

Master keyword index to volumes 434–457 (2002)

Abstinence syndrome

Acamprosate; Morphine antinociception; Morphine dependence (Sepúlveda, J. (445) 87)

ABT-866

Adrenoceptor; α_{1A} -Adrenoceptor agonist; $\alpha_{1B/D}$ -Adrenoceptor antagonist; Urethra; Phenylpropanolamine; Midodrine; ST-1059 (Buckner, S.A. (449) 159)

Acamprosate

Microdialysis; Nucleus accumbens; Dopamine; Homotaurine; Ethanol (Olive, M.F. (437) 55)

Memory, Social; Polyamines; Ifenprodil (Mikolajczak, P. (444) 83)

Morphine antinociception; Morphine dependence; Abstinence syndrome (Sepúlveda, J. (445) 87)

Acarbose

Intestinal glucose transport; SGLT1; GLUT1; GLUT2; Diabetes mellitus (Paiva, L. (434) 197)

Zucker rat; GLUT4 trafficking; Insulin resistance (Ledwig, D. (445) 141)

A549 cell

Lipoteichoic acid; Cyclooxygenase-2; p44/42 mitogen-activated protein kinase (MAPK); p38 MAPK (Lin, C.-H. (450) 1)

Acetylcholine

Pulmonary artery, rat; Muscarinic M_3 receptor; Nitric oxide (NO); MAP (mitogen-activated protein) kinase (Choy, W.Y. (434) 55)

Sephadex; Airway hyperreactivity; Neurokinin A; Substance P; Tachykinin receptor; Nepadutant; MEN 11467; Inflammatory cell (Tramontana, M. (439) 149)

Hyperglycemia; Microcirculation; Streptozotocin; Sodium nitroprusside; Nitric oxide; Diabetes mellitus (van Dam, B. (455) 43)

Acetylcholine receptor

Muscle relaxant; Interaction; Isobologram; Potency; *Xenopus* oocyte (Paul, M. (438) 35)

Jaw movement; Ventrolateral striatum; Striatal collateralised output pathway; Dopamine receptor; GABA_A receptor; (Rat) (Adachi, K. (442) 81)

Acetylcholine release

Orexin-A; Orexin-1 receptor; SB-334867-A; Tetrodotoxin (Matsuo, K. (452) 105)
Adenosine; A_{2A} receptor; Hippocampus; Nerve terminal; Synaptosome (Rebola, N. (454) 31)

Allosteric modulation; PD 81,723; Adenosine A₁ receptor; Microdialysis; Striatum (Bueters, T.J.H. (454) 177)

Acetylcholinesterase inhibitor

EEG (electroencephalogram); Neocortex; Monoamine oxidase inhibitor; 5-HT receptor agonist; Scopolamine; Forebrain basal; (Rat) (Dringenberg, H.C. (447) 43)

Acetylcholinesterase isoform

Hyperzine A; Tacrine; Donepezil; Rivastigmine; Physostigmine; Alzheimer's disease; (Rat) (Zhao, Q. (455) 101)

Acetylsalicylic acid

Metalloproteinase; Adenocarcinoma (Karna, E. (443) 1)

Acid extrusion

Microphysiometer; P2Y purinoceptor; Na⁺/H⁺ exchanger (Okada, Y. (455) 19)

Acidic pH

Acidic pH-induced contraction; Spontaneously hypertensive rat; Wistar Kyoto rat; Cl[−] channel; Ca²⁺ channel, voltage-dependent (Rohra, D.K. (453) 279)

Acidic pH-induced contraction

Acidic pH; Spontaneously hypertensive rat; Wistar Kyoto rat; Cl[−] channel; Ca²⁺ channel, voltage-dependent (Rohra, D.K. (453) 279)

Acidosis, intracellular

Ventricle, human; Electrophysiology; Contractile force; Fluorescent; Oxygen free radical; Antioxidant; Cardioprotective agent (Loh, S.-H. (443) 169)

Aconiti tuber

Mesaconitine; Aorta; Vasorelaxation; Nitric oxide (No); (*Aconitum japonicum*); (Rat) (Mitamura, M. (436) 217)

(*Aconitum japonicum*)

Mesaconitine; Aorta; Vasorelaxation; Nitric oxide (No); Aconiti tuber; (Rat) (Mitamura, M. (436) 217)

ACRP30 (adipocyte complement-related protein of 30 kDa)

AdipoQ; Adiponectin; Obesity; Diabetes; Insulin resistance; Lipid metabolism; Glucose metabolism (Tsao, T.-S. (440) 213))

ACTH (adrenocorticotrophic hormone)

Stress-induced hyperthermia; Anxiolytic; Benzodiazepine; Buspirone; Tachykinin; mGlu₅ receptor antagonist; mGlu₂ receptor agonist; Corticosterone; (Spooren, W.P.J.M. (435) 161)

Melanocortins; Melanocortin receptor; Neuropeptide; AgRP (agouti-related protein); POMC (proopiomelanocortin); Energy homeostasis; Obesity; Sexual function (MacNeil, D.J. (440) 141)

CRF receptor; CRA1000; Immobilization stress; Corticosterone (Ohata, H. (457) 201)

Actin

Angiotensin II; Angiotensin AT₁ receptor; Mesothelial cell; Pleura; Pertussis toxin; Protein kinase C; Tyrosine kinase (Kuwahara, M. (436) 15)

Action potential

Risperidone; Transient outward current; Delayed rectifier current; Inward rectifier current; Heart, rabbit (Gluais, P. (444) 123)

Active efflux

P-glycoprotein; MRP (multidrug resistance-associated protein); Glutathione; Taxol; PSC-833; Verapamil; MDR1 (Crowe, A. (440) 7)

Acute respiratory distress syndrome

Partial liquid ventilation; Aerosol; Selectin; ICAM-1 (intercellular adhesion molecule-1) (Schoof, E. (457) 195)

Acyl-CoA cholesterol acyltransferase

Avasimibe; Atorvastatin; Hydroxymethyl glutaryl-CoA reductase; Macrophage; Cholesteryl ester (Llaverias, G. (451) 11)

Adaptation

Noradrenaline plasma; Adrenaline; Catecholamine ratio; Ethanol tolerance; Ethanol dependence; Ethanol withdrawal (Kovács, G.L. (448) 151)

Adaptive gastroprotection

Sodium salicylate; Cyclooxygenase-2; Gastric mucosal damage; Ischaemia–reperfusion; Nitric oxide (NO) (Peskar, B.M. (434) 65)

Addiction

NMDA receptor; Naloxone; MK-801 (Yeh, G.-C. (453) 197)

Adenocarcinoma

Acetylsalicylic acid; Metalloproteinase (Karna, E. (443) 1)

Adenosine

Vas deferens, rat; ATP; Smooth muscle relaxation; P2 receptor; Adenosine A₂ receptor; *Ecto*-protein kinase (Bültmann, R. (436) 135)

Adenosine A_{2A} receptor; Hippocampus; Acetylcholine release; Nerve terminal; Synaptosome (Rebola, N. (454) 31)

KF24345; Uptake inhibition; Pancreatitis acute; Mortality; TNF- α (tumor necrosis factor- α) (Noji, T. (454) 85)

KF24345; Glomerulonephritis (Noji, T. (449) 293)

Preconditioning, delay; Myocardial infarction; Nitric oxide (NO) donor (Lellouche, N. (450) 179)

Bronchconstriction; Histamine; Leukotriene; Cyclooxygenase product (Martin, T.J. (451) 89)

Adenosine A₂ receptor

Vas deferens, rat; ATP; Adenosine; Smooth muscle relaxation; P2 receptor; *Ecto*-protein kinase (Bültmann, R. (436) 135)

