesen, I. (481) 207)

Menopause

Ca²⁺ channel antagonist; Nifedipine; Ovariectomy; Flushing; Tail skin temperature (Kai, M. (481) 79)

Mesencephalic

Development; Dopaminergic; Pitx3; Midbrain; Dopamine (Smidt, M.P. (480) 75)

Mesenteric artery

Purinergic inhibitory neuromodulation; Endothelium-derived factor; (Hamster) (Thapaliya, S. (461) 129)

Zucker rat; Blood pressure; Aorta; Noradrenaline; Endothelin-1; Endothelium (Subramanian, R. (477) 143)

Mesenteric artery, rat

Aging; Clenbuterol; β-Adrenoceptor; Hypertension; Nitrergic innervation; Adrenergic innervation (Ferrer, M. (466) 289)

Mesenteric vascular bed

Endothelium-derived hyperpolarizing factor; DOCA-salt hypertension; Tempol; Free radical species (Adeagbo, A.S.O. (481) 91)

Mesolimbic

Ventral tegmental area; Synaptic transmission; Electrophysiology; Drug addiction (Mathon, D.S. (480) 97)

Messenger RNA (mRNA)

β_1 -Adrenoceptor; β_2 -Adrenoceptor; β_3 -Adrenoceptor; Smooth muscle relaxation; Esophageal muscularis mucosae, guinea-pig (Horinouchi, T. (473) 79)

Metabolic syndrome

Autonomic nervous system; Hypothalamus; Circadian rhythm; Visceral obesity; Diabetes; Hypertension (Kreier, F. (480) 51)

Metabolic syndrome X

Dopamine; Dopamine D2 receptor; Insulin resistance; Obesity (Pijl, H. (480) 125)

Metabolism

Huperzine A; Cytochrome P450; Microsome (Xiaochao, Ma. (461) 89)

Clozapine; Metabolite; Hippocampus (Heiser, P. (476) 167)

Metabolite

Nefiracetam; Renal papillary necrosis; Prostaglandin; Biomarker (Tsuchiya, Y. (475) 119)

Clozapine; Metabolism; Hippocampus (Heiser, P. (476) 167)

Metabotropic glutamate receptor

Receptor binding; Occupancy; mGlu5 (Anderson, J.J. (473) 35)

Metal chelator

P2X₄ purinoceptor; ATP purinoceptor; Copper neuromodulation; Zinc neuromodulation; Desensitized purinoceptor; Metal neuromodulation (Coddou, C. (472) 49)

Metallothionein

Zn²⁺ trafficking; Transition element; Zinquin; Mitochondrion; Cultured cell; Fluorescence microscopy; (Rat) (Colvin, R.A. (479) 171)

Metal neuromodulation

P2X₄ purinoceptor; ATP purinoceptor; Copper neuromodulation; Zinc neuromodulation; Desensitized purinoceptor; Metal chelator (Coddou, C. (472) 49)

Metamizol

Opioid; Antinociception; Potentiation; Tolerance (Hernández-Delgadillo, G.P. (469) 71)

Methadone

Morphine; Ketamine; Pain; Mononeuropathy; Paw pressure; Isobologram; (Rat) (Pelissier, T. (477) 23)

Methamphetamine

Monoclonal antibody; Drug abuse; Pharmacokinetics; Behavior (Byrnes-Blake, K.A. (461) 119)

Behavioral sensitization; Pharmacokinetics; Microdialysis, brain; Drug transporter (Kitaichi, K. (464) 39)

Dopamine; VMAT-2; (Mouse) (Ugarte, Y.V. (472) 165)

Behavioral sensitization; Nocturnal behavior; Monoamine metabolism; Dopamine; 5-HT (5-hydroxytryptamine; serotonin) (Kitanaka, N. (474) 63)

Norepinephrine transporter; Gene expression; Alternative splicing; Uptake inhibitor (Kitayama, S. (479) 65)

Methylphenidate

Vesicular monoamine transporter; Amphetamine; Cocaine (Fleckenstein, A.E. (479) 283)

Methylprednisolone

Heat shock protein; HSP72; NF- κ B (nuclear factor- κ B); Cholecystokinin-octapeptide; Pancreatitis (Rakonczay Jr., Z. (464) 217)

1-Methyl-1,2,3,4-tetrahydroisoquinoline

Rotenone; Mortality; HPLC (high-performance liquid chromatography); Dopamine metabolism; (Rat); Brain (Antkiewicz-Michaluk, L. (466) 263)

5-Methylurapidil

Adrenoceptor subtype; Mydriasis; (Rat); Norepinephrine; L-765314 (Yu, Y. (471) 135)

Metopon

Opioid; Analgesia; Morphine (King, M.A. (459) 203)

Metronomic therapy

Geranylgeranyl transferase inhibitor; Endothelial cell, human; Breast cancer cell, human (Bocci, G. (477) 17)

Metyrapone

Emesis; Cisplatin; ACTH (adrenocorticotrophic hormone) (Sam, T.S.W. (466) 163)

Mexiletine

Esophageal sphincter, lower; Smooth muscle; Nitric oxide (NO); Nitric oxide (NO) synthase; 3',5'-Cyclic guanosine monophosphate (Kohjitani, A. (465) 145)

Sparfloxacin; Long QT syndrome; Monophasic action potential; Effective refractory period (Takahara, A. (476) 115)

Mg²⁺

MK-801; Hyperalgesia; Mg²⁺-deficiency; (Rat); Nociceptive pathway; Sensitization (Alloui, A. (469) 65)

Mg²⁺-deficiency

Mg²⁺; MK-801; Hyperalgesia; (Rat); Nociceptive pathway; Sensitization (Alloui, A. (469) 65)

mGlu5

Metabotropic glutamate receptor; Receptor binding; Occupancy (Anderson, J.J. (473) 35)

mglu receptor

Amino acid neurotransmitter; Microdialysis; Periaqueductal grey (de Novellis, V. (462) 73)

MGPA (DL-Mercaptomethyl-3-guanidinoethylthiopropionic acid)

Carboxypeptidase B; Microthrombosis; Fibrinolysis; Potato-derived carboxypeptidase inhibitor (CPI) (Muto, Y. (461) 181)

MicroAct

Atopic dermatitis; NC/Nga, mouse; Scratching; Itch (Takano, N. (471) 223)

Microarray

Angiotensin II; Gene expression; Transcription factor; Renal cell, human; Proximal tubule (Braam, B. (464) 87)

Antisense; Cocaine; Conditioned place preference; Convulsion; Gene expression; Locomotor activity; Sensitization; σ Receptor (Matsumoto, R.R. (469) 1)

Microbial angiogenesis inhibitor

Rhizoxin; Angiogenic endothelial function; Plasminogen activator; Tube formation (Aoki, K. (459) 131)

Micro-CT

Anorectic; Cannabinoid; AM-251; Obesity (Hildebrandt, A.L. (462) 125)

Microdialysis

Locus coeruleus; Extracellular unitary recording; Noradrenaline; Alnespirone; Clonidine; α_2 -Adrenoceptor; 5-HT_{1A} receptor (Astier, B. (459) 17)

Ethanol withdrawal, repeated; Amino acid; Hippocampus (Dahchour, A. (459) 171)

Immobilization stress; Amygdaloid nucleus, basolateral; Lactate; Benzodiazepine (Uehara, T. (459) 211)

Ventral subiculum; Muscarinic receptor; Nucleus accumbens; Dopamine; (Rat) (Moss, S. (460) 117)

Locus coeruleus; Dorsal raphe nucleus; 5-HT (5-hydroxytryptamine, serotonin); 5-HIAA (5-hydroxyindoleacetic acid); Tryptophan; Ethanol; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

mglu receptor; Amino acid neurotransmitter; Periaqueductal grey (de Novellis, V. (462) 73)

Adenosine A_{2A} receptor; Parkinson's disease; Striatum; Glutamate (Corsi, C. (464) 33)

Ethanol; Nicotine; Nicotinic receptor; Dopamine, mesolimbic; (Rat) (Ericson, M. (467) 85)

GABA (γ -Aminobutyric acid); Nitric oxide (NO); Sodium nitroprusside; Hippocampus (Hada, J. (467) 119)

Ammonia neurotoxicity; NMDA receptor; cGMP; Hydroxyl radical; Striatum; Taurine (Hilgier, W. (468) 21)

Anxiety; Norepinephrine; Cortex prefrontal; Reboxetine; Rat (Dazzi, L. (476) 55)

Ethanol; Cocaine; Dopamine release; Nucleus accumbens; Non-exocytotic (Yan, Q.-S. (477) 37)

Dopamine; Dopamine D₃/D₂ receptor agonist; Nucleus accumbens (Shilliam, C.S. (477) 113)

Adrenal steroid; Dopamine; Nicotine; Nucleus accumbens; Sensitization (Molander, A. (481) 51)

Nucleus accumbens; Dopamine; Feeding; Leptin (Krügel, U. (482) 185)

Microdialysis, brain

Methamphetamine; Behavioral sensitization; Pharmacokinetics; Drug transporter (Kitaichi, K. (464) 39)

GABA (γ -Aminobutyric acid); Glutamate release; Hippocampus; Baclofen; Ca²⁺ influx (Tanaka, S. (465) 61)

Microglial cell

Cannabinoid; Migration; Inflammation (Franklin, A. (474) 195)

Microperfusion, in vitro

Loop of Henle; Fenoldopam; Arachidonic acid; Protein kinase C (Grider, J.S. (473) 185)

Microphysiometry

Apoptosis; Extracellular acidification rate; Na⁺/H⁺ antiporter; Leukemic cell line (Khare, S. (465) 23)

Microscopy

Na⁺-Cl⁻-coupled neurotransmitter transporter; Neurotransmitter: Na⁺ symporter; FRET (fluorescence resonance energy transfer); Oligomer; Dimer (Sitte, H.H. (479) 229)

Microsome

Huperzine A; Metabolism; Cytochrome P450 (Xiaochao, Ma. (461) 89)

Microthrombosis

Carboxypeptidase B; Fibrinolysis; MGPA (DL-Mercaptomethyl-3-guanidinoethylthiopropionic acid); Potato-derived carboxypeptidase inhibitor (CPI) (Muto, Y. (461) 181)

Microvascular albumin leakage

Indomethacin; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Microvascular dermal endothelial cell (Human)

Quercetin; Angiogenesis; Umbilical vein endothelial cell (Human); Matrix metalloproteinase-2 (Tan, W.-f. (459) 255)

Micturition

Tachykinin; Urinary bladder; Central nervous system (Yamamoto, T. (477) 253)

Midazolam

Anticonvulsant; Benzodiazepine; AWD 131-138; Diazepam; Drug discrimination; Self-administration, monkey (Yasar, S. (465) 257)

Midbrain

Development; Mesencephalic; Dopaminergic; Pitx3; Dopamine (Smidt, M.P. (480) 75)

Midbrain tectum

Aversion; Dorsal periaqueductal gray; Superior colliculus; Inferior colliculus (Brandão, M.L. (463) 225)

Middle cerebral artery occlusion

Ischemia; Reperfusion; Body temperature; Neurological deficit; Diffusion-perfusion magnetic resonance imaging (Petty, M.A. (474) 53)

Migraine

Formalin test; Hyperalgesia; Nitric oxide (NO); Pain; Tail-flick test (Tassorelli, C. (464) 159)

Bradykinin; Prostaglandin E₂; Trigeminal; Primary culture (Jenkins, D.W. (469) 29)

Arteriovenous anastomosis; BIBN4096BS; Carotid vasodilatation; Cardiac output; CGRP (calcitonin gene-related peptide); α -CGRP human; (Pig) (Kapoor, K. (475) 69)

Dotarizine; Ca²⁺ channels P/Q; Chromaffin cell; Catecholamine release (Ruiz-Nuño, A. (481) 41)

Migration

Angiogenesis; Endothelial cell; Invasion; Tumor metastasis; Wf-536 (Nakajima, M. (459) 113)

Cannabinoid; Microglial cell; Inflammation (Franklin, A. (474) 195)

Milk suckling

2-Arachidonoyl glycerol; Endocannabinoid; Cannabinoid receptor; SR141716A; Cannabidiol (Fride, E. (461) 27)

Minichromosome maintenance protein

Smooth muscle cell, vascular; HMG-CoA reductase; E2F (Bruemmer, D. (462) 15)

Mirtazapine

Hot flush; Oestrogen; Tail-temperature; (Rat) (Berendsen, H.H.G. (482) 329)

Mitochondria

Melatonin; Antioxidant; Free radical; Ischemia/reperfusion (Okatani, Y. (469) 145)

Mitochondrion

Edaravone; Antioxidant; Free radical; Ischemia/reperfusion (Okatani, Y. (465) 163)

Permeability transition pore; Binding site; Specific; Antioxidant property; Liver; (Rat) (Elimadi, A. (468) 93)

Metallothionein; Zn²⁺ trafficking; Transition element; Zinquin; Cultured cell; Fluorescence microscopy; (Rat) (Colvin, R.A. (479) 171)

Ischaemia; Carvedilol (Monteiro, P. (482) 245)

Mitogen-activated protein kinase inhibitor

Allergen; Allergic pulmonary inflammation; Asthma; Glucocorticosteroid; Lung; Magnetic resonance imaging (MRI); Oedema; Oedema resolution (Tigani, B. (482) 319)

MK-801

Dizocilpine; NMDA receptor; Nicotine; Attention; Cognition (Rezvani, A.H. (465) 83)

Mg²⁺; Hyperalgesia; Mg²⁺-deficiency; (Rat); Nociceptive pathway; Sensitization (Alloui, A. (469) 65)

MKC-242

5-HT_{1A} receptor; Plus-maze test; (Mouse) (Sakaue, M. (458) 141)

Molecular model

Retigabine; GABA_A receptor complex; TBOB; Synergy; Isobole method (van Rijn, C.M. (464) 95)

Monensin

Ca²⁺ channel; Ca²⁺ entry, capacitative; Inositol 1,4,5-trisphosphate; Smooth muscle, vascular; Vasoconstriction (Wakabayashi, I. (464) 27)

(Mongolian gerbil)

Delayed neuronal death; Hippocampus; Cerebral ischemia; Global ischemia; Locomotor activity; Neuroprotective drug (Katsuta, K. (467) 103)

(Monkey)

Histamine H₃ receptor; Cloning; Expression; G-protein coupled receptor; Pharmacology (Yao, B.B. (482) 49)

Monoamine

Agmatine; Antidepressant; PC12 cell; Ca²⁺ (Li, Y.F. (469) 81)

Cocaine; Psychostimulant; Amphetamine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); DAT (dopamine transporter); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

Monoamine metabolism

Methamphetamine; Behavioral sensitization; Nocturnal behavior; Dopamine; 5-HT (5-hydroxytryptamine; serotonin) (Kitanaka, N. (474) 63)

Monoamine oxidase

Semicarbazide-sensitive amine oxidase; Glutathione; Hydrogen peroxide; Isoprenaline; Tyramine; Adipose cell (Visentin, V. (466) 235)

Monoamine oxidase A inhibitor

Nitric oxide (NO); Antidepressant; Antioxidant; Nerve cell culture; Neuroprotection (Boland, A. (466) 21)

Monoclonal antibody

Methamphetamine; Drug abuse; Pharmacokinetics; Behavior (Byrnes-Blake, K.A. (461) 119)

Monocyte

Interleukin-18; Lipopolysaccharide; Inflammation; Glyburide; Purinoreceptor subtype P_{2X7} (Mühl, H. (482) 325)

Monolayer permeability

Endothelial cell; Hypoxia; cAMP; ATP; Actin filament (Fan, Y. (481) 33)

Mononeuropathy

Morphine; Ketamine; Methadone; Pain; Paw pressure; Isobologram; (Rat) (Pelissier, T. (477) 23)

Monophasic action potential

Y-27632; Vasodilator; Rho-kinase (Takahara, A. (460) 51)

Famotidine; Torsades de pointe; HERG; QT interval; Atrioventricular block (Sugiyama, A. (466) 137)

Mexiletine; Sparfloxacin; Long QT syndrome; Effective refractory period (Takahara, A. (476) 115)

Morphine

Nitric oxide (NO); L-Arginine; L-NAME (N^G-nitro-L-arginine methyl ester); Conditioned place preference; Ventral tegmental area; (Rat) (Gholami, A. (458) 119)

Opioid; Analgesia; Metopon (King, M.A. (459) 203)

Inflammatory pain; Cyclooxygenase-2; Rofecoxib; Synergism (Déciga-Campos, M. (460) 99)

Cell proliferation; Gastric ulcer; Mucus; Stress; Myeloperoxidase (Cho, C.H. (460) 177)

Opiate; Pain; Analgesia; Formalin test; (Rat) (Sevostianova, N. (462) 109)

Antinociception; Serine/threonine protein phosphatase; Okadaic acid; Cantharidin; Calyculin-A; L-Norokadaone; [³H]Naloxone (Moncada, A. (465) 53)

Cannabinoid receptor agonist; CP 55,940; Self-administration; (Lewis rat) (Norwood, C.S. (465) 105)

Antinociception; Nucleus reticularis gigantocellularis/nucleus reticularis gigantocellularis alpha; Muscarinic antagonist; (Rat) (Abe, K. (465) 237)

Antinociception; Lewis rat; F344 rat; Yohimbine; Clonidine (Herradón, G. (465) 251)

Dentate gyrus; Norepinephrine; Locus coeruleus; Synaptic plasticity (Zhu, H. (467) 141)

Locomotor activity; Behavioral sensitization; Nifedipine; Nimodipine; Verapamil (Zhang, Q. (467) 145)

Cyclosporine A; FK506; Ileum, guinea pig; Tolerance; Dependence (Mehr, S.E. (467) 205)

Pain; Hyperalgesia; Carrageenan; α_2 -Adrenoceptor subtype (Lähdesmäki, J. (468) 183)

Flumazenil; Tolerance; Sex; Analgesia; (Rat) (Holtman Jr., J.R. (470) 149)

Jumping; Histamine; Naloxone; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (471) 105)

Jumping; Imipramine; Naloxone; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (473) 19)

Sequential three-key drug discrimination; Drug discrimination retention; Fixed-interval schedule; Pentobarbital; D-Amphetamine; Caffeine; (Pigeon) (Li, M. (476) 79)

Ketamine; Methadone; Pain; Mononeuropathy; Paw pressure; Isobologram; (Rat) (Pelissier, T. (477) 23)

Water intake; Drinking; Histamine system; Naloxone; (rat) (Eidi, M. (478) 105)

α -Difluoromethyl-ornithine; Aminoguanidine; Agmatine; Analgesia; Tolerance (Lu, G. (478) 139)

Inflammation; Allodynia; A-type afferent (Li, S. (481) 203)

Apomorphine; Nitric oxide (NO); L-Arginine; L-NAME (N^G -nitro-L-arginine methyl ester); Locomotor activity; Sensitization; (Mouse) (Zarrindast, M.-R. (482) 205)

Morphine tolerance

Morphine withdrawal; Analgesia; Prazosin; Clonidine (Özdoğan, Ü.K. (460) 127)

Anabolic–androgenic steroid; Nandrolone; Hypothermia; Reward; Dependence; (Mouse) (Célérier, E. (465) 69)

Morphine withdrawal

Morphine tolerance; Analgesia; Prazosin; Clonidine (Özdoğan, Ü.K. (460) 127)

Protein kinase A; Protein kinase C; Ca^{2+} channel; Noradrenaline turnover; Heart (Martínez, M.D. (471) 113)

Morphology

Antitumor activity; Catalase; Hydroselenite; Glutathione peroxidase; Nitric oxide (NO); Selenium (Arsenyan, P. (465) 229)

Morris watermaze

CP-101,606; (Rat); NMDA receptor NR2B subunit selective antagonist (Guscott, M.R. (476) 193)

Mortality

Rotenone; HPLC (high-performance liquid chromatography); Dopamine metabolism; (Rat); Brain; 1-Methyl-1,2,3,4-tetrahydroisoquinoline (Antkiewicz-Michaluk, L. (466) 263)

Motor activity, mouse

Cocaine discrimination; (Mouse); (Rat); (Rhesus monkey); Mazindane; Mazindol; Neurotransmitter binding (Houlihan, W.J. (458) 263)

Motor neuron disorder

Amyotrophic lateral sclerosis; GCP II; Glutamate; NAAG; NAALADase; Neuroprotection (Thomas, A.G. (471) 177)

(Mouse)

MKC-242; 5-HT_{1A} receptor; Plus-maze test (Sakaue, M. (458) 141)

Cocaine discrimination; (Rat); (Rhesus monkey); Mazindane; Mazindol; Motor activity, mouse; Neurotransmitter binding (Houlihan, W.J. (458) 263)

Elevated plus-maze; Test experience; Anxiety; Antidepressant; Benzodiazepine (Holmes, A. (459) 221)

5-HT, (5-hydroxytryptamine; serotonin); 5-HT_{3A} receptor; Anxiety; Animal model (Kelley, S.P. (461) 19)

μ -opioid receptor; κ -opioid receptor; G-protein activation; Antinociception (Mizoguchi, H. (461) 35)

Antifertility compound; (*Tripterygium wilfordii* Hook. f.); Whole-cell recording; Ca^{2+} -channel; Acrosome reaction; Spermatogenic cell (Bai, J.-P. (464) 9)

Anabolic–androgenic steroid; Nandrolone; Hypothermia; Morphine tolerance; Reward; Dependence (Célérier, E. (465) 69)

Baclofen; Breath test; GABA_B receptor; Gastric emptying (Symonds, E. (470) 95)

Benzodiazepine receptor, peripheral-type; PK11195; Ro5-4864; Depression; Steroid; Forced swimming test (Gavioli, E.C. (471) 21)

Jumping; Histamine; Morphine; Naloxone; Adrenoceptor agent (Zarrindast, M.-R. (471) 105)

Nicotine withdrawal; Self-administration; Acoustic startle; Prepulse inhibition; Somatic sign (Semenova, S. (472) 99)

Dopamine; Methamphetamine; VMAT-2 (Ugarte, Y.V. (472) 165)

Jumping; Imipramine; Morphine; Naloxone; Adrenoceptor agent (Zarrindast, M.-R. (473) 19)

Antinociception; Opioid; Oxymorphazone (Wu, H.-e. (473) 143)

Neuroactive steroid; Cocaine kindling; Sensitization (Kaminski, R.M. (474) 217)

Pruritus; Opioid system; TRK-820; CNS (central nervous system); Behavior (Umeuchi, H. (477) 29)

Apomorphine; Morphine; Nitric oxide (NO); L-Arginine; L-NAME (N^G -nitro-L-arginine methyl ester); Locomotor activity; Sensitization (Zarrindast, M.-R. (482) 205)

Mouse Defense Test Battery

Anxiety; Panic; GABA_A–benzodiazepine receptor; 5-HT (5-hydroxytryptamine, serotonin); Neuropeptide (Blanchard, D.C. (463) 97)

Mouse model

Anorexia; Hypothalamus; Genetic; Positional cloning; Neuropeptide Y; AgRP (agouti-related protein); POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Mouse mutant

ENU (ethyl-nitrosurea); Animal model; Phenotype-driven screen; Disease gene (Keays, D.A. (480) 205)

Movement disorder

Glutamate; Paroxysmal choreoathetosis (Richter, A. (458) 107)

Choreoathetosis; Dyskinesia; Glutamate; Kynurenic acid; Kynurenine hydroxylase (Richter, A. (478) 47)

Anandamide; 2-Arachidonoylglycerol; Cannabinoid; Dopamine; Reward (van der Stelt, M. (480) 133)

MPTP

Parkinson's disease; Pramipexole; Dopamine D₃ receptor (Ramirez, A.D. (475) 29)

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine)

Excitotoxicity; Neuroprotection; Pentacyclo-undecylamine (Geldenhuys, W.J. (458) 73)

mRNA

Angiotensin II; [Lys²]angiotensin II; Angiotensin AT₁ receptor; Tachyphylaxis; Untranslated region; CHO cell line (França, L.P. (476) 25)

mRNA expression

Axotomy; Injury; POMC (proopiomelanocortin); Melanocortin receptor; Retina (Lindqvist, N. (482) 85)

MRP2

ABC transporter; Caco-2 cell; Digoxin; Intestinal transport; MDR1; P-glycoprotein (Lowes, S. (458) 49)

MRS-2197

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

α-MSH (α-melanocyte-stimulating hormone)

Melanocortin receptor; Nerve crush; Cisplatin-induced neuropathy; Melanotan-II (Ter Laak, M.P. (462) 179)

Ischemia; Reperfusion; Corticosterone; Heart, rat (Vecseryes, M. (470) 177)

Myocardium; Reperfusion injury; Oxygen free radical; Melanocortin MC₃ receptor; FMRFamide-like (Phe-Met-Arg-Phe-NH₂-like) peptide (Mioni, C. (477) 227)

MT II (Ac-[Nle⁴,Asp⁵,D-Phe⁷,Lys¹⁰]α-MSH-(4-10)-NH₂)

Melanocortin MC₄ receptor; Melanocortin; Anxiety; MCL0020 (Chaki, S. (474) 95)

mTOR (mammalian target of rapamycin)

Angiotensin II; 4E-BP1 (4E-binding protein 1); Phosphatidylinositol 3-kinase; Angiotensin AT₁ receptor (Yamakawa, T. (478) 39)

Mucus

Cell proliferation; Gastric ulcer; Morphine; Stress; Myeloperoxidase (Cho, C.H. (460) 177)

Multidrug resistance

Peucedanum praeruptorum Dunn; Pyranocoumarins; KB-V1; P-glycoprotein; Apoptosis (Wu, J.Y.-C. (473) 9)

Multidrug resistance protein

cGMP; Vascular vessel (Mitani, A. (466) 223)

Multiple organ failure

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Oxygen radical; Superoxide dismutase; EUK-8; EUK-134; Superoxide anion; Shock (McDonald, M.C. (466) 181)

Multisubstrate mechanisms

DAT (Dopamine transporter); Leakage; Terreactant mechanisms; Na⁺-dependent transporter; Cl⁻-dependent transport; Slippage (Schenk, J.O. (479) 223)

Muscarine cholinceptor

Water intake; Drinking; α₁-Adrenoceptor; (Rat) (Oryan, S. (477) 123)

Muscarinic antagonist

Morphine; Antinociception; Nucleus reticularis gigantocellularis/nucleus reticularis gigantocellularis alpha; (Rat) (Abe, K. (465) 237)

Muscarinic M₂ receptor

Atrium, human, right; Carbachol; Negative inotropic effect, indirect; β₁-Adrenoceptor antagonist (Wangemann, T. (458) 163)

Muscarinic receptor

Microdialysis; Ventral subiculum; Nucleus accumbens; Dopamine; (Rat) (Moss, S. (460) 117)

K⁺ current; M-current; Oxo-tremorine M; Channel expression (Guo, J. (462) 25)

Antimuscarinic; 5-HT receptor; Gastrointestinal motility; (Rat) (Axelsson, L.-G. (467) 211)

Amyloid precursor protein; Alzheimer's disease (Qiu, Y. (468) 1)

Catalepsy; Extrapyramidal side effect; Haloperidol; Scopolamine; Knock-out mouse (Karasawa, H. (468) 15)

[³H]Quinuclidinyl benzylate; Colon, human; Circular muscle; Radioligand binding; Alkylating agent (Mansfield, K.J. (482) 101)

Muscimol

GABA_A receptor; HEK 293 cell; GABA (γ-aminobutyric acid); Diazepam; Radioligand binding (Peričić, D. (482) 117)

Mutagenesis

Animal model; ENU (ethyl-nitrosourea); Psychiatric disorder; Behaviour; High-throughput screen; Candidate gene (Ohl, F. (480) 219)

Mutant

DAT (dopamine transporter); SERT (serotonin transporter); Transmembrane domain; Cocaine selective; Antagonism (Uhl, G.R. (479) 71)

Mutant mouse

Stress; Anxiety; Stress-induced hyperthermia; Body temperature (Olivier, B. (463) 117)

Mycobacterium vaccae

Allergy; Asthma; Hygiene hypothesis (Smit, J.J. (470) 193)

Mydriasis

Adrenoceptor subtype; (Rat); Norepinephrine; 5-Methylurapidil; L-765314 (Yu, Y. (471) 135)

Myeloperoxidase

Cell proliferation; Gastric ulcer; Morphine; Mucus; Stress (Cho, C.H. (460) 177)

Baicalin; Baicalein; Ca^{2+} ; NADPH oxidase; Reactive oxygen intermediate (Shen, Y.-C. (465) 171)

Honokiol; Reactive oxygen species; NADPH oxidase; Cyclooxygenase; Glutathione peroxidase; Protein kinase C (Liou, K.-T. (475) 19)

Phyllanthus amarus; Lignan; Allodynia; Anti-oedematogenic; Inflammatory pain; Neuropathic pain (Kassuya, C.A.L. (478) 145)

Myenteric plexus

Intestine; Stomach; Enteric nervous system; Immune system; Inflammation; Leukotriene; Submucosal plexus (Liu, S. (459) 27)

Myenteric plexus-longitudinal muscle

Immunohistochemistry; Choline acetyltransferase; Capsaicin receptor; Confocal microscopy (Anavi-Goffer, S. (458) 61)

Myocardial contractility

Dantrolene; Myocardial infarction; Ca^{2+} , intracellular (Min, J.-Y. (471) 41)

Myocardial infarction

Bradykinin receptor; Membrane transporter; (Rat) (Sandmann, S. (458) 3)

Arrhythmias; Survival rate; (Rat); Levosimendan (Leprán, I. (464) 171)

Dantrolene; Ca^{2+} , intracellular; Myocardial contractility (Min, J.-Y. (471) 41)

Reperfusion injury; Selectin; Cell adhesion; Echocardiography (Onai, Y. (481) 217)

Myocardial injury

SEA0400; $\text{Na}^+/\text{Ca}^{2+}$ exchanger; Ischemia; Reperfusion; Inhibitor (Takahashi, K. (458) 155)

Myocarditis

Amiodarone; Immune system; Lymphocyte; Mast cell (Matsui, S. (469) 165)

Myocardium

Reperfusion injury; Oxygen free radical; Melanocortin MC_3 receptor; γ -MSH (γ -melanocyte-stimulating hormone); FMRFamide-like (Phe-Met-Arg-Phe- NH_2 -like) peptide (Mioni, C. (477) 227)

Myocardium, human

β_1 -adrenoceptor selectivity; Nebivolol; Bisoprolol; Carvedilol (Bundkirchen, A. (460) 19)

Nebivolol; Nebivolol, enantiomer; Nebivolol, metabolite; Contractility (Bundkirchen, A. (476) 97)

Myocardium, rat

Carvedilol; α_1 -Adrenoceptor; β -Adrenoceptor (Qvigstad, E. (481) 83)

Myosin light chain

Aorta; cGMP; Hydrogen peroxide; Norepinephrine (Fujimoto, S. (459) 65)

Myosin light chain kinase

SNI-2011; Amylase secretion; Nitric oxide (NO) synthase; NOS knockout, mouse, neuronal; Guanyl cyclase, soluble (Yuan, Z. (464) 197)

Myosin light chain phosphorylation

Norepinephrine; Smooth muscle; Tyrosine kinase (Adegunloye, B.J. (476) 201)

 Na^+

DAT (dopamine transporter); Dopamine recognition; Cation; Access model (Chen, N. (479) 213)

NAAG

Amyotrophic lateral sclerosis; GCP II; Glutamate; NAALADase; Neuroprotection; Motor neuron disorder (Thomas, A.G. (471) 177)

NAALADase

Amyotrophic lateral sclerosis; GCP II; Glutamate; NAAG; Neuroprotection; Motor neuron disorder (Thomas, A.G. (471) 177)

 $\text{Na}^+/\text{Ca}^{2+}$ exchange

Na^+/H^+ exchange; Heart, isolated, rat; Ischemia/reperfusion injury; Cariporide; KB-R7943; Nitric oxide (NO); Free radical (Mączewski, M. (461) 139)

 $\text{Na}^+/\text{Ca}^{2+}$ exchanger

SEA0400; Myocardial injury; Ischemia; Reperfusion; Inhibitor (Takahashi, K. (458) 155)

Endothelin-1; Cardiac muscle; Neonate, mouse; $[\text{Ca}^{2+}]_i$ transient (Nagasaki, T. (472) 197)

Ischemia; Reperfusion; Acute renal failure; Endothelin-1 (Ogata, M. (478) 187)

 Na^+-Cl^- -coupled neurotransmitter transporter

Neurotransmitter: Na^+ symporter; FRET (fluorescence resonance energy transfer); Microscopy; Oligomer; Dimer (Sitte, H.H. (479) 229)

 Na^+ current

Ca^{2+} current; Ion channel; Toxin; Catecholamine cell (Arroyo, G. (475) 11)

Spider toxin; Dorsal ganglion neuron; Patch-clamp, whole-cell (Xiao, Y. (477) 1)

 Na^+ -dependent transporter

DAT (Dopamine transporter); Multisubstrate mechanisms; Leakage; Terreactant mechanisms; Cl^- -dependent transport; Slippage (Schenk, J.O. (479) 223)

NADPH oxidase

Angiotensin II; Heart; Angiotensin AT_1 receptor; Ischaemia–reperfusion; Losartan (Oudot, A. (462) 145)

Baicalin; Baicalein; Ca^{2+} ; Myeloperoxidase; Reactive oxygen intermediate (Shen, Y.-C. (465) 171)

Honokiol; Reactive oxygen species; Myeloperoxidase; Cyclooxygenase; Glutathione peroxidase; Protein kinase C (Liou, K.-T. (475) 19)

Nadroparine

Histamine; Eye; Nitric oxide (NO); Hypersensitivity (Giannoulaki, V. (481) 119)

 Na^+/H^+ antiporter

Apoptosis; Microphysiometry; Extracellular acidification rate; Leukemic cell line (Khare, S. (465) 23)

Na⁺/H⁺ exchange

Na⁺/Ca²⁺ exchange; Heart, isolated, rat; Ischemia/reperfusion injury; Cariporide; KB-R7943; Nitric oxide (NO); Free radical (Mączewski, M. (461) 139)

Na⁺/H⁺ exchanger

Acetylcholine; Pulmonary artery; Wistar–Kyoto, rat (WKY); Spontaneously hypertensive, rat (SHR) (Chau, W.H. (464) 177)

Na⁺,K⁺-ATPase

Antinociception; Endomorphin-1; Ouabain; Tail-flick test (Horvath, G. (458) 291)

Na⁺/K⁺ ATPase

Nicotine; Glutamate uptake; Glutamine synthetase (Lim, D.K. (476) 179)

Naloxonazine

Endomorphin-1; Antinociception; Gastrointestinal motility; μ -Opioid receptor; Naloxone methiodide (Spampinato, S. (469) 89)

Naloxone

Opioid receptor; Opioid receptor antagonist; Diprenorphine; PET (Positron Emission Tomography) (Melichar, J.K. (459) 217)

Ethanol; Social memory; Olfactory memory; Scopolamine; (Rat) (Prediger, R.D.S. (462) 115)

Jumping; Histamine; Morphine; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (471) 105)

Jumping; Imipramine; Morphine; Adrenoceptor agent; (Mouse) (Zarrindast, M.-R. (473) 19)

Water intake; Drinking; Histamine system; Morphine; (rat) (Eidi, M. (478) 105)

Naloxone methiodide

Endomorphin-1; Antinociception; Gastrointestinal motility; μ -Opioid receptor; Naloxonazine (Spampinato, S. (469) 89)

Naltrindole

Opioid receptor; Enteric nervous system; Diprenorphine (Pig) (Townsend IV, D. (482) 111)

NANC (Non-adrenergic non-cholinergic) inhibitory

Cannabinoid; WIN 55,212-2; Trachea; (Guinea-pig); Nitric oxide (NO) (Nieri, P. (475) 115)

NANC (non-adrenergic, non-cholinergic) nerve

Protein kinase C; Diabetes mellitus; Endothelium; Smooth muscle; Nitric oxide (NO); Aorta; Corpus cavernosum (Nangle, M.R. (475) 99)

NANC (non-adrenergic non-cholinergic) relaxation

Cholestasis; Corpus cavernosum, rat; Nitric oxide (NO); Opioid; Electrical field stimulation (Sadeghipour, H. (460) 201)

Nandrolone

Anabolic–androgenic steroid; Hypothermia; Morphine tolerance; Reward; Dependence; (Mouse) (Célérier, E. (465) 69)

Nantenine

Aporphine; Ca²⁺ entry blocker; Fura-2; Smooth muscle; Vas deferens, rat (Ribeiro, R.d.A. (470) 37)

Pithed rat; Pressor response; Sympathetic nerve stimulation; α -Adrenoceptor; 5-HT receptor (Tsuchida, H. (477) 53)

Narcosis

Ethanol; Dopamine D2 receptor; Conditioned avoidance; Ultrasonic call; Pharmacokinetic (Castorina, M. (477) 129)

Nasal acute symptom

TAK-427 {2-[6-[[3-[4-(diphenylmethoxy) piperidino]propyl]amino]imidazo[1,2-*b*]pyridazin-2-yl]-2-methylpropionic acid dihydrate}; Allergic rhinitis; Histamine H₁-receptor antagonist; Cedar pollen; Nasal obstruction (Fukuda, S. (476) 239)

Nasal blockage

Allergic rhinitis; Hyperresponsiveness; Bradykinin; Bradykinin B₁ receptor; Bradykinin B₂ receptor (Sugahara, S. (476) 229)

Nasal obstruction

TAK-427 {2-[6-[[3-[4-(diphenylmethoxy) piperidino]propyl]amino]imidazo[1,2-*b*]pyridazin-2-yl]-2-methylpropionic acid dihydrate}; Nasal acute symptom; Allergic rhinitis; Histamine H₁-receptor antagonist; Cedar pollen (Fukuda, S. (476) 239)

Natriuretic peptide

Apoptosis; Endothelin; Cardiac myocyte; Ornithine decarboxylase (Han, B. (474) 15)

Natural killer cell

Titanocene; Antitumoural; Ehrlich ascites tumour (Valadares, M.C. (473) 191)

Na_v1.3 Na⁺ channel

Neonatal; β -Subunit; Lidocaine; Oocyte (Lenkowski, P.W. (467) 23)

NC/Nga, mouse

Atopic dermatitis; Scratching; Itch; MicroAct (Takano, N. (471) 223)

NCS 382

GHB (γ -hydroxy butyrate); Ethanol; (Rat); Schedule-controlled behavior; Drug interaction (Lamb, R.J. (470) 157)

NCX 4016

Hypertension; Vasoconstriction; Nitric oxide (NO); cGMP; Spontaneously hypertensive rat; Tail artery (Rossoni, G. (477) 59)

N6-cyclopentyladenosine

Hyperalgesia; Chronic stress; Adenosine; CPA; Dipyrindamole; Tail-flick (da Silva Torres, I.L. (481) 197)

Nebivolol

β_1 -adrenoceptor selectivity; Bisoprolol; Carvedilol; Myocardium, human (Bundkirchen, A. (460) 19)

Nebivolol, enantiomer; Nebivolol, metabolite; Contractility; Myocardium, human (Bundkirchen, A. (476) 97)

Nebivolol, enantiomer

Nebivolol; Nebivolol, metabolite; Contractility; Myocardium, human (Bundkirchen, A. (476) 97)

Nebivolol, metabolite

Nebivolol; Nebivolol, enantiomer; Contractility; Myocardium, human (Bundkirchen, A. (476) 97)

Necrosis

FK506; Hypoxia-reoxygenation; JNK₁/SAPK₁; Apoptosis; Hepatocyte; (Rat) (Crenesse, D. (473) 177)

Necrotizing agent-induced gastric lesion

Alpinia galanga; 1*S*-1*S*-Acetoxychavicol acetate; Prostaglandin; Sulfhydryl compound (Matsuda, H. (471) 59)

Nefazodone

Lithium chloride; Conditioned taste aversion; Corticosterone (Gorzalka, B. (471) 129)

Nefiracetam

Metabolite; Renal papillary necrosis; Prostaglandin; Biomarker (Tsuchiya, Y. (475) 119)

Negative inotropic effect, indirect

Atrium, human, right; Muscarinic M₂ receptor; Carbachol; β₁-Adrenoceptor antagonist (Wangemann, T. (458) 163)

Neocortex, rat

GABA_B receptor; L-Amino acid; Dipeptide; Baclofen; Potentiator (Kerr, D.I.B. (468) 103)

Neomycin

Striatum; Dopamine release; Veratridine; ω-Conotoxin; ω-Agatoxin-IVA (Dobrev, D. (461) 105)

Neonatal

Na_v1.3 Na⁺ channel; β-Subunit; Lidocaine; Oocyte (Lenkowski, P.W. (467) 23)

Neonatal reflex

Diazepam; Pentylentetrazol; Convulsion; GABA_A receptor (Nicosia, A. (469) 103)

Neonate, mouse

Endothelin-1; Cardiac muscle; Na⁺–Ca²⁺ exchanger; [Ca²⁺]_i transient (Nagasaka, T. (472) 197)

Nephropathy

JTT-608; Antidiabetic agent; Hemoglobin A1c; Goto–Kakizaki rat; Neuropathy (Ohta, T. (476) 159)

Nephrotoxicity

Garlic; Aminoglycoside; Superoxide dismutase; Glutathione peroxidase; Oxidative stress (Pedraza-Chaverri, J. (473) 71)

Nerve cell culture

Nitric oxide (NO); Antidepressant; Antioxidant; Neuroprotection; Monoamine oxidase A inhibitor (Boland, A. (466) 21)

Nerve crush

Melanocortin receptor; α-MSH (α-melanocyte-stimulating hormone); Cisplatin-induced neuropathy; Melanotan-II (Ter Laak, M.P. (462) 179)

Nerve terminal

Cannabinoid; Exocytotic release; Hippocampus; Ca²⁺ channel (Wang, S.-J. (469) 47)

NET-KO, mouse

Noradrenaline uptake; Cytokine production; Antidepressants (Selmeczy, Z. (469) 175)

NET (norepinephrine transporter)

Reinforcement; Cocaine self-administration; Hyperactivity; Behavioral sensitization; Knockout, mouse; DAT (dopamine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Neuregulin

Psychosis; Linkage; Association; Genetic; 5-HT (5-hydroxytryptamine, serotonin); Proline (Collier, D.A. (480) 177)

Neuroactive steroid

Ethanol; StAR (steroidogenic acute regulatory protein) (Khisti, R.T. (473) 225)

Cocaine kindling; Sensitization; (mouse) (Kaminski, R.M. (474) 217)

Neuroblastoma cell, human

GRP (glucose-regulated stress protein); K⁺-channel HERG; SH-SY5Y; Ethanol (Mühlbauer, E. (459) 121)

Neurodegeneration

Oxidative stress; Tardive dyskinesia; Vacuous chewing movement; Neuroleptic; FK506; Neuroprotection (Singh, A. (477) 87)

Glutamate transporter; Glutamate uptake; Substrate; Inhibitor (Mennini, T. (479) 291)

Neurojunctional transmission

α_{1B}-Adrenoceptor; Neuropeptide Y Y₁ receptor; Splenic artery, canine (Yang, X.-P. (466) 311)

Neurokinin A

Tachykinin NK₁ receptor; Substance P; Peptide receptor antagonist; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Neuroleptic

Oxidative stress; Neurodegeneration; Tardive dyskinesia; Vacuous chewing movement; FK506; Neuroprotection (Singh, A. (477) 87)

Haloperidol; Olanzapine; Clozapine; Striatum; Oral dyskinesia (McCullum-smith, R.E. (477) 101)

Neurological deficit

Intracerebral, hemorrhage; Hematoma; AMPA receptor antagonist; YM872 (Terai, K. (467) 95)

Middle cerebral artery occlusion; Ischemia; Reperfusion; Body temperature; Diffusion–perfusion magnetic resonance imaging (Petty, M.A. (474) 53)

Neuromuscular junction

Post-tetanic facilitation; Nicotinic α₃β₂ receptor; Adenosine A_{2A} receptor; Adenosine endogenous; Acetylcholine release (Timóteo, M.A. (464) 115)

Neuron

Ethanol; Apoptosis; Cytochrome *c*; Caspase-3; Poly (ADP-ribose) polymerase-1; DNA fragmentation; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

Neuronal synaptosome

Acetylcholine release; Adenosine A₁ receptor; Low-efficacy agonist; Partial agonist; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Bueters, T.J.H. (481) 141)

Neuropathic pain

Anticonvulsant; Chronic constriction injury; Formalin test; Spared nerve injury; Tail flick (Blackburn-Munro, G. (460) 109)

Antiepileptic; Analgesia; Antiepileptic drug; Levetiracetam (Ardid, D. (473) 27)

Analgesia; 5-HT_{1A} receptor; Serotonin (Wu, W.-P. (478) 131)

Phyllanthus amarus; Lignan; Allodynia; Anti-oedematogenic; Myeloperoxidase; Inflammatory pain (Kassuya, C.A.L. (478) 145)

Neuropathy

JTT-608; Antidiabetic agent; Hemoglobin A1c; Goto–Kakizaki rat; Nephropathy (Ohta, T. (476) 159)

Agonist; Antinociception; Galanin receptor; Hyperalgesia; Pain; Spinal cord (Wu, W.-P. (482) 133)

Neuropeptide

Open field; Benzodiazepine; 5-HT (5-hydroxytryptamine: serotonin); Anxiety (Prut, L. (463) 3)

Anxiety; Social interaction; GABA receptor; 5-HT (5-hydroxytryptamine, serotonin); Brain region (File, S.E. (463) 35)

Mouse Defense Test Battery; Anxiety; Panic; GABA_A–benzodiazepine receptor; 5-HT (5-hydroxytryptamine, serotonin) (Blanchard, D.C. (463) 97)

Amtolmetin guacyl; Intestine; Inflammation; (Rat) (Tubaro, E. (467) 173)

Vagus; Autonomic nervous system; Hepatic cytoprotection (Yoneda, M. (478) 173)

Neuropeptide receptor ligand

Antidepressant; Antipsychotic; Anxiolytic; Light/dark test, mouse (Bourin, M. (463) 55)

Neuropeptide release

Capsaicin; Substance P; CGRP (calcitonin gene-related peptide); Somatostatin; Tetrodotoxin (Németh, J. (458) 313)

Neuropeptide Y

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

MCH (melanin-concentrating hormone); Food intake; Body weight; Obesity (Shearman, L.P. (475) 37)

Leptin; Proopiomelanocortin; Agouti-related peptide; Ghrelin; Peptide YY- (3–36) (Cowley, M.A. (480) 3)

Obesity; Transgenic animal; Food intake; Satiety signal (Herzog, H. (480) 21)

Anorexia; Hypothalamus; Mouse model; Genetic; Positional cloning; AgRP (agouti-related protein); POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Neuropeptide Y Y₁ receptor

Neurojunctional transmission; α_{1B} -Adrenoceptor; Splenic artery, canine (Yang, X.-P. (466) 311)

Neuroprotection

Excitotoxicity; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Pentacycloundecylamine (Geldenhuys, W.J. (458) 73)

α -Tocopherol; Oxidative stress; Apoptosis; Striatal neuron; (In vitro); (Rat) (Osakada, F. (465) 15)

Nitric oxide (NO); Antidepressant; Antioxidant; Nerve cell culture; Monoamine oxidase A inhibitor (Boland, A. (466) 21)

Amyotrophic lateral sclerosis; GCP II; Glutamate; NAAG; NAALADase; Motor neuron disorder (Thomas, A.G. (471) 177)

Peroxisome proliferator-activated receptor; 15-Deoxy-prostaglandin-J2; Troglitazone; Thiazolidinedione (Aoun, P. (472) 65)

Oxidative stress; Neurodegeneration; Tardive dyskinesia; Vacuous chewing movement; Neuroleptic; FK506 (Singh, A. (477) 87)

Caspase; Apoptosis; Stroke (Feng, Y. (481) 169)

Neuroprotective drug

Delayed neuronal death; Hippocampus; Cerebral ischemia; Global ischemia; Locomotor activity; (Mongolian gerbil) (Katsuta, K. (467) 103)

Neurotensin

Nicotine; Addiction; Sensitization; Psychostimulant (Fredrickson, P. (458) 111)

Neurotoxicity

Serofendic acid; Fetal calf serum; L-Glutamate; Nitric oxide (NO); Cerebral cortex (Taguchi, R. (477) 195)

Pharmacokinetics; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Hyperthermia (Johnson-Davis, K.L. (482) 151)

Neurotransmission

Cannabinoid; Anandamide (Ralevic, V. (472) 1)

Glycine transport; GLYT1 (glycine transporter 1); GLYT2 (glycine transporter 2); NMDA receptor; Central nervous system (Aragón, C. (479) 249)

Neurotransmitter: Na⁺ symporter

Na⁺–Cl[–]-coupled neurotransmitter transporter; FRET (fluorescence resonance energy transfer); Microscopy; Oligomer; Dimer (Sitte, H.H. (479) 229)

Neurotransmitter binding

Cocaine discrimination; (Mouse); (Rat); (Rhesus monkey); Mazindane; Mazindol; Motor activity, mouse (Houlihan, W.J. (458) 263)

Neurotransmitter transport

Dopamine transporter; Transporter regulation; Trafficking; Signaling mechanism; Phosphorylation; Cocaine; Amphetamine (Mortensen, O.V. (479) 159)

Neurotransmitter transporter

Conformational change; Structural context (Goldberg, N.R. (479) 3)

Neurotrauma

Cerebral circulation; Excitatory amino acid; Signal transduction (Armstead, W.M. (474) 249)

Neutral amino acid transporter

Glutamate; ASC (Kanai, Y. (479) 237)

Neutral red uptake assay

Local anaesthetic; Procaine; Fluid-phase endocytosis; Exocytosis; Fibroblast; Skin, human (Michalik, M. (475) 1)

Neutrophil

GEA3162; S-Nitrosylation; Cation entry; Ca²⁺, intracellular, free; Cyclopiazonic acid (Wang, J.-P. (458) 243)

Adhesion; Chemokine; Endothelium; Fatty acid; TNF- α (tumor necrosis factor- α) (Wang, Y. (459) 269)

Colitis; TNBS (trinitrobenzene sulphonic acid); TNF- α (tumor necrosis factor- α); Flavonoid; Dosmalfate (Villegas, I. (460) 209)

Heat shock protein; MAP (mitogen-activated protein) kinase; TNF- α (tumor necrosis factor- α) (Niwa, M. (466) 245)

Airway; Substance P; Inflammation; Mast cell (van der Kleij, H.P.M. (476) 249)

Corticosteroid; Inhibition; Transmigration (van Overveld, F.J. (477) 261)

Diazepam; Flow cytometry; Oxidative burst; Peripheral benzodiazepine receptor; Corticosterone; Tolerance development (da Silva, F.R. (478) 97)

Cyclo-oxygenase-2; Colitis; TNBS (trinitrobenzene sulphonic acid); Interleukin-1 β ; Prostaglandin; Apoptosis (Martin, A.R. (481) 281)

Neutrophil elastase inhibition

SSR69071; Ischemia–reperfusion injury, cardiac; Infarct size (Bidouard, J.-P. (461) 49)

Neutrophil, human

N-formylmethionyl peptide; Chemotaxis; Superoxide anion generation; Lysozyme release; Receptor binding (Spisani, S. (469) 13)

NF- κ B

Akt; iNOS; Vascular smooth muscle (Hattori, Y. (481) 153)

NF- κ B (nuclear factor- κ B)

Heat shock protein; HSP72; Methylprednisolone; Cholecystokinin-octapeptide; Pancreatitis (Rakonczay Jr., Z. (464) 217)

RNA, regulatory; RNA, noncoding; PKR (RNA-dependent protein kinase); B16-F10 melanoma; TNF- α (tumor necrosis factor- α) (Watanabe, M.A.E. (465) 205)

Phospholipase A₂; MAP (mitogen-activated protein) kinase; Interleukin-2; T-lymphocyte (Burgermeister, E. (466) 169)

Nitric oxide (NO); Urinary tract infection; MAP (mitogen-activated protein) kinase; Tyrosine kinase (Poljakovic, M. (469) 21)

Poly (ADP-ribose) polymerase; 3-Aminobenzamide; 1,5-Dihydroxyisoquinoline; Activator protein-1; Colitis (Zingarelli, B. (469) 183)

Diabetes mellitus; Hemoglobin, glycated; Endothelium; Iron chelator (Pieper, G.M. (472) 127)

Atorvastatin; α -Thrombin, human; Interleukin-6; RhoA (Haloui, M. (474) 175)

Diabetes mellitus; Atherosclerosis; LDL (low-density lipoprotein), glycoxidized; MCP-1 (monocyte chemoattractant protein-1); Umbilical vein endothelial cell, human (Sonoki, K. (475) 139)

Enoxaparin; Endothelial cell; Adhesion (Manduteanu, I. (477) 269)

NF- κ B (nuclear factor kappa B)

Thearubigin; Inflammatory bowel disease; Black tea; Colitis; Cytokine; Nitric oxide (NO) synthase, inducible (Maity, S. (470) 103)

NF449 (4,4',4'''-(carbonylbis(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid)

ATP receptor; Oocyte; Antagonist; Voltage clamp; Whole cell (Hülsmann, M. (470) 1)

N-formylmethionyl peptide

Neutrophil, human; Chemotaxis; Superoxide anion generation; Lysozyme release; Receptor binding (Spisani, S. (469) 13)

NGF (Nerve growth factor)

DADLE ([D-Ala², D-Leu⁵]enkephalin); GDNF (Glia-derived neurotrophic factor) (Hayashi, T. (464) 237)

Nicotine

Addiction; Neurotensin; Sensitization; Psychostimulant (Fredrickson, P. (458) 111)

Insulin resistance; Obesity; Glycogen; Zucker fatty rat (Liu, R.-H. (458) 227)

Dizocilpine; MK-801; NMDA receptor; Attention; Cognition (Rezvani, A.H. (465) 83)

Ethanol; Nicotinic receptor; Dopamine, mesolimbic; Microdialysis; (Rat) (Ericson, M. (467) 85)

(–)-Nicotine

Amphetamine; Bupropion; Bupropion metabolite; Hydroxybupropion; Threohydrobupropion (Bondarev, M.L. (474) 85)

Chlorisondamine; Scopolamine; Sulpiride; Memory (Hefco, V. (474) 227)

Glutamate uptake; Glutamine synthetase; Na⁺/K⁺ ATPase (Lim, D.K. (476) 179)

Addiction; Ventral tegmental area; Nucleus accumbens; Acetylcholine; Dopamine (Mansvelder, H.D. (480) 117)

Adrenal steroid; Dopamine; Microdialysis; Nucleus accumbens; Sensitization (Molander, A. (481) 51)

CRH (corticotropin-releasing hormone); Noradrenaline; Prostaglandin; Brain; Brain nicotinic receptor; Corticosterone, plasma (Okada, S. (473) 217)

Nicotine withdrawal

Self-administration; Acoustic startle; Prepulse inhibition; Somatic sign; Mouse (Semenova, S. (472) 99)

Nicotinic acetylcholine receptor

Epibatidine; Radioligand; Analgesia; Spinal cord (Nishiyama, T. (470) 27)

Nicotinic receptor

Amphetamine; Adrenal chromaffin cell, bovine; Catecholamine secretion; Ca²⁺ concentration, cytosolic; Receptor binding (Liu, P.-S. (460) 9)

Nicotinic α 3 β 2 receptor

Post-tetanic facilitation; Adenosine A_{2A} receptor; Adenosine endogenous; Acetylcholine release; Neuromuscular junction (Timóteo, M.A. (464) 115)

Nicotinic receptor

α 6 Subunit; Chimera; HEK-293 cell; (Human) (Evans, N.M. (466) 31)

Kindling; Seizure, nicotine-induced; NMDA receptor; Antiepileptic drug; Epilepsy (Löscher, W. (466) 99)

Ethanol; Nicotine; Dopamine, mesolimbic; Microdialysis; (Rat) (Ericson, M. (467) 85)

Levamisole; Potentiation; Inhibition; Allosteric modulator; Oocyte (Levandoski, M.M. (471) 9)

Choline; Sympathetic neurone; Intracellular Ca²⁺; Indo1 (Seddik, R. (471) 165)

α 7-Subunit; Bleomycin; Apoptosis; HL-60 cell (Gimonet, D. (482) 25)

Nicotinic receptor, neuronal

Cytisine; Agonist; Antagonist; Partial agonist; Binding; FLIPR; Electrophysiology (Carbannelle, E. (471) 85)

Nifedipine

Morphine; Locomotor activity; Behavioral sensitization; Nimodipine; Verapamil (Zhang, Q. (467) 145)

Ca²⁺ channel antagonist; Ovariectomy; Flushing; Menopause; Tail skin temperature (Kai, M. (481) 79)

Nimodipine

Morphine; Locomotor activity; Behavioral sensitization; Nifedipine; Verapamil (Zhang, Q. (467) 145)

Nisoxetine

MDMA (methylenedioxymethamphetamine); MDA (methylenedioxyamphetamine); MDEA (methylenedioxyethylamphetamine); Cathinone; Cocaine (Cleary, L. (476) 31)

Nitrate tolerance

Nitroglycerin; Nitric oxide (NO); Posterior hypothalamus; Cardiovascular action; Dialysis (Ma, S.-X. (472) 179)

Nitroergic innervation

Aging; Clenbuterol; β -Adrenoceptor; Hypertension; Adrenergic innervation; Mesenteric artery, rat (Ferrer, M. (466) 289)

Nitroergic relaxation

Anococcygeus, mouse; Calyculin-A; Thapsigargin (Gibson, A. (471) 213)

Nitroergic transmission

Ebselen; Nitric oxide (NO) donor; Nitric oxide (NO) synthase; Guanylate cyclase, soluble; Anococcygeus muscle, rat (Che, Y. (462) 161)

Nitric oxide

NS-398; Cyclooxygenase-2; Aorta, rat; Endothelium derived; SERCA (Ca²⁺ pump); Sarcoplasmic reticulum (Adeagbo, A.S.O. (458) 145)

Porcine uterus; Pregnancy; Spontaneous contraction; Acetylcholine; Oxytocin; 5-Hydroxytryptamine (Kitazawa, T. (469) 135)

Nuclear factor- κ B; Endothelin-1; Endothelial cell; Tumor necrosis factor- α (Ohkita, M. (472) 159)

Renal/kidney; Reperfusion-injury; Dithiocarbamates; Pyrrolidine dithiocarbamate; Nuclear factor- κ B; Inducible nitric oxide synthase (Chatterjee, P.K. (482) 271)

Nitric oxide (NO)

S-Nitroso-L-cysteine; Amino acid transporter; System L; PC12 cell (Nemoto, T. (458) 17)

Morphine; L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Conditioned place preference; Ventral tegmental area; (Rat) (Gholami, A. (458) 119)

Stress; Elevated plus maze; Open-field (Masood, A. (458) 135)

YC-1; Guanylate cyclase; Apomorphine; Penile erection; Corpus cavernosum (Hsieh, G.C. (458) 183)

Pancreatic islet; Superoxide; Superoxide dismutase; Blood flow (Svensson, A.M. (459) 59)

Cerebral artery; Coronary artery; Renal artery; Tail artery; Prostanoid (García-Villalón, A.L. (459) 247)

Corpus cavernosum; 3-Nitro-L-tyrosine; Photorelaxation; Ultraviolet light (Büyükaşar, K. (459) 263)

Cholestasis; NANC (non-adrenergic non-cholinergic) relaxation; Corpus cavernosum, rat; Opioid; Electrical field stimulation (Sadeghipour, H. (460) 201)

Cirrhosis; L-NAME (*N*^G-nitro-L-arginine methyl ester); Liver (Yang, W. (461) 41)

Na⁺/H⁺ exchange; Na⁺/Ca²⁺ exchange; Heart, isolated, rat; Ischemia/reperfusion injury; Cariporide; KB-R7943; Free radical (Mączewski, M. (461) 139)

Formalin test; Hyperalgesia; Migraine; Pain; Tail-flick test (Tassorelli, C. (464) 159)

Oesophageal sphincter, lower; Smooth muscle; Mexiletine; Nitric oxide (NO) synthase; 3',5'-Cyclic guanosine monophosphate (Kohjitani, A. (465) 145)

Chalcones; Prostaglandin E₂; RAW 264.7; Zymosan-injected mouse air pouch; Adjuvant-induced arthritis (Rojas, J. (465) 183)

Antitumor activity; Catalase; Hydroselenite; Glutathione peroxidase; Morphology; Selenium (Arsenyan, P. (465) 229)

Antidepressant; Antioxidant; Nerve cell culture; Neuroprotection; Monoamine oxidase A inhibitor (Boland, A. (466) 21)

NOS-2 knockout; NOS-3 knockout; $\alpha_{2A/D}$ -Adrenoceptor knockout; L-NAME (*N*^G-nitro-L-arginine methylester) (Vandeputte, C. (466) 129)

GABA (γ -Aminobutyric acid); Sodium nitroprusside; Hippocampus; Microdialysis (Hada, J. (467) 119)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

BAY 41-8543; BAY 58-2667; Kinetics; Heme; Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Urinary tract infection; MAP (mitogen-activated protein) kinase; NF- κ B (nuclear factor- κ B); Tyrosine kinase (Poljakovic, M. (469) 21)

Histamine; Pulmonary artery; (Wistar–Kyoto rat); Spontaneously hypertensive, rat (Lau, W.H. (470) 45)

NMDA; Operant behavior; Fixed ratio; (Rat) (Smith, J.B. (471) 121)

Nitroglycerin; Nitrate tolerance; Posterior hypothalamus; Cardiovascular action; Dialysis (Ma, S.-X. (472) 179)

Salt; Aorta; Isoproterenol; cAMP; cGMP (Sofola, O. (474) 241)

Sepsis; Steroid; Vasopressor; Hemodynamic (Mansart, A. (475) 61)

Protein kinase C; Diabetes mellitus; Endothelium; Smooth muscle; NANC (non-adrenergic, non-cholinergic) nerve; Aorta; Corpus cavernosum (Nangle, M.R. (475) 99)

NANC (Non-adrenergic non-cholinergic) inhibitory; Cannabinoid; WIN 55,212-2; Trachea; (Guinea-pig) (Nieri, P. (475) 115)

Acyclic nucleoside phosphonate; Antiviral; Chemokine; Cytokine (Zidek, Z. (475) 149)

Ca²⁺ current, L-type; Contraction; Excitation–contraction coupling (Au, A. (476) 45)

Capsaicin; Vagal sensory nerve; cGMP; Ischemia; Heart, rat (Csont, T. (476) 107)

Adenosine; Cerebral blood flow; Hypercapnia; ZM 241385 (Phillis, J.W. (476) 211)

Aminoguanidine; Brain-derived neurotrophic factor (BDNF) (Johansson, R. (476) 221)

NCX 4016; Hypertension; Vasoconstriction; cGMP; Spontaneously hypertensive rat; Tail artery (Rossoni, G. (477) 59)

Corpus cavernosum; BAY 41-2272; Soluble guanylyl cyclase; Sildenafil (Barakat, J.S. (477) 163)

Septic shock; Propofol; Organ dysfunction; Free radical (Tsao, C.-M. (477) 183)

Serofendic acid; Fetal calf serum; L-Glutamate; Neurotoxicity; Cerebral cortex (Taguchi, R. (477) 195)

Estrogen receptor; Blood vessel; Endothelium (Stirone, C. (478) 35)

Histamine; Eye; Nadroparine; Hypersensitivity (Giannoulaki, V. (481) 119)

Angiotensin-converting enzyme; Endothelium; Oxidative stress (Scribner, A.W. (482) 95)

Apomorphine; Morphine; L-Arginine; L-NAME (N^G -nitro-L-arginine methyl ester); Locomotor activity; Sensitization; (Mouse) (Zarrindast, M.-R. (482) 205)

Phytoestrogen; Cerebral artery; Ca^{2+} channel; Estrogen; Stroke (Torregrosa, G. (482) 227)

Nitric oxide (NO) donor

Ebselen; Nitric oxide (NO) synthase; Guanylate cyclase, soluble; Anococcygeus muscle, rat (Che, Y. (462) 161)

Nitric oxide (NO) donors

Platelet inhibition, in vivo; MAHMA NONOate; *S*-nitrosoglutathione; Vasodepression systemic (Homer, K.L. (482) 265)