Adenosine A_{2A} receptor

Allergic pulmonary inflammation; Brown Norway rat; Ovalbumin; CGS 21680; ZM 243185 (Fozard, J.R. (438) 183)

Adenosine A₁ receptor; Adenosine A_{2B} receptor; Noradrenaline; Vas deferens, rat; Distribution; Differential (Queiroz, G. (448) 45)

Striatum; Hippocampus; Quinolinic acid; Neuroprotection (Tebano, M.T. (450) 253)

Patch-clamp, whole-cell; NMDA receptor; Striatum (Gerevich, Z. (451) 161)

A_{2A} receptor

Adenosine; Hippocampus; Acetylcholine release; Nerve terminal; Synaptosome (Rebola, N. (454) 31)

Adenosine A_{2A} receptor mRNA

Adenosine, extracellular level; 6-Hydroxydopamine-lesion; Microdialysis; Striatum (Pinna, A. (446) 75)

Adenosine A_{2B} receptor

Adenosine A₁ receptor; Adenosine A_{2A} receptor; Noradrenaline; Vas deferens, rat; Distribution; Differential (Queiroz, G. (448) 45)

Adenosine A₁ receptor

Allosteric modulation; PD 81,723; Acetylcholine release; Microdialysis; Striatum (Bueters, T.J.H. (454) 177)

Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Noradrenaline; Vas deferens, rat; Distribution; Differential (Queiroz, G. (448) 45)

Adenosine A₁ receptor agonist; Allosteric; Modulation; Temperature dependence; Binding thermodynamics (Dalpiaz, A. (448) 123)

Cortex, posterior cingulate; Short-term memory; Long-term memory (Pereira, G.S. (437) 151)

Adenosine A₃ receptor

KF26777 (2-(4-bromophenyl)-7,8-dihydro-4-propyl-1*H*-imidazo[2,1-*i*]purin-5(4*H*)-one dihydrochloride); Binding assay; Ca²⁺; Guanine nucleotide (Saki, M. (444) 133)

Adenosine derivative

Purine; cAMP; Phospholipase C; Guanine nucleotide (Gao, Z.-g. (443) 39)

Adenosine-5'-diphosphate

Atisine-type diterpene alkaloid; Platelet aggregation; Arachidonic acid; PAF (platelet-activating factor); Structure–activity relationship (Li, L. (449) 23)

Adenosine, extracellular level

6-Hydroxydopamine-lesion; Microdialysis; Adenosine A_{2A} receptor mRNA; Striatum (Pinna, A. (446) 75)

Adenosine receptor

Adenosine receptor agonist; Ca²⁺; cAMP; Glycogenolysis; Gluconeogenesis (González-Benítez, E. (437) 105)

2-Cl-IB-MECA; Histamine; Pyrilamine; Cytokine modulation (Smith, S.R. (457) 57)

K⁺-evoked release; Substance P; CGRP (calcitonin gene-related peptide); Cholecystokinin; Spinal cord; Rat (Mauborgne, A. (441) 47)

Cardiomyocyte; Cell culture; Electrophysiology; Cell contraction; Simulated ischemia-reperfusion; (Rat) (Bès, S. (452) 145)

Adenosine receptor antagonist

Adenosine receptor; Ca²⁺; cAMP; Glycogenolysis; Gluconeogenesis (González-Benítez, E. (437) 105)

Hypertension; 6-Hydroxydopamine; Angiotensin converting enzyme inhibition; Trophic effect (Sousa, T. (441) 99)

Adenosine receptors blockade

Hypertension; Angiotensin II; Vascular reactivity (Morato, M. (455) 135)

Adenylate cyclase

SR141716A; Inverse agonism; Cannabinoid system (Mato, S. (443) 43)

Adenylyl cyclase

G protein-coupled receptor kinase; Cystic fibrosis; Lung; Gene expression (Mak, J.C.W. (436) 165)

Adenylyl cyclase

β -Adrenoceptor agonist; cAMP; SQ 22536; Smooth muscle, vascular; Pulmonary vein (Gao, Y. (436) 227)

Adenylyl cyclase superactivation

δ -Opioid receptor, human; Raf-1 (Varga, E.V. (451) 101)

Adhesion

Chymase; Mast cell; Chymase inhibitor (Okamoto, Y. (435) 265)

Adhesive interaction

Inflammation; Polymorphonuclear leukocyte, human; 5-Lipoxygenase; Cyclooxygenase; Transcellular metabolism (Rotondo, S. (453) 131)

Adipogenesis

PPAR (peroxisome proliferator activated receptor); Fibrate; Thiazolidinedione; Steatosis; Lipogenesis; Nuclear hormone receptor; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

Adiponectin

ACRP30 (adipocyte complement-related protein of 30 kDa); AdipoQ; Obesity; Diabetes; Insulin resistance; Lipid metabolism; Glucose metabolism (Tsao, T.-S. (440) 213)

AdipoQ

ACRP30 (adipocyte complement-related protein of 30 kDa); Adiponectin; Obesity; Diabetes; Insulin resistance; Lipid metabolism; Glucose metabolism (Tsao, T.-S. (440) 213)

Adipostat

Leptin; Hypothalamus; Obesity; Appetite; Satiety (Larsen, P.J. (440) 159)

Adjuvant arthritis

Opioid peptide; Opioid receptor; Inflammation; Pain, chronic; Central nervous system (Spetea, M. (435) 245)

Adolescence

MDMA (3,4-methylenedioxymethamphetamine); Behaviour; 5-HT (5-hydroxytryptamine, serotonin); Long-term effect; (Mouse) (Morley-Fletcher, S. (448) 31)

Adrenal chromaffin cell

Neurosteroid; Pregnenolone sulfate; Nicotinic acetylcholine receptor; Catecholamine secretion (Kudo, K. (456) 19)

Adrenal gland

Nicotine; Adrenaline; Noradrenaline; (Rat); Nicotinic receptor (Yokotani, K. (446) 83)

Adrenal gland, rat

PACAP (pituitary adenylate cyclase-activating polypeptide); Small-conductance Ca^{2+} -activated K^{+} (SK_{Ca}) channel; Large-conductance Ca^{2+} -activated K^{+} (SK_{Ca}) channel; Catecholamine secretion (Fukushima, Y. (437) 69)

Adrenaline

β -Adrenoceptor agonist; Enantiomer; Asthma; Bronchodilation (Waldeck, B. (445) 1)

Nicotine; Noradrenaline; Adrenal gland; (Rat); Nicotinic receptor (Yokotani, K. (446) 83)

Noradrenaline plasma; Catecholamine ratio; Ethanol tolerance; Ethanol dependence; Ethanol withdrawal; Adaptation (Kovács, G.L. (448) 151)

Prostaglandin E_2 ; Thromboxane A_2 ; Brain; Noradrenaline; Plasma; Sympathetic outflow; Adrenomedullary outflow (Murakami, Y. (452) 289)

Adrenaline, plasma

Vasopressin; Cyclooxygenase, brain; Vasopressin $\text{V}_{1\text{A}}$ receptor, brain; Noradrenaline, plasma; Sympatho-adrenomedullary outflow (Okada, S. (457) 29)

Adrenergic system

Blood pressure; Vascular tension; K^{+} channel; 4-Aminopyridine (Berg, T. (452) 325)

Adrenoceptor

$\alpha_{1\text{A}}$ -Adrenoceptor agonist; $\alpha_{1\text{B/D}}$ -Adrenoceptor antagonist; Urethra; ABT-866; Phenylpropanolamine; Midodrine; ST-1059 (Buckner, S.A. (449) 159)