Nitric oxide (NO) synthase 2

Cardiomyocyte; Cyclo-oxygenase-2; Cytokine; Annexin-I; Glucocorticoid (Ritchie, R.H. (461) 171)

Nitric oxide (NO) synthase

Ebselen; Nitric oxide (NO) donor; Nitric oxide (NO) synthase; Guanylate cyclase, soluble; Anococcygeus muscle, rat (Che, Y. (462) 161)

Ursodeoxycholic acid; Smooth muscle cell, aortic; Smooth muscle cell, coronary artery; Lipopolysaccharide; Interferon- γ (Ma, J. (464) 79)

SNI-2011; Amylase secretion; NOS knockout, mouse, neuronal; Guanylate cyclase, soluble; Myosin light chain kinase (Yuan, Z. (464) 197)

Oesophageal sphincter, lower; Smooth muscle; Mexiletine; Nitric oxide (NO); 3',5'-Cyclic guanosine monophosphate (Kohjitani, A. (465) 145)

Heme oxygenase; Fever; PDGF (platelet-derived growth factor) (Almeida, M.C. (467) 133)

PPAR- γ ligand; Ulcer healing; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); HSP70 (heat shock protein 70) (Konturek, P.C. (472) 213)

Phosphodiesterase; cGMP; Guanylate cyclase; Corpus cavernosum (Hosogai, N. (473) 65)

Nitric oxide (NO) Synthase-II

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) synthase; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Nitric oxide (NO) synthase, inducible

Thearubigin; Inflammatory bowel disease; Black tea; Colitis; Cytokine; NF- κ B (nuclear factor kappa B) (Maity, S. (470) 103)

Noradrenaline; Adrenaline; Plasma; CRH (corticotropin-releasing hormone); Brain (Okada, S. (477) 95)

Nitric oxide (NO) synthase inhibitor

Otitis media; Cochlear disturbance; Dexamethasone (Sone, M. (482) 313)

Nitric oxide (NO) synthase

Indomethacin; Microvascular albumin leakage; Gram-negative bacteria; Multiple organ failure; Inflammatory response syndrome, systemic; GW 273629; Nitric oxide (NO) Synthase-II; Enteropathy; Injury; intestinal (Evans, S.M. (461) 63)

Nitric oxide synthase

Cardio-protective; Sepsis (Price, S. (472) 111)

Nitric oxide synthase (NOS)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Ca^{2+} influx (Hu, C.M. (468) 37)

Nitric oxide synthesis

Alveolar macrophage; Phosphodiesterase; Lipopolysaccharides; Arginase; iNOS (Koschorreck, S. (471) 229)

Nitroglycerin

Nitrate tolerance; Nitric oxide (NO); Posterior hypothalamus; Cardiovascular action; Dialysis (Ma, S.-X. (472) 179)

6-Nitro-7-hydroxycoumarin

Renal cell carcinoma; p38 MAP kinase; Apoptosis; Cell cycle (Finn, G. (481) 159)

3-Nitro-L-tyrosine

Corpus cavernosum; Nitric oxide (NO); Photorelaxation; Ultraviolet light (Büyükaşar, K. (459) 263)

Nitrosourea

Glutathione reductase; Oxidative stress; Cation channel; Cl^- channel; Ca^{2+} (Doroshenko, N. (476) 185)

NMDA

Nitric oxide (NO); Operant behavior; Fixed ratio; (Rat) (Smith, J.B. (471) 121)

NMDA (*N*-methyl-D-aspartate)

Selegiline; Desmethyleselegiline; Retinal degeneration; Cell death; BDNF (brain-derived neurotrophic factor) (Takahata, K. (458) 81)

Spinal cord; Sensitization, central; Pain (Hama, A. (459) 49)

SITS; DIDS; Oxygen-glucose deprivation; Cortical neuron (Tauskela, J.S. (464) 17)

NMDA receptor

Dizocilpine; MK-801; Nicotine; Attention; Cognition (Rezvani, A.H. (465) 83)

Kindling; Seizure, nicotine-induced; Nicotinic receptor; Antiepileptic drug; Epilepsy (Löscher, W. (466) 99)

Ammonia neurotoxicity; cGMP; Hydroxyl radical; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Inflammatory hyperalgesia; Spinal cord; Tyrosine kinase inhibitor; Antinociception (Sato, E. (468) 191)

Glutamate; Acetylcholine; Enteric nervous system; Colon; (Human) (Giaroni, C. (476) 63)

Glycine transport; Neurotransmission; GLYT1 (glycine transporter 1); GLYT2 (glycine transporter 2); Central nervous system (Aragón, C. (479) 249)

NMDA receptor NR2B subunit selective antagonist

CP-101,606; (Rat); Morris watermaze (Guscott, M.R. (476) 193)

Nociceptin

Amphetamine; Conditioned place preference; Sensitization; Stereotypy; (Rat) (Kotlinska, J. (474) 233)

Nociception

Analgesic; Animal model; Gene expression; Polymerase chain reaction (PCR); Quantitative PCR; (Rat) (Hofmann, H.A. (470) 17)

Nociceptive pathway

Mg²⁺; MK-801; Hyperalgesia; Mg²⁺-deficiency; (Rat); Sensitization (Alloui, A. (469) 65)

Nocturnal behavior

Methamphetamine; Behavioral sensitization; Monoamine metabolism; Dopamine; 5-HT (5-hydroxytryptamine; serotonin) (Kitanaka, N. (474) 63)

Noncompetitive antagonist

Sanguinarine; Angiotensin AT₁ receptor; CHO cell; CHO membrane; [³H]Candesartan (Caballero-George, C. (458) 257)

Non-exocytotic

Ethanol; Cocaine; Dopamine release; Nucleus accumbens; Microdialysis (Yan, Q.-S. (477) 37)

Non-peptide antagonist

Somatostatin; Somatostatin sst₂ receptor 2; Luciferase; SRE (serum response element); cAMP (Nunn, C. (465) 211)

Non-rapid eye movement (non-REM) sleep

Insomnia; Sleep latency; Wakefulness; Rapid eye movement (REM) sleep; Short-acting hypnotic (Shinomiya, K. (460) 139)

Non-steroidal anti-inflammatory agent

Antioxidant; Acute mesenteric ischemia; Intestinal viability; Ischemia–reperfusion (Poussios, D. (465) 275)

Nonsteroidal anti-inflammatory drug

Pain; Analgesia; Spinal cord; Opioid; Wind-up (Gaitán, G. (481) 181)

Non-steroidal anti-inflammatory drug (NSAID)

Tramadol; Antagonism; Interaction; Gastrointestinal transit (Planas, E. (482) 223)

Noradrenaline

Angiotensin; Capacitance; Diabetes; Circulatory filling pressure, mean; Vasoconstriction (Cheng, X. (458) 299)

Locus coeruleus; Extracellular unitary recording; Microdialysis; Alnespirone; Clonidine; α_2 -Adrenoceptor; 5-HT_{1A} receptor (Astier, B. (459) 17)

Adrenoceptor; N-terminal; Radioligand binding; Protein expression (Pupo, A.S. (462) 1)

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A₂ synthase; Brain; Adrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

CRH (corticotropin-releasing hormone); Prostaglandin; Brain; (–)-Nicotine; Brain nicotinic receptor; Corticosterone, plasma (Okada, S. (473) 217)

Adrenaline; Plasma; CRH (corticotropin-releasing hormone); Nitric oxide (NO) synthase, inducible; Brain (Okada, S. (477) 95)

Zucker rat; Blood pressure; Mesenteric artery; Aorta; Endothelin-1; Endothelium (Subramanian, R. (477) 143)

Noradrenaline release

EP₃ receptor; TP receptor; Stomach, rat; Pertussis toxin (Yokotani, K. (459) 187)

8-Iso-prostaglandin E₂; 8-Iso-prostaglandin F_{2 α} ; Prostanoid EP₃ receptor; TP receptor; Stomach, rat; Pertussis toxin (Nakamura, K. (470) 73)

Noradrenaline turnover

Morphine withdrawal; Protein kinase A; Protein kinase C; Ca²⁺ channel; Heart (Martínez, M.D. (471) 113)

Noradrenaline uptake

Cytokine production; Antidepressants; NET-KO, mouse (Selmezy, Z. (469) 175)

Norbinaltorphimine

δ_1 -Opioid receptor; δ – κ Heteromer (Portoghese, P.S. (467) 233)

Norbormide

(Rat); Trachea; Urinary bladder; Duodenum; Ca²⁺ channel L-type (Bova, S. (470) 185)

Norepinephrine

Aorta; cGMP; Hydrogen peroxide; Myosin light chain (Fujimoto, S. (459) 65)

DOV 21,947; “Broad-spectrum” antidepressant; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Reuptake inhibitor (Skolnick, P. (461) 99)

Morphine; Dentate gyrus; Locus coeruleus; Synaptic plasticity (Zhu, H. (467) 141)

Adrenoceptor subtype; Mydriasis; (Rat); 5-Methylurapidil; L-765314 (Yu, Y. (471) 135)

Carnosine; Renal sympathetic nerve activity; Acute renal failure; Ischemia/reperfusion (Fujii, T. (474) 261)

Anxiety; Microdialysis; Cortex prefrontal; Reboxetine; Rat (Dazzi, L. (476) 55)

Smooth muscle; Tyrosine kinase; Myosin light chain phosphorylation (Adegunloye, B.J. (476) 201)

Ischemia; Reperfusion; Acute renal failure; Sympathetic nerve (Fujii, T. (481) 241)

Norepinephrine transporter

Gene expression; Alternative splicing; Methamphetamine; Uptake inhibitor (Kitayama, S. (479) 65)

Dopamine transporter; Protein kinase C; Dopamine release; PC12 cell; Striatum (Gnegy, M.E. (479) 83)

Norethisterone

19-Nor-steroid; Progestin, synthetic; Vasorelaxation; Hormone replacement therapy (Perusquia, M. (475) 161)

19-Nor-steroid

Norethisterone; Progestin, synthetic; Vasorelaxation; Hormone replacement therapy (Perusquia, M. (475) 161)

NOS-2 knockout

Nitric oxide (NO); NOS-3 knockout; $\alpha_{2A/D}$ -Adrenoceptor knockout; L-NAME (N^G -nitro-L-arginine methylester) (Vandeputte, C. (466) 129)

NOS knockout, mouse, neuronal

SNI-2011; Amylase secretion; Nitric oxide (NO) synthase; Guanyl cyclase, soluble; Myosin light chain kinase (Yuan, Z. (464) 197)

NR2B subunit

Alcohol; Self-administration; Protein; Up-regulation (Henniger, M.S.H. (470) 33)

NS-398

Cyclooxygenase-2; Aorta, rat; Endothelium derived; Nitric oxide; SERCA (Ca^{2+} pump); Sarcoplasmic reticulum (Adeagbo, A.S.O. (458) 145)

N-terminal

Noradrenaline; Adrenoceptor; Radioligand binding; Protein expression (Pupo, A.S. (462) 1)

Nuclear factor- κ B

Nitric oxide; Endothelin-1; Endothelial cell; Tumor necrosis factor- α (Ohkita, M. (472) 159)

Renal/kidney; Reperfusion-injury; Dithiocarbamates; Pyrrolidine dithiocarbamate; Inducible nitric oxide synthase; Nitric oxide (Chatterjee, P.K. (482) 271)

Nucleoside analog

Nucleoside transporter; Renal cancer; Kidney; Drug disposition; Localization (Mangravite, L.M. (479) 269)

Nucleoside transporter

Nucleoside analog; Renal cancer; Kidney; Drug disposition; Localization (Mangravite, L.M. (479) 269)

Nucleus accumbens

Ethanol; Cocaine; Dopamine release; Non-exocytotic; Microdialysis (Yan, Q.-S. (477) 37)

Nucleus accumbens

Microdialysis; Ventral subiculum; Muscarinic receptor; Dopamine; (Rat) (Moss, S. (460) 117)

Dopamine overflow; L-3,4-dihydroxyphenylalanine (L-DOPA); Atipamezole; Storage pool, readily releasable; Voltammetry, in vivo; Caudate nucleus (Yavich, L. (462) 83)

Microdialysis; Dopamine; Dopamine D3/D2 receptor agonist (Shilliam, C.S. (477) 113)

Nicotine; Addiction; Ventral tegmental area; Acetylcholine; Dopamine (Mansvelter, H.D. (480) 117)

Adrenal steroid; Dopamine; Microdialysis; Nicotine; Sensitization (Moller, A. (481) 51)

Dopamine; Feeding; Leptin; Microdialysis (Krügel, U. (482) 185)

Nucleus reticularis gigantocellularis/nucleus reticularis gigantocellularis alpha

Morphine; Antinociception; Muscarinic antagonist; (Rat) (Abe, K. (465) 237)

Obesity

Nicotine; Insulin resistance; Glycogen; Zucker fatty rat (Liu, R.-H. (458) 227)

G-protein-coupled receptor; Melanocortin receptor; Melanotropin (Holder, J.R. (462) 41)

Anorectic; Cannabinoid; AM-251; Micro-CT (Hildebrandt, A.L. (462) 125)

MCH (melanin-concentrating hormone); Food intake; Body weight; Neuropeptide Y (Shearman, L.P. (475) 37)

Anorexia nervosa; Phenotype; Genotype; Trait; Hyperactivity; Anxiety (Kas, M.J.H. (480) 13)

Neuropeptide Y; Transgenic animal; Food intake; Satiety signal (Herzog, H. (480) 21)

Dopamine; Dopamine D2 receptor; Metabolic syndrome X; Insulin resistance (Pijl, H. (480) 125)

Occlusion time

Kinetin; Hydroxyl radical; Bleeding time; Arterial thrombosis (Hsiao, G. (465) 281)

Occupancy

Metabotropic glutamate receptor; Receptor binding; mGlu5 (Anderson, J.J. (473) 35)

Oedema

Allergen; Allergic pulmonary inflammation; Asthma; Glucocorticosteroid; Lung; Magnetic resonance imaging (MRI); Mitogen-activated protein kinase inhibitor; Oedema resolution (Tigani, B. (482) 319)

Oedema resolution

Allergen; Allergic pulmonary inflammation; Asthma; Glucocorticosteroid; Lung; Magnetic resonance imaging (MRI); Mitogen-activated protein kinase inhibitor; Oedema (Tigani, B. (482) 319)

Oesophageal sphincter, lower

Smooth muscle; Mexiletine; Nitric oxide (NO); Nitric oxide (NO) synthase; 3',5'-Cyclic guanosine monophosphate (Kohjitani, A. (465) 145)

Oesophageal striated muscle

Stroke-prone spontaneously hypertensive rat (SHRSP); Caffeine; Contraction; Ca^{2+} influx; Sarcoplasmic reticulum (Sekiguchi, F. (465) 153)

17 β -Oestradiol

K^+ channel; Vasorelaxation; Ca^{2+} influx (Tep-areenan, P. (476) 139)

Oestrogen

Hot flush; Mirtazapine; Tail-temperature; (Rat) (Berendsen, H.H.G. (482) 329)

6-OHDA (6-hydroxydopamine)

Dopamine; Kainic acid; Memory; Substantia nigra; Ventral tegmental area (Hefco, V. (475) 55)

8-OH-dG

Indomethacin; Glutamate; Reperfusion injury; Cerebral blood flow; Reactive oxygen species (Miyamoto, O. (459) 179)

8-OH-DPAT

Serotonin; 5-HT_{1A} receptor; Buspirone; Fluoxetine; Short-term memory (Pache, D.M. (477) 205)

8-OH-DPAT (8-hydroxy-2-di-*n*-propylamino tetralin)

Imipramine; 5-HT_{1A} receptor; Depression treatment-resistant; Forced swim test (Kitamura, Y. (481) 75)

Okadaic acid

Antinociception; Morphine; Serine/threonine protein phosphatase; Cantharidin; Calyculin-A; L-Norokadaone; [³H]Naloxone (Moncada, A. (465) 53)

Olanzapine

Haloperidol; Clozapine; Neuroleptic; Striatum; Oral dyskinesia (McCullumsmith, R.E. (477) 101)

Olfactory memory

Ethanol; Social memory; Naloxone; Scopolamine; (Rat) (Prediger, R.D.S. (462) 115)

Oligomer

Na⁺–Cl[–]-coupled neurotransmitter transporter; Neurotransmitter: Na⁺ symporter; FRET (fluorescence resonance energy transfer); Microscopy; Dimer (Sitte, H.H. (479) 229)

Olvani

Vanilloid VR1 receptor; Capsaicin-sensitive C-fiber; Airway C-fiber; Vanilloid (Stebbins, K.J. (471) 205)

Omeprazole

CYP3A (Cytochrome P450 3A); Pantoprazole; St. John's wort; Induction of transcription; RT-PCR (reverse transcription–polymerase chain reaction) (Krusekopf, S. (466) 7)

Salivary gland; Cysteamine; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine (Bedeckovic, V. (477) 73)

Ontogenesis

Opioid; Vas deferens; Stress; Antisense oligonucleotide (Loizzo, A. (458) 201)

Oocyte

Na_v1.3 Na⁺ channel; Neonatal; β-Subunit; Lidocaine (Lenkowski, P.W. (467) 23)

ATP receptor; Antagonist; Voltage clamp; Whole cell; NF449 (4,4',4''-(carbonylbis(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid) (Hülsmann, M. (470) 1)

Nicotinic receptor; Levamisole; Potentiation; Inhibition; Allosteric modulator (Levandoski, M.M. (471) 9)

GABA_A receptor; Spontaneous activity; Potency; Partial agonist; Electrophysiology (Mortensen, M. (476) 17)

Open-field

Stress; Nitric oxide (NO); Elevated plus maze (Masood, A. (458) 135)

Open field

Benzodiazepine; 5-HT (5-hydroxytryptamine: serotonin); Neuropeptide; Anxiety (Prut, L. (463) 3)

Operant behavior

NMDA; Nitric oxide (NO); Fixed ratio; (Rat) (Smith, J.B. (471) 121)

Opiate

Morphine; Pain; Analgesia; Formalin test; (Rat) (Sevostianova, N. (462) 109)

Opioid; Cocaine; Amphetamine; Withdrawal; Benzodiazepine; Alcohol; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

Opioid

Vas deferens; Ontogenesis; Stress; Antisense oligonucleotide (Loizzo, A. (458) 201)

Analgesia; Metopon; Morphine (King, M.A. (459) 203)

Cholestasis; NANC (non-adrenergic non-cholinergic) relaxation; Corpus cavernosum, rat; Nitric oxide (NO); Electrical field stimulation (Sadeghpour, H. (460) 201)

Opiate; Cocaine; Amphetamine; Withdrawal; Benzodiazepine; Alcohol; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

Metamizol; Antinociception; Potentiation; Tolerance (Hernández-Delgadillo, G.P. (469) 71)

U50,488H; Atrium, human; Ion channel; K⁺ current, transient outward; K⁺ current, ultra-rapid delayed rectifier (Xiao, G.-S. (473) 97)

Antinociception; Oxymorphanol; Mouse (Wu, H.-e. (473) 143)

Pain; Analgesia; Spinal cord; Nonsteroidal anti-inflammatory drug; Wind-up (Gaitán, G. (481) 181)

δ-Opioid

μ-Opioid; κ-Opioid; 3,4-Dimethyl-4-(3-hydroxyphenyl)piperidine; Antagonist; Receptor autoradiography (Statnick, M.A. (482) 139)

κ-Opioid

μ-Opioid; δ-Opioid; 3,4-Dimethyl-4-(3-hydroxyphenyl)piperidine; Antagonist; Receptor autoradiography (Statnick, M.A. (482) 139)

μ-Opioid

κ-Opioid; δ-Opioid; 3,4-Dimethyl-4-(3-hydroxyphenyl)piperidine; Antagonist; Receptor autoradiography (Statnick, M.A. (482) 139)

Opioid, presynaptic inhibition

μ-Opioid receptor; K⁺ channel; Striatum; Corticostriatal afferent (Barral, J. (462) 91)

Opioid receptor

Opioid receptor antagonist; Diprenorphine; Naloxone; PET (Positron Emission Tomography) (Melichar, J.K. (459) 217)

κ-opioid receptor; G-protein activation; Antinociception; (Mouse) (Mizoguchi, H. (461) 35)

Opioid, presynaptic inhibition; K⁺ channel; Striatum; Corticostriatal afferent (Barral, J. (462) 91)

CaMKII; KN93 (Wang, Z.J. (465) 199)

Caco-2 cell; Interleukin-8; κ-Opioid receptor agonist (Neudeck, B.L. (467) 81)

Endomorphin-1; Endomorphin-2; Cough reflex; Antitussive effect; κ-Opioid receptor (Kamei, J. (467) 219)

δ–κ Heteromer; Norbinaltorphimine (Portoghese, P.S. (467) 233)

Endomorphin-1; Antinociception; Gastrointestinal motility; Naloxonazine; Naloxone methiodide (Spampinato, S. (469) 89)

Phenethylamine; Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); Head shake; DOI; 5-HT_{2A} receptor; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

Enteric nervous system; Naltrindole; Diprenorphine (Pig) (Townsend IV, D. (482) 111)

κ-Opioid receptor agonist

Caco-2 cell; Interleukin-8; Opioid receptor (Neudeck, B.L. (467) 81)

δ-Opioid receptor agonist, peripheral

Crotalus durissus terrificus venom; Analgesia; ATP-sensitive K⁺ channel; κ-Opioid receptor agonist, peripheral (Picolo, G. (469) 57)

Opioid receptor antagonist

Opioid receptor; Diprenorphine; Naloxone; PET (Positron-Emission Tomography) (Melichar, J.K. (459) 217)

μ-Ser196Ala; Vas deferens, mouse; μ-Opioid receptor knockout (Portoghese, P.S. (478) 207)

δ-Opioid receptor, human

Down-regulation; Agonist-directed trafficking; Phosphorylation; Pertussis toxin (Okura, T. (459) 9)

Opioid receptor knockout

Autoradiography; d-opioid receptor; G-protein coupling (Oakley, S.M. (466) 91)

μ-Ser196Ala; Vas deferens, mouse; Opioid receptor antagonist (Portoghese, P.S. (478) 207)

Opioid receptor sub-type

Amisulpride; Atypical neuroleptic; Antinociception; Tail-flick; Pain (Weizman, T. (478) 155)

Opioid system

Pruritus; TRK-820; CNS (central nervous system); Behavior; (Mouse) (Umeuchi, H. (477) 29)

OP4 receptor

Endothelial cell; Aorta; Immunocytochemistry; In situ hybridization; MAP (mitogen-activated protein) kinase (Granata, F. (482) 17)

Oral dyskinesia

Haloperidol; Olanzapine; Clozapine; Neuroleptic; Striatum (McCullum-smith, R.E. (477) 101)

Orexin-A

Mechanical allodynia; Thermal hyperalgesia; SB-334867; Carrageenan test; Spinal cord (Yamamoto, T. (481) 175)

Organ dysfunction

Septic shock; Propofol; Nitric oxide (NO); Free radical (Tsao, C.-M. (477) 183)

Organ failure

Sepsis; Septic shock; Endothelin; Endothelin receptor; Cardiac output; Edema (Albertini, M. (474) 129)

Organic anion transporter

Proximal tubule; Cephalosporin antibiotic; Transport; Cell line (Khamdang, S. (465) 1)

Organic cation transporter; Proximal tubule; Indoxyl sulfate; Uremia (Enomoto, A. (466) 13)

Organic anion transporter 1

Basolateral membrane; Organic anion transporter 3; Phenolsulfonphthalein; Renal uptake; Urinary excretion (Itagaki, S. (475) 85)

Organic cation transporter

Organic anion transporter; Proximal tubule; Indoxyl sulfate; Uremia (Enomoto, A. (466) 13)

Organophosphate

Epileptiform; Adenosine; Hippocampal slice; Sarin; (Guinea pig) (Harrison, P.K. (471) 97)

Ornithine decarboxylase

Apoptosis; Natriuretic peptide; Endothelin; Cardiac myocyte (Han, B. (474) 15)

Osmotic pump

Edaravone; Free radical scavenger; Horizontal vestibulo-ocular reflex; Streptomycin; (Guinea pig) (Horiike, O. (464) 75)

Osteoblast

Calcitonin receptor-like receptor; CGRP (Calcitonin gene-related peptide); MAP (Mitogen-activated protein) kinase; Proliferation (Kawase, T. (470) 125)

Bisphosphonate; Differentiation; Alkaline phosphatase; Protein phosphatase; Protein tyrosine phosphatase (Itoh, F. (477) 9)

Otitis media

Cochlear disturbance; Nitric oxide (NO) synthase inhibitor; Dexamethasone (Sone, M. (482) 313)

Otsuka Long-Evans Tokushima Fatty (OLETF), rat

Diabetes mellitus; Vascular contraction; Diacylglycerol; Streptozotocin (Nobe, K. (471) 195)

Ouabain

Antinociception; Endomorphin-1; Na⁺,K⁺-ATPase; Tail-flick test (Horvath, G. (458) 291)

Ovalbumin sensitization

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; HOE-140; R-715; Bronchoalveolar lavage; Eosinophil; Ca²⁺ intracellular; Fura-2 (Eric, J. (475) 129)

Ovariectomy

Ca²⁺ channel antagonist; Nifedipine; Flushing; Menopause; Tail skin temperature (Kai, M. (481) 79)

Overexpression

5-HT (5-hydroxytryptamine, serotonin); Cocaine; Ligand-gated; Hippocampus; 5-HT₃ receptor (Carta, M. (459) 167)

Oxidative burst

Diazepam; Flow cytometry; Neutrophil; Peripheral benzodiazepine receptor; Corticosterone; Tolerance development (da Silva, F.R. (478) 97)

Oxidative stress

Selegiline; Apoptosis; Cardiac function; Heart failure (Qin, F. (461) 149)

α-Tocopherol; Neuroprotection; Apoptosis; Striatal neuron; (In vitro); (Rat) (Osakada, F. (465) 15)

Flavonoid; Rotenone; SH-SY5Y cell; Parkinson's disease (Molina-Jimenez, M.F. (472) 81)

Dopamine; Parkinson's disease; Ginseng; Saponin; Apoptosis (Chen, X.-C. (473) 1)

Garlic; Aminoglycoside; Superoxide dismutase; Glutathione peroxidase; Nephrotoxicity (Pedraza-Chaverri, J. (473) 71)

Nitrosourea; Glutathione reductase; Cation channel; Cl^- channel; Ca^{2+} (Doroshenko, N. (476) 185)

Neurodegeneration; Tardive dyskinesia; Vacuous chewing movement; Neuroleptic; FK506; Neuroprotection (Singh, A. (477) 87)

Low-molecular-weight heparin; Adriamycin; Glomerulopathy; Glycosaminoglycan (Deepa, P.R. (478) 199)

Angiotensin-converting enzyme; Endothelium; Nitric oxide (NO) (Scribner, A.W. (482) 95)

Oxo-tremorine M

K^+ current; M-current; Muscarinic receptor; Channel expression (Guo, J. (462) 25)

Oxygen free radical

Myocardium; Reperfusion injury; Melanocortin MC_3 receptor; γ -MSH (γ -melanocyte-stimulating hormone); FMRamide-like (Phe-Met-Arg-Phe- NH_2 -like) peptide (Mioni, C. (477) 227)

Oxygen-glucose deprivation

SITS; DIDS; NMDA (*N*-methyl-D-aspartate); Cortical neuron (Tauskela, J.S. (464) 17)

Donepezil; Acetylcholinesterase inhibitor; LDH release; Primary cultured cerebral cortical neuron; (Rat) (Akasofu, S. (472) 57)

Oxygen radical

Superoxide dismutase; EUK-8; EUK-134; Superoxide anion; Multiple organ failure; Shock (McDonald, M.C. (466) 181)

Oxymetazoline

Vas deferens, human; A-61603; Cirazoline; Phenoxybenzamine; SZL-49; Dibenamine (Amobi, N. (462) 169)

Oxymorphazone

Antinociception; Opioid; Mouse (Wu, H.-e. (473) 143)

Oxytocin

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Porcine uterus; Pregnancy; Spontaneous contraction; Acetylcholine; 5-Hydroxytryptamine; Nitric oxide (Kitazawa, T. (469) 135)

Vasopressin; Vasopressin V_{1a} receptor; Oxytocin receptor; Contraction; Uterus (Kawamata, M. (472) 229)

Oxytocin receptor

Vasopressin; Vasopressin V_{1a} receptor; Oxytocin; Contraction; Uterus (Kawamata, M. (472) 229)

p53

Selenite; Apoptosis; JNK; c-Jun; p21^{WAF1/CIP1} (Nango, R. (471) 1)

Asiatic acid; Ursolic acid; HaCaT human keratinocyte; Reactive oxygen species; Matrix metalloproteinase (Soo Lee, Y. (476) 173)

PACAP (pituitary adenylate cyclase activating peptide)

Colon, murine; Fast inhibitory junction potential; Apamin; ATP; Purinoceptor (Serio, R. (460) 183)

Pacemaker current (I_f)

Cilobradine; Zatebradine; Use-dependence; HCN channel; (Electrophysiology) (Van Bogaert, P.P. (478) 161)

Pain

Spinal cord; Sensitization, central; NMDA (*N*-methyl-D-aspartate) (Hama, A. (459) 49)

Opiate; Morphine; Analgesia; Formalin test; (Rat) (Sevostianova, N. (462) 109)

Formalin test; Hyperalgesia; Migraine; Nitric oxide (NO); Tail-flick test (Tassorelli, C. (464) 159)

Analgesia; Hyperalgesia; 5-HT_{1A} receptor; Tolerance (Bruins Slot, L.A. (466) 271)

Hyperalgesia; Carrageenan; α_2 -Adrenoceptor subtype; Morphine (Lähdesmäki, J. (468) 183)

Morphine; Ketamine; Methadone; Mononeuropathy; Paw pressure; Isobologram; (Rat) (Pelissier, T. (477) 23)

Amisulpride; Atypical neuroleptic; Opioid receptor sub-type; Antinociception; Tail-flick (Weizman, T. (478) 155)

Analgesia; Spinal cord; Opioid; Nonsteroidal anti-inflammatory drug; Wind-up (Gaitán, G. (481) 181)

Agonist; Antinociception; Galanin receptor; Hyperalgesia; Neuropathy; Spinal cord (Wu, W.-P. (482) 133)

Paired-pulse inhibition/facilitation

Levetiracetam; GABAergic mechanism; Antiepileptic drug; Dentate gyrus, rat (Margineanu, D.G. (466) 255)

Palmitoylethanolamide

Cannabinoid receptor; Mast cell; Histamine release, anti-IgE-induced; Anandamide; WIN 55,512-2 (Lau, A.H.Y. (464) 229)

Palytoxin

Ca^{2+} , cytosolic, free; Spleen cell; Fura-2 (Satoh, E. (465) 9)

Pancreas

Cholecystokinin; Secretin; Gastrin-releasing peptide; Leptin; Ghrelin; Pancreatic polypeptide (Konturek, S.J. (481) 1)

Pancreatic islet

Superoxide; Superoxide dismutase; Blood flow; Nitric oxide (NO) (Svensson, A.M. (459) 59)

Exocytosis; Glucagon; Imidazoline compound; Insulin (Høy, M. (466) 213)

Pancreatic polypeptide

Pancreas; Cholecystokinin; Secretin; Gastrin-releasing peptide; Leptin; Ghrelin (Konturek, S.J. (481) 1)

Pancreatitis

Heat shock protein; HSP72; NF- κ B (nuclear factor- κ B); Methylprednisolone; Cholecystokinin-octapeptide (Rakonczay Jr., Z. (464) 217)

Ischemic preconditioning; Blood flow, pancreatic; Sensory nerve; Vagal nerve, interleukin-1 β (Dembiński, A. (473) 207)

Panic

Mouse Defense Test Battery; Anxiety; GABA_A–benzodiazepine receptor; 5-HT (5-hydroxytryptamine, serotonin); Neuropeptide (Blanchard, D.C. (463) 97)

Periaqueductal gray, dorsal; Anxiety; 5-HT (5-hydroxytryptamine, serotonin); T-maze, elevated (Zanoveli, J.M. (473) 153)