 α_1 -Adrenoceptor

(+)-Boldine; α_2 -Adrenoceptor; Subtype; Selectivity; Functional experiment; Radioligand binding study; Ca^{2+} channel antagonism; Cardiac effect (Eltze, M. (443) 151)

Mesenteric blood vessel; Vascular conductance; Blood flow; Ca^{2+} -activated, Cl^{-} channel (Parai, K. (448) 59)

($\pm$)-Nantenine derivatives; Aorta, rat (Indra, B. (437) 173)

Dopamine; Norepinephrine; Cocaine; Prazosin; Hypophagia; Hyperlocomotion; (Rat) (Wellman, P. (455) 117)

 α_2 -Adrenoceptor

(+)-Boldine; α_1 -Adrenoceptor; Subtype; Selectivity; Functional experiment; Radioligand binding study; Ca^{2+} channel antagonism; Cardiac effect (Eltze, M. (443) 151)

Sympathetic nerve activity; Blood pressure; Rostral ventrolateral medulla; Clonidine; Methoxy-idazoxan (Vayssettes-Courchay, C. (453) 287)

KU14R; Efaroxan; Imidazoline; Insulin; Glucose, blood (Mayer, G. (454) 95)

(Mouse, anaesthetised); $\alpha_{2\text{A/D}}$ -Adrenoceptor knockout; MDMA (methylenedioxymethamphetamine) (Vandeputte, C. (457) 45)

 α -Adrenoceptor agent

Passive avoidance learning; Histaminergic agent; (Rat) (Zarrindast, M.-R. (454) 193)

 $\alpha_{1\text{A}}$ -Adrenoceptor agonist

Adrenoceptor; $\alpha_{1\text{B/D}}$ -Adrenoceptor antagonist; Urethra; ABT-866; Phenylpropanolamine; Midodrine; ST-1059 (Buckner, S.A. (449) 159)

 α_1 -Adrenoceptor antagonist

α_1 -Adrenoceptor subtype; Hyperplastic prostate, human (Chueh, S.-C. (445) 125)

 β -Adrenoceptor agonist

Adenylyl cyclase; cAMP; SQ 22536; Smooth muscle; Vascular; Pulmonary vein (Gao, V.A. (436) 227)

 $\alpha_{1\text{B/D}}$ -Adrenoceptor antagonist

Adrenoceptor; $\alpha_{1\text{A}}$ -Adrenoceptor agonist; Urethra; ABT-866; Phenylpropanolamine; Midodrine; ST-1059 (Buckner, S.A. (449) 159)

α_{1D} -Adrenoceptor antagonist

Adrenoceptor subtype; ($\pm$)-Domesticine; BMY-7378 (Indra, B. (445) 21)

 α_{1H} -Adrenoceptor

α_{1L} -Adrenoceptor; Bronchial asthma; Leukotriene C₄; Asthmatic response, immediate (Nobata, K. (452) 97)

 α_{1L} -Adrenoceptor

α_{1H} -Adrenoceptor; Bronchial asthma; Leukotriene C₄; Asthmatic response, immediate (Nobata, K. (452) 97)

[¹¹C]RN5; PET (positron emission tomography); Biodistribution (Matarese, M. (453) 231)

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

(Mouse, anaesthetised); α_2 -Adrenoceptor; MDMA (methylenedioxymethamphetamine) (Vandeputte, C. (457) 45)

 α_1 -Adrenoceptor mRNA

α_1 -Adrenoceptor subtype; Brain, rat; [³H]Prazosin binding; Imipramine; Electroconvulsive shock (Nalepa, I. (444) 151)

 α_1 -Adrenoceptor stimulation

QT interval; K⁺ channel blocker; Proarrhythmia; Torsade de pointes; Clofilium; Erythromycin; Terikalant (Farkas, A. (449) 143)

 α_2 -Adrenoceptor stimulation

Opioid, endogenous; Insulin release; μ -Opioid receptor (García-Barrado, M.J. (448) 95)

Adrenoceptor subtype

α_{1D} -Adrenoceptor antagonist; ($\pm$)-Domesticine; BMY-7378 (Indra, B. (445) 21)

 α -Adrenoceptor subtype

Laser-Doppler flowmetry; Ultrasonic flowmetry; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Lingual artery; Phenolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

 α_1 -Adrenoceptor subtype

Iliac artery; Mouse; Noradrenaline (Shibano, M. (456) 77)

Brain, rat; [³H]Prazosin binding; Imipramine; Electroconvulsive shock; α_1 -Adrenoceptor mRNA (Nalepa, I. (444) 151)

α_1 -Adrenoceptor antagonist; Hyperplastic prostate, human (Chueh, S.-C. (445) 125)

 α_1 -Adrenoceptor, vascular

NAN-190; Hypotension; Rat, anaesthetized; Rat, pithed (Villalobos-Molina, R. (455) 59)

 α -Adrenoceptor

Spare receptor; Receptor reserve; Prostate; Benign prostate hyperplasia (Thiyagarajan, M. (453) 335)

Adrenomedullary outflow

Prostaglandin E₂; Thromboxane A₂; Brain; Noradrenaline; Adrenaline; Plasma; Sympathetic outflow (Murakami, Y. (452) 289)

Adrenomedullin

Hypoxia; Oxidative stress; Cardiomyocyte (Yoshihara, F. (436) 1)

Aerosol; Lung fibrosis; TGF- β_1 (transforming growth factor- β_1); Interleukin-1 β (von der Hardt, K. (457) 71)

Kidney, rat; Vasodilation; Nitric oxide (NO); EDHF (endothelium-derived hyperpolarizing factor) (Wangenstein, R. (444) 97)

CGRP (calcitonin gene-related peptide); CRL (Calcitonin receptor-like) receptor; RAMP (Receptor activity-modifying protein); α -CGRP-(8–37); cAMP (Nagoshi, Y. (450) 237)

Advanced

Glycosylation end product; Cyclooxygenase-2; p38 MAP (mitogen activated protein) kinase; RAW 264.7 cell (Lin, C.-H. (438) 143)

Aerosol

Adrenomedullin; Lung fibrosis; TGF- β_1 (transforming growth factor- β_1); Interleukin-1 β (von der Hardt, K. (457) 71)

Partial liquid ventilation; Acute respiratory distress syndrome; Selectin; ICAM-1 (intercellular adhesion molecule-1) (Schoof, E. (457) 195)

Affective disorder

Renin–angiotensin system; Cognition; Memory (Gard, P.R. (438) 1)

Cognition; Glutamate receptor; Nootropic (Knapp, R.J. (440) 27)

Afferent fibre

Leptin; Vagus nerve; Cholecystokinin; Pancreatic secretion (Guilmeau, S. (447) 99)

Affinity binding site

Cholecystokinin; Diabetes; Pancreas (Kuntz, E. (448) 253)

Afterdepolarization, early

APD (action potential duration); Triangulation; Purkinje fiber, Rabbit; Long QT syndrome (Lu, H.R. (452) 183)

Afterhyperpolarization

K⁺ channel; Ca²⁺; SK channel; Dequalinium; Neuron (Cao, Y.-J. (449) 47)

Aging

CGRP (calcitonin gene-related peptide); Blood pressure; Gender; Ovariectomy; Artery (Chan, G.H.H. (434) 133)

Angiotensin; Blood pressure; Heart rate; Ketanserin; Reflex bradycardia; Urapidil (Buñag, R.D. (435) 85)

Diabetes mellitus; Brain; Dementia; Pathogenesis (Biessels, G.J. (441) 1)

Gastric ulcer; Cimetidine; Omeprazole; (Rat) (Ishihara, M. (444) 209)

Caffeine; Ryanodine; Thapsigargin; Excitotoxicity; Endoplasmic reticulum; Ca²⁺ imaging (Clodfelter, G.V. (447) 189)

Methamphetamine; Tolerance; Hyperthermia; Striatum; Dopamine transporter (Riddle, E.L. (435) 181)

Agmatine

Imidazoline; Exocytosis; G protein; Mastoparan; Mast cell (Ferry, X. (435) 19)

AgRP (agouti-related protein)

Melanocortins; Melanocortin receptor; Neuropeptide; ACTH (adrenocorticotrophic hormone); POMC (proopiomelanocortin); Energy homeostasis; Obesity; Sexual function (MacNeil, D.J. (440) 141)

Air pouch, mouse

Pyrroloquinazoline; Eicosanoid; Cyclo-oxygenase-2; Carrageenan paw oedema; Analgesia (Rioja, I. (434) 177)

Airway hyperreactivity

Sephadex; Neurokinin A; Substance P; Tachykinin receptor; Nepadutant; MEN 11467; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Airway inflammation

Bronchial hyperresponsiveness; Rapamycin; IMM125; SAR943; Budesonide; Th1 cytokine; Th2 cytokine (Huang, T.-J. (437) 187)

Leukotriene receptor antagonist; CysLT receptor; Leukotriene D₄; Asthma; Bronchoconstriction (Cabr , F. (451) 317)

Nitric oxide (NO); Nitric oxide (NO) synthase 2; Bronchial hyperresponsiveness; SC-51 (Eynott, P.R. (452) 123)

Airway reactivity

Chemiluminescence count; Inflammatory cell; Tachykinin (Lai, Y.-L. (452) 229)

AJW200

Von Willebrand factor (vWF); Platelet; Thrombosis; Bleeding time (Kageyama, S. (443) 143)

Akt

 -Amyloid; Alzheimer's disease; MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide); Long-term potentiation; Hippocampus; RS-0466 (Nakagami, Y. (457) 11)

Alcohol

Amphetamine; Dopamine; Motor activity (D'Aquila, P.S. (435) 67)

Vascular smooth muscle; Proliferation; Cell cycle; Atherosclerosis (Sayeed, S. (445) 163)

Magnesium; Cerebral microcirculation; Cytochrome oxidase; Hemoglobin; Stroke; Optical spectroscopy (Barbour, R.L. (447) 79)

Leukocyte; Cerebral venule; Cerebral microcirculation; Inflammation; Cell adhesion molecule (Altura, B.M. (448) 89)

Leydig cell; Apoptosis; Bax; Bcl-2; Caspase-3 (Jang, M.-H. (449) 39)

Alcohol deprivation effect

Cannabinoid CB₁ receptor antagonist, SR 141716; Sardinian alcohol-preferring (sP) rat (Serra, S. (443) 95)

Alcohol intake

Morphine; Naloxone; Cannabinoid; SR 141716; Sardinian alcohol-preferring (sP) rat (Vacca, G. (445) 55)

Alcohol preference

Opioid receptor; Morphine; Locomotor activity; (Selected rat line) (Soini, S.L. (448) 157)

Alcohol-preferring rat

 ⁹-Tetrahydrocannabinol; Ethanol intake; Cannabinoid CB₁ receptor; SR 141716A; Object recognition task (Ciccocioppo, R. (449) 245)

Alcohol sensitivity, high

Ethanol; Taurine; Glutamate; Microdialysis; Alcohol sensitivity, low (Quertemont, E. (444) 143)

Alcohol sensitivity, low

Ethanol; Taurine; Glutamate; Microdialysis; Alcohol sensitivity, high (Quertemont, E. (444) 143)

Aldosterone

Mineralocorticoid receptor; Natriuresis; Steroid conformation (Piwien-Pilipuk, G. (454) 131)

Alkaline phosphatase

Osteoblast differentiation; Growth factor; Msx2; TAK-778 (Gotoh, M. (451) 19)

Allergic asthma

Eotaxin; Eosinophils; Mouse model (Scheerens, J. (453) 111)

Allergic conjunctivitis

Eosinophil peroxidase activity; Late-phase reaction; Histamine H₁ receptor; P-selectin (Izushi, K. (440) 79)

Allergic contact dermatitis

Psoriasis; FK506 (tacrolimus hydrate); Animal model (Fujii, Y. (456) 115)

Allergic pulmonary inflammation

Brown Norway rat; Ovalbumin; Adenosine A_{2A} receptor; CGS 21680; ZM 243185 (Fozard, J.R. (438) 183)

Allergic rhinitis

Interleukin-5; Eosinophil; TRFK5 (Yamasaki, M. (439) 159)

Eosinophil; Nitric oxide (NO) synthase; 1400 W; Eotaxin; Chemotaxis (Ferreira, H.H.A. (442) 155)

Allergy

Dermatitis; Phosphodiesterase 4 inhibitor; AWD 12-281; SB 207499; Toluenediisocyanate (B umer, W. (446) 193)

Allodynia

Pain; Incision pain; SNAP (*S*-nitroso-*N*-acetylpenicillamine); Isosorbide; Nitric oxide (NO); ODQ (1*H*-[1,2,4]oxadiazolo[4,3- ]quinoxalin-1-one) (Prado, W.A. (441) 57)

Tormentic acid; Triterpene pentacyclic; Neuropathic pain; Inflammatory pain (Bortalanza, L.B. (453) 203)

Neuropathic pain; Nociceptin/orphanin FQ; ORL1 receptor splice variant (Brisini, L. (447) 59)

Allodynia, mechanical

Nerve injury, infraorbital; F 13640; 5-HT_{1A} receptor; Baclofen; Morphine (Deseure, K. (456) 51)

Allosteric

Adenosine A₁ receptor; Adenosine A₁ receptor agonist; Modulation; Temperature dependence; Binding thermodynamics (Dalpiaz, A. (448) 123)

Allosteric modulation

PD 81,723; Acetylcholine release; Adenosine A₁ receptor; Microdialysis; Striatum (Bueters, T.J.H. (454) 177)

Alphaxalone

Antiepileptic drug; Amygdala-kindled seizure; Pentetrazole; Aminophylline; Electroshock, maximal (Borowicz, K.K. (449) 85)

Alzheimer's disease

Heparin; Certoparin; Tau; Glycosaminoglycan (Walzer, M. (445) 211)

Anti-inflammatory; Lipopolysaccharide; Cholinesterase inhibitor; Microglia; Rat (Wenk, G.L. (453) 319)

Acetylcholinesterase isoform; Huperzine A; Tacrine; Donepezil; Rivastigmine; Physostigmine; (Rat) (Zhao, Q. (455) 101)

β -Amyloid; MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide); Akt; Long-term potentiation; Hippocampus; RS-0466 (Nakagami, Y. (457) 11)

Glutamate; Ca^{2+} ; Mitochondrion; Apoptosis; Necrosis; Motor neuron disease (Krieger, C. (447) 177)

AM404

Anandamide; Morphine withdrawal (Del Arco, I. (454) 103)

Amantadine

Kidney; Memantine; MRZ 2/579; MRZ 2/600; MRZ 2/615; Organic cation transport (Fourie, J. (452) 1)

Ambroxol

PDGF (Platelet-derived growth factor); ERK (p44/42 extracellular signal-regulated kinase); Monocytic cell, human (Utsugi, M. (436) 47)

Amifostine

Hematopoietic stem cell; CD34 antigen; Colony-forming units assay; Thrombopoietin; X-ray (Kashiwakura, I. (437) 19)

Amiloride

Li^+ clearance; NHE3; Proximal tubular reabsorption; Na^+ Fractional excretion (Thomsen, K. (437) 85)

Mg^{2+} concentration; Mag-fura 2; Kidney; Nitric oxide (NO) (Ikari, A. (451) 133)