Pantoprazole

CYP3A (Cytochrome P450 3A); Omeprazole; St. John's wort; Induction of transcription; RT-PCR (reverse transcription–polymerase chain reaction) (Krusekopf, S. (466) 7)

Papillary muscle

Azimilide; Delayed rectifier K⁺ current; Purkinje fiber; Action potential (Takács, J. (470) 163)

Adenosine A₃ receptor; Ischaemia; Hypoxia; Stunning; Heart, isolated; working; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

PAR-activating peptide (PAR-AP)

Mast cell; PAR (proteinase-activated receptor); Thrombin; Histamine; Peritonitis (Dugina, T.N. (471) 141)

PAR-1 antagonist

FR171113; Thrombin receptor; Arterial thrombosis (Kato, Y. (473) 163)

Parkinson's disease

GMC1111; Dyskinesia; 6-Hydroxydopamine; Levodopa; Apomorphine; Dopamine stabilizer (Klitenberg, R. (459) 231)

Catechol-*O*-methyltransferase inhibitor; Kinetic; Liver catechol-*O*-methyltransferase; BIA 3-202 (Bonifácio, M.J. (460) 163)

Adenosine A_{2A} receptor; Striatum; Microdialysis; Glutamate (Corsi, C. (464) 33)

Flavonoid; Rotenone; Oxidative stress; SH-SY5Y cell (Molina-Jimenez, M.F. (472) 81)

Selegiline; Rasagiline; *S*(+)-methamphetamine; *R*(–)-methamphetamine; *R*(+)-1-aminoinidan (Glezer, S. (472) 173)

Dopamine; Ginseng; Saponin; Oxidative stress; Apoptosis (Chen, X.-C. (473) 1)

Pramipexole; Vesicular monoamine transporter; Vesicle function; Eticlopride (Truong, J.G. (474) 223)

MPTP; Pramipexole; Dopamine D₃ receptor (Ramirez, A.D. (475) 29)

Dopamine; BDNF (brain-derived neurotrophic factor); Behavioral sensitization; Dyskinesia (Guillin, O. (480) 89)

R(–)-1-(Benzofuran-2-yl)-2-propylaminopentane [(–)-BPAP]; Catecholaminergic and serotonergic activity enhancer; Human embryonic kidney 293 cell; Transporter; Tyramine (Shimazu, S. (482) 9)

Dopamine receptor agonist; hERG channel; Action potential duration (Hurst, R.S. (482) 31)

Paroxysmal choreoathetosis

Glutamate; Movement disorder (Richter, A. (458) 107)

PAR (proteinase-activated receptor)

Mast cell; PAR-activating peptide (PAR-AP); Thrombin; Histamine; Peritonitis (Dugina, T.N. (471) 141)

Partial agonist

Cytisine; Nicotinic receptor, neuronal; Agonist; Antagonist; Binding; FLIPR; Electrophysiology (Carbonnelle, E. (471) 85)

Aripiprazole; Haloperidol; Risperidone; Catalepsy; Dopamine; Atypical antipsychotic (Nakai, S. (472) 89)

Partial-agonist

Dopamine; Dopamine D1 receptor; Phenylbenzazepine (Neumeyer, J.L. (474) 137)

Partial agonist

GABA_A receptor; Spontaneous activity; Potency; Oocyte; Electrophysiology (Mortensen, M. (476) 17)

Acetylcholine release; Adenosine A₁ receptor; Low-efficacy agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-PCPA (8-propylamino-CPA); 8-BCPA (8-butylamino-CPA) (Buetters, T.J.H. (481) 141)

Passive avoidance

Memory retention; Cholinoceptor drug; Histaminergic agent; (Rat) (Eidi, M. (465) 91)

Passive avoidance task

T-82; Scopolamine; Basal forebrain lesion; (Rat) (Isomae, K. (465) 97)

Passive cutaneous anaphylaxis

Cutaneous blood flow; 5-Hydroxytryptamine receptor; Histamine H₂ receptor; (Rat) (Hayashi, K.-i. (482) 305)

Patch-clamp, whole-cell

Spider toxin; Dorsal ganglion neuron; Na⁺ current (Xiao, Y. (477) 1)

Paw edema

Inflammation; Thermal hyperalgesia; Resiniferatoxin; Mast cell (Zhang, Y.-H. (481) 301)

Paw pressure

Morphine; Ketamine; Methadone; Pain; Mononeuropathy; Isobologram; (Rat) (Pelissier, T. (477) 23)

PC-3

LNCAp; Intermediate-conductance K⁺ channel, intermediate-conducting, Ca²⁺-activated; Riluzole; 1-EBIO; Benign prostatic hyperplasia (Parihar, A.S. (471) 157)

PC12 cell

Nitric oxide (NO); *S*-Nitroso-L-cysteine; Amino acid transporter; System L (Nemoto, T. (458) 17)

Agmatine; Antidepressant; Monoamine; Ca²⁺ (Li, Y.F. (469) 81)

Dopamine transporter; Norepinephrine transporter; Protein kinase C; Dopamine release; Striatum (Gnegy, M.E. (479) 83)

***p*-Chloroamphetamine**

5-HT_{1A} receptor antagonist; Flumazenil; Conflict drinking test; (Rat) (Wesołowska, A. (471) 27)

8-PCPA (8-propylamino-CPA)

Acetylcholine release; Adenosine A₁ receptor; Low-efficacy agonist; Partial agonist; Neuronal synaptosome; CPA (cyclopentyladenosine); 3D-CPA (3'-deoxy-CPA); 8-BCPA (8-butylamino-CPA) (Buetters, T.J.H. (481) 141)

PD176252

Gastrin releasing peptide receptor; Antagonist; Lung cancer; Proliferation (Moody, T.W. (474) 21)

PDGF, (platelet-derived growth factor)

Argatroban; Smooth muscle cell, vascular; RT-PCR, (reverse transcription-polymerase chain reaction); In situ hybridization (Yoshinaga, M. (461) 9)

Nitric oxide (NO) synthase; Heme oxygenase; Fever (Almeida, M.C. (467) 133)

L-PDMP

Ganglioside biosynthesis; Spatial cognition; 8-Arm radial maze; Apoptosis (Yamagishi, K. (462) 53)

Penile erection

YC-1; Guanylate cyclase; Nitric oxide (NO); Apomorphine; Corpus cavernosum (Hsieh, G.C. (458) 183)

Dopamine D1-like receptor agonist; Erectile dysfunction (D'Aquila, P.S. (460) 71)

Penile small artery

Endothelium; Electrical field stimulation; K_{Ca} channel; K_V channel; K_{ATP} channel (Kun, A. (474) 103)

Pentacyclo-undecylamine

Excitotoxicity; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Neuroprotection (Geldenhuys, W.J. (458) 73)

Pentobarbital

Sequential three-key drug discrimination; Drug discrimination retention; Fixed-interval schedule; D-Amphetamine; Morphine; Caffeine; (Pigeon) (Li, M. (476) 79)

Pentylentetrazol

Diazepam; Neonatal reflex; Convulsion; GABA_A receptor (Nicosia, A. (469) 103)

Pentylentetrazole

Felbamate; Lamotrigine; 4-Aminopyridine; Drug interaction (Cuadrado, A. (465) 43)

Peptide

Amino acid; Innate lung defense (Mager, S. (479) 263)

Eating disorder; Anorexia; Bulimia; Hypothalamus; Randomized controlled trial (Södersten, P. (480) 67)

Peptide receptor antagonist

Tachykinin NK₁ receptor; Substance P; Neurokinin A; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Peptidergic response

Urinary bladder, rat; Capsaicin; Cholinergic contraction; Purinergic contraction; Electrical field stimulation; Streptozotocin diabetes (Benkó, R. (478) 73)

Peptide YY(3–36)

Leptin; Proopiomelanocortin; Agouti-related peptide; Neuropeptide Y; Ghrelin (Cowley, M.A. (480) 3)

Periaqueductal gray, dorsal

Panic; Anxiety; 5-HT (5-hydroxytryptamine, serotonin); T-maze, elevated (Zanoveli, J.M. (473) 153)

Periaqueductal grey

mglu receptor; Amino acid neurotransmitter; Microdialysis (de Novellis, V. (462) 73)

Perindopril

CGRP (Calcitonin gene-related peptide); Losartan; Renohypertension (Qin, X.-P. (464) 63)

Peripheral benzodiazepine receptor

Diazepam; Flow cytometry; Neutrophil; Oxidative burst; Corticosterone; Tolerance development (da Silva, F.R. (478) 97)

Peripheral blood mononuclear cell

Cannabinoid; Interleukin-2; Phytohaemagglutinin (Ihenetu, K. (464) 207)

Peripheral resistance

Urocortin; Arterial pressure; Cardiac output; Blood flow; Arterial conductance (Abdelrahman, A.M. (466) 317)

Peritoneal

Adrenomedullin; Calcitonin gene-related peptide (CGRP); CRLR (Calcitonin-receptor-like receptor); RAMP (Receptor-activity modifying protein); Mast cell; (Rat) (Matsushima, M. (464) 111)

Peritonitis

Mast cell; PAR (proteinase-activated receptor); PAR-activating peptide (PAR-AP); Thrombin; Histamine (Dugina, T.N. (471) 141)

Permeability transition pore

Binding site; Specific; Antioxidant property; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Peroxisome proliferator-activated receptor

Neuroprotection; 15-Deoxy-prostaglandin-J2; Troglitazone; Thiazolidine-dione (Aoun, P. (472) 65)

Acute lung inflammation; Cytokine; Chemokine; Activator protein-1 (Inoue, K.-i. (481) 261)

Peroxynitrite

Preconditioning; Tyrosine kinase; Genistein; Tyrphostin (Söylemez, S. (464) 163)

Pertussis toxin

δ-Opioid receptor, human; Down-regulation; Agonist-directed trafficking; Phosphorylation (Okura, T. (459) 9)

EP₃ receptor; TP receptor; Noradrenaline release; Stomach, rat (Yokotani, K. (459) 187)

8-Iso-prostaglandin E₂; 8-Iso-prostaglandin F_{2α}; Prostanoid EP₃ receptor; TP receptor; Noradrenaline release; Stomach, rat (Nakamura, K. (470) 73)

ADP-ribosylation; G protein; Receptor; Phospholipase C (Wong, C.S.S. (473) 105)

PET (positron emission tomography)

Apomorphine; cAMP-mediated signaling pathway; Receptor supersensitivity; Uptake; Up-regulation (Schwartz, R.A. (459) 195)

PET (Positron-Emission Tomography)

Opioid receptor; Opioid receptor antagonist; Diprenorphine; Naloxone (Melichar, J.K. (459) 217)

Peucedanum praeruptorum Dunn

Pyranocoumarins; Multidrug resistance; KB-V1; P-glycoprotein; Apoptosis (Wu, J.Y.-C. (473) 9)

PF1092

CP8668; Progesterone receptor modulator, nonsteroidal; T47D; Endometrial transformation, rabbit (Tabata, Y. (461) 73)

p125^{FAK}

KR-31372; K⁺ channel opener, ATP-sensitive; VEGF (vascular endothelial growth factor); KDR/Flk-1; Endothelial cell, umbilical vein, human (Kim, K.Y. (465) 219)

P-glycoprotein

ABC transporter; Caco-2 cell; Digoxin; Intestinal transport; MDR1; MRP2 (Lowe, S. (458) 49)

Ivermectin; (Dog); (Collie); Hypersensitivity; MDR (multidrug resistance) (Roulet, A. (460) 85)

Peucedanum praeruptorum Dunn; Pyranocoumarins; Multidrug resistance; KB-V1; Apoptosis (Wu, J.Y.-C. (473) 9)

pH, acidic

Acidosis, intracellular; Aorta; Spontaneously hypertensive rat (SHR); Wistar–Kyoto rat (WKY) (Rohra, D.K. (465) 141)

Pharmacodynamics

Lamotrigine; Anticonvulsant; Electroshock, maximal; Pharmacokinetics (Castel-Branco, M. (482) 163)

Pharmacokinetic

Ethanol; Narcosis; Dopamine D2 receptor; Conditioned avoidance; Ultrasonic call (Castorina, M. (477) 129)

Pharmacokinetics

Methamphetamine; Monoclonal antibody; Drug abuse; Behavior (Byrnes-Blake, K.A. (461) 119)

Methamphetamine; Behavioral sensitization; Microdialysis, brain; Drug transporter (Kitaichi, K. (464) 39)

Neurotoxicity; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Hyperthermia (Johnson-Davis, K.L. (482) 151)

Lamotrigine; Anticonvulsant; Electroshock, maximal; Pharmacodynamics (Castel-Branco, M. (482) 163)

Pharmacology

Histamine H₃ receptor; Cloning; Splice variant (Chen, J. (467) 57)

Histamine H₃ receptor; (Monkey); Cloning; Expression; G-protein coupled receptor (Yao, B.B. (482) 49)

Phenethylamine

Hallucinogen; 5-HT (5-hydroxytryptamine, serotonin); μ -Opioid receptor; Head shake; DOI; 5-HT_{2A} receptor; Buprenorphine; Fentanyl (Marek, G.J. (474) 77)

Phenolsulfonphthalein

Basolateral membrane; Organic anion transporter 1; Organic anion transporter 3; Renal uptake; Urinary excretion (Itagaki, S. (475) 85)

Phenotype

Anorexia nervosa; Obesity; Genotype; Trait; Hyperactivity; Anxiety (Kas, M.J.H. (480) 13)

Insulin; Airway smooth muscle; Asthma; Diabetes (Gosens, R. (481) 125)

Phenotype-driven screen

ENU (ethyl-nitrosurea); Animal model; Mouse mutant; Disease gene (Keays, D.A. (480) 205)

Phenoxybenzamine

Vas deferens, human; A-61603; Cirazoline; Oxymetazoline; SZL-49; Dibenamine (Amobi, N. (462) 169)

Phenylacetate derivative

Cell cycle; Caspase; Apoptosis (Chan, H.-C. (467) 31)

Phenylbenzazepine

Dopamine; Dopamine D1 receptor; Partial-agonist (Neumeyer, J.L. (474) 137)

Phodopus

Melatonin; Photoperiod; Leptin; SOCS3; CART (Mercer, J.G. (480) 43)

Phoneutria nigriventer venom

Hyperalgesia; Vanilloid receptor; Tachykinin receptor; Excitatory amino acid receptor (Zanchet, E.M. (467) 111)

Phosphatidylinositol 3-kinase

Angiotensin II; 4E-BP1 (4E-binding protein 1); Angiotensin AT₁ receptor; mTOR (mammalian target of rapamycin) (Yamakawa, T. (478) 39)

Phosphodiesterase

Alveolar macrophage; Nitric oxide synthesis; Lipopolysaccharides; Arginase; iNOS (Koschorreck, S. (471) 229)

Phosphodiesterase type 5 inhibitor; Erectile dysfunction; Corpus cavernosum (Qiu, Y. (472) 73)

cGMP; Nitric oxide (NO) synthase; Guanylate cyclase; Corpus cavernosum (Hosogai, N. (473) 65)

Phosphodiesterase inhibition, type IV

Endotoxemia; Cardiac performance; Ro 20–1724 (Thomas, N.J. (465) 133)

Phosphodiesterase inhibitor

Impotence; Renal failure; (Rabbit) (Kilcarslan, H. (462) 155)

Phosphodiesterase 4 inhibitor

Cilomilast; Dendritic cell; Skin, mouse; Matrix metalloproteinase 9; Toluene-2,4-diisocyanate; Zymography (Bäumer, W. (481) 271)

Phosphodiesterase type 4

cAMP; Relaxation; Smooth muscle, Tracheal (Moriuchi, H. (470) 57)

Phosphodiesterase type 5 inhibitor

Phosphodiesterase; Erectile dysfunction; Corpus cavernosum (Qiu, Y. (472) 73)

cGMP; FR226807 (Hosogai, N. (477) 171)

Phospholipase A₂

NF κ B (nuclear factor- κ B); MAP (mitogen-activated protein) kinase; Interleukin-2; T-lymphocyte (Burgermeister, E. (466) 169)

Phospholipase C

ADP-ribosylation; G protein; Receptor; Pertussis toxin (Wong, C.S.S. (473) 105)

Prostacyclin receptor; Adenylyl cyclase; G protein coupling; Receptor switching (Chow, K.B.S. (474) 7)

Catecholamine; Plasma; Corticotropin-releasing hormone (CRH); Diacylglycerol lipase; Brain; Sympatho-adrenomedullary outflow (Okada, S. (475) 49)

Phosphorylation

δ -Opioid receptor, human; Down-regulation; Agonist-directed trafficking; Pertussis toxin (Okura, T. (459) 9)

Neurotransmitter transport; Dopamine transporter; Transporter regulation; Trafficking; Signaling mechanism; Cocaine; Amphetamine (Mortensen, O.V. (479) 159)

Photoaffinity labelling

Anticonvulsant; Binding; Brain; Levetiracetam (Fuks, B. (478) 11)

Photoperiod

Melatonin; *Phodopus*; Leptin; SOCS3; CART (Mercer, J.G. (480) 43)

Photorelaxation

Corpus cavernosum; Nitric oxide (NO); 3-Nitro-L-tyrosine; Ultraviolet light (Büyükaşar, K. (459) 263)

Phyllanthus amarus

Lignan; Allodynia; Anti-oedematogenic; Myeloperoxidase; Inflammatory pain; Neuropathic pain (Kassuya, C.A.L. (478) 145)

(Physalis angulata L.)

Steroid; Immunomodulation; Endotox shock (Soares, M.B.P. (459) 107)

Physical dependence

Cannabinoid CB₁ receptor; G-protein; Desensitization; Down-regulation (Breivogel, C.S. (459) 139)

Phytoestrogen

Genistein; Vasodilatation; Smooth muscle (Lee, M.Y.K. (481) 227)

Cerebral artery; Ca²⁺ channel; Nitric oxide (NO); Estrogen; Stroke (Torregrosa, G. (482) 227)

Phytohaemagglutinin

Cannabinoid; Interleukin-2; Peripheral blood mononuclear cell (Ihenetu, K. (464) 207)

Picrotoxinin

Ginkgo biloba; Bilobalide; Bicuculline; GABA_A receptor; Voltage clamp, two-electrode; *Xenopus* oocyte (Huang, S.H. (464) 1)

(Pig)

Arteriovenous anastomosis; BIBN4096BS; Carotid vasodilatation; Cardiac output; CGRP (calcitonin gene-related peptide); α -CGRP human; Migraine (Kapoor, K. (475) 69)

(Pigeon)

Emesis; Cisplatin; Tachykinin NK₁ receptor antagonist; GR205171 (Tanihata, S. (461) 197)

Sequential three-key drug discrimination; Drug discrimination retention; Fixed-interval schedule; Pentobarbital; D-Amphetamine; Morphine; Caffeine (Li, M. (476) 79)

Pinocembrin

Tilioside; Gnaphaliin; Anti-inflammatory activity; Antioxidant activity (Sala, A. (461) 53)

Piperlactam S

Complement 5a; RAW264.7 macrophage; F-actin; Filopodia; Cdc42 (Chiou, W.-F. (458) 217)

Pithed rat

(+)-Nantenine; Pressor response; Sympathetic nerve stimulation; α -Adrenoceptor; 5-HT receptor (Tsuchida, H. (477) 53)

Pitx3

Development; Mesencephalic; Dopaminergic; Midbrain; Dopamine (Smidt, M.P. (480) 75)

PK11195

Benzodiazepine receptor, peripheral-type; Ro5-4864; Depression; Steroid; (Mouse); Forced swimming test (Gavioli, E.C. (471) 21)

PKC (protein kinase C)

Artemisinin; Leukemia; Cell differentiation; ERK (extracellular-regulated kinase) (Kim, S.H. (482) 67)

PKR (RNA-dependent protein kinase)

RNA, regulatory; RNA, noncoding; NF- κ B (nuclear factor- κ B); B16-F10 melanoma; TNF- α (tumor necrosis factor- α) (Watanabe, M.A.E. (465) 205)

Plasma

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A₂ synthase; Brain; Adrenaline; Noradrenaline; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

Catecholamine; Corticotropin-releasing hormone (CRH); Phospholipase C; Diacylglycerol lipase; Brain; Sympatho-adrenomedullary outflow (Okada, S. (475) 49)

Noradrenaline; Adrenaline; CRH (corticotropin-releasing hormone); Nitric oxide (NO) synthase, inducible; Brain (Okada, S. (477) 95)

Plasma extravasation

Somatostatin; Vasodilatation; Knee joint, rat (Lam, F.F.Y. (474) 295)

Plasmin

Angiostatin; Angiogenesis; α_2 -Antiplasmin; ϵ -Aminocaproic acid (Hatzia-postolou, M. (460) 1)

Plasminogen activator

Rhizoxin; Microbial angiogenesis inhibitor; Angiogenic endothelial function; Tube formation (Aoki, K. (459) 131)

Platelet

5-HT (5-hydroxytryptamine, serotonin); SERT (serotonin transporter); Hypoxic pulmonary hypertension; Aggregation (Awabdy, D. (459) 1)

Aspirin; Receptor; Coronary artery disease (Malinin, A.I. (462) 139)

Platelet factor 4

Acetylsalicylic acid; Aspirin; Anti-thrombin action; Coronary heart disease (Di Micco, B. (460) 59)

Platelet inhibition, in vivo

MAHMA NONOate; Nitric oxide (NO) donors; S-nitrosoglutathione; Vasodepression systemic (Homer, K.L. (482) 265)

Plus-maze test

MKC-242; 5-HT_{1A} receptor; (Mouse) (Sakaue, M. (458) 141)

Anxiety; Levetiracetam; Anti-epileptic; Chlordiazepoxide; Buspirone (Gower, A.J. (481) 67)

p38 MAP kinase

6-Nitro-7-hydroxycoumarin; Renal cell carcinoma; Apoptosis; Cell cycle (Finn, G. (481) 159)

p38 Mitogen-activated protein kinase

α_2 -Adrenoceptor agonist; Interleukin-12; Macrophage (Kang, B.Y. (467) 223)

³¹P-NMR (nuclear magnetic resonance)

Adenosine; Preconditioning; (Rat); Ischemia, low-flow (Bradamante, S. (465) 115)

Poly (ADP-ribose) polymerase

3-Aminobenzamide; 1,5-Dihydroxyisoquinoline; NF- κ B (nuclear factor- κ B); Activator protein-1; Colitis (Zingarelli, B. (469) 183)

Ethanol; Apoptosis; Cytochrome *c*; Caspase-3; DNA fragmentation; Neuron; Cortex; Cerebellum (Rajgopal, Y. (470) 117)

Poly(ADP-ribose) polymerase-1 cleavage

Apoptosis; Sesquiterpene lactone; Cytotoxic activity; Caspase; Cytochrome *c* release (Rivero, A. (482) 77)

Polymerase chain reaction (PCR)

Analgesic; Animal model; Nociception; Gene expression; Quantitative PCR; (Rat) (Hofmann, H.A. (470) 17)

Polysaccharide-protein complex

Lycium barbarum; Cytokine; Gene expression; Bioassay (Gan, L. (471) 217)

POMC (pro-opiomelanocortin)

Anorexia; Hypothalamus; Mouse model; Genetic; Positional cloning; Neuropeptide Y; AgRP (agouti-related protein); Autoantibody (Johansen, J.E. (480) 171)

Axotomy; Injury; mRNA expression; Melanocortin receptor; Retina (Lindqvist, N. (482) 85)

Porcine oviduct

5-HT (5-hydroxytryptamine, serotonin); Relaxation; 5-HT₇ receptor; cAMP; [³H]5-CT ([³H]5-carboxamidotryptamine) binding (Inoue, M. (461) 207)

Porcine uterus

Pregnancy; Spontaneous contraction; Acetylcholine; Oxytocin; 5-Hydroxytryptamine; Nitric oxide (Kitazawa, T. (469) 135)

Positional cloning

Anorexia; Hypothalamus; Mouse model; Genetic; Neuropeptide Y; AgRP (agouti-related protein); POMC (pro-opiomelanocortin); Autoantibody (Johansen, J.E. (480) 171)

Posterior hypothalamus

Nitroglycerin; Nitrate tolerance; Nitric oxide (NO); Cardiovascular action; Dialysis (Ma, S.-X. (472) 179)

Postjunctional contraction

Adenosine A₁ receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Adenosine A₃ receptor (Diniz, C. (460) 191)

Postoperative ileus

Colon; (Rat); Adenosine A₁ receptor; antagonist (Kadowaki, M. (458) 197)

Post-tetanic facilitation

Nicotinic α 3 β 2 receptor; Adenosine A_{2A} receptor; Adenosine endogenous; Acetylcholine release; Neuromuscular junction (Timóteo, M.A. (464) 115)

Potato-derived carboxypeptidase inhibitor (CPI)

Carboxypeptidase B; Microthrombosis; Fibrinolysis; MGPA (DL-Mercaptoethyl-3-guanidinoethylthiopropionic acid) (Muto, Y. (461) 181)

Potency

Vomiting; Locomotor activity; CP55,940; SR141716A; Cannabinoid CB₁ receptor; (Least shrew); G-protein; Efficacy (Darmani, N.A. (459) 83)

GABA_A receptor; Spontaneous activity; Partial agonist; Oocyte; Electrophysiology (Mortensen, M. (476) 17)

Potentiation

Opioid; Metamizol; Antinociception; Tolerance (Hernández-Delgadillo, G.P. (469) 71)

Nicotinic receptor; Levamisole; Inhibition; Allosteric modulator; Oocyte (Levandoski, M.M. (471) 9)

Potentiator

GABA_B receptor; L-Amino acid; Dipeptide; Baclofen; Neocortex, rat (Kerr, D.I.B. (468) 103)

PPADS

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

PPAR

Shock; 15-Deoxy^Δ^{12,14} prostaglandin J₂ (Collin, M. (476) 257)

PPAR- γ ligand

Ulcer healing; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); Nitric oxide (NO) synthase; HSP70 (heat shock protein 70) (Konturek, P.C. (472) 213)

PPAR γ (Peroxisome proliferator-activated receptor γ)

Smooth muscle cell, vascular; Cell cycle; Cyclin D1 (Bruemmer, D. (466) 225)

PPAR γ (peroxisome proliferator-activated receptor)

Fatty acid; Glucocorticoid; Leptin; Adiponectin; Hypothalamus (van Dijk, G. (480) 31)

p42/p44 MAPK (ERK)

Baicalein; MEK-1; Raf-1; Prostaglandin E₂ (Nakahata, N. (461) 1)

Pramipexole

Vesicular monoamine transporter; Parkinson's disease; Vesicle function; Eticlopride (Truong, J.G. (474) 223)

Parkinson's disease; MPTP; Dopamine D₃ receptor (Ramirez, A.D. (475) 29)

Prazosin

Morphine withdrawal; Morphine tolerance; Analgesia; Clonidine (Özdoğan, Ü.K. (460) 127)

P2 receptor

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Preconditioning

Peroxyntirite; Tyrosine kinase; Genistein; Tyrphostin (Söylemez, S. (464) 163)

Adenosine; ^{31}P -NMR (nuclear magnetic resonance); (Rat); Ischemia, low-flow (Bradamante, S. (465) 115)

Pregnancy

Porcine uterus; Spontaneous contraction; Acetylcholine; Oxytocin; 5-Hydroxytryptamine; Nitric oxide (Kitazawa, T. (469) 135)

Prepulse inhibition

Nicotine withdrawal; Self-administration; Acoustic startle; Somatic sign; Mouse (Semenova, S. (472) 99)

Pressor response

(+)-Nantenine; Pithed rat; Sympathetic nerve stimulation; α -Adrenoceptor; 5-HT receptor (Tsuchida, H. (477) 53)

Presynaptic receptor

DAT (dopamine transporter); Functional regulation; Trafficking; Substrate-mediated regulation (Gulley, J.M. (479) 139)

Primary culture

Bradykinin; Prostaglandin E_2 ; Trigeminal; Migraine (Jenkins, D.W. (469) 29)

Primary cultured cerebral cortical neuron

Donepezil; Acetylcholinesterase inhibitor; Oxygen–glucose deprivation; LDH release; (Rat) (Akasofu, S. (472) 57)

Proarrhythmia

Torsade de pointes; QT prolongation; Prostaglandin E_2 ; K^+ channel; ATP-dependent K^+ channel (Farkas, A. (472) 189)

Probucol

Diabetes mellitus; Leukocyte–endothelial interaction (Zanardo, R.C.O. (478) 211)

Procaine

Local anaesthetic; Fluid-phase endocytosis; Exocytosis; Fibroblast; Skin, human; Neutral red uptake assay (Michalik, M. (475) 1)

Progesterone

17β -Estradiol; Endothelium; Inbred SHR, rat; Aorta; K^+ channel (Unemoto, T. (472) 119)

Progesterone receptor modulator, nonsteroidal

CP8668; T47D; Endometrial transformation, rabbit; PF1092 (Tabata, Y. (461) 73)

Progestin

Infarct size; Estrogen; Raloxifene; Hypercholesterolemia (Sbarouni, E. (467) 163)

Progestin, synthetic

19-Nor-steroid; Norethisterone; Vasorelaxation; Hormone replacement therapy (Perusquía, M. (475) 161)

Proliferation

PTH (Parathyroid hormone); Tuberoinfundibular peptide (TIP39); PTH2 receptor; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

Calcitonin receptor-like receptor; CGRP (Calcitonin gene-related peptide); MAP (Mitogen-activated protein) kinase; Osteoblast (Kawase, T. (470) 125)

Ca^{2+} channel blocker; Human epidermoid carcinoma A431 cell; Intracellular Ca^{2+} ; Fura-2; Fluo-3; Amlodipine (Yoshida, J. (472) 23)

PD176252; Gastrin releasing peptide receptor; Antagonist; Lung cancer (Moody, T.W. (474) 21)

Asthma; Thromboxane A_2 ; Smooth muscle cell; Human; Airway (Capra, V. (474) 149)

Proline

Psychosis; Linkage; Association; Genetic; 5-HT (5-hydroxytryptamine, serotonin); Neuregulin (Collier, D.A. (480) 177)

Proopiomelanocortin

Leptin; Agouti-related peptide; Neuropeptide Y; Ghrelin; Peptide YY-(3–36) (Cowley, M.A. (480) 3)

Prooxidant

Quercetin; Antioxidant; Glutathione; Malondialdehyde (Choi, E.J. (482) 281)

Propentofylline

β -Amyloid protein; Hippocampal neuron; cAMP; Protein kinase A; Apoptosis (Koriyama, Y. (458) 235)

Propofol

Anaesthetic, intravenous; Barbiturate; Glycine receptor (Hadipour-Jahromy, M. (477) 81)

Septic shock; Organ dysfunction; Nitric oxide (NO); Free radical (Tsao, C.-M. (477) 183)

Prostacyclin

CYR61; Iloprost; Smooth muscle; Atherosclerosis (Debey, S. (474) 161)

Prostacyclin receptor

Adenyl cyclase; Phospholipase C; G protein coupling; Receptor switching (Chow, K.B.S. (474) 7)

Prostaglandin

Hydrogen peroxide; Hyperpolarization; ATP-sensitive K^+ channel; Smooth muscle vascular (Hattori, T. (464) 101)

Streptozotocin-induced diabetes; Carbachol; Ca^{2+} ionophore A23187; Adenosine A_1 receptor (Talubmook, C. (469) 153)

Alpinia galanga; 1'S-1'-Acetoxychavicol acetate; Necrotizing agent-induced gastric lesion; Sulfhydryl compound (Matsuda, H. (471) 59)

CRH (corticotropin-releasing hormone); Noradrenaline; Brain; (–)-Nicotine; Brain nicotinic receptor; Corticosterone, plasma (Okada, S. (473) 217)

Nefiracetam; Metabolite; Renal papillary necrosis; Biomarker (Tsuchiya, Y. (475) 119)

Cyclo-oxygenase-2; Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; Interleukin-1 β ; Apoptosis (Martín, A.R. (481) 281)

Prostaglandin E_2

Baicalein; p42/p44 MAPK (ERK); MEK-1; Raf-1 (Nakahata, N. (461) 1)

Chalcones; Nitric oxide (NO); RAW 264.7; Zymosan-injected mouse air pouch; Adjuvant-induced arthritis (Rojas, J. (465) 183)