Aminopeptidase N

RB101; Neutral endopeptidase; Enkephalin; Analgesia; C-fibre reflex (Benoist, J.-M. (445) 201)

Aminophylline

Alphaxalone; Antiepileptic drug; Amygdala-kindled seizure; Pentetazolate; Electroshock, maximal (Borowicz, K.K. (449) 85)

4-Aminopyridine

Nitric oxide (NO); N^G -nitro-L-arginine; Molsidomine; Seizure; Epilepsy Tutka, P. (437) 47)

Blood pressure; Vascular tension; K^+ channel; Adrenergic system (Berg, T. (452) 325)

Valproate; Lamotrigine; Pentylentetrazole; Anticonvulsant; Drug interactions (Cuadrado, A. (453) 43)

Amiodarone

Dronedarone; Thyroid hormone; Ischemia; Heart, isolated; rat (Pantos, C. (444) 191)

Amniotic epithelial cell

Dopamine transporter; Dopamine uptake (Elwan, M.A. (435) 205)

AMPA receptor

Cortical neurone, cultured; GABA (γ -aminobutyric acid) immunocytochemistry; Co^{2+} uptake; Fura-2 microfluorimetry; Ca^{2+} concentration, intracellular (Fischer, W. (438) 53)

Biarylpropylsulfonamide; Cyclothiazide (Quirk, J.C. (454) 125)

2,2'-Pyridylisatogen; Imine oxide; Spin trap; Motoneuron; ATP receptor antagonist; P2Y receptor; Neuroprotection (Menton, K. (444) 53)

AMPA receptor antagonist

Epilepsy; mGlu receptor; NMDA receptor antagonist; Antiepileptic drug (De Sarro, G. (451) 55)

D-Amphetamine

Catecholamine-regulated protein; Desensitization, behavioural sensitization; Dopamine; Heat shock protein; Molecular chaperone (Gabriele, J. (453) 13)

Amphetamine

Alcohol; Dopamine; Motor activity (D'Aquila, P.S. (435) 67)

5-Hydroxytryptamine (5-HT, serotonin); Microdialysis; Anti-obesity agent; Serotonin uptake inhibitor; Fenfluramine (Tao, R. (445) 69)

Catalepsy; Locomotor activity; Prepulse inhibition; Dopamine; Parkinson's disease; Progressive supranuclear palsy (Ross, B.M. (450) 141)

Amygdala

Conditioned fear stress; Dopamine; Methamphetamine; Sensitization (Suzuki, T. (435) 59)

Amygdala, central

Morphine; Conditioned place preference; L-arginine Nitric oxide (NO); L-NAME (N^G -nitro-L-arginine methyl ester) (Zarrindast, M.R. (453) 81)

Amygdala-kindled seizure

Alphaxalone; Antiepileptic drug; Pentetazolate; Aminophylline; Electroshock, maximal (Borowicz, K.K. (449) 85)

Amylase secretion

Nitric oxide (NO) synthase; Parotid gland; Nitric oxide (NO) signaling (Rosignoli, F. (439) 27)

Amylin

Ghrelin; Hypothalamus; Dopamine; Norepinephrine; 5-HT (5-hydroxytryptamine, serotonin) (Brunetti, L. (454) 189)

Analgesia

Pyrroloquinazoline; Eicosanoid; Cyclo-oxygenase-2; Air pouch, mouse; Carrageenan paw oedema (Rioja, I. (434) 177)

RB101; Neutral endopeptidase; Aminopeptidase N; Enkephalin; C-fibre reflex (Benoist, J.-M. (445) 201)

Neuropeptide FF; 1DMe ([D-Tyr¹, (NMe)Phe³]NPFF); Morphine; (Mouse); Tail flick (Quelven, I. (449) 91)

Tail-flick test; Naloxone; Morphine; Supersensitivity; Nimodipine; B_{max} ; [³H]PN200-110 binding (Gullapalli, S. (451) 271)

Anandamide

Ileum; Cannabinoid CB₁ receptor; GABA (γ -aminobutyric acid) release; Ethylenediamine (Begg, M. (434) 87)

Cannabinoid; Tetrahydrocannabinol; Structure–activity relationship; Receptor (Martin, B.R. (435) 35)

AM404; Morphine withdrawal (Del Arco, I. (454) 103)

Cannabinoid; Vanilloid; Vanilloid VR1 receptor; Arvanil (Brooks, J.W. (439) 83)

2-Arachidonoylglycerol; Cannabinoid; Colon, guinea-pig (Kojima, S.-i. (444) 203)

Cannabinoid; Tolerance; Cytochrome P450; Liver, rat; Brain, rat (Costa, B. (449) 61)

Capsaicin; Arachidonic acid; Prostaglandin F_{2α}; Phospholipase A₂; PC12 cell (Someya, A. (450) 131)

Epilepsy; Electroshock, maximal; Seizure; Cannabinoid; Cannabinoid CB₁ receptor; O-1812 (Wallace, M.J. (452) 295)

Androgen

Atrium, rat; cAMP (Velasco, L. (438) 45)

Anesthesia

Barbiturate; Cytoprotection; Glucose phosphorylation; Glutamate; Oxidative metabolism (Peng, L. (446) 53)

Angiotensin

Aging; Blood pressure; Heart rate; Ketanserin; Reflex bradycardia; Urapidil Buñag, R.D. (435) 85)

Angiotensin AT₁ receptor

Actin; Angiotensin II; Mesothelial cell; Pleura; Pertussis toxin; Protein kinase C; Tyrosine kinase (Kuwahara, M. (436) 15)

Angiotensin-converting enzyme inhibitor; Obesity; Hyperinsulinemia; Metabolic syndrome; (Mouse) (Ortlepp, J.R. (436) 145)

Angiotensin II; cAMP; Cardiomyocyte (Chen, X. (448) 1)

Angiotensin-converting enzyme

CYP11B2; Pharmacogenetic (Ortlepp, J.R. (445) 151)

Angiotensin converting enzyme inhibition

Adenosine receptor antagonist; Hypertension; 6-Hydroxydopamine; Trophic effect (Sousa, T. (441) 99)

Angiotensin-converting enzyme inhibitor

Angiotensin AT₁ receptor; Obesity; Hyperinsulinemia; Metabolic syndrome; (Mouse) (Ortlepp, J.R. (436) 145)

Endothelial dysfunction; NO (Nitric oxide); Hypertension (De Gennaro Colonna, V. (450) 61)

Angiotensin II

Actin; Angiotensin AT₁ receptor; Mesothelial cell; Pleura; Pertussis toxin; Protein kinase C; Tyrosine kinase (Kuwahara, M. (436) 15)

Prejunctional interaction; Bradykinin; Newborn, rat; Protein kinase C (Mota, A. (453) 26)

Adenosine receptors blockade; Hypertension; Vascular reactivity (Morato, M. (455) 135)

Smooth muscle cell, vascular; Cyclosporin A; c-Jun NH₂-terminal kinase (Saito, S. (443) 47)

MAP kinase; U0126; PD98059; Endothelin-1; Contraction (Ishihata, A. (445) 247)

Angiotensin AT₁ receptor; cAMP; Cardiomyocyte (Chen, X. (448) 1)

[Lys²]angiotensin II; Angiotensin AT₁ receptor, recombinant; Tachyphylaxis; CHO cell line; Smooth muscle cell line (França, L.P. (439) 13)

Angiotensin AT₁ receptor, recombinant

Angiotensin II; [Lys²]angiotensin II; Tachyphylaxis; CHO cell line; Smooth muscle cell line (França, L.P. (439) 13)

Angiotensin II desensitization

Phorbol dibutyrate (PDB); Membrane repolarization; Protein kinase C inhibitor; Maxi-K⁺ channel recruitment; Ileum, guinea pig (Aboulafia, J. (442) 29)

Angiotensin II receptor antagonist

Irbesartan; Losartan; Cholesterol-fed rabbit; Aorta, coronary; Mesenteric (5th branch) (Sanz, M. (442) 99)

Angiotensinogen

Mineralocorticoid hypertension; RU28318; Brain; Diuresis (Rahmouni, K. (436) 207)

Animal model

Depression, endogenous; 5-HT (5-hydroxytryptamine, serotonin); REM (rapid eye movement) sleep; Mianserin; mCPP (Mavanji, V. (455) 35)

Psoriasis; FK506 (tacrolimus hydrate); Allergic contact dermatitis (Fujii, Y. (456) 115)

Cannabinoid CB₁ receptor; Drug discrimination; Neuroprotectant; (Rat) (De Vry, J. (457) 147)

Anisodamine

Myocyte shortening; Ca²⁺ intracellular; Nitric oxide (NO); Cholinoceptor (Norby, F.L. (439) 21)

Anococcygeus muscle

Cholestasis; Nonadrenergic noncholinergic relaxation; Opioid; Nitric oxide (NO); (Rat) (Dehpour, A.R. (445) 31)

ANP (atrial natriuretic peptide)

Neuropeptide Y; (Rat); Cardiomyocyte; Hypertrophy; Protein turnover; Receptor subtype; MLC-2 (myosin light chain-2); Skeletal-α-actin; MHC-β (myosin heavy chain-β) (Nicholl, S.M. (441) 23)

Atrium; cAMP; Phosphodiesterase; ANP (atrial natriuretic peptide) secretion; ANP (atrial natriuretic peptide) release (Cui, X. (451) 295)

ANP (atrial natriuretic peptide) release

ANP (atrial natriuretic peptide); Atrium; cAMP; Phosphodiesterase; ANP (atrial natriuretic peptide) secretion (Cui, X. (451) 295)

ANP (atrial natriuretic peptide) secretion

ANP (atrial natriuretic peptide); Atrium; cAMP; Phosphodiesterase; ANP (atrial natriuretic peptide) release (Cui, X. (451) 295)

Antiarrhythmic agent

Ion channel; Voltage dependence; Frequency dependence (Kushida, S. (457) 19)

Anticholinergic effect

Paroxetine; Fluvoxamine; Clomipramine; Antidepressant; (Mouse) (Fujishiro, J. (454) 183)

Anticonvulsant

Valproate; Lamotrigine; Pentylentetrazole; 4-Aminopyridine; Drug interactions (Cuadrado, A. (453) 43)

Antidepressant

5-HT (5-hydroxytryptamine, serotonin); Venlafaxine; Hippocampus; Hypothalamus; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Gur, E. (436) 57)

Paroxetine; Fluvoxamine; Clomipramine; Anticholinergic effect; (Mouse) (Fujishiro, J. (454) 183)

c-fos; Citalopram; 5-HT_{1A} receptor; WAY 100635; Hypothalamic–pituitary–adrenal axis (Jongsma, M.E. (455) 109)

5-HT (5-hydroxytryptamine, serotonin); Triiodothyronine; 5-HT_{1A} receptor; 5-HT_{1B} receptor (Gur, E. (457) 37)

5-HT (5-hydroxytryptamine, serotonin); Microdialysis; 5-HT (5-hydroxytryptamine, serotonin) transporter; 5-HT_{1A} receptor; Learned helplessness test (Tordera, R.M. (442) 63)

5-HT_{1A} receptor; 5-HT₄ receptor; 8-OH-DPAT (8-hydroxy-2(di-*n*-propylamino)tetralin); Buspirone; Clozapine; Imipramine; Haloperidol (Zahorodna, A. (443) 51)

Forced swim test; Reboxetine; DSP-4; Ventral noradrenergic bundle (Cryan, J.F. (436) 197)

Rosmarinic acid; Caffeic acid; Forced swimming test; (Mouse) (Takeda, H. (449) 261)

Cell proliferation; Fluvoxamine; Photoisomerization; 5-HT (5-hydroxytryptamine, serotonin) uptake; 5-HT (5-hydroxytryptamine, serotonin) re-uptake inhibitor, selective (Miolo, G. (450) 223)

Na⁺ channel; K⁺ channel; Imipramine; Patch clamping; ²²Na⁺ flux (Nicholson, G.M. (452) 35)

Fluoxetine; Outer hair cell; K⁺ current; Voltage-activated; Cochlea (Bian, J.-T. (453) 159)

Antidepressant, tricyclic

TE671 cell line; SK3 channel; Desipramine; Imipramine (Carignani, C. (448) 139)

Antiepileptic drug

Remacemide; Desglycyl-remacemide; Na⁺ channel; Synaptosome, Rat (Santangeli, S. (438) 63)

Anxiety; Benzodiazepine; Keppra[™]; Levetiracetam; Withdrawal (Lamberty, Y. (439) 101)

Alphaxalone; Amygdala-kindled seizure; Pentetazoles; Aminophylline; Electroshock, maximal (Borowicz, K.K. (449) 85)

Epilepsy; mGlu receptor; NMDA receptor antagonist; AMPA receptor antagonist (De Sarro, G. (451) 55)

Epilepsy; Pharmacoresistance; Multidrug resistance gene (Seegers, U. (451) 149)

Antifertility

Gossypol; Spermatogenic cell, mouse; Whole-cell recording; Ca²⁺ channel, T-type; Cl[−] channel (Bai, J. (440) 1)

Antifolate

MX-68; Methotrexate; Polyglutamation; Dihydrofolate reductase; Arthritis model (Urakawa, K. (435) 237)

Anti-glomerular basement membrane

Beraprost sodium; Prostacyclin; Renal dysfunction; Nephritis; MCP-1 (monocyte chemoattractant protein-1); Collagen (Yamada, M. (449) 167)

Antihistamine

Azelastine; Itch; Leukotriene B₄; Prostaglandin E₂; Scratching (Andoh, T. (436) 235)

Anti-inflammatory

Lipopolysaccharide; Cholinesterase inhibitor; Microglia; Rat; Alzheimer's disease (Wenk, G.L. (453) 319)

Anti-ischemic molecule

Hypoxia; Mitochondrion; Respiration; Complex I; Endothelial cell (Bouaziz, N. (441) 35)

Antinociception

Ginseng; Ginsenoside; Patch-clamp; Ca²⁺ channel current; Pertussis toxin; Sensory neurons (Rhim, H. (436) 151)

ATP-sensitive K⁺i channel; Pinacidil; Opioid receptor; Diabetes (Zushida, K. (453) 209)

K⁺ channel blocker; Dipyrone; K⁺ channel (Alves, D.P. (444) 47)

Endogenous ligand; Opioid; Intrathecal infusion; NMDA receptor antagonist; Paw withdrawal test (Kekesi, G. (445) 93)

Spasticity; Clonidine; Flexor reflex; Tail-flick (Advokat, C. (437) 63)

Diabetes; MK-801; NMDA receptor; μ -Opioid receptor; DAMGO ([D-Ala², N-MePhe⁴, Gly-ol⁵]enkephalin) (Zushida, K. (448) 39)

Tail-flick test; Endomorphin-1; Endomorphin-2; Tolerance; Cross-tolerance (Hung, K.-c. (448) 169)

Cyclosporin A; NO (nitric oxide); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Opioid dependence-tolerance; (Mouse) (Homayoun, H. (452) 67)

Sex difference; μ -Opioid receptor agonist; κ -Opioids receptor agonist; Mechanical; (Rat) (Barrett, A.C. (452) 163)