Bradykinin; Trigeminal; Migraine; Primary culture (Jenkins, D.W. (469) 29)

Torsade de pointes; QT prolongation; K^+ channel; ATP-dependent K^+ channel; Proarrhythmia (Farkas, A. (472) 189)

Prostaglandin H_2

Pulmonary artery; Stretch; Contraction; Integrin (Saito, M. (467) 151)

Prostanoid

Cerebral artery; Coronary artery; Renal artery; Tail artery; Nitric oxide (NO) (García-Villalón, A.L. (459) 247)

Renin–angiotensin–aldosterone system; Angiotensin II; Cyclooxygenase; Kidney; Heart (Cheng, Z.J. (461) 159)

Testosterone; K^+ channel; Vasorelaxation; Ca^{2+} influx (Tep-areenan, P. (465) 125)

Emesis; Emetic; Anti-emetic; (*Suncus murinus*) (Kan, K.K.W. (477) 247)

U46619; Prostanoid TP receptor; Tachykinin NK_1 receptor; Emetic; Anti-emetic; (*Suncus murinus*) (Kan, K.K.W. (482) 297)

Prostanoid EP_3 receptor

8-Iso-prostaglandin E_2 ; 8-Iso-prostaglandin $F_{2\alpha}$; TP receptor; Noradrenaline release; Stomach, rat; Pertussis toxin (Nakamura, K. (470) 73)

Prostanoid TP receptor

U46619; Tachykinin NK_1 receptor; Emetic; Anti-emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (482) 297)

Prostate, human

Endothelin receptor antagonist; TA-0201; Endothelin receptor (Takahashi, M. (467) 185)

Protein

Alcohol; Self-administration; NR2B subunit; Up-regulation (Henniger, M.S.H. (470) 33)

Protein expression

Noradrenaline; Adrenoceptor; N-terminal; Radioligand binding (Pupo, A.S. (462) 1)

Protein kinase A

β -Amyloid protein; Hippocampal neuron; Propentofylline; cAMP; Apoptosis (Koriyama, Y. (458) 235)

β -Adrenoceptor; cAMP; Urinary bladder; Smooth muscle; Ca^{2+} channel L-type (Kobayashi, H. (470) 9)

Morphine withdrawal; Protein kinase C; Ca^{2+} channel; Noradrenaline turnover; Heart (Martínez, M.D. (471) 113)

Protein kinase C

Bisindolylmaleimide I; Ca^{2+} current; Calphostin; Clearythrine; K^+ current (Voutilainen-Myllylä, S. (466) 41)

Hypertension; K^+ channel; Sympathetic system; Vascular tension; Angiotensin AT_1 receptor; Endothelin ET_A receptor (Berg, T. (466) 301)

Ginseng; Ginsenoside; K^+ channel; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Morphine withdrawal; Protein kinase A; Ca^{2+} channel; Noradrenaline turnover; Heart (Martínez, M.D. (471) 113)

Loop of Henle; Microperfusion, in vitro; Fenoldopam; Arachidonic acid (Grider, J.S. (473) 185)

Honokiol; Reactive oxygen species; NADPH oxidase; Myeloperoxidase; Cyclooxygenase; Glutathione peroxidase (Liou, K.-T. (475) 19)

Diabetes mellitus; Endothelium; Smooth muscle; NANC (non-adrenergic, non-cholinergic) nerve; Nitric oxide (NO); Aorta; Corpus cavernosum (Nangle, M.R. (475) 99)

Dopamine transporter; Norepinephrine transporter; Dopamine release; PC12 cell; Striatum (Gnegy, M.E. (479) 83)

Protein phosphatase

Bisphosphonate; Osteoblast; Differentiation; Alkaline phosphatase; Protein tyrosine phosphatase (Itoh, F. (477) 9)

Protein tyrosine phosphatase

Bisphosphonate; Osteoblast; Differentiation; Alkaline phosphatase; Protein phosphatase (Itoh, F. (477) 9)

Proton pump inhibitor

Enterochromaffin-like cell; Histamine (Yokota, T. (481) 233)

Proximal tubule

Angiotensin II; Gene expression; Microarray; Transcription factor; Renal cell, human (Braam, B. (464) 87)

Organic anion transporter; Cephalosporin antibiotic; Transport; Cell line (Khamdang, S. (465) 1)

Organic anion transporter; Organic cation transporter; Indoxyl sulfate; Uremia (Enomoto, A. (466) 13)

Prulifloxacin

Cardiac risk assessment; QT prolongation; HERG current; ECG (electrocardiogram) (Lacroix, P. (477) 69)

Pruritus

Opioid system; TRK-820; CNS (central nervous system); Behavior; (Mouse) (Umeuchi, H. (477) 29)

Pseudohypericin

Hypericum perforatum; St. John's wort; Hypericin; Hyperforin; Depression; CRF (corticotropin-releasing factor) (Simmen, U. (458) 251)

Psychiatric disorder

Animal model; Mutagenesis; ENU (ethyl-nitrosourea); Behaviour; High-throughput screen; Candidate gene (Ohl, F. (480) 219)

Psychosis

Linkage; Association; Genetic; 5-HT (5-hydroxytryptamine, serotonin); Proline; Neuregulin (Collier, D.A. (480) 177)

Psychostimulant

Nicotine; Addiction; Neurotensin; Sensitization (Fredrickson, P. (458) 111)

Cocaine; Monoamine; Amphetamine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); DAT (dopamine transporter); SERT (serotonin transporter) (Rothman, R.B. (479) 23)

PTH (Parathyroid hormone)

Tuberoinfundibular peptide (TIP39); PTH2 receptor; Proliferation; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

PTH2 receptor

PTH (Parathyroid hormone); Tuberoinfundibular peptide (TIP39); Proliferation; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

Pulmonary artery

Acetylcholine; Na^+/H^+ exchanger; Wistar–Kyoto, rat (WKY); Spontaneously hypertensive, rat (SHR) (Chau, W.H. (464) 177)

Stretch; Contraction; Prostaglandin H_2 ; Integrin (Saito, M. (467) 151)

Histamine; Nitric oxide (NO); (Wistar–Kyoto rat); Spontaneously hypertensive, rat (Lau, W.H. (470) 45)

Endothelium-dependent vasodilatation; 5-HT (5-hydroxytryptamine, serotonin); Hypoxia, intermittent; Pulmonary hypertension; Vasoactive agent (Thomas, B.J. (477) 153)

$\alpha_{1\text{D}}$ -Adrenoceptor subtype; WB 4101; Chloroethylclonidine; Pulmonary hypertension (Oriowo, M.A. (482) 255)

Pulmonary artery, sheep

Hypoxia; Pyrrolidine dithiocarbamate; Pyrithione (Uzun, Ö. (458) 171)

Pulmonary artery smooth muscle cell, human

Carbon monoxide; Heme oxygenase; Carbon monoxide-releasing molecule; Pulmonary hypertension (Stanford, S.J. (473) 135)

Pulmonary fibrosis

Chymase; Mast cell; Collagen synthesis; TGF- β 1 (transforming growth factor- β 1) (Tomimori, Y. (478) 179)

Pulmonary hypertension

Carbon monoxide; Heme oxygenase; Carbon monoxide-releasing molecule; Pulmonary artery smooth muscle cell, human (Stanford, S.J. (473) 135)

Endothelium-dependent vasodilatation; 5-HT (5-hydroxytryptamine, serotonin); Hypoxia, intermittent; Pulmonary artery; Vasoactive agent (Thomas, B.J. (477) 153)

$\alpha_{1\text{D}}$ -Adrenoceptor subtype; WB 4101; Chloroethylclonidine; Pulmonary artery (Oriowo, M.A. (482) 255)

Purine

Cerebrovascular circulation; Pyrimidine; Vasoconstriction; $\text{P}2\text{Y}_6$ receptor (Malmström, M. (458) 305)

Purinergic contraction

Urinary bladder, rat; Capsaicin; Cholinergic contraction; Peptidergic response; Electrical field stimulation; Streptozotocin diabetes (Benkő, R. (478) 73)

Purinergic inhibitory neuromodulation

Endothelium-derived factor; Mesenteric artery; (Hamster) (Thapaliya, S. (461) 129)

Purinoreceptor

Colon, murine; Fast inhibitory junction potential; Apamin; ATP; PACAP (pituitary adenylate cyclase activating peptide) (Serio, R. (460) 183)

Purinoreceptor subtype $\text{P}_{2\text{X}7}$

Interleukin-18; Lipopolysaccharide; Monocyte; Inflammation; Glyburide (Mühl, H. (482) 325)

Purkinje fiber

Azamilide; Delayed rectifier K^+ current; Papillary muscle; Action potential (Takács, J. (470) 163)

p21^{WAF1/CIP1}

Selenite; Apoptosis; JNK; c-Jun; p53 (Nango, R. (471) 1)

 $\text{P}2\text{X}_4$ purinoreceptor

ATP purinoreceptor; Copper neuromodulation; Zinc neuromodulation; Desensitized purinoreceptor; Metal chelator; Metal neuromodulation (Codou, C. (472) 49)

 $\text{P}2\text{X}$ receptor

Dorsal root ganglion; Vanilloid 1 receptor; Cyclophosphamide-induced cystitis (Borvendeg, S.J. (474) 71)

ATP; Site-directed mutagenesis; Cysteine; *Xenopus* oocyte (Nakazawa, K. (474) 205)

Pyranocoumarins

Peucedanum praeruptorum Dunn; Multidrug resistance; KB-V1; P-glycoprotein; Apoptosis (Wu, J.Y.-C. (473) 9)

 $\text{P}2\text{Y}_6$ receptor

Cerebrovascular circulation; Purine; Pyrimidine; Vasoconstriction (Malmström, M. (458) 305)

Pyrimidine

Cerebrovascular circulation; Purine; Vasoconstriction; $\text{P}2\text{Y}_6$ receptor (Malmström, M. (458) 305)

Pyrithione

Hypoxia; Pulmonary artery, sheep; Pyrrolidine dithiocarbamate (Uzun, Ö. (458) 171)

Pyrrolidine dithiocarbamate

Hypoxia; Pulmonary artery, sheep; Pyrithione (Uzun, Ö. (458) 171)

Renal/kidney; Reperfusion-injury; Dithiocarbamates; Nuclear factor- κB ; Inducible nitric oxide synthase; Nitric oxide (Chatterjee, P.K. (482) 271)

QT interval

Famotidine; Monophasic action potential; Torsades de pointe; HERG; Atrioventricular block (Sugiyama, A. (466) 137)

QT prolongation

HERG channel; K^+ channel; *l*- α -acetylmethadol; Torsades de pointes (Kang, J. (458) 25)

Torsade de pointes; Prostaglandin E_2 ; K^+ channel; ATP-dependent K^+ channel; Proarrhythmia (Farkas, A. (472) 189)

Prulifloxacin; Cardiac risk assessment; HERG current; ECG (electrocardiogram) (Lacroix, P. (477) 69)

Quantitative PCR

Analgesic; Animal model; Nociception; Gene expression; Polymerase chain reaction (PCR); (Rat) (Hofmann, H.A. (470) 17)

Quercetin

Angiogenesis; Umbilical vein endothelial cell (Human); Microvascular dermal endothelial cell (Human); Matrix metalloproteinase-2 (Tan, W.-f. (459) 255)

Antioxidant; Prooxidant; Glutathione; Malondialdehyde (Choi, E.J. (482) 281)

R-715

Bradykinin receptor; Bradykinin; Des-Arg⁹-bradykinin; HOE-140; Ovalbumin sensitization; Bronchoalveolar lavage; Eosinophil; Ca^{2+} intracellular; Fura-2 (Eric, J. (475) 129)

(Rabbit)

Impotence; Renal failure; Phosphodiesterase inhibitor (Kilicarslan, H. (462) 155)

Angiotensin II; Renin–angiotensin system; Angiotensin AT₁ receptor antagonist (Nap, A. (469) 117)

Cardiac myocyte; Cyclic GMP; Cyclic AMP; Cyclic GMP affected cyclic AMP phosphodiesterases (Weiss, H.R. (481) 25)

Radial arm maze

Cannabinoid CB₁ receptor antagonist; Memory consolidation (Wolff, M.C. (477) 213)

Radioligand

Nicotinic acetylcholine receptor; Epibatidine; Analgesia; Spinal cord (Nishiyama, T. (470) 27)

Radioligand binding

Noradrenaline; Adrenoceptor; N-terminal; Protein expression (Pupo, A.S. (462) 1)

Ca²⁺ channel, L-type; Diltiazem; Ca²⁺ channel antagonist; Dihydropyridine receptor; Ca²⁺ (Hagiwara, M. (466) 63)

Muscarinic receptor; [³H]Quinuclidinyl benzylate; Colon, human; Circular muscle; Alkylating agent (Mansfield, K.J. (482) 101)

GABA_A receptor; HEK 293 cell; GABA (γ-aminobutyric acid); Diazepam; Muscimol (Peričić, D. (482) 117)

Radio receptor binding assay

Endothelin-1; Endothelin-1(1–31); Endothelin ET_A receptor; Endothelin ET_B receptor; Lung, porcine (Kitamura, H. (465) 31)

Raf-1

Baicalein; p42/p44 MAPK (ERK); MEK-1; Prostaglandin E₂ (Nakahata, N. (461) 1)

Raloxifene

Infarct size; Estrogen; Progestin; Hypercholesterolemia (Sbarouni, E. (467) 163)

R(+)-1-aminoindan

Parkinson's disease; Selegiline; Rasagiline; *S*(+)-methamphetamine; *R*(–)-methamphetamine (Glezer, S. (472) 173)

RAMP (Receptor-activity modifying protein)

Adrenomedullin; Calcitonin gene-related peptide (CGRP); CRLR (Calcitonin-receptor-like receptor); Mast cell; Peritoneal; (Rat) (Matsushima, M. (464) 111)

Randomized controlled trial

Eating disorder; Anorexia; Bulimia; Hypothalamus; Peptide (Södersten, P. (480) 67)

Ranitidine

Salivary gland; Cysteamine; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Atropine; Omeprazole (Bedekovic, V. (477) 73)

Rapid cycling

Antidepressant; Bipolar disorder; Imipramine; Mania; Supersensitivity (D'Aquila, P.S. (458) 129)

Rapid eye movement (REM) sleep

Insomnia; Sleep latency; Wakefulness; Non-rapid eye movement (non-REM) sleep; Short-acting hypnotic (Shinomiya, K. (460) 139)

Rasagiline

Parkinson's disease; Selegiline; *S*(+)-methamphetamine; *R*(–)-methamphetamine; *R*(+)-1-aminoindan (Glezer, S. (472) 173)

(Rat)

Myocardial infarction; Bradykinin receptor; Membrane transporter (Sandmann, S. (458) 3)

Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Conditioned place preference; Ventral tegmental area (Gholami, A. (458) 119)

Postoperative ileus; Colon; Adenosine A₁ receptor; antagonist (Kadowaki, M. (458) 197)

Cocaine discrimination; (Mouse); (Rhesus monkey); Mazindane; Mazindol; Motor activity, mouse; Neurotransmitter binding (Houlihan, W.J. (458) 263)

Bradykinin receptor; Induction; Desensitisation; Vas deferens (Scott, P. (458) 319)

Microdialysis; Ventral subiculum; Muscarinic receptor; Nucleus accumbens; Dopamine (Moss, S. (460) 117)

Calcitonin; Hypocalcemia; Chronopharmacology (Nishiki, K. (460) 171)

Zotepine; Clozapine; Schizophrenia; Glutamate; Dizocilpine (MK-801) (Okamura, N. (461) 93)

Opiate; Morphine; Pain; Analgesia; Formalin test (Sevostianova, N. (462) 109)

Ethanol; Social memory; Olfactory memory; Naloxone; Scopolamine (Prediger, R.D.S. (462) 115)

Vocalisation; Stress; Aversion; Anxiety; Ultrasound (Sánchez, C. (463) 133)

Adrenomedullin; Calcitonin gene-related peptide (CGRP); CRLR (Calcitonin-receptor-like receptor); RAMP (Receptor-activity modifying protein); Mast cell; Peritoneal (Matsushima, M. (464) 111)

Jaw movement; Superior colliculus; Ventrolateral striatum; GABA_A receptor; Dopamine receptor; Acetylcholine receptor (Adachi, K. (464) 147)

Myocardial infarction; Arrhythmias; Survival rate; Levosimendan (Leprán, I. (464) 171)

α-Tocopherol; Neuroprotection; Oxidative stress; Apoptosis; Striatal neuron; (In vitro) (Osakada, F. (465) 15)

Memory retention; Passive avoidance; Cholinoceptor drug; Histaminergic agent (Eidi, M. (465) 91)

T-82; Scopolamine; Basal forebrain lesion; Passive avoidance task (Isomae, K. (465) 97)

Adenosine; Preconditioning; ³¹P-NMR (nuclear magnetic resonance); Ischemia, low-flow (Bradamante, S. (465) 115)

Morphine; Antinociception; Nucleus reticularis gigantocellularis/nucleus reticularis gigantocellularis alpha; Muscarinic antagonist (Abe, K. (465) 237)

Cannabinoid; (*R*)-Methanandamide; Δ⁹-Tetrahydrocannabinol; SR-141716A; Behavior, schedule controlled (Järbe, T.U.C. (466) 121)

Rotenone; Mortality; HPLC (high-performance liquid chromatography); Dopamine metabolism; Brain; 1-Methyl-1,2,3,4-tetrahydroisoquinoline (Antkiewicz-Michaluk, L. (466) 263)

Ethanol; Nicotine; Nicotinic receptor; Dopamine, mesolimbic; Microdialysis (Ericson, M. (467) 85)

Amtolmetin guacyl; Intestine; Inflammation; Neuropeptide (Tubaro, E. (467) 173)

Antimuscarinic; 5-HT receptor; Gastrointestinal motility; Muscarinic receptor (Axelsson, L.-G. (467) 211)

Permeability transition pore; Binding site; Specific; Antioxidant property; Mitochondrion; Liver (Elimadi, A. (468) 93)

Mg²⁺; MK-801; Hyperalgesia; Mg²⁺-deficiency; Nociceptive pathway; Sensitization (Alloui, A. (469) 65)

Analgesic; Animal model; Nociception; Gene expression; Polymerase chain reaction (PCR); Quantitative PCR (Hofmann, H.A. (470) 17)

Flumazenil; Morphine; Tolerance; Sex; Analgesia (Holtman Jr., J.R. (470) 149)

GHB (γ -hydroxy butyrate); Ethanol; NCS 382; Schedule-controlled behavior; Drug interaction (Lamb, R.J. (470) 157)

Norbormide; Trachea; Urinary bladder; Duodenum; Ca²⁺ channel L-type (Bova, S. (470) 185)

5-HT_{1A} receptor antagonist; *p*-Chloroamphetamine; Flumazenil; Conflict drinking test (Wesołowska, A. (471) 27)

NMDA; Nitric oxide (NO); Operant behavior; Fixed ratio (Smith, J.B. (471) 121)

Adrenoceptor subtype; Mydriasis; Norepinephrine; 5-Methylurapidil; L-765314 (Yu, Y. (471) 135)

α_1 -Adrenoceptor; Vas deferens; Castration; Testosterone (Campos, M. (471) 149)

Donepezil; Acetylcholinesterase inhibitor; Oxygen–glucose deprivation; LDH release; Primary cultured cerebral cortical neuron (Akasofu, S. (472) 57)

Dopamine D1-like receptor; Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Accumens, shell; Dopamine D1-like:D2-like receptor synergism; Jaw movement; SK&F 83959 (Adachi, K. (473) 47)

FK506; Hypoxia-reoxygenation; JNK₁/SAPK₁; Apoptosis; Necrosis; Hepatocyte (Crenesse, D. (473) 177)

Heat shock protein; Herbimycin A; Thermotolerance; Apoptosis (Sachidanandam, S.B. (474) 121)

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Lung; Vas deferens; BIBN4096BS; [Cys(Et)²⁻⁷]hCGRP α ; Adrenomedullin-(22–52), human (Juaneda, C. (474) 165)

Nociceptin; Amphetamine; Conditioned place preference; Sensitization; Stereotypy (Kotlinska, J. (474) 233)

Anxiety; Microdialysis; Norepinephrine; Cortex prefrontal; Reboxetine (Dazzi, L. (476) 55)

CP-101,606; Morris watermaze; NMDA receptor NR2B subunit selective antagonist (Guscott, M.R. (476) 193)

Morphine; Ketamine; Methadone; Pain; Mononeuropathy; Paw pressure; Isobologram (Pelissier, T. (477) 23)

Water intake; Drinking; α_1 -Adrenoceptor; Muscarine cholinceptor (Oryan, S. (477) 123)

HSP27 (heat-shock protein 27); Thyroxine; Ischaemia–reperfusion; Heart (Pantos, C. (478) 53)

Water intake; Drinking; Histamine system; Morphine; Naloxone (Eidi, M. (478) 105)

Metallothionein; Zn²⁺ trafficking; Transition element; Zinquin; Mitochondrion; Cultured cell; Fluorescence microscopy (Colvin, R.A. (479) 171)

Calcitonin receptor-like receptor; CRL receptor; Vascular endothelium; Immunoreactivity (Hagner, S. (481) 147)

Cutaneous blood flow; Passive cutaneous anaphylaxis; 5-Hydroxytryptamine receptor; Histamine H₂ receptor (Hayashi, K.-i. (482) 305)

Hot flush; Mirtazapine; Oestrogen; Tail-temperature (Berendsen, H.H.G. (482) 329)

RAW 264.7

Chalcones; Nitric oxide (NO); Prostaglandin E₂; Zymosan-injected mouse air pouch; Adjuvant-induced arthritis (Rojas, J. (465) 183)

RAW264.7 macrophage

Piperlactam S; Complement 5a; F-actin; Filopodia; Cdc42 (Chiou, W.-F. (458) 217)

R-(–)-1-(Benzofuran-2-yl)-2-propylaminopentane [(–)-BPAP]

Catecholaminergic and serotonergic activity enhancer; Human embryonic kidney 293 cell; Parkinson's disease; Transporter; Tyramine (Shimazu, S. (482) 9)

R-citalopram

5-HT (5-hydroxytryptamine, serotonin); Anxiolytic; Citalopram; Escitalopram (Sánchez, C. (464) 155)

Reactive blue 2

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Suramin (Laubinger, W. (468) 9)

Reactive oxygen intermediate

Baicalin; Baicalein; Ca²⁺; NADPH oxidase; Myeloperoxidase (Shen, Y.-C. (465) 171)

Reactive oxygen species

Indomethacin; 8-OH-dG; Glutamate; Reperfusion injury; Cerebral blood flow (Miyamoto, O. (459) 179)

Antioxidant; Arachidonate; Capillary permeability (Alvarez-Guerra, M. (466) 199)

Honokiol; NADPH oxidase; Myeloperoxidase; Cyclooxygenase; Glutathione peroxidase; Protein kinase C (Liou, K.-T. (475) 19)

Asiatic acid; Ursolic acid; HaCaT human keratinocyte; Matrix metalloproteinase; p53 (Soo Lee, Y. (476) 173)

Reboxetine

Anxiety; Microdialysis; Norepinephrine; Cortex prefrontal; Rat (Dazzi, L. (476) 55)

Receptor

Platelet; Aspirin; Coronary artery disease (Malinin, A.I. (462) 139)

Antisense; Cocaine; Conditioned place preference; Convulsion; Gene expression; Locomotor activity; Microarray; Sensitization (Matsumoto, R.R. (469) 1)

ADP-ribosylation; G protein; Pertussis toxin; Phospholipase C (Wong, C.S.S. (473) 105)

Receptor affinity

Receptor conservation; Endocytosis rate; Lysosomal sorting; Endosomal sorting; Selective agonist endocytosis; Buoyant density separation (Parker, S.L. (474) 31)

Receptor autoradiography

Endothelin ET_A receptor; Endothelin ET_B receptor; Urinary bladder (Yoshida, A. (470) 99)

μ-Opioid; κ-Opioid; δ-Opioid; 3,4-Dimethyl-4-(3-hydroxyphenyl)piperidine; Antagonist (Statnick, M.A. (482) 139)

Receptor binding

Amphetamine; Adrenal chromaffin cell, bovine; Nicotinic receptor; Catecholamine secretion; Ca²⁺ concentration, cytosolic (Liu, P.-S. (460) 9)

N-formylmethionyl peptide; Neutrophil, human; Chemotaxis; Superoxide anion generation; Lysozyme release (Spisani, S. (469) 13)

Metabotropic glutamate receptor; Occupancy; mGlu5 (Anderson, J.J. (473) 35)

Dermorphin; Tetrapeptide; TAPS; Kinetic; Brain (Vonhof, S. (473) 127)

Receptor conservation

Receptor affinity; Endocytosis rate; Lysosomal sorting; Endosomal sorting; Selective agonist endocytosis; Buoyant density separation (Parker, S.L. (474) 31)

Receptor dimerization

Desensitization; Endocytosis; GABA_B receptor; Green fluorescent protein (GFP) (González-Maeso, J. (481) 15)

Receptor reserve

Cetirizine; Histamine H₁ receptor antagonism; Dissociation kinetic; Ileum, guinea pig; Trachea, guinea pig (Christophe, B. (470) 87)

Receptor supersensitivity

Apomorphine; cAMP-mediated signaling pathway; Uptake; Up-regulation; PET (positron emission tomography) (Schwartz, R.A. (459) 195)

Receptor switching

Prostacyclin receptor; Adenylyl cyclase; Phospholipase C; G protein coupling (Chow, K.B.S. (474) 7)

Regeneration

Sciatic nerve crush; Development; Homeobox; Transcription factor; Dorsal root ganglion (Vogelaar, C.F. (480) 233)

Reinforcement

Cocaine self-administration; Hyperactivity; Behavioral sensitization; Knockout, mouse; DAT (dopamine transporter); NET (norepinephrine transporter); SERT (serotonin transporter) (Rocha, B.A. (479) 107)

Relaxation

Porcine oviduct; 5-HT (5-hydroxytryptamine, serotonin); 5-HT₇ receptor; cAMP; [³H]5-CT ([³H]5-carboxamidotryptamine) binding (Inoue, M. (461) 207)

β-Adrenoceptor; Diabetes; Urinary bladder, rat; Streptozotocin (Kubota, Y. (467) 191)

cAMP; Phosphodiesterase type 4; Smooth muscle, Tracheal (Moriuchi, H. (470) 57)

Release

Cocaine; Dopamine; DAT (dopamine transporter); Diffusion; Voltammetry (Greco, P.G. (479) 117)

REM sleep

Sleep; Dorsal raphe nucleus; Laterodorsal tegmental nucleus; Medial pontine reticular formation; 5-HT_{1A} receptor (Monti, J.M. (478) 121)

Renal artery

Cerebral artery; Coronary artery; Tail artery; Nitric oxide (NO); Prostanoid (García-Villalón, A.L. (459) 247)

Diabetes; Vasopressin; Gender; Coronary artery; K⁺ channel (Sanz, E. (471) 35)

Renal cancer

Nucleoside transporter; Nucleoside analog; Kidney; Drug disposition; Localization (Mangravite, L.M. (479) 269)

Renal cell carcinoma

6-Nitro-7-hydroxycoumarin; p38 MAP kinase; Apoptosis; Cell cycle (Finn, G. (481) 159)

Renal cell, human

Angiotensin II; Gene expression; Microarray; Transcription factor; Proximal tubule (Braam, B. (464) 87)

Renal cortical slice, dog

β-adrenoceptor agonist; Calcium ion; Ca²⁺ ionophore; Calmodulin; Renin release; Superfusion (Yatsu, T. (458) 191)

Renal failure

Impotence; Phosphodiesterase inhibitor; (Rabbit) (Kilicarslan, H. (462) 155)

Renal failure, acute

Cisplatin; Dopamine D1 receptor; Zelandopam (Yatsu, T. (461) 191)

Renal/kidney

Reperfusion-injury; Dithiocarbamates; Pyrrolidine dithiocarbamate; Nuclear factor-κB; Inducible nitric oxide synthase; Nitric oxide (Chatterjee, P.K. (482) 271)

Renal papillary necrosis

Nefiracetam; Metabolite; Prostaglandin; Biomarker (Tsuchiya, Y. (475) 119)

Renal sympathetic nerve activity

Carnosine; Norepinephrine; Acute renal failure; Ischemia/reperfusion (Fujii, T. (474) 261)

Renal uptake

Basolateral membrane; Organic anion transporter 1; Organic anion transporter 3; Phenolsulfonphthalein; Urinary excretion (Itagaki, S. (475) 85)

Renal vasculature

Cyclosporine; Testosterone; Endothelium dysfunction; Gonadectomy (El-Mas, M.M. (468) 217)

Renin–angiotensin–aldosterone system

Angiotensin II; Prostanoid; Cyclooxygenase; Kidney; Heart (Cheng, Z.J. (461) 159)

Renin–angiotensin system

Angiotensin II; Angiotensin AT₁ receptor antagonist; (Rabbit) (Nap, A. (469) 117)

Renin release

β -adrenoceptor agonist; Calcium ion; Ca²⁺ ionophore; Calmodulin; Renal cortical slice, dog; Superfusion (Yatsu, T. (458) 191)

Renohypertension

CGRP (Calcitonin gene-related peptide); Perindopril; Losartan (Qin, X.-P. (464) 63)

Reperfusion

SEA0400; Na⁺/Ca²⁺ exchanger; Myocardial injury; Ischemia; Inhibitor (Takahashi, K. (458) 155)

Cl[−]/HCO₃[−] exchange; Arrhythmia; Ischemia; DIDS; SITS (Zhu, B.-M. (460) 43)

α -MSH (melanocyte-stimulating hormone); Ischemia; Corticosterone; Heart, rat (Vecsernyes, M. (470) 177)

Middle cerebral artery occlusion; Ischemia; Body temperature; Neurological deficit; Diffusion–perfusion magnetic resonance imaging (Petty, M.A. (474) 53)

Ischemia; Acute renal failure; Na⁺/Ca²⁺ exchanger; Endothelin-1 (Ogata, M. (478) 187)

Ischemia; Acute renal failure; Sympathetic nerve; Norepinephrine (Fujii, T. (481) 241)

Reperfusion injury

Indomethacin; 8-OH-dG; Glutamate; Cerebral blood flow; Reactive oxygen species (Miyamoto, O. (459) 179)

Myocardium; Oxygen free radical; Melanocortin MC₃ receptor; γ -MSH (γ -melanocyte-stimulating hormone); FMRFamide-like (Phe-Met-Arg-Phe-NH₂-like) peptide (Mioni, C. (477) 227)

Myocardial infarction; Selectin; Cell adhesion; Echocardiography (Onai, Y. (481) 217)

Reperfusion-injury

Renal/kidney; Dithiocarbamates; Pyrrolidine dithiocarbamate; Nuclear factor- κ B; Inducible nitric oxide synthase; Nitric oxide (Chatterjee, P.K. (482) 271)

Resiniferatoxin

Inflammation; Thermal hyperalgesia; Paw edema; Mast cell (Zhang, Y.-H. (481) 301)

Resistance artery

Loop diuretic; Furosemide; Vasoactivity; (Human) (Pickkers, P. (466) 281)

Restenosis

Vascular contraction; Vascular relaxation; Balloon injury; Antiproliferative (Kennedy, S. (481) 101)

Retigabine

GABA_A receptor complex; TBOB; Synergy; Isobole method; Molecular model (van Rijn, C.M. (464) 95)

Retina

Axotomy; Injury; mRNA expression; POMC (proopiomelanocortin); Melanocortin receptor (Lindqvist, N. (482) 85)

Retinal degeneration

Selegiline; Desmethylselegiline; NMDA (*N*-methyl-D-aspartate); Cell death; BDNF (brain-derived neurotrophic factor) (Takahata, K. (458) 81)

Reuptake inhibitor

DOV 21,947; “Broad-spectrum” antidepressant; Norepinephrine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin) (Skolnick, P. (461) 99)

Reward

Anabolic–androgenic steroid; Nandrolone; Hypothermia; Morphine tolerance; Dependence; (Mouse) (Célérier, E. (465) 69)

Anandamide; 2-Arachidonoylglycerol; Cannabinoid; Dopamine; Movement disorder (van der Stelt, M. (480) 133)