FR143166; Descending serotonergic system; 5-HT_{2A} receptor; 5-HT₃ receptor; Spinal cord (Ochi, T. (452) 319)

[Met⁵]enkephalin-Arg-Gly-Leu; Opioid peptide; Peptidase inhibitor (Kanai, M. (453) 53)

Sterptozotocin-induced diabetes; Morphine; Tail-flick; Nimodipine; [³H]PN200-110; B_{max}; Saturation binding (Gullapalli, S. (435) 187)

Anti-obesity agent

Neuropeptide Y; Obesity; Neuropeptide receptor, neuropeptide Y (Parker, E. (440) 173)

5-Hydroxytryptamine (5-HT, serotonin); Microdialysis; Serotonin uptake inhibitor; Amphetamine; Fenfluramine (Tao, R. (445) 69)

Antioxidant

Atherosclerosis; Cell proliferation; Green tea catechin; LDL (low-density lipoprotein); Mitogen-activated kinase; Risk factor; Smooth muscle cell, vascular (Locher, R. (434) 1)

Apoptosis; Drug targeting; Mitochondrion (Dessolin, J. (447) 155)

Dopamine receptor agonist; Neurodegeneration; Parkinson's disease; Neuroprotection (Lombardi, G. (457) 95)

Hydroxyl radical; Peroxynitrite; Lipid peroxidation; Uracil derivative (Goto, Y. (438) 189)

Ventricle, human; Electrophysiology; Contractile force; Acidosis, intracellular; Fluorescent; Oxygen free radical; Cardioprotective agent (Loh, S.-H. (443) 169)

Antioxidant effect

Fluvastatin; Cigarette smoke extract; LDL (low-density lipoprotein); Oxidatively modified; WHHL rabbit (Yamaguchi, Y. (436) 97)

Antioxidant enzyme

Melatonin; Vitamin C; N1E-115 cell; Okadaic acid; Oxidative stress (Montilla-López, P. (451) 237)

Antipsychotic

Neurotensin; Conditioned avoidance behaviour; Haloperidol; NT69L (Hertel, P. (439) 107)

Schizophrenia; Extrapyramidal side-effect; Catalepsy; Neuroleptic; Dopamine D2 receptor; 5-HT_{1A} receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

Benzamide; Extrapyramidal symptom (Marchese, G. (444) 69)

Benzamide; Depression; Prolactin (Marchese, G. (447) 109)

Benzamide; Prolactin (Marchese, G. (448) 263)

HERG channel; Arrhythmia; QT prolongation; K⁺ channel (Kongsamut, S. (450) 37)

Antipsychotic drug

Muscarinic receptor antagonist; Striatum; Muscle rigidity; (EMG) Electromyogram (Hemsley, K.M. (434) 117)

Dopamine; Mesolimbic; Clozapine; Prefrontal cortex (Westerink, B.H.C. (455) 1)

Dopamine; Feeding; Glucose; Insulin; Lateral hypothalamus; Leptin; Obesity (Baptista, T. (447) 91)

Antipyresis

Lipopolysaccharide; Pyrazole; Fever; Hypothermia; Mouse (Souza, F.R. (451) 141)

Antisense

GABA_B receptor; Ca²⁺ current; Ca²⁺ channel subtype; Transfection; NG108-15 cell (Easter, A. (440) 17)

Antithrombotic agent

Platelet glycoprotein IIb/IIIa; Pro-aggregatory activity (Moritani, Y. (439) 43)

Anxiety

Antiepileptic drug; Benzodiazepine; KeppraTM; Levetiracetam; Withdrawal (Lamberty, Y. (439) 101)

MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Ecstasy; (Rat); Neurotoxicity (Gurtman, C.G. (446) 89)

Nitric oxide (NO); Nitric oxide (NO) donor; Nitrous oxide (N₂O); Light/dark exploration test (Li, S. (447) 75)

Anxiolytic

Stress-induced hyperthermia; Benzodiazepine; Buspirone; Tachykinin; mGlu₅ receptor antagonist; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone); Corticosterone (Spooren, W.P.J.M. (435) 161)

Aorta

Mesaconitine; Vasorelaxation; Nitric oxide (No); Aconiti tuber; (*Aconitum japonicum*); (Rat) (Mitamura, M. (436) 217)

Ethanol; NECA (5'-N-ethylcarboxamidoadenosine); Nitric oxide (NO); Blood pressure; Radiotelemetry (Rekik, M. (452) 205)

Aorta contraction, rat

Urotensin II, human; Phospholipase C; Protein kinase C; Tyrosine kinase; Rho-kinase; Somatostatin; Somatostatin-receptor antagonist (Rossowski, W.J. (438) 159)

Aorta, coronary

Irbesartan; Losartan; Angiotensin II receptor antagonist; Cholesterol-fed rabbit; Mesenteric (5th branch) (Sanz, M. (442) 99)

Aorta, rat

Retractor penis muscle, bovine; Catalase; Nitric oxide (NO); Nitroxyl anion; Nitrovasodilator (Shahidullah, M. (435) 93)

Phosphodiesterase type 5 inhibitor; Relaxation; Ca²⁺ channel antagonist; Cyclic nucleotide (Mochida, H. (440) 45)

Ca²⁺ channel; Endothelium; Geissoschizine methyl ether; Nitric oxide (NO); Vasorelaxation (Yuzurihara, M. (444) 183)

α₁-Adrenoceptor; (±)-Nantenine derivatives (Indra, B. (437) 173)

Aortic contraction

4-MTA (4-methylthioamphetamine); 4-MTMA (4-methylthiomethamphetamine); MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Reuptake; Synaptosome (Murphy, J.E.J. (444) 61)

Aortic slice, rat

Kynurenic acid; Endothelium; Excitatory amino acid receptor; Glucose; Oxygen (Sztáčka, J. (448) 133)

AP-1 (activator protein-1)

cAMP; Mechanical stretch; Glomerulosclerosis; MAP (mitogen-activated protein) kinase; Fibronectin (Nishio, T. (437) 113)

Penta-*O*-galloyl-β-D-glucose; Metastasis; Invasion; MMP-9 (matrix metalloproteinase-9); Sp-1 (Ho, L.-L. (453) 149)

L-AP4 (L-(+)-2-amino-4-phosphonobutyric acid)

NAAg (*N*-acetylasparylglutamate); Glutamate receptor metabotropic; Neonatal hypoxia-ischemia; cAMP; *t*-ACPD (*trans*-[1S,3R]-1-Amino-cyclopentane-1,3-dicarboxylic acid) (Cai, Z. (437) 139)

Apamin

Diclofenac; Charybdotoxin; Glibenclamide; Pinacidil; Morphine (Ortiz, M.I. (438) 85)

APD (action potential duration)

Triangulation; Afterdepolarization, early; Purkinje fiber, Rabbit; Long QT syndrome (Lu, H.R. (452) 183)

Apomorphine

Dopamine; Oxidative stress; Parkinson's disease; Behavior; Memory (Picada, J.N. (443) 105)

Apoptosis

Glutathione; Neuroblastoma; Dopamine receptor; Parkinson's disease (Uberti, D. (434) 17)

JNK (c-Jun N-terminal kinase); c-Fos; c-Jun; p53; p21^{WAF1/CIP1} (Kobayashi, K. (438) 19)

LDL (low-density lipoprotein), oxidized; α-Tocopherol (Uemura, M. (456) 29)

Cardiomyocyte; Caspase; Infarct; Ischemia; Reperfusion (Chapman, J.G. (456) 59)

σ Receptor; Ceramide (Crawford, K.W. (443) 207)