(Rhesus monkey)

Cocaine discrimination; (Mouse); (Rat); Mazindane; Mazindol; Motor activity, mouse; Neurotransmitter binding (Houlihan, W.J. (458) 263)

Behaviour; Chlorpromazine; Haloperidol; Risperidone; Clozapine (Kumar, R. (462) 133)

Rhinitis

Bradykinin; Bradykinin B₂ receptor; Bradykinin receptor antagonist; Asthma; FK3657 (Hirayama, Y. (467) 197)

Rhizoxin

Microbial angiogenesis inhibitor; Angiogenic endothelial function; Plasmidogen activator; Tube formation (Aoki, K. (459) 131)

RhoA

Atorvastatin; α -Thrombin, human; Interleukin-6; NF- κ B (nuclear factor- κ B) (Haloui, M. (474) 175)

Rho-kinase

Y-27632; Vasodilator; Monophasic action potential (Takahara, A. (460) 51)

Corpus cavernosum; Diabetes; Erectile dysfunction; Fasudil; Y-27632 (Büyükaşar, K. (472) 235)

Riluzole

LNCaP; PC-3; Intermediate-conductance K⁺ channel, intermediate-conducting, Ca²⁺-activated; 1-EBIO; Benign prostatic hyperplasia (Parihar, A.S. (471) 157)

Rimcazole

Dopamine; GBR 12909 (Katz, J.L. (468) 109)

Risperidone

Behaviour; Chlorpromazine; Haloperidol; Clozapine; (Rhesus monkey) (Kumar, R. (462) 133)

Clozapine; Haloperidol; Stress; Blood pressure; Heart rate; Behaviour (van den Buuse, M. (464) 55)

(Selected rat line); Alcohol preference; Food consumption; Locomotor activity (Ingman, K. (468) 121)

Aripiprazole; Haloperidol; Catalepsy; Dopamine; Partial agonist; Atypical antipsychotic (Nakai, S. (472) 89)

R(-)-methamphetamine

Parkinson's disease; Selegiline; Rasagiline; *S*(+)-methamphetamine; *R*(+)-1-aminoindan (Glezer, S. (472) 173)

(R)-Methanandamide

Cannabinoid; Δ^9 -Tetrahydrocannabinol; SR-141716A; Behavior, schedule controlled; (Rat) (Järbe, T.U.C. (466) 121)

RNA editing

Cocaine; 5-HT (5-hydroxytryptamine, serotonin); 5-HT_{2C} receptor knock-out mouse; Drug self-administration; Feeding behaviour (Higgins, G.A. (480) 151)

RNA, noncoding

RNA, regulatory; PKR (RNA-dependent protein kinase); NF- κ B (nuclear factor- κ B); B16-F10 melanoma; TNF- α (tumor necrosis factor- α) (Watanabe, M.A.E. (465) 205)

RNA, regulatory

RNA, noncoding; PKR (RNA-dependent protein kinase); NF- κ B (nuclear factor- κ B); B16-F10 melanoma; TNF- α (tumor necrosis factor- α) (Watanabe, M.A.E. (465) 205)

Ro 20–1724

Phosphodiesterase inhibition, type IV; Endotoxemia; Cardiac performance (Thomas, N.J. (465) 133)

Ro5-4864

Benzodiazepine receptor, peripheral-type; PK11195; Depression; Steroid; (Mouse); Forced swimming test (Gavioli, E.C. (471) 21)

(Rodent)

Solvent; Conditioned-place preference; Addiction (Gerasimov, M.R. (477) 45)

Rofecoxib

Inflammatory pain; Cyclooxygenase-2; Morphine; Synergism (Déciga-Campos, M. (460) 99)

Rotarod

Cross-tolerance; Ethanol; Flunitrazepam; GABA_A receptor; Gaboxadol; THIP; Hypnotic; Zolpidem; Indiplon (Voss, J. (482) 215)

Rotenone

Mortality; HPLC (high-performance liquid chromatography); Dopamine metabolism; (Rat); Brain; 1-Methyl-1,2,3,4-tetrahydroisoquinoline (Antkiewicz-Michaluk, L. (466) 263)

Flavonoid; Oxidative stress; SH-SY5Y cell; Parkinson's disease (Molina-Jimenez, M.F. (472) 81)

Roxithromycin

Apoptosis; Asthma; Fas ligand; Bcl-2 (Ogawa, N. (474) 273)

RT-PCR, (reverse transcription-polymerase chain reaction)

Argatroban; PDGF, (platelet-derived growth factor); Smooth muscle cell, vascular; In situ hybridization (Yoshinaga, M. (461) 9)

CYP3A (Cytochrome P450 3A); Omeprazole; Pantoprazole; St. John's wort; Induction of transcription (Krusekopf, S. (466) 7)

RU-486

Adrenalectomy; Atopic dermatitis; Glucocorticoid; Scratching behavior (Hirayama, K. (481) 59)

Sabiporide

Slow dissociation kinetics; Cardioprotective effect (Touret, N. (459) 151)

1*S*-1'-Acetoxychavicol acetate

Alpinia galanga; Necrotizing agent-induced gastric lesion; Prostaglandin; Sulfhydryl compound (Matsuda, H. (471) 59)

Salivary gland

Cysteamine; Duodenal ulcer; Gastrectomy; Sialoadenectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Salt

Hypertension; Endothelin; Kidney, rat; Genetic (Rothermund, L. (468) 209)

Aorta; Isoproterenol; Nitric oxide (NO); cAMP; cGMP (Sofola, O. (474) 241)

Sanguinarine

Angiotensin AT₁ receptor; CHO cell; CHO membrane; Noncompetitive antagonist; [³H]Candesartan (Caballero-George, C. (458) 257)

Saphenous vein, dog

Adenosine A_{2B} receptor; Species difference; Adenosine receptor antagonist; Colon, rat; Aorta, guinea pig (Fozard, J.R. (475) 79)

Saponin

Dopamine; Parkinson's disease; Ginseng; Oxidative stress; Apoptosis (Chen, X.-C. (473) 1)

Sarafotoxin 6c

MAP Mitogen-activated protein (kinase); ERK (Extracellular signal-regulated kinase)1/2; Endothelin; ET_B receptor (Uddman, E. (482) 39)

Sarcoplasmic reticulum

NS-398; Cyclooxygenase-2; Aorta, rat; Endothelium derived; Nitric oxide; SERCA (Ca²⁺ pump) (Adeagbo, A.S.O. (458) 145)

Stroke-prone spontaneously hypertensive rat (SHRSP); Oesophageal striated muscle; Caffeine; Contracture; Ca²⁺ influx (Sekiguchi, F. (465) 153)

LASSBio 294 (L-294); Skeletal muscle; Contractility; Ca²⁺ (Zapata-Sudo, G. (470) 79)

Sarin

Epileptiform; Adenosine; Hippocampal slice; Organophosphate; (Guinea pig) (Harrison, P.K. (471) 97)

Satiety

Cholecystokinin; CCK₁ receptor antagonist; A70104; Devazepide; Food intake (Ebenezer, I.S. (461) 113)

Satiety signal

Neuropeptide Y; Obesity; Transgenic animal; Food intake (Herzog, H. (480) 21)

SB-334867

Orexin-A; Mechanical allodynia; Thermal hyperalgesia; Carrageenan test; Spinal cord (Yamamoto, T. (481) 175)

Schedule-controlled behavior

GHB (γ -hydroxy butyrate); Ethanol; NCS 382; (Rat); Drug interaction (Lamb, R.J. (470) 157)

Schizophrenia

Zotepine; Clozapine; Glutamate; Dizocilpine (MK-801); (Rat) (Okamura, N. (461) 93)

Sciatic nerve crush

Regeneration; Development; Homeobox; Transcription factor; Dorsal root ganglion (Vogelaar, C.F. (480) 233)

Scopolamine

Ethanol; Social memory; Olfactory memory; Naloxone; (Rat) (Prediger, R.D.S. (462) 115)

T-82; Basal forebrain lesion; Passive avoidance task; (Rat) (Isomae, K. (465) 97)

Muscarinic receptor; Catalepsy; Extrapyrimal side effect; Haloperidol; Knockout mouse (Karasawa, H. (468) 15)

Chlorisondamine; Nicotine; Sulpiride; Memory (Hefco, V. (474) 227)

Scratching

Atopic dermatitis; NC/Nga, mouse; Itch; MicroAct (Takano, N. (471) 223)

Scratching behavior

Histamine H_1 receptor; Histamine H_1 receptor antagonist; Anti-allergic drug (Sugimoto, Y. (470) 113)

Adrenectomy; Atopic dermatitis; Glucocorticoid; RU-486 (Hirayama, K. (481) 59)

SEA0400

Na^+/Ca^{2+} exchanger; Myocardial injury; Ischemia; Reperfusion; Inhibitor (Takahashi, K. (458) 155)

Second messenger assay

Cyclic nucleotide-gated channel; cAMP; Ca^{2+} imaging (Reinscheid, R.K. (478) 27)

Secretin

Pancreas; Cholecystokinin; Gastrin-releasing peptide; Leptin; Ghrelin; Pancreatic polypeptide (Konturek, S.J. (481) 1)

Seizure

Clobenpropit; Endogenous histamine; Imipip; α -Fluoromethylhistidine (Zhang, L. (482) 169)

Seizure, nicotine-induced

Kindling; Nicotinic receptor; NMDA receptor; Antiepileptic drug; Epilepsy (Löscher, W. (466) 99)

(Selected rat line)

Alcohol preference; Risperidone; Food consumption; Locomotor activity (Ingman, K. (468) 121)

Selectin

Reperfusion injury; Myocardial infarction; Cell adhesion; Echocardiography (Onai, Y. (481) 217)

Selective agonist endocytosis

Receptor conservation; Receptor affinity; Endocytosis rate; Lysosomal sorting; Endosomal sorting; Buoyant density separation (Parker, S.L. (474) 31)

Selective reuptake inhibitor

CP-93,129; 5-HT (5-hydroxytryptamine, serotonin); Fluvoxamine; Caudate putamen; Autoreceptor; Heteroreceptor (De Groote, L. (476) 71)

Selegiline

Desmethylselegiline; NMDA (*N*-methyl-D-aspartate); Retinal degeneration; Cell death; BDNF (brain-derived neurotrophic factor) (Takahata, K. (458) 81)

Oxidative stress; Apoptosis; Cardiac function; Heart failure (Qin, F. (461) 149)

Parkinson's disease; Rasagiline; *S*(+)-methamphetamine; *R*(-)-methamphetamine; *R*(+)-1-aminoindan (Glezer, S. (472) 173)

Selenite

Apoptosis; JNK; c-Jun; p53; p21^{*WAF1/CIP1*} (Nango, R. (471) 1)

Selenium

Antitumor activity; Catalase; Hydroselenite; Glutathione peroxidase; Morphology; Nitric oxide (NO) (Arsenyan, P. (465) 229)

Self-administration

Cannabinoid receptor agonist; CP 55,940; Morphine; (Lewis rat) (Norwood, C.S. (465) 105)

Barbiturate; Benzodiazepine; 1,4-Butanediol; Drug discrimination; γ -Butyrolactone (McMahon, L.R. (466) 113)

Alcohol; NR2B subunit; Protein; Up-regulation (Henniger, M.S.H. (470) 33)

Nicotine withdrawal; Acoustic startle; Prepulse inhibition; Somatic sign; Mouse (Semenova, S. (472) 99)

MDMA (3,4-Methylenedioxymethamphetamine); Temperature (Cornish, J.L. (482) 339)

Self-administration, monkey

Anticonvulsant; Benzodiazepine; AWD 131-138; Midazolam; Diazepam; Drug discrimination (Yasar, S. (465) 257)

Semicarbazide-sensitive amine oxidase

Monoamine oxidase; Glutathione; Hydrogen peroxide; Isoprenaline; Tyramine; Adipose cell (Visentin, V. (466) 235)

Semi-synthetic

Crotonin; V79 cell; Cytotoxicity; Hepatocyte toxicity; Gastric ulcer (Albino de Almeida, A.B. (472) 205)

Sensitivity

Apoptosis; Arsenic trioxide; DODC (diethyloxadicarbocyanine); Cell cycle; Telomere (Zhang, Y. (474) 141)

Sensitization

Nicotine; Addiction; Neurotensin; Psychostimulant (Fredrickson, P. (458) 111)

Antisense; Cocaine; Conditioned place preference; Convulsion; Gene expression; Locomotor activity; Microarray; σ Receptor (Matsumoto, R.R. (469) 1)

Mg^{2+} ; MK-801; Hyperalgesia; Mg^{2+} -deficiency; (Rat); Nociceptive pathway (Alloui, A. (469) 65)

Neuroactive steroid; Cocaine kindling; (mouse) (Kaminski, R.M. (474) 217)

Nociceptin; Amphetamine; Conditioned place preference; Stereotypy; (Rat) (Kotlinska, J. (474) 233)

Adrenal steroid; Dopamine; Microdialysis; Nicotine; Nucleus accumbens (Molander, A. (481) 51)

Apomorphine; Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Locomotor activity; (Mouse) (Zarrindast, M.-R. (482) 205)

Sensitization, central

Spinal cord; NMDA (*N*-methyl-D-aspartate); Pain (Hama, A. (459) 49)

Sensory nerve

Pancreatitis; Ischemic preconditioning; Blood flow, pancreatic; Vagal nerve, interleukin-1 β (Dembiński, A. (473) 207)

Sephadex bead

Dexamethasone; Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); TNF- α (tumor necrosis factor- α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Sepsis

Nitric oxide synthase; Cardio-protective (Price, S. (472) 111)

Septic shock; Endothelin; Endothelin receptor; Cardiac output; Organ failure; Edema (Albertini, M. (474) 129)

Steroid; Vasopressor; Hemodynamic; Nitric oxide (NO) (Mansart, A. (475) 61)

Septic shock

Sepsis; Endothelin; Endothelin receptor; Cardiac output; Organ failure; Edema (Albertini, M. (474) 129)

Propofol; Organ dysfunction; Nitric oxide (NO); Free radical (Tsao, C.-M. (477) 183)

Sequential three-key drug discrimination

Drug discrimination retention; Fixed-interval schedule; Pentobarbital; D-Amphetamine; Morphine; Caffeine; (Pigeon) (Li, M. (476) 79)

μ -Ser196Ala

Vas deferens, mouse; Opioid receptor antagonist; μ -Opioid receptor knockout (Portoghese, P.S. (478) 207)

SERCA (Ca²⁺ pump)

NS-398; Cyclooxygenase-2; Aorta, rat; Endothelium derived; Nitric oxide; Sarcoplasmic reticulum (Adeagbo, A.S.O. (458) 145)

Serine/threonine protein phosphatase

Antinociception; Morphine; Okadaic acid; Cantharidin; Calyculin-A; L-Norokadaone; [³H]Naloxone (Moncada, A. (465) 53)

Serofendic acid

Fetal calf serum; L-Glutamate; Neurotoxicity; Nitric oxide (NO); Cerebral cortex (Taguchi, R. (477) 195)

Serotonin

5-HT_{1A} receptor; 8-OH-DPAT; Buspirone; Fluoxetine; Short-term memory (Pache, D.M. (477) 205)

Analgesia; Neuropathic pain; 5-HT_{1A} receptor (Wu, W.-P. (478) 131)

Serotonin and noradrenaline re-uptake inhibitor (SNRI)

Bombesin BB3 receptor (BRS-3); Sibutramine; Hyperphagia; Energy efficiency; Animal model (Matsumoto, K. (473) 41)

Serotonin transporter (SERT)

Dopamine transporter (DAT); Cocaine; Attention deficit hyperactivity disorder (ADHD); Anti-depressant; Addiction (Madras, B.K. (479) 41)

SERT (serotonin transporter)

Platelet; 5-HT (5-hydroxytryptamine, serotonin); Hypoxic pulmonary hypertension; Aggregation (Awabdy, D. (459) 1)

Cocaine; Monoamine; Psychostimulant; Amphetamine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); DAT (dopamine transporter) (Rothman, R.B. (479) 23)

Antidepressant; CoMFA (Comparative Molecular Field Analysis); *Drosophila*; 5-HT (5-hydroxytryptamine serotonin) (Roman, D.L. (479) 53)

DAT (dopamine transporter); Transmembrane domain; Mutant; Cocaine selective; Antagonism (Uhl, G.R. (479) 71)

Reinforcement; Cocaine self-administration; Hyperactivity; Behavioral sensitization; Knockout, mouse; DAT (dopamine transporter); NET (norepinephrine transporter) (Rocha, B.A. (479) 107)

Serum mediator

Cytochrome *P*450; Downregulation; Inflammation; Cytokine (Bleau, A.-M. (473) 197)

Sesquiterpene lactone

Apoptosis; Cytotoxic activity; Caspase; Poly(ADP-ribose) polymerase-1 cleavage; Cytochrome *c* release (Rivero, A. (482) 77)

Sex

Flumazenil; Morphine; Tolerance; Analgesia; (Rat) (Holtman Jr., J.R. (470) 149)

Estrogen; Genomic; Hypothalamus; Arousal (Mong, J. (480) 229)

Shock

Oxygen radical; Superoxide dismutase; EUK-8; EUK-134; Superoxide anion; Multiple organ failure (McDonald, M.C. (466) 181)

PPAR; 15-Deoxy ^{Δ 12,14} prostaglandin J₂ (Collin, M. (476) 257)

Shock-prod burying

Animal model; Defensive behavior; Fear; Anxiety; Coping, active; Coping, passive; Avoidance; Marble-burying (De Boer, S.F. (463) 145)

Short-acting hypnotic

Insomnia; Sleep latency; Wakefulness; Non-rapid eye movement (non-REM) sleep; Rapid eye movement (REM) sleep (Shinomiya, K. (460) 139)

Short-term memory

Serotonin; 5-HT_{1A} receptor; 8-OH-DPAT; Buspirone; Fluoxetine (Pache, D.M. (477) 205)

SH-SY5Y

GRP (glucose-regulated stress protein); K⁺-channel HERG; Neuroblastoma cell, human; Ethanol (Mühlbauer, E. (459) 121)

SH-SY5Y cell

Flavonoid; Rotenone; Oxidative stress; Parkinson's disease (Molina-Jimenez, M.F. (472) 81)

SH-SY5Y neuroblastoma

Honokiol; Magnolol; Ca²⁺; Cortical neuron, rat (Zhai, H. (474) 199)

Sialoadenectomy

Salivary gland; Cysteamine; Duodenal ulcer; Gastrectomy; Cytoprotection; Gastric pentadecapeptide BPC 157 (PLD-116); Ranitidine; Atropine; Omeprazole (Bedekovic, V. (477) 73)

Sibutramine

Bombesin BB3 receptor (BRS-3); Serotonin and noradrenaline re-uptake inhibitor (SNRI); Hyperphagia; Energy efficiency; Animal model (Matsumoto, K. (473) 41)

Signal transduction

Cerebral circulation; Excitatory amino acid; Neurotrauma (Armstead, W.M. (474) 249)

Signaling mechanism

Neurotransmitter transport; Dopamine transporter; Transporter regulation; Trafficking; Phosphorylation; Cocaine; Amphetamine (Mortensen, O.V. (479) 159)

Sildenafil

Corpus cavernosum; BAY 41-2272; Soluble guanylyl cyclase; Nitric oxide (NO) (Barakat, J.S. (477) 163)

Site-directed mutagenesis

ATP; P2X receptor; Cysteine; *Xenopus* oocyte (Nakazawa, K. (474) 205)

SITS

$\text{Cl}^-/\text{HCO}_3^-$ exchange; Arrhythmia; Ischemia; Reperfusion; DIDS (Zhu, B.-M. (460) 43)

DIDS; Oxygen-glucose deprivation; NMDA (*N*-methyl-D-aspartate); Cortical neuron (Tauskela, J.S. (464) 17)

Skeletal muscle

LASSBio 294 (L-294); Contractility; Ca^{2+} ; Sarcoplasmic reticulum (Zapata-Sudo, G. (470) 79)

SK&F 83959

Dopamine D1-like receptor; Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Striatum, ventrolateral; Accumens, shell; Dopamine D1-like:D2-like receptor synergism; Jaw movement; (Rat) (Adachi, K. (473) 47)

Skin, human

Local anaesthetic; Procaine; Fluid-phase endocytosis; Exocytosis; Fibroblast; Neutral red uptake assay (Michalik, M. (475) 1)

Skin, mouse

Cilomilast; Phosphodiesterase 4 inhibitor; Dendritic cell; Matrix metalloproteinase 9; Toluene-2,4-diisocyanate; Zymography (Bäumer, W. (481) 271)

SL65.0472

5-HT receptor; Sumatriptan; Vasoconstriction; Hindlimb ischemia; Ketanserin (Barbe, F. (474) 117)

Sleep

REM sleep; Dorsal raphe nucleus; Laterodorsal tegmental nucleus; Medial pontine reticular formation; 5-HT_{1A} receptor (Monti, J.M. (478) 121)

Sleep latency

Insomnia; Wakefulness; Non-rapid eye movement (non-REM) sleep; Rapid eye movement (REM) sleep; Short-acting hypnotic (Shinomiya, K. (460) 139)

Slippage

DAT (Dopamine transporter); Multisubstrate mechanisms; Leakage; Terreactant mechanisms; Na^+ -dependent transporter; Cl^- -dependent transport (Schenk, J.O. (479) 223)

Slow dissociation kinetics

Sabiporide; Cardioprotective effect (Touret, N. (459) 151)

S-3013/LY333013

Group IIA phospholipase A₂; Colitis; Dextran sulfate sodium (Tomita, Y. (472) 147)

Small intestine

Enteric nervous system; Submucous plexus; Synaptic transmission; Galanin (Liu, S. (471) 49)

S(+)-methamphetamine

Parkinson's disease; Selegiline; Rasagiline; *R*(-)-methamphetamine; *R*(+)-1-aminoindan (Glezer, S. (472) 173)

Smooth muscle

Oesophageal sphincter, lower; Mexiletine; Nitric oxide (NO); Nitric oxide (NO) synthase; 3',5'-Cyclic guanosine monophosphate (Kohjitani, A. (465) 145)

β -Adrenoceptor; cAMP; Protein kinase A; Urinary bladder; Ca^{2+} channel L-type (Kobayashi, H. (470) 9)

Nantenine; Aporphine; Ca^{2+} entry blocker; Fura-2; Vas deferens, rat (Ribeiro, R.d.A. (470) 37)

cAMP; (Bovine); Lidocaine; Anaesthetic, local (Yunoki, M. (470) 65)

CYR61; Iloprost; Prostacyclin; Atherosclerosis (Debey, S. (474) 161)

Protein kinase C; Diabetes mellitus; Endothelium; NANC (non-adrenergic, non-cholinergic) nerve; Nitric oxide (NO); Aorta; Corpus cavernosum (Nangle, M.R. (475) 99)

Norepinephrine; Tyrosine kinase; Myosin light chain phosphorylation (Adegunloye, B.J. (476) 201)

Cl^- channel; Systemic circulation; Blood flow regulation; Hypoxia (Jiang, J. (481) 133)

Phytoestrogen; Genistein; Vasodilatation (Lee, M.Y.K. (481) 227)

K^+ channel, ATP-sensitive; MCC-134; Sulphonylurea receptor; Urethra (Yunoki, T. (482) 287)

Smooth muscle cell

Asthma; Thromboxane A₂; Human; Proliferation; Airway (Capra, V. (474) 149)

Smooth muscle cell, aortic

Ursodeoxycholic acid; Smooth muscle cell, coronary artery; Nitric oxide (NO) synthase; Lipopolysaccharide; Interferon- γ (Ma, J. (464) 79)

Smooth muscle cell, coronary artery

Ursodeoxycholic acid; Smooth muscle cell, aortic; Nitric oxide (NO) synthase; Lipopolysaccharide; Interferon- γ (Ma, J. (464) 79)

Smooth muscle cell, vascular

Argatroban; PDGF, (platelet-derived growth factor); RT-PCR, (reverse transcription-polymerase chain reaction); In situ hybridization (Yoshinaga, M. (461) 9)

HMG-CoA reductase; Minichromosome maintenance protein; E2F (Bruemmer, D. (462) 15)

PPAR γ (Peroxisome proliferator-activated receptor γ); Cell cycle; Cyclin D1 (Bruemmer, D. (466) 225)

α_1 -Acid glycoprotein; Aorta, mouse; Isometric tension; Ca^{2+} entry (Tokutomi, Y. (477) 137)

Smooth muscle relaxation

β_1 -Adrenoceptor; β_2 -Adrenoceptor; β_3 -Adrenoceptor; Messenger RNA (mRNA); Esophageal muscularis mucosae, guinea-pig (Horinouchi, T. (473) 79)

β_3 -Adrenoceptor; β -Adrenoceptor; ($\pm$)-Bupranolol; ($\pm$)-CGP12177A; Abdominal aorta, rat (Matsushita, M. (482) 235)

Smooth muscle, Tracheal

cAMP; Phosphodiesterase type 4; Relaxation (Moriuchi, H. (470) 57)

Smooth muscle, vascular

cADP-ribose; STOC (spontaneous transient outward current) (Cheung, D.W. (458) 57)

Ca^{2+} channel; Ca^{2+} entry, capacitative; Inositol 1,4,5-trisphosphate; Monensin; Vasoconstriction (Wakabayashi, I. (464) 27)

Hydrogen peroxide; Hyperpolarization; ATP-sensitive K^+ channel; Prostaglandin (Hattori, T. (464) 101)

SNI-2011

Amylase secretion; Nitric oxide (NO) synthase; NOS knockout, mouse, neuronal; Guanylyl cyclase, soluble; Myosin light chain kinase (Yuan, Z. (464) 197)

S-nitrosoglutathione

Platelet inhibition, in vivo; MAHMA NONOate; Nitric oxide (NO) donors; Vasodepression systemic (Homer, K.L. (482) 265)

S-Nitroso-L-cysteine

Nitric oxide (NO); Amino acid transporter; System L; PC12 cell (Nemoto, T. (458) 17)

S-Nitrosylation

GEA3162; Cation entry; Ca^{2+} , intracellular, free; Cyclopiazonic acid; Neutrophil (Wang, J.-P. (458) 243)

Social interaction

Anxiety; Neuropeptide; GABA receptor; 5-HT (5-hydroxytryptamine, serotonin); Brain region (File, S.E. (463) 35)

Social memory

Ethanol; Olfactory memory; Naloxone; Scopolamine; (Rat) (Prediger, R.D.S. (462) 115)

SOCS3

Melatonin; Photoperiod; *Phodopus*; Leptin; CART (Mercer, J.G. (480) 43)

Sodium nitroprusside

GABA (γ -Aminobutyric acid); Nitric oxide (NO); Hippocampus; Microdialysis (Hada, J. (467) 119)

Soluble guanylyl cyclase

BAY 41-8543; BAY 58-2667; Kinetics; Heme; Nitric oxide (NO) (Schmidt, P. (468) 167)

Corpus cavernosum; BAY 41-2272; Sildenafil; Nitric oxide (NO) (Barakat, J.S. (477) 163)

Solvent

Conditioned-place preference; Addiction; (Rodent) (Gerasimov, M.R. (477) 45)

Somatic sign

Nicotine withdrawal; Self-administration; Acoustic startle; Prepulse inhibition; Mouse (Semenova, S. (472) 99)

Somatostatin

Capsaicin; Neuropeptide release; Substance P; CGRP (calcitonin gene-related peptide); Tetrodotoxin (Németh, J. (458) 313)

Somatostatin sst_2 receptor 2; Non-peptide antagonist; Luciferase; SRE (serum response element); cAMP (Nunn, C. (465) 211)

Exendin-4; Insulin; Glucagon (Silvestre, R.A. (469) 195)

Vasodilatation; Plasma extravasation; Knee joint, rat (Lam, F.F.Y. (474) 295)

GABA_B receptors; GABA (γ -aminobutyric acid); Glutamate; Hippocampus; Brain, rat (Nyitrai, G. (478) 111)

Somatostatin sst_2 receptor 2

Somatostatin; Non-peptide antagonist; Luciferase; SRE (serum response element); cAMP (Nunn, C. (465) 211)

SpAMDA

5-HT receptor; 5-HT_{2A} receptor antagonist (Peddi, S. (482) 335)

Spared nerve injury

Allodynia; Antiarrhythmic; Anticonvulsant; Gazelius nerve injury; Hyperalgesia (Erichsen, H.K. (458) 275)

Anticonvulsant; Chronic constriction injury; Formalin test; Neuropathic pain; Tail flick (Blackburn-Munro, G. (460) 109)

Sparfloxacin

Mexiletine; Long QT syndrome; Monophasic action potential; Effective refractory period (Takahara, A. (476) 115)

Spatial cognition

L-PDMP; Ganglioside biosynthesis; 8-Arm radial maze; Apoptosis (Yamagishi, K. (462) 53)

Species difference

Adenosine A_{2B} receptor; Adenosine receptor antagonist; Colon, rat; Aorta, guinea pig; Saphenous vein, dog (Fozard, J.R. (475) 79)

Specific

Permeability transition pore; Binding site; Antioxidant property; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Spermatogenic cell

Antifertility compound; (*Tripterygium wilfordii* Hook. f.); Whole-cell recording; Ca^{2+} -channel; Acrosome reaction; (Mouse) (Bai, J.-P. (464) 9)

Sphingosine-1-phosphate

S1P receptor; Cerebral vessel; Vasoconstriction; Suramin (Salomone, S. (469) 125)

Spider toxin

Dorsal ganglion neuron; Na^+ current; Patch-clamp, whole-cell (Xiao, Y. (477) 1)

Spinal cord

Sensitization, central; NMDA (*N*-methyl-D-aspartate); Pain (Hama, A. (459) 49)

Inflammatory hyperalgesia; NMDA receptor; Tyrosine kinase inhibitor; Antinociception (Sato, E. (468) 191)

Nicotinic acetylcholine receptor; Epibatidine; Radioligand; Analgesia (Nishiyama, T. (470) 27)

Cannabinoid CB₁ receptor; Carrageenan inflammation; von Frey monofilament; Dorsal horn neurone; Cannabinoid CB₁ receptor agonist, selective (Kelly, S. (474) 209)

Orexin-A; Mechanical allodynia; Thermal hyperalgesia; SB-334867; Carrageenan test (Yamamoto, T. (481) 175)

Pain; Analgesia; Opioid; Nonsteroidal anti-inflammatory drug; Wind-up (Gaitán, G. (481) 181)

Agonist; Antinociception; Galanin receptor; Hyperalgesia; Neuropathy; Pain (Wu, W.-P. (482) 133)

Spinal reflex

Cyclobenzaprime; Amitriptyline; Cyproheptadine; Flexor reflex (Honda, M. (458) 91)

5-Hydroxytryptophan; 5-HT receptor subtype (Honda, M. (482) 155)

Spinal synaptic transmission

Anoxia; Glutamate; Inhibitory transmission; Creatine phosphate (Jha, A. (481) 189)

Spleen cell

Palytoxin; Ca²⁺, cytosolic, free; Fura-2 (Sato, E. (465) 9)

Splenic artery, canine

Neurojunctional transmission; α_{1B} -Adrenoceptor; Neuropeptide Y Y₁ receptor (Yang, X.-P. (466) 311)

Splice variant

Histamine H₃ receptor; Cloning; Pharmacology (Chen, J. (467) 57)

Spontaneous activity

GABA_A receptor; Potency; Partial agonist; Oocyte; Electrophysiology (Mortensen, M. (476) 17)

Spontaneous contraction

Porcine uterus; Pregnancy; Acetylcholine; Oxytocin; 5-Hydroxytryptamine; Nitric oxide (Kitazawa, T. (469) 135)

Spontaneously hypertensive, rat

Histamine; Pulmonary artery; Nitric oxide (NO); (Wistar–Kyoto rat) (Lau, W.H. (470) 45)

NCX 4016; Hypertension; Vasoconstriction; Nitric oxide (NO); cGMP; Tail artery (Rossoni, G. (477) 59)

Spontaneously hypertensive, rat (SHR)

Acetylcholine; Pulmonary artery; Na⁺/H⁺ exchanger; Wistar–Kyoto, rat (WKY) (Chau, W.H. (464) 177)

Acidosis, intracellular; Aorta; pH, acidic; Wistar–Kyoto rat (WKY) (Rohra, D.K. (465) 141)

SIP receptor

Sphingosine-1-phosphate; Cerebral vessel; Vasoconstriction; Suramin (Salomone, S. (469) 125)

Squalene synthase inhibitor

TAK-475; Hypercholesterolemia, familial; LDL receptor knockout, mouse; WHHL, rabbit (Amano, Y. (466) 155)

SR141716A

Vomiting; Locomotor activity; CP55,940; Cannabinoid CB₁ receptor; (Least shrew); G-protein; Potency; Efficacy (Darmani, N.A. (459) 83)

2-Arachidonoyl glycerol; Endocannabinoid; Cannabinoid receptor; Milk suckling; Cannabidiol (Fride, E. (461) 27)

Cannabinoid; (*R*)-Methanandamide; Δ^9 -Tetrahydrocannabinol; Behavior, schedule controlled; (Rat) (Järbe, T.U.C. (466) 121)

Antipsychotic; Depressant; Cannabinoid (Wiley, J.L. (471) 185)

Antitussive effect; Cough; cannabinoid CB₁ receptor; WIN 55212-2 (Morita, K. (474) 269)

SRE (serum response element)

Somatostatin; Somatostatin sst₂ receptor 2; Non-peptide antagonist; Luciferase; cAMP (Nunn, C. (465) 211)

SSR69071

Neutrophil elastase inhibition; Ischemia–reperfusion injury, cardiac; Infarct size (Bidouard, J.-P. (461) 49)

StAR protein

Bromocriptine; Corticosterone; Zona fasciculata–reticularis cell; Adenylyl cyclase; Cytochrome P450scc (Kan, S.-F. (468) 141)

StAR (steroidogenic acute regulatory protein)

Ethanol; Neuroactive steroid (Khisti, R.T. (473) 225)

State anxiety

Stress; Elevated plus-maze; Enhanced anxiety state; Fear-potentiation; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Statins

Linoleic acid; $\Delta 5$ desaturase (Ris  , P. (467) 73)

Stereoisomer

Alfentanil; Anaesthesia; Analgesia; EEG (electroencephalogram); Ketamine (Edwards, S.R. (460) 27)

Stereotypy

Nociceptin; Amphetamine; Conditioned place preference; Sensitization; (Rat) (Kotlinska, J. (474) 233)

Steroid

Immunomodulation; (*Physalis angulata* L.); Endotoxic shock (Soares, M.B.P. (459) 107)

Benzodiazepine receptor, peripheral-type; PK11195; Ro5-4864; Depression; (Mouse); Forced swimming test (Gavioli, E.C. (471) 21)

Sepsis; Vasopressor; Hemodynamic; Nitric oxide (NO) (Mansart, A. (475) 61)

Sterol synthesis

VLDL (very-low-density lipoprotein) particle production; Fatty acid synthesis; HMG-CoA reductase; Acetyl-CoA carboxylase; VLDL (very low density lipoprotein) secretion (Ohmori, K. (471) 69)

Stilbene

Mast cell; Cl[−] channel; Exocytosis; Diethylstilbestrol; Hexestrol (Roloff, T. (478) 81)

Stilbene derivative

Cl[−] concentration, intracellular; Lectin; Jurkat T lymphocyte, human;
Cl[−]-free condition; 9-AC (Lai, Z.-F. (482) 1)

St. John's wort

Hypericum perforatum; Hypericin; Pseudohypericin; Hyperforin; Depression; CRF (corticotropin-releasing factor) (Simmen, U. (458) 251)

CYP3A (Cytochrome P450 3A); Omeprazole; Pantoprazole; Induction of transcription; RT-PCR (reverse transcription–polymerase chain reaction) (Krusekopf, S. (466) 7)

STOC (spontaneous transient outward current)

cADP-ribose; Smooth muscle, vascular (Cheung, D.W. (458) 57)

Stomach

Intestine; Enteric nervous system; Immune system; Inflammation; Leukotriene; Myenteric plexus; Submucosal plexus (Liu, S. (459) 27)

Histidine decarboxylase; Aspirin; Indomethacin; Dexamethasone; Histamine H₂ receptor antagonist (Ayada, K. (460) 63)

Stomach, rat

EP₃ receptor; TP receptor; Noradrenaline release; Pertussis toxin (Yokotani, K. (459) 187)

8-Iso-prostaglandin E₂; 8-Iso-prostaglandin F_{2α}; Prostanoid EP₃ receptor; TP receptor; Noradrenaline release; Pertussis toxin (Nakamura, K. (470) 73)

Storage pool, readily releasable

Dopamine overflow; L-3,4-dihydroxyphenylalanine (L-DOPA); Atipamezole; Voltammetry, in vivo; Caudate nucleus; Nucleus accumbens (Yavich, L. (462) 83)

Streptomycin

Edaravone; Free radical scavenger; Horizontal vestibulo-ocular reflex; Osmotic pump; (Guinea pig) (Horiike, O. (464) 75)

Streptozotocin

Diabetes; Lipid peroxidation; Hippocampus; Cortex; GFAP (glial fibrillary acidic protein) (Baydas, G. (462) 67)

β-Adrenoceptor; Diabetes; Urinary bladder, rat; Relaxation (Kubota, Y. (467) 191)

Diabetes mellitus; Vascular contraction; Diacylglycerol; Otsuka Long-Evans Tokushima Fatty (OLETF), rat (Nobe, K. (471) 195)

Diabetes mellitus; Cytokines; Heat shock protein; Growth factor; Ulcer (Harsch, I.A. (481) 249)

Streptozotocin diabetes

Urinary bladder, rat; Capsaicin; Cholinergic contraction; Purinergic contraction; Peptidergic response; Electrical field stimulation (Benkó, R. (478) 73)

Streptozotocin-induced diabetes

Carbachol; Prostaglandin; Ca²⁺ ionophore A23187; Adenosine A₁ receptor (Talubmook, C. (469) 153)

Stress

Nitric oxide (NO); Elevated plus maze; Open-field (Masood, A. (458) 135)

Opioid; Vas deferens; Ontogenesis; Antisense oligonucleotide (Loizzo, A. (458) 201)

Cell proliferation; Gastric ulcer; Morphine; Mucus; Myeloperoxidase (Cho, C.H. (460) 177)

Anxiety; Anxiolytic; Anxiogenic; Limbic system; Benzodiazepine; 5-HT_{1A} receptor (Millan, M.J. (463) 67)

Anxiety; Stress-induced hyperthermia; Body temperature; Mutant mouse (Olivier, B. (463) 117)

Vocalisation; Aversion; Anxiety; Ultrasound; (Rat) (Sánchez, C. (463) 133)

Elevated plus-maze; Enhanced anxiety state; State anxiety; Fear-potentiation; Allostasis; Allostatic state; Allostatic load; Corticotropin-releasing factor; Corticosteroid; Glucocorticoid receptor antagonist; Controllability; Contextual conditioning; Diazepam (Mechiel Korte, S. (463) 163)

Amygdala; Bed nucleus of the stria terminalis; Fear; Anxiety; CRF (corticotropin releasing hormone) (Walker, D.L. (463) 199)

CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Clozapine; Haloperidol; Risperidone; Blood pressure; Heart rate; Behaviour (van den Buuse, M. (464) 55)

Stress-induced hyperthermia

Stress; Anxiety; Body temperature; Mutant mouse (Olivier, B. (463) 117)

Stretch

Pulmonary artery; Contraction; Prostaglandin H₂; Integrin (Saito, M. (467) 151)

Striatal neuron

α-Tocopherol; Neuroprotection; Oxidative stress; Apoptosis; (In vitro); (Rat) (Osakada, F. (465) 15)

Striatum

Dopamine release; Neomycin; Veratridine; ω-Conotoxin; ω-Agatoxin-IVA (Dobrev, D. (461) 105)

μ-Opioid receptor; Opioid, presynaptic inhibition; K⁺ channel; Corticostriatal afferent (Barral, J. (462) 91)

Adenosine A_{2A} receptor; Parkinson's disease; Microdialysis; Glutamate (Corsi, C. (464) 33)

Ammonia neurotoxicity; NMDA receptor; cGMP; Hydroxyl radical; Microdialysis; Taurine (Hilgier, W. (468) 21)

Haloperidol; Olanzapine; Clozapine; Neuroleptic; Oral dyskinesia (McCullumsmith, R.E. (477) 101)

Dopamine transporter; Norepinephrine transporter; Protein kinase C; Dopamine release; PC12 cell (Gnegy, M.E. (479) 83)

Striatum, ventrolateral

Dopamine D1-like receptor; Adenylyl cyclase; Dopamine D1-like receptor, non-cyclase-coupled; Cortex, prefrontal; Accumbens, shell; Dopamine D1-like:D2-like receptor synergism; Jaw movement; SK&F 83959; (Rat) (Adachi, K. (473) 47)

Stroke

Caspase; Neuroprotection; Apoptosis (Feng, Y. (481) 169)

Phytoestrogen; Cerebral artery; Ca^{2+} channel; Nitric oxide (NO); Estrogen (Torregrosa, G. (482) 227)

Strokes

Cocaine; Apoptosis; Cerebral vascular smooth muscle cell (Su, J. (482) 61)

Stroke-prone spontaneously hypertensive rat (SHRSP)

Oesophageal striated muscle; Caffeine; Contracture; Ca^{2+} influx; Sarco-plasmic reticulum (Sekiguchi, F. (465) 153)

Structural context

Conformational change; Neurotransmitter transporter (Goldberg, N.R. (479) 3)

Structural probing

Functional probing; Biogenic amine; Fluorescence spectroscopy (Rasmusen, S.G.F. (479) 13)

Structure

DAT (dopamine transporter); Zn^{2+} -site engineering; Conformational change; Cocaine affinity (Loland, C.J. (479) 187)

Structure–activity relationship study

Cocaine; Analogue; DAT (dopamine transporter); Dopamine hypothesis; Binding activity (Dutta, A.K. (479) 93)

Stunning

Adenosine A_3 receptor; Ischaemia; Hypoxia; Heart, isolated; working; Papillary muscle; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

Subcellular fractionation

Synaptophysin; Dinucleotide oxidized; GRP-78 (Shepel, P.N. (467) 67)

Submucosal plexus

Intestine; Stomach; Enteric nervous system; Immune system; Inflammation; Leukotriene; Myenteric plexus (Liu, S. (459) 27)

Submucous plexus

Enteric nervous system; Small intestine; Synaptic transmission; Galanin (Liu, S. (471) 49)

Substance P

Capsaicin; Neuropeptide release; CGRP (calcitonin gene-related peptide); Somatostatin; Tetrodotoxin (Németh, J. (458) 313)

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Tachykinin NK_1 receptor; Neurokinin A; Peptide receptor antagonist; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Gene targeting; Dopamine receptor; Dynorphin; Enkephalin (Wong, J.Y.F. (472) 39)

Airway; Inflammation; Neutrophil; Mast cell (van der Kleij, H.P.M. (476) 249)

Substantia nigra

Dopamine; Kainic acid; 6-OHDA (6-hydroxydopamine); Memory; Ventral tegmental area (Hefco, V. (475) 55)

Substantia nigra, rat

Cerebral ischemia; Dexamethasone; Dopamine (Mitsuyo, T. (465) 267)

Substrate

Glutamate transporter; Neurodegeneration; Glutamate uptake; Inhibitor (Mennini, T. (479) 291)

Substrate-mediated regulation

DAT (dopamine transporter); Functional regulation; Trafficking; Presynaptic receptor (Gulley, J.M. (479) 139)

 $\alpha 6$ Subunit

Nicotinic receptor; Chimera; HEK-293 cell; (Human) (Evans, N.M. (466) 31)

Ca^{2+} channel, L-type; Dihydropyridine; Cilnidipine; Antisense; A7r5 cell (Uchida, R. (466) 53)

$\text{Na}_v1.3$ Na^+ channel; Neonatal; Lidocaine; Oocyte (Lenkowski, P.W. (467) 23)

 $\alpha 7$ Subunit

Nicotinic receptor; Bleomycin; Apoptosis; HL-60 cell (Gimonet, D. (482) 25)

Sulphydryl compound

Alpinia galanga; 1'-S-1'-Acetoxychavicol acetate; Necrotizing agent-induced gastric lesion; Prostaglandin (Matsuda, H. (471) 59)

Sulphonylurea receptor

K^+ channel, ATP-sensitive; MCC-134; Urethra; Smooth muscle (Yunoki, T. (482) 287)

Sulpiride

Chlorisondamine; Nicotine; Scopolamine; Memory (Hefco, V. (474) 227)

Sumatriptan

5-HT receptor; Vasoconstriction; Hindlimb ischemia; SL65.0472; Ketanserin (Barbe, F. (474) 117)

(*Suncus murinus*)

Emesis; Emetic; Anti-emetic; Prostanoid (Kan, K.K.W. (477) 247)

U46619; Prostanoid TP receptor; Tachykinin NK_1 receptor; Emetic; Anti-emetic; Prostanoid (Kan, K.K.W. (482) 297)

Superfusion

β -adrenoceptor agonist; Calcium ion; Ca^{2+} ionophore; Calmodulin; Renal cortical slice, dog; Renin release (Yatsu, T. (458) 191)

Superior colliculus

Aversion; Midbrain tectum; Dorsal periaqueductal gray; Inferior colliculus (Brandão, M.L. (463) 225)

Jaw movement; Ventrolateral striatum; GABA_A receptor; Dopamine receptor; Acetylcholine receptor; (Rat) (Adachi, K. (464) 147)

Superoxide

Pancreatic islet; Superoxide dismutase; Blood flow; Nitric oxide (NO) (Svensson, A.M. (459) 59)

Superoxide anion

Oxygen radical; Superoxide dismutase; EUK-8; EUK-134; Multiple organ failure; Shock (McDonald, M.C. (466) 181)

Superoxide anion generation

N-formylmethionyl peptide; Neutrophil, human; Chemotaxis; Lysozyme release; Receptor binding (Spisani, S. (469) 13)

Superoxide dismutase

Pancreatic islet; Superoxide; Blood flow; Nitric oxide (NO) (Svensson, A.M. (459) 59)

Oxygen radical; EUK-8; EUK-134; Superoxide anion; Multiple organ failure; Shock (McDonald, M.C. (466) 181)

Garlic; Aminoglycoside; Glutathione peroxidase; Oxidative stress; Nephrotoxicity (Pedraza-Chaverri, J. (473) 71)

Supersensitivity

Antidepressant; Bipolar disorder; Imipramine; Mania; Rapid cycling (D'Aquila, P.S. (458) 129)

Suramin

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PADS; Reactive blue 2 (Laubinger, W. (468) 9)

Sphingosine-1-phosphate; SIP receptor; Cerebral vessel; Vasoconstriction (Salomone, S. (469) 125)

Survival rate

Myocardial infarction; Arrhythmias; (Rat); Levosimendan (Leprán, I. (464) 171)

(Swiss Webster mouse)

GABA_A receptor; Benzodiazepine coupling; Diazepam; DMCM; Benzodiazepine inverse agonist; Benzodiazepine Type-1 receptor agonist (Davies, D.L. (469) 37)

Sympathetic nerve

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A₂ synthase; Brain; Adrenaline; Noradrenaline; Plasma; Adrenal gland (Okada, S. (467) 125)

Ischemia; Reperfusion; Acute renal failure; Norepinephrine (Fujii, T. (481) 241)

Sympathetic nerve stimulation

(+)-Nantenine; Pithed rat; Pressor response; α -Adrenoceptor; 5-HT receptor (Tsuchida, H. (477) 53)

Sympathetic neurone

Choline; Nicotinic receptor; Intracellular Ca²⁺; Indo1 (Seddik, R. (471) 165)

Sympathetic system

Hypertension; K⁺ channel; Vascular tension; Angiotensin AT₁ receptor; Endothelin ET_A receptor; Protein kinase C (Berg, T. (466) 301)

Sympathoadrenomedullary outflow

Catecholamine; Plasma; Corticotropin-releasing hormone (CRH); Phospholipase C; Diacylglycerol lipase; Brain (Okada, S. (475) 49)

Synaptic plasticity

Morphine; Dentate gyrus; Norepinephrine; Locus coeruleus (Zhu, H. (467) 141)

Synaptic transmission

Enteric nervous system; Submucous plexus; Small intestine; Galanin (Liu, S. (471) 49)

Ventral tegmental area; Mesolimbic; Electrophysiology; Drug addiction (Mathon, D.S. (480) 97)

Synaptophysin

Dinucleotide oxidized; GRP-78; Subcellular fractionation (Shepel, P.N. (467) 67)

Synergism

Inflammatory pain; Cyclooxygenase-2; Morphine; Rofecoxib (Déciga-Campos, M. (460) 99)

Synergy

Retigabine; GABA_A receptor complex; TBOB; Isobole method; Molecular model (van Rijn, C.M. (464) 95)

System L

Nitric oxide (NO); S-Nitroso-L-cysteine; Amino acid transporter; PC12 cell (Nemoto, T. (458) 17)

Systemic anaphylaxis

Diabetes; Glucocorticoid; Mast cell (Carvalho, V.F. (472) 221)

Systemic circulation

Cl[−] channel; Smooth muscle; Blood flow regulation; Hypoxia (Jiang, J. (481) 133)

SZL-49

Vas deferens, human; A-61603; Cirazoline; Oxymetazoline; Phenoxybenzamine; Dibenamine (Amobi, N. (462) 169)

T-82

Scopolamine; Basal forebrain lesion; Passive avoidance task; (Rat) (Isomae, K. (465) 97)

TA-0201

Endothelin receptor antagonist; Endothelin receptor; Prostate, human (Takahashi, M. (467) 185)

Tachykinin

Micturition; Urinary bladder; Central nervous system (Yamamoto, T. (477) 253)

Tachykinin NK₁ receptor

Substance P; Neurokinin A; Peptide receptor antagonist; Hydrophathy; Antibody (Wijkhuisen, A. (468) 175)

U46619; Prostanoid TP receptor; Emetic; Anti-emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (482) 297)

Tachykinin NK₁ receptor antagonist

Emesis; Cisplatin; GR205171; (Pigeon) (Tanihata, S. (461) 197)

Tachykinin receptor

Phoneutria nigriventer venom; Hyperalgesia; Vanilloid receptor; Excitatory amino acid receptor (Zanchet, E.M. (467) 111)

Tachyphylaxis

Angiotensin II; [Lys²]angiotensin II; Angiotensin AT₁ receptor; mRNA; Untranslated region; CHO cell line (França, L.P. (476) 25)

Tail artery

Cerebral artery; Coronary artery; Renal artery; Nitric oxide (NO); Prostanoid (García-Villalón, A.L. (459) 247)

Endotoxaemia; Lipopolysaccharide; Vasocontraction (Ralevic, V. (460) 145)

NCX 4016; Hypertension; Vasoconstriction; Nitric oxide (NO); cGMP; Spontaneously hypertensive rat (Rossoni, G. (477) 59)

Tail flick

Anticonvulsant; Chronic constriction injury; Formalin test; Neuropathic pain; Spared nerve injury (Blackburn-Munro, G. (460) 109)

Tail-flick

Amisulpride; Atypical neuroleptic; Opioid receptor sub-type; Antinociception; Pain (Weizman, T. (478) 155)

Hyperalgesia; Chronic stress; Adenosine; CPA; N6-cyclopentyladenosine; Dipyrindamole (da Silva Torres, I.L. (481) 197)

Tail-flick test

Antinociception; Endomorphin-1; Na⁺,K⁺-ATPase; Ouabain (Horvath, G. (458) 291)

Formalin test; Hyperalgesia; Migraine; Nitric oxide (NO); Pain (Tassorelli, C. (464) 159)

Tail skin temperature

Ca²⁺ channel antagonist; Nifedipine; Ovariectomy; Flushing; Menopause (Kai, M. (481) 79)

Tail-temperature

Hot flush; Mirtazapine; Oestrogen; (Rat) (Berendsen, H.H.G. (482) 329)

TAK-475

Squalene synthase inhibitor; Hypercholesterolemia, familial; LDL receptor knockout, mouse; WHHL, rabbit (Amano, Y. (466) 155)

TAK-427 {2-[6-[[3-[4-(diphenylmethoxy) piperidino]propyl]amino]imidazo[1,2-*b*]pyridazin-2-yl]-2-methylpropionic acid dihydrate}

Nasal acute symptom; Allergic rhinitis; Histamine H₁-receptor antagonist; Cedar pollen; Nasal obstruction (Fukuda, S. (476) 239)

TAPS

Dermorphin; Tetrapeptide; Receptor binding; Kinetic; Brain (Vanhof, S. (473) 127)

TAPS (Tyr-D-Arg²-Phe-Sar⁴)

Dermorphin; Tetrapeptide; Antinociception; Tolerance; Withdrawal (Vanhof, S. (459) 41)

Tardive dyskinesia

Oxidative stress; Neurodegeneration; Vacuous chewing movement; Neuroleptic; FK506; Neuroprotection (Singh, A. (477) 87)

TAS-202

Angiogenesis inhibitor; Adjuvant-induced arthritis (Tanaka, K. (466) 191)

Taurine

Ammonia neurotoxicity; NMDA receptor; cGMP; Hydroxyl radical; Microdialysis; Striatum (Hilgier, W. (468) 21)

Taurine efflux, osmosensitive

Cell cycle progression; Antihistamine, second-generation, non-sedating; Tricyclic antidepressant; Volume-sensitive organic osmolyte/anion channel (Belsey, M.J. (474) 185)

Taxidermized predator

WAY 100635; Marmoset, monkey; Anxiety; Figure-eight maze (Barros, M. (482) 197)

TBOB

Retigabine; GABA_A receptor complex; Synergy; Isobole method; Molecular model (van Rijn, C.M. (464) 95)

T47D

CP8668; Progesterone receptor modulator, nonsteroidal; Endometrial transformation, rabbit; PF1092 (Tabata, Y. (461) 73)

Telomere

Apoptosis; Arsenic trioxide; DODC (diethyloxadicarbocyanine); Cell cycle; Sensitivity (Zhang, Y. (474) 141)

Temperature

MDMA (3,4-Methylenedioxymethamphetamine); Self-administration (Cornish, J.L. (482) 339)

Tempol

Endothelium-derived hyperpolarizing factor; DOCA-salt hypertension; Free radical species; Mesenteric vascular bed (Adeagbo, A.S.O. (481) 91)

Temporal lobe epilepsy

Glutamate receptor, metabotropic; Epilepsy; Anticonvulsant; DBA/2 mouse; Kindling (Moldrich, R.X. (476) 3)

Terreactant mechanisms

DAT (Dopamine transporter); Multisubstrate mechanisms; Leakage; Na⁺-dependent transporter; Cl⁻-dependent transport; Slippage (Schenk, J.O. (479) 223)

Test experience

Elevated plus-maze; Anxiety; Antidepressant; Benzodiazepine; (Mouse) (Holmes, A. (459) 221)

Testosterone

K⁺ channel; Vasorelaxation; Prostanoid; Ca²⁺ influx (Tep-areenan, P. (465) 125)

Cyclosporine; Endothelium dysfunction; Renal vasculature; Gonadectomy (El-Mas, M.M. (468) 217)

α₁-Adrenoceptor; Vas deferens; (Rat); Castration (Campos, M. (471) 149)

Δ⁹-Tetrahydrocannabinol

Cannabinoid; (*R*)-Methanandamide; SR-141716A; Behavior, schedule controlled; (Rat) (Järbe, T.U.C. (466) 121)

Tetramethylpyrazine

Cerebellar granule cell; Fe ion; Apoptosis; Ferulic acid (Zhang, Z. (467) 41)

Tetrapeptide

Dermorphin; TAPS (Tyr-D-Arg²-Phe-Sar⁴); Antinociception; Tolerance; Withdrawal (Vanhof, S. (459) 41)

Dermorphin; TAPS; Receptor binding; Kinetic; Brain (Vanhof, S. (473) 127)

Tetrodotoxin

Capsaicin; Neuropeptide release; Substance P; CGRP (calcitonin gene-related peptide); Somatostatin (Németh, J. (458) 313)

TGF-β1 (transforming growth factor-β1)

Chymase; Mast cell; Pulmonary fibrosis; Collagen synthesis (Tomimori, Y. (478) 179)

Thapsigargin

Anococcygeus, mouse; Calyculin-A; Nitrergic relaxation (Gibson, A. (471) 213)

Thearubigin

Inflammatory bowel disease; Black tea; Colitis; Cytokine; Nitric oxide (NO) synthase, inducible; NF-κB (nuclear factor kappa B) (Maity, S. (470) 103)

Thermal hyperalgesia

Orexin-A; Mechanical allodynia; SB-334867; Carrageenan test; Spinal cord (Yamamoto, T. (481) 175)

Inflammation; Paw edema; Resiniferatoxin; Mast cell (Zhang, Y.-H. (481) 301)

Thermotolerance

Heat shock protein; Herbimycin A; Apoptosis; (Rat) (Sachidhanandam, S.B. (474) 121)

Thiazolidinedione

Neuroprotection; Peroxisome proliferator-activated receptor; 15-Deoxy-prostaglandin-J2; Troglitazone (Aoun, P. (472) 65)

CFU-GM; Bone marrow toxicity; Insulin sensitizer (Benkő, I. (477) 179)

THIP

Gaboxadol; Benzodiazepine; Ethanol (Stórustovu, S.í. (467) 49)

Cross-tolerance; Ethanol; Flunitrazepam; GABA_A receptor; Gaboxadol; Hypnotic; Rotarod; Zolpidem; Indiplon (Voss, J. (482) 215)

THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol)

Ligand-gated; Anaesthetic; Benzodiazepine; γ -Aminobutyric acid; Inhibition (Smith, M. (478) 21)

Threohydrobupropion

Nicotine; Amphetamine; Bupropion; Bupropion metabolite; Hydroxybupropion (Bondarev, M.L. (474) 85)

Thrombin

Mast cell; PAR (proteinase-activated receptor); PAR-activating peptide (PAR-AP); Histamine; Peritonitis (Dugina, T.N. (471) 141)

 α -Thrombin, human

Atorvastatin; Interleukin-6; NF- κ B (nuclear factor- κ B); RhoA (Haloui, M. (474) 175)

Thrombin receptor

FR171113; PAR-1 antagonist; Arterial thrombosis (Kato, Y. (473) 163)

Thromboxane

Isoprostane; Vasodilatation; Hypercholesterolemia; TP receptor (Ishizuka, T. (468) 27)

Thromboxane A₂

Asthma; Smooth muscle cell; Human; Proliferation; Airway (Capra, V. (474) 149)

Thromboxane A₂ synthase

Vasopressin; CRH (corticotropin-releasing hormone); Cyclooxygenase; Brain; Adrenaline; Noradrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

Thyroxine

Inotrope; Ischaemia; Dobutamine; Heart, rat (Pantos, C. (460) 155)

HSP27 (heat-shock protein 27); Ischaemia–reperfusion; Heart; (Rat) (Pantos, C. (478) 53)

Tiagabine

GABA transport; GAT-1 (GABA transporter-1); GAT-2 (GABA transporter-2); GAT-3 (GABA transporter-3); Epilepsy; Tonic conductance; Extrasynaptic (Dalby, N.O. (479) 127)

Tiliroside

Gnaphaliin; Pinocembrin; Anti-inflammatory activity; Antioxidant activity (Sala, A. (461) 53)

Titanocene

Natural killer cell; Antitumoural; Ehrlich ascites tumour (Valadares, M.C. (473) 191)

T-lymphocyte

Phospholipase A₂; NF κ B (nuclear factor- κ B); MAP (mitogen-activated protein) kinase; Interleukin-2 (Burgermeister, E. (466) 169)

T-maze, elevated

Periaqueductal gray, dorsal; Panic; Anxiety; 5-HT (5-hydroxytryptamine, serotonin) (Zanoveli, J.M. (473) 153)

TNBS (trinitrobenzene sulphonic acid)

Colitis; Neutrophil; TNF- α (tumor necrosis factor- α); Flavonoid; Dosmalfate (Villegas, I. (460) 209)

Cyclo-oxygenase-2; Colitis; Neutrophil; Interleukin-1 β ; Prostaglandin; Apoptosis (Martín, A.R. (481) 281)

TNF- α (tumor necrosis factor- α)

Adhesion; Chemokine; Endothelium; Fatty acid; Neutrophil (Wang, Y. (459) 269)

Colitis; TNBS (trinitrobenzene sulphonic acid); Neutrophil; Flavonoid; Dosmalfate (Villegas, I. (460) 209)

RNA, regulatory; RNA, noncoding; PKR (RNA-dependent protein kinase); NF- κ B (nuclear factor- κ B); B16-F10 melanoma (Watanabe, M.A.E. (465) 205)

Heat shock protein; MAP (mitogen-activated protein) kinase; Neutrophil (Niwa, M. (466) 245)

Dexamethasone; Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); Sephadex bead; VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

TNF- α (tumour necrosis factor- α)

PPAR- γ ligand; Ulcer healing; Interleukin-1 β ; Nitric oxide (NO) synthase; HSP70 (heat shock protein 70) (Konturek, P.C. (472) 213)

Cannabinoid; Interleukin-8; HT-29 cell; Inflammatory bowel disease (Ihenetu, K. (458) 207)

Adenosine A₃ receptor; Adenosine A_{2A} receptor; Dendritic cell (Dickenson, J.M. (474) 43)

 α -Tocopherol

Neuroprotection; Oxidative stress; Apoptosis; Striatal neuron; (In vitro); (Rat) (Osakada, F. (465) 15)

Tolerance

Dermorphin; TAPS (Tyr-D-Arg²-Phe-Sar⁴); Tetrapeptide; Antinociception; Withdrawal (Vonhof, S. (459) 41)

Analgesia; Hyperalgesia; Pain; 5-HT_{1A} receptor (Bruins Slot, L.A. (466) 271)

Cyclosporine A; FK506; Ileum, guinea pig; Dependence; Morphine (Mehr, S.E. (467) 205)

Opioid; Metamizol; Antinociception; Potentiation (Hernández-Delgadillo, G.P. (469) 71)

Flumazenil; Morphine; Sex; Analgesia; (Rat) (Holtman Jr., J.R. (470) 149 α -Difluoromethyl-ornithine; Aminoguanidine; Agmatine; Morphine; Analgesia (Lu, G. (478) 139)

Tolerance development

Diazepam; Flow cytometry; Neutrophil; Oxidative burst; Peripheral benzodiazepine receptor; Corticosterone (da Silva, F.R. (478) 97)

Toluene-2,4-diisocyanate

Cilomilast; Phosphodiesterase 4 inhibitor; Dendritic cell; Skin, mouse; Matrix metalloproteinase 9; Zymography (Bäumer, W. (481) 271)

Tonic conductance

GABA transport; Tiagabine; GAT-1 (GABA transporter-1); GAT-2 (GABA transporter-2); GAT-3 (GABA transporter-3); Epilepsy; Extrasynaptic (Dalby, N.O. (479) 127)

Torsade de pointes

QT prolongation; Prostaglandin E₂; K⁺ channel; ATP-dependent K⁺ channel; Proarrhythmia (Farkas, A. (472) 189)

Torsades de pointe

Famotidine; Monophasic action potential; HERG; QT interval; Atrioventricular block (Sugiyama, A. (466) 137)

Torsades de pointes

HERG channel; K⁺ channel; *l*-α-acetylmethadol; QT prolongation (Kang, J. (458) 25)

Toxin

Ca²⁺ current; Na⁺ current; Ion channel; Catecholamine cell (Arroyo, G. (475) 11)

TPEN

Ligand binding; G protein-coupled receptor (Webster, J.M. (474) 1)

TP receptor

EP₃ receptor; Noradrenaline release; Stomach, rat; Pertussis toxin (Yokotani, K. (459) 187)

Isoprostane; Vasodilatation; Hypercholesterolemia; Thromboxane (Ishizuka, T. (468) 27)

8-Iso-prostaglandin E₂; 8-Iso-prostaglandin F_{2α}; Prostanoid EP₃ receptor; Noradrenaline release; Stomach, rat; Pertussis toxin (Nakamura, K. (470) 73)

Trachea

Cannabinoid; Vanilloid; Cholinergic; (Guinea-pig) (Nieri, P. (459) 75)

Norbormide; (Rat); Urinary bladder; Duodenum; Ca²⁺ channel L-type (Bova, S. (470) 185)

NANC (Non-adrenergic non-cholinergic) inhibitory; Cannabinoid; WIN 55,212-2; (Guinea-pig); Nitric oxide (NO) (Nieri, P. (475) 115)

Trachea, guinea pig

Cetirizine; Histamine H₁ receptor antagonism; Receptor reserve; Dissociation kinetic; Ileum, guinea pig (Christophe, B. (470) 87)

Trafficking

DAT (dopamine transporter); Functional regulation; Presynaptic receptor; Substrate-mediated regulation (Gulley, J.M. (479) 139)

Dopamine transporter; Amphetamine; Cocaine (Kahlig, K.M. (479) 153)

Neurotransmitter transport; Dopamine transporter; Transporter regulation; Signaling mechanism; Phosphorylation; Cocaine; Amphetamine (Mortensen, O.V. (479) 159)

Trait

Anorexia nervosa; Phenotype; Obesity; Genotype; Hyperactivity; Anxiety (Kas, M.J.H. (480) 13)

Tramadol

Non-steroidal anti-inflammatory drug (NSAID); Antagonism; Interaction; Gastrointestinal transit (Planas, E. (482) 223)

Transcription factor

Angiotensin II; Gene expression; Microarray; Renal cell, human; Proximal tubule (Braam, B. (464) 87)

Sciatic nerve crush; Regeneration; Development; Homeobox; Dorsal root ganglion (Vogelaar, C.F. (480) 233)

Transgenic

Anxiety; 5-HT_{1A} receptor; CRF (corticotropin-releasing factor); CRH (corticotropin-releasing hormone); Knockout (Groenink, L. (463) 185)

Transgenic animal

Neuropeptide Y; Obesity; Food intake; Satiety signal (Herzog, H. (480) 21)

Transgenics

Anxiety; Aggression; 5-HT (5-hydroxytryptamine, serotonin); Knockout mouse (Lesch, K.P. (480) 185)

Transition element

Metallothionein; Zn²⁺ trafficking; Zinquin; Mitochondrion; Cultured cell; Fluorescence microscopy; (Rat) (Colvin, R.A. (479) 171)

Transmembrane domain

DAT (dopamine transporter); SERT (serotonin transporter); Mutant; Cocaine selective; Antagonism (Uhl, G.R. (479) 71)

Transmigration

Neutrophil; Corticosteroid; Inhibition (van Overveld, F.J. (477) 261)

Transport

Organic anion transporter; Proximal tubule; Cephalosporin antibiotic; Cell line (Khamdang, S. (465) 1)

Transporter

R-(−)-1-(Benzofuran-2-yl)-2-propylaminopentane [(−)-BPAP]; Catecholaminergic and serotonergic activity enhancer; Human embryonic kidney 293 cell; Parkinson's disease; Tyramine (Shimazu, S. (482) 9)

Transporter regulation

Neurotransmitter transport; Dopamine transporter; Trafficking; Signaling mechanism; Phosphorylation; Cocaine; Amphetamine (Mortensen, O.V. (479) 159)

Tricyclic antidepressant

Taurine efflux, osmosensitive; Cell cycle progression; Antihistamine, second-generation, non-sedating; Volume-sensitive organic osmolyte/anion channel (Belsey, M.J. (474) 185)

Trigeminal

Bradykinin; Prostaglandin E₂; Migraine; Primary culture (Jenkins, D.W. (469) 29)

(*Tripterygium wilfordii* Hook. f.)

Antifertility compound; Whole-cell recording; Ca²⁺-channel; Acrosome reaction; Spermatogenic cell; (Mouse) (Bai, J.-P. (464) 9)

TRK-820

Pruritus; Opioid system; CNS (central nervous system); Behavior; (Mouse) (Umeuchi, H. (477) 29)

Troglitazone

Neuroprotection; Peroxisome proliferator-activated receptor; 15-Deoxy-prostaglandin-J2; Thiazolidinedione (Aoun, P. (472) 65)

Tryptophan

Locus coeruleus; Dorsal raphe nucleus; Microdialysis; 5-HT (5-hydroxy-tryptamine, serotonin); 5-HIAA (5-hydroxyindoleacetic acid); Ethanol; 5,7-Dihydroxytryptamine (Hayashi, M. (462) 61)

Tube formation

Rhizoxin; Microbial angiogenesis inhibitor; Angiogenic endothelial function; Plasminogen activator (Aoki, K. (459) 131)

Tuberoinfundibular peptide (TIP39)

PTH (Parathyroid hormone); PTH2 receptor; Proliferation; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

Tumor metastasis

Angiogenesis; Endothelial cell; Invasion; Migration; Wf-536 (Nakajima, M. (459) 113)

Tumor necrosis factor- α

Nuclear factor- κ B; Nitric oxide; Endothelin-1; Endothelial cell (Ohkita, M. (472) 159)

Tumor suppression

Glycosaminoglycan; Acharan sulfate; Angiogenesis; Matrigel assay (Lee, Y.S. (465) 191)

Tyramine

Semicarbazide-sensitive amine oxidase; Monoamine oxidase; Glutathione; Hydrogen peroxide; Isoprenaline; Adipose cell (Visentin, V. (466) 235)

R-(–)-1-(Benzofuran-2-yl)-2-propylaminopentane [(–)-BPAP]; Catecholaminergic and serotonergic activity enhancer; Human embryonic kidney 293 cell; Parkinson's disease; Transporter (Shimazu, S. (482) 9)

Tyrosine kinase

Peroxynitrite; Preconditioning; Genistein; Tyrphostin (Söylemez, S. (464) 163)

Nitric oxide (NO); Urinary tract infection; MAP (mitogen-activated protein) kinase; NF- κ B (nuclear factor- κ B) (Poljakovic, M. (469) 21)

Norepinephrine; Smooth muscle; Myosin light chain phosphorylation (Adegunloye, B.J. (476) 201)

Tyrosine kinase inhibitor

Inflammatory hyperalgesia; NMDA receptor; Spinal cord; Antinociception (Sato, E. (468) 191)

Tyrphostin

Peroxynitrite; Preconditioning; Tyrosine kinase; Genistein (Söylemez, S. (464) 163)

U46619

Prostanoid TP receptor; Tachykinin NK₁ receptor; Emetic; Anti-emetic; Prostanoid; (*Suncus murinus*) (Kan, K.K.W. (482) 297)

U50,488H

Atrium, human; Ion channel; Opioid; K⁺ current, transient outward; K⁺ current, ultra-rapid delayed rectifier (Xiao, G.-S. (473) 97)

Ulcer

Streptozotocin; Diabetes mellitus; Cytokines; Heat shock protein; Growth factor (Harsch, I.A. (481) 249)

Ulcer healing

PPAR- γ ligand; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); Nitric oxide (NO) synthase; HSP70 (heat shock protein 70) (Konturek, P.C. (472) 213)

Ultrasonic call

Ethanol; Narcosis; Dopamine D2 receptor; Conditioned avoidance; Pharmacokinetic (Castorina, M. (477) 129)

Ultrasound

Vocalisation; Stress; Aversion; Anxiety; (Rat) (Sánchez, C. (463) 133)

Opiate; Opioid; Cocaine; Amphetamine; Withdrawal; Benzodiazepine; Alcohol; Vocalization; Distress (Covington III, H.E. (467) 1)

Ultraviolet light

Corpus cavernosum; Nitric oxide (NO); 3-Nitro-L-tyrosine; Photorelaxation (Büyükaşar, K. (459) 263)

Umbilical vein endothelial cell (Human)

Quercetin; Angiogenesis; Microvascular dermal endothelial cell (Human); Matrix metalloproteinase-2 (Tan, W.-f. (459) 255)

Diabetes mellitus; Atherosclerosis; LDL (low-density lipoprotein), glycoxidized; MCP-1 (monocyte chemoattractant protein-1); NF- κ B (nuclear factor- κ B) (Sonoki, K. (475) 139)

Unit activity

Corticotropin-releasing factor (CRF); Locus coeruleus; DMP695 (Lejeune, F. (464) 127)

Untranslated region

Angiotensin II; [Lys²]angiotensin II; Angiotensin AT₁ receptor; Tachyphylaxis; mRNA; CHO cell line (França, L.P. (476) 25)

Up-regulation

Apomorphine; cAMP-mediated signaling pathway; Receptor supersensitivity; Uptake; PET (positron emission tomography) (Schwartz, R.A. (459) 195)

Alcohol; Self-administration; NR2B subunit; Protein (Henniger, M.S.H. (470) 33)

Uptake

Apomorphine; cAMP-mediated signaling pathway; Receptor supersensitivity; Up-regulation; PET (positron emission tomography) (Schwartz, R.A. (459) 195)

Uptake blocker

DAT (dopamine transporter); Cation; Anion; Binding (Bonnet, J.-J. (479) 199)

Uptake inhibitor

Norepinephrine transporter; Gene expression; Alternative splicing; Methamphetamine (Kitayama, S. (479) 65)

Uremia

Organic anion transporter; Organic cation transporter; Proximal tubule; Indoxyl sulfate (Enomoto, A. (466) 13)

Urethra

K⁺ channel, ATP-sensitive; MCC-134; Sulphonylurea receptor; Smooth muscle (Yunoki, T. (482) 287)

Urinary bladder

β -Adrenoceptor; cAMP; Protein kinase A; Smooth muscle; Ca^{2+} channel L-type (Kobayashi, H. (470) 9)

Endothelin ET_A receptor; Endothelin ET_B receptor; Receptor autoradiography (Yoshida, A. (470) 99)

Norbormide; (Rat); Trachea; Duodenum; Ca^{2+} channel L-type (Bova, S. (470) 185)

Tachykinin; Micturition; Central nervous system (Yamamoto, T. (477) 253)

Urinary bladder, rat

β -Adrenoceptor; Diabetes; Relaxation; Streptozotocin (Kubota, Y. (467) 191)

Capsaicin; Cholinergic contraction; Purinergic contraction; Peptidergic response; Electrical field stimulation; Streptozotocin diabetes (Benkó, R. (478) 73)

Urinary excretion

Basolateral membrane; Organic anion transporter 1; Organic anion transporter 3; Phenolsulfonphthalein; Renal uptake (Itagaki, S. (475) 85)

Urinary tract infection

Nitric oxide (NO); MAP (mitogen-activated protein) kinase; NF- κ B (nuclear factor- κ B); Tyrosine kinase (Poljakovic, M. (469) 21)

Urocortin

Arterial pressure; Peripheral resistance; Cardiac output; Blood flow; Arterial conductance (Abdelrahman, A.M. (466) 317)

Urocortin 2

CRF (corticotropin-releasing factor); CRF_2 receptor antagonist; Antisauvagine-30; Cardiovascular (Mackay, K.B. (469) 111)

Ursodeoxycholic acid

Smooth muscle cell, aortic; Smooth muscle cell, coronary artery; Nitric oxide (NO) synthase; Lipopolysaccharide; Interferon- γ (Ma, J. (464) 79)

Ursolic acid

Asiatic acid; HaCaT human keratinocyte; Reactive oxygen species; Matrix metalloproteinase; p53 (Soo Lee, Y. (476) 173)

Use-dependence

Cilobradine; Zatebradine; Pacemaker current (I_p); HCN channel; (Electrophysiology) (Van Bogaert, P.P. (478) 161)

Uterus

Vasopressin; Vasopressin V_{1a} receptor; Oxytocin; Oxytocin receptor; Contraction (Kawamata, M. (472) 229)

Vacuous chewing movement

Oxidative stress; Neurodegeneration; Tardive dyskinesia; Neuroleptic; FK506; Neuroprotection (Singh, A. (477) 87)

Vagal nerve, interleukin-1 β

Pancreatitis; Ischemic preconditioning; Blood flow, pancreatic; Sensory nerve (Dembiński, A. (473) 207)

Vagal sensory nerve

Capsaicin; Nitric oxide (NO); cGMP; Ischemia; Heart, rat (Csont, T. (476) 107)

Vagus

Neuropeptide; Autonomic nervous system; Hepatic cytoprotection (Yoneda, M. (478) 173)

Vanilloid VR1 receptor

Olvanil; Capsaicin-sensitive C-fiber; Airway C-fiber; Vanilloid (Stebbins, K.J. (471) 205)

Vanilloid

Cannabinoid; Cholinergic; (Guinea-pig); Trachea (Nieri, P. (459) 75)

Vanilloid VR1 receptor; Olvanil; Capsaicin-sensitive C-fiber; Airway C-fiber (Stebbins, K.J. (471) 205)

Vanilloid VR1 receptor; Cannabinoid CB_1 receptor; Anandamide; Cannabinoid (Harrison, S. (475) 107)

Vanilloid receptor

Phoneutria nigriventer venom; Hyperalgesia; Tachykinin receptor; Excitatory amino acid receptor (Zanchet, E.M. (467) 111)

Vanilloid 1 receptor

Dorsal root ganglion; P2X receptor; Cyclophosphamide-induced cystitis (Borvendeg, S.J. (474) 71)

Vanilloid VR1 receptor

Cannabinoid CB_1 receptor; Anandamide; Vanilloid; Cannabinoid (Harrison, S. (475) 107)

Vas deferens

Opioid; Ontogenesis; Stress; Antisense oligonucleotide (Loizzo, A. (458) 201)

Bradykinin receptor; Induction; Desensitisation; (Rat) (Scott, P. (458) 319)

α_1 -Adrenoceptor; (Rat); Castration; Testosterone (Campos, M. (471) 149)

Vascular contraction

Diabetes mellitus; Diacylglycerol; Otsuka Long-Evans Tokushima Fatty (OLETF), rat; Streptozotocin (Nobe, K. (471) 195)

Vascular relaxation; Balloon injury; Antiproliferative; Restenosis (Kennedy, S. (481) 101)

Vascular endothelium

Calcitonin receptor-like receptor; CRL receptor; Rat; Immunoreactivity (Hagner, S. (481) 147)

Vascular permeability

Ethamsylate; Antioxidant; Arachidonate (Hannaert, P. (466) 207)

Vascular relaxation

Vascular contraction; Balloon injury; Antiproliferative; Restenosis (Kennedy, S. (481) 101)

Vascular smooth muscle

NF- κ B; Akt; iNOS (Hattori, Y. (481) 153)

Vascular tension

Hypertension; K^+ channel; Sympathetic system; Angiotensin AT_1 receptor; Endothelin ET_A receptor; Protein kinase C (Berg, T. (466) 301)

Vascular vessel

cGMP; Multidrug resistance protein (Mitani, A. (466) 223)

Vas deferens

Adrenomedullin; CGRP (calcitonin gene-related peptide); Binding, Receptor; Brain; Lung; BIBN4096BS; $[\text{Cys}(\text{Et})^{2,7}]$ hCGRP α ; Adrenomedullin (22–52), human; (Rat) (Juaneda, C. (474) 165)

Vas deferens, human

A-61603; Cirazoline; Oxymetazoline; Phenoxybenzamine; SZL-49; Dibenamine (Amobi, N. (462) 169)

Vas deferens, mouse

μ -Ser196Ala; Opioid receptor antagonist; μ -Opioid receptor knockout (Portoghese, P.S. (478) 207)

Vas deferens, rat

Nantenine; Aporphine; Ca^{2+} entry blocker; Fura-2; Smooth muscle (Ribeiro, R.d.A. (470) 37)

Vasoactive agent

Endothelium-dependent vasodilatation; 5-HT (5-hydroxytryptamine, serotonin); Hypoxia, intermittent; Pulmonary artery; Pulmonary hypertension (Thomas, B.J. (477) 153)

Vasoactive amine

Hyperalgesia; Allergy; Inflammation; Bradykinin (Lavich, T.R. (462) 185)

Vasoactivity

Loop diuretic; Furosemide; Resistance artery; (Human) (Pickkers, P. (466) 281)

Vasoconstriction

Angiotensin; Capacitance; Diabetes; Circulatory filling pressure, mean; Noradrenaline (Cheng, X. (458) 299)

Cerebrovascular circulation; Purine; Pyrimidine; P2Y_6 receptor (Malmsjö, M. (458) 305)

Ca^{2+} channel; Ca^{2+} entry, capacitative; Inositol 1,4,5-trisphosphate; Monensin; Smooth muscle, vascular (Wakabayashi, I. (464) 27)

Sphingosine-1-phosphate; S1P receptor; Cerebral vessel; Suramin (Salomone, S. (469) 125)

5-HT receptor; Sumatriptan; Hindlimb ischemia; SL65.0472; Ketanserin (Barbe, F. (474) 117)

NCX 4016; Hypertension; Nitric oxide (NO); cGMP; Spontaneously hypertensive rat; Tail artery (Rossoni, G. (477) 59)

Vasoconstriction, coronary

Coronary flow; Endothelium-dependent vasodilatation; Vasodilatation, coronary; Vasodilator reserve, coronary (Martínez, M.A. (473) 55)

Vasocontraction

Endotoxaemia; Lipopolysaccharide; Tail artery (Ralevic, V. (460) 145)

Vasodepression systemic

Platelet inhibition, in vivo; MAHMA NONOate; Nitric oxide (NO) donors; S-nitrosoglutathione (Homer, K.L. (482) 265)

Vasodilatation

Isoprostan; Hypercholesterolemia; TP receptor; Thromboxane (Ishizuka, T. (468) 27)

Somatostatin; Plasma extravasation; Knee joint, rat (Lam, F.F.Y. (474) 295)

Phytoestrogen; Genistein; Smooth muscle (Lee, M.Y.K. (481) 227)

Vasodilatation, coronary

Coronary flow; Endothelium-dependent vasodilatation; Vasoconstriction, coronary; Vasodilator reserve, coronary (Martínez, M.A. (473) 55)

Vasodilator

Y-27632; Rho-kinase; Monophasic action potential (Takahara, A. (460) 51)

Vasodilator reserve, coronary

Coronary flow; Endothelium-dependent vasodilatation; Vasoconstriction, coronary; Vasodilatation, coronary (Martínez, M.A. (473) 55)

Vasomotor response

Calcitonin gene-related peptide; Human; Cerebral artery; Meningeal artery (Jansen-Olesen, I. (481) 207)

Vasopressin

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; VIP (vasoactive intestinal polypeptide); Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

CRH (corticotropin-releasing hormone); Cyclooxygenase; Thromboxane A_2 synthase; Brain; Adrenaline; Noradrenaline; Plasma; Sympathetic nerve; Adrenal gland (Okada, S. (467) 125)

CDP-choline; Choline; Cytidine; Haemorrhagic shock; Catecholamine (Savci, V. (468) 129)

Diabetes; Gender; Renal artery; Coronary artery; K^+ channel (Sanz, E. (471) 35)

Vasopressin V_{1a} receptor; Oxytocin; Oxytocin receptor; Contraction; Uterus (Kawamata, M. (472) 229)

Vasopressin V_{1a} receptor

Vasopressin; Oxytocin; Oxytocin receptor; Contraction; Uterus (Kawamata, M. (472) 229)

Vasopressor

Sepsis; Steroid; Hemodynamic; Nitric oxide (NO) (Mansart, A. (475) 61)

Vasorelaxation

Testosterone; K^+ channel; Prostanoid; Ca^{2+} influx (Tep-areenan, P. (465) 125)

Caesalpinia sappan L.; Brazilin; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca^{2+} influx (Hu, C.M. (468) 37)

19-Nor-steroid; Norethisterone; Progestin, synthetic; Hormone replacement therapy (Perusquia, M. (475) 161)

17 β -Oestradiol; K^+ channel; Ca^{2+} influx (Tep-areenan, P. (476) 139)

VCAM-1 (vascular cell adhesion molecule)

Dexamethasone; Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); Sephadex bead; TNF- α (tumor necrosis factor- α) (Ito, A. (468) 59)

V79 cell

Crotonin; Semi-synthetic; Cytotoxicity; Hepatocyte toxicity; Gastric ulcer (Albino de Almeida, A.B. (472) 205)

VEGF (vascular endothelial growth factor)

Cyclooxygenase-2; Celecoxib; Diabetes (Ayalaomayajula, S.P. (458) 283)

KR-31372; K^+ channel opener, ATP-sensitive; p125^{FAK} ; KDR/Flk-1; Endothelial cell, umbilical vein, human (Kim, K.Y. (465) 219)

Venous tone

Apelin; Arterial pressure, mean; Circulatory filling pressure, mean; Capacitance vessel; Ganglionic blockade (Cheng, X. (470) 171)

Ventral subiculum

Microdialysis; Muscarinic receptor; Nucleus accumbens; Dopamine; (Rat) (Moss, S. (460) 117)

Ventral tegmental area

Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Conditioned place preference; (Rat) (Gholami, A. (458) 119)

5-HT_{1B} receptor; Cocaine; CP 93129; GR 55562; Discriminative stimulus effect (Filip, M. (459) 239)

Dopamine; Kainic acid; 6-OHDA (6-hydroxydopamine); Memory; Substantia nigra (Hefco, V. (475) 55)

Mesolimbic; Synaptic transmission; Electrophysiology; Drug addiction (Mathon, D.S. (480) 97)

Nicotine; Addiction; Nucleus accumbens; Acetylcholine; Dopamine (Mansvelder, H.D. (480) 117)

Ventrolateral striatum

Jaw movement; Superior colliculus; GABA_A receptor; Dopamine receptor; Acetylcholine receptor; (Rat) (Adachi, K. (464) 147)

Verapamil

Morphine; Locomotor activity; Behavioral sensitization; Nifedipine; Nimodipine (Zhang, Q. (467) 145)

Veratridine

Striatum; Dopamine release; Neomycin; ω -Conotoxin; ω -Agatoxin-IVA (Dobrev, D. (461) 105)

Vesicle function

Pramipexole; Vesicular monoamine transporter; Parkinson's disease; Eticlopride (Truong, J.G. (474) 223)

Vesicular monoamine transporter

Pramipexole; Parkinson's disease; Vesicle function; Eticlopride (Truong, J.G. (474) 223)

Amphetamine; Methylphenidate; Cocaine (Fleckenstein, A.E. (479) 283)

VIP (vasoactive intestinal polypeptide)

Stress; CRF (corticotropin-releasing factor); ACTH (adrenocorticotropin hormone); Corticosterone; Vasopressin; Oxytocin; 5-HT (5-hydroxytryptamine, serotonin); Substance P; Neuropeptide Y; Amygdala; Hypothalamus (Carrasco, G.A. (463) 235)

Visceral obesity

Autonomic nervous system; Hypothalamus; Circadian rhythm; Metabolic syndrome; Diabetes; Hypertension (Kreier, F. (480) 51)

VLDL (very-low-density lipoprotein) particle production

Sterol synthesis; Fatty acid synthesis; HMG-CoA reductase; Acetyl-CoA carboxylase; VLDL (very low density lipoprotein) secretion (Ohmori, K. (471) 69)

VLDL (very low density lipoprotein) secretion

VLDL (very-low-density lipoprotein) particle production; Sterol synthesis; Fatty acid synthesis; HMG-CoA reductase; Acetyl-CoA carboxylase (Ohmori, K. (471) 69)

VMAT-2

Dopamine; Methamphetamine; (Mouse) (Ugarte, Y.V. (472) 165)

Vocalisation

Stress; Aversion; Anxiety; Ultrasound; (Rat) (Sánchez, C. (463) 133)

Vocalization

Opiate; Opioid; Cocaine; Amphetamine; Withdrawal; Benzodiazepine; Alcohol; Ultrasound; Distress (Covington III, H.E. (467) 1)

Vogel conflict test

Baicalein; Baicalin; Anxiolytic-like effect; Chlordiazepoxide; Flumazenil (Liao, J.-F. (464) 141)

Anxiety; Anxiolytic effect; Levetiracetam; Antiepileptic; Chlordiazepoxide (Lamberty, Y. (469) 97)

Voltage clamp

ATP receptor; Oocyte; Antagonist; Whole cell; NF449 (4,4',4'',4'''-(carbonylbis(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid) (Hülsmann, M. (470) 1)

Voltage clamp, two-electrode

Ginkgo biloba; Bilobalide; Picrotoxinin; Bicuculline; GABA_A receptor; *Xenopus* oocyte (Huang, S.H. (464) 1)

Voltammetry

Cocaine; Dopamine; DAT (dopamine transporter); Release; Diffusion (Greco, P.G. (479) 117)

Voltammetry, in vivo

Dopamine overflow; L-3,4-dihydroxyphenylalanine (L-DOPA); Atipamezole; Storage pool, readily releasable; Caudate nucleus; Nucleus accumbens (Yavich, L. (462) 83)

Voltammetry, rotating disk

Dopamine transport; Arachidonic acid; Fatty acid; Eicosanoid (Chen, N. (478) 89)

Volume-sensitive organic osmolyte/anion channel

Taurine efflux, osmosensitive; Cell cycle progression; Antihistamine, second-generation, non-sedating; Tricyclic antidepressant (Belsey, M.J. (474) 185)

Vomiting

Locomotor activity; CP55,940; SR141716A; Cannabinoid CB₁ receptor; (Least shrew); G-protein; Potency; Efficacy (Darmani, N.A. (459) 83)

von Frey monofilament

Spinal cord; Cannabinoid CB₁ receptor; Carrageenan inflammation; Dorsal horn neurone; Cannabinoid CB₁ receptor agonist, selective (Kelly, S. (474) 209)

Wakefulness

Insomnia; Sleep latency; Non-rapid eye movement (non-REM) sleep; Rapid eye movement (REM) sleep; Short-acting hypnotic (Shinomiya, K. (460) 139)

Water intake

Drinking; α_1 -Adrenoceptor; Muscarine cholinergic; (Rat) (Oryan, S. (477) 123)

Drinking; Histamine system; Morphine; Naloxone; (rat) (Eidi, M. (478) 105)

WAY 100635

Marmoset, monkey; Figure-eight maze; Taxidermized predator (Barros, M. (482) 197)

WB 4101

α_{1D} -Adrenoceptor subtype; Chloroethylclonidine; Pulmonary artery; Pulmonary hypertension (Oriowo, M.A. (482) 255)

Wf-536

Angiogenesis; Endothelial cell; Invasion; Migration; Tumor metastasis (Nakajima, M. (459) 113)

WHHL, rabbit

TAK-475; Squalene synthase inhibitor; Hypercholesterolemia, familial; LDL receptor knockout, mouse (Amano, Y. (466) 155)

Whole cell

ATP receptor; Oocyte; Antagonist; Voltage clamp; NF449 (4,4',4'',4'''-(carbonylbis(imino-5,1,3-benzenetriylbis(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid) (Hülsmann, M. (470) 1)

Whole-cell recording

Antifertility compound; (*Tripterygium wilfordii* Hook. f.); Ca^{2+} -channel; Acrosome reaction; Spermatogenic cell; (Mouse) (Bai, J.-P. (464) 9)

WIN 55,512-2

Cannabinoid receptor; Mast cell; Histamine release, anti-IgE-induced; Anandamide; Palmitoylethanolamide (Lau, A.H.Y. (464) 229)

WIN 55212-2

Antitussive effect; Cough; cannabinoid CB_1 receptor; SR141716A (Morita, K. (474) 269)

NANC (Non-adrenergic non-cholinergic) inhibitory; Cannabinoid; Trachea; (Guinea-pig); Nitric oxide (NO) (Nieri, P. (475) 115)

Wind-up

Pain; Analgesia; Spinal cord; Opioid; Nonsteroidal anti-inflammatory drug (Gaitán, G. (481) 181)

(Wistar–Kyoto rat)

Histamine; Pulmonary artery; Nitric oxide (NO); Spontaneously hypertensive, rat (Lau, W.H. (470) 45)

Wistar–Kyoto, rat (WKY)

Acetylcholine; Pulmonary artery; Na^+/H^+ exchanger; Spontaneously hypertensive, rat (SHR) (Chau, W.H. (464) 177)

Acidosis, intracellular; Aorta; pH, acidic; Spontaneously hypertensive rat (SHR) (Rohra, D.K. (465) 141)

Withdrawal

Dermorphin; TAPS (Tyr-D-Arg²-Phe-Sar⁴); Tetrapeptide; Antinociception; Tolerance (Vonhof, S. (459) 41)

Opiate; Opioid; Cocaine; Amphetamine; Benzodiazepine; Alcohol; Vocalization; Ultrasound; Distress (Covington III, H.E. (467) 1)

working

Adenosine A_3 receptor; Ischaemia; Hypoxia; Stunning; Heart, isolated; Papillary muscle; Atrium; Cardioprotection (Maddock, H.L. (477) 235)

Xenopus oocyte

Ginkgo biloba; Bilobalide; PicROTOXININ; Bicuculline; GABA_A receptor; Voltage clamp, two-electrode (Huang, S.H. (464) 1)

Ginseng; Ginsenoside; Protein kinase C; K^+ channel; G protein-coupled inwardly rectifying (Choi, S. (468) 83)

ATP; P2X receptor; Site-directed mutagenesis; Cysteine (Nakazawa, K. (474) 205)

Y-27632

Vasodilator; Rho-kinase; Monophasic action potential (Takahara, A. (460) 51)

Corpus cavernosum; Diabetes; Erectile dysfunction; Fasudil; Rho-kinase (Büyükaşar, K. (472) 235)

YC-1

Guanylate cyclase; Nitric oxide (NO); Apomorphine; Penile erection; Corpus cavernosum (Hsieh, G.C. (458) 183)

YM872

Intracerebral, hemorrhage; Hematoma; Neurological deficit; AMPA receptor antagonist (Terai, K. (467) 95)

Glucose output, hepatic; Gluconeogenesis; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; Glucose, blood (Kurosaki, E. (468) 151)

Antagonist; Endothelin ET_A receptor (Yuyama, H. (478) 61)

Yohimbine

Antinociception; Lewis rat; F344 rat; Morphine; Clonidine (Herradón, G. (465) 251)

Zatebradine

Cilobradine; Pacemaker current (I_f); Use-dependence; HCN channel; (Electrophysiology) (Van Bogaert, P.P. (478) 161)

Zelandopam

Renal failure, acute; Cisplatin; Dopamine D_1 receptor (Yatsu, T. (461) 191)

Zinc neuromodulation

P2X₄ purinoceptor; ATP purinoceptor; Copper neuromodulation; Desensitized purinoceptor; Metal chelator; Metal neuromodulation (Coddou, C. (472) 49)

Zinquin

Metallothionein; Zn^{2+} trafficking; Transition element; Mitochondrion; Cultured cell; Fluorescence microscopy; (Rat) (Colvin, R.A. (479) 171)

ZM 241385

Adenosine; Cerebral blood flow; Hypercapnia; Nitric oxide (NO) (Phillis, J.W. (476) 211)

 Zn^{2+} -site engineering

DAT (dopamine transporter); Structure; Conformational change; Cocaine affinity (Loland, C.J. (479) 187)

 Zn^{2+} trafficking

Metallothionein; Transition element; Zinquin; Mitochondrion; Cultured cell; Fluorescence microscopy; (Rat) (Colvin, R.A. (479) 171)

Zolpidem

Cross-tolerance; Ethanol; Flunitrazepam; GABA_A receptor; Gaboxadol; THIP; Hypnotic; Rotarod; Indiplon (Voss, J. (482) 215)

Zona fasciculata–reticularis cell

Bromocriptine; Corticosterone; Adenylyl cyclase; Cytochrome P450_{scc}; StAR protein (Kan, S.-F. (468) 141)

Zotepine

Clozapine; Schizophrenia; Glutamate; Dizocilpine (MK-801); (Rat)
(Okamura, N. (461) 93)

Zucker fatty rat

Nicotine; Insulin resistance; Obesity; Glycogen (Liu, R.-H. (458) 227)

Zucker rat

Blood pressure; Mesenteric artery; Aorta; Noradrenaline; Endothelin-1;
Endothelium (Subramanian, R. (477) 143)

Zymography

Cilomilast; Phosphodiesterase 4 inhibitor; Dendritic cell; Skin, mouse;
Matrix metalloproteinase 9; Toluene-2,4-diisocyanate (Bäumer, W. (481)
271)

Zymosan-injected mouse air pouch

Chalcones; Nitric oxide (NO); Prostaglandin E₂; RAW 264.7; Adjuvant-
induced arthritis (Rojas, J. (465) 183)