Endotoxic shock; Inflammatory cytokine; TNF-α (tumor necrosis factor-α); Interleukin-10; Fibrosis; TGF-β (transformation growth factor-β) (Oku, H. (446) 165)

Antioxidant; Drug targeting; Mitochondrion (Dessolin, J. (447) 155)

Glutamate; Ca^{2+} ; Mitochondrion; Necrosis; Motor neuron disease; Alzheimer's disease (Krieger, C. (447) 177)

MGC-803 cell; Arsenite; Reactive oxygen species; α -tocopherol; Ca^{2+} , intracellular (Chen, A. (448) 11)

Alcohol; Leydig cell; Bax; Bcl-2; Caspase-3 (Jang, M.-H. (449) 39)

Buddleja officinalis Maxim; Verbascoside; Phenylpropanoid glucoside; Oxidative stress; Parkinson's disease (Sheng, G.-Q. (451) 119)

Nipradilol; PC12 cell; Nitric oxide (NO); S-nitrosylation (Tomita, H. (452) 263)

Appetite

Adipostat; Leptin; Hypothalamus; Obesity; Satiety (Larsen, P.J. (440) 159)

Aprikalim

Nicorandil; K_{ATP} channel, mitochondrial; Coronary occlusion; Myocardial ischemia; Reperfusion arrhythmia (Das, B. (437) 165)

Arachidonic acid

K^{+} channel, inwardly rectifying; Kir2.3; Tenidap; Potentiation; Opener (Liu, Y. (435) 153)

Bronchus; Ovalbumin; Histamine; Leukotriene D_4 ; Schultz–Dale reaction (Seow, C.-J. (443) 189)

Atisine-type diterpene alkaloid; Platelet aggregation; Adenosine-5'-diphosphate; PAF (platelet-activating factor); Structure–activity relationship (Li, L. (449) 23)

Anandamide; Capsaicin; Prostaglandin $\text{F}_{2\alpha}$; Phospholipase A_2 ; PC12 cell (Someya, A. (450) 131)

2-Arachidonoylglycerol

Anandamide; Cannabinoid; Colon, guinea-pig (Kojima, S.-i. (444) 203)

L-Arginine

Penile bulb; Nitric oxide (NO); Protein synthase inhibition; (Rat) (Burcin İsmailoglu, U. (435) 113)

Morphine; Conditioned place preference; Hippocampus; CA1 ; Nitric oxide (NO); L-NAME (N^G -nitro-L-arginine methyl ester); (Rat) (Karami, M. (449) 113)

Morphine; Nitric oxide (NO); L-NAME (N^G -nitro-L-arginine methyl ester); Conditioned place preference; Nucleus accumbens; (Rat) (Gholami, A. (449) 269)

Theophylline; Nitric oxide (NO); N^G -nitro-L-arginine methylester (L-NAME); N^D -nitro-L-arginine (L-NA); Temperature (mouse) (Zarrindast, M.-R. (451) 63)

Cyclosporin A; NO (nitric oxide); L-NAME (N^G -nitro-L-arginine methyl ester); Opioid dependence-tolerance; Antinociception; (Mouse) (Houmayoun, H. (452) 67)

Morphine; Conditioned place preference; Amygdala, central; Nitric oxide (NO); L-NAME (N^G -nitro-L-arginine methyl ester) (Zarrindast, M.R. (453) 81)

Argininosuccinate lyase

L-Citrulline recycling; Gastric fundus, rat; Argininosuccinate synthetase; Nitric oxide (NO) synthase, Neuronal (Van Geldre, L.A. (455) 149)

Argininosuccinate synthetase

L-Citrulline recycling; Gastric fundus, rat; Argininosuccinate lyase; Nitric oxide (NO) synthase, Neuronal (Van Geldre, L.A. (455) 149)

ARPE-19 cell

GSH precursor; 4-Hydroxynonenal; Oxidative stress; VEGF (Vascular endothelial growth factor) (Ayalasomayajula, S.P. (449) 213)

Arrhythmia

HERG channel; Antipsychotic; QT prolongation; K^{+} channel (Kongsamut, S. (450) 37)

Streptozotocin; Diabetes; Heart, ex vivo; Hypothyroidism; Ischaemia–reperfusion, rat (Zhang, L. (435) 269)

Arsenite

MGC-803 cell; Reactive oxygen species; α -tocopherol; Apoptosis; Ca^{2+} , intracellular (Chen, A. (448) 11)

Artemisinin

Guanylyl cyclase; Nitric oxide (NO) (Severina, I.S. (438) 69)

Arterial conductance

Nociceptin; Arterial pressure, mean; Peripheral resistance, total; Blood flow (Abdelrahman, A.M. (450) 263)

Arterial pressure, mean

Nociceptin; Peripheral resistance, total; Blood flow; Arterial conductance (Abdelrahman, A.M. (450) 263)

Nociceptin; ORL1 receptor; Circulatory filling pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Abdelrahman, A.M. (455) 143)

Arteriolar diameter

Hypercapnia; Cerebral circulation; Pial arterioles; Guanylate cyclase; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); ODQ; SIN-1 (3-morpholino-sydnominine) (Rosenblum, W.I. (448) 201)

Artery

CGRP (calcitonin gene-related peptide); Blood pressure; Gender; Aging; Ovariectomy (Chan, G.H.H. (434) 133)

Artery, mesenteric

Ischemia–reperfusion; Neutrophil; Oedema; Inflammation; Leukotriene B_4 (Souza, D.G. (440) 61)

Arthritis

Diacerein; Rhein; Inflammation; Bone (Tamura, T. (448) 81)

Arthritis, collagen-induced

GW274150; Nitric oxide (NO) synthase, inducible (Cuzzocrea, S. (453) 119)

Arthritis model

MX-68; Antifolate; Methotrexate; Polyglutamation; Dihydrofolate reductase (Urakawa, K. (435) 237)

Articular cartilage

Cholecystokinin-B/gastrin receptor antagonist; Chondrocyte; Repair; (Rabbit); Osteochondral defect (Nakanishi, T. (439) 135)

Arvanil

Cannabinoid; Vanilloid; Vanilloid VR1 receptor; Anandamide (Brooks, J.W. (439) 83)

(Ascaris)

Nematode; Cl^- channel; FaRP; PF4 (Purcell, J. (456) 11)

Ascorbate

Meningitis; Oxidative stress; Peroxynitrite; Urate; MnTBAP (Kastenbauer, S. (449) 177)

Aspirin

Helicobacter pylori; Nonsteroidal anti-inflammatory drug; Peptic ulcer (Pawlik, T. (449) 1)

NS-398; Indomethacin; Nimesulide; Ibuprofen; Naproxen (Burde, T. (453) 167)

Helicobacter pylori; Ulcer healing; Gastric secretion; Gastric blood flow; Cyclooxygenase; Growth factor (Konturek, P.C. (451) 191)

Asthma

Silymarin; Hyperreactivity (Breschi, M.C. (437) 91)

β -Adrenoceptor agonist; Adrenaline; Enantiomer; Bronchodilation (Waldeck, B. (445) 1)

Glutamate; Trachea (Coşkun, U. (437) 97)

Leukotriene receptor antagonist; CysLT receptor; Leukotriene D₄; Bronchoconstriction; Airway inflammation (Cabr , F. (451) 317)

Asthmatic response, immediate

$\alpha_{1\text{L}}$ -Adrenoceptor; $\alpha_{1\text{H}}$ -Adrenoceptor; Bronchial asthma; Leukotriene C₄ (Nobata, K. (452) 97)

Astrocyte

CHO cell; FLIPR; Ca^{2+} ; Bombesin; [D-Phe⁶, des-Met¹⁴]bombesin-(6–14) ethylester (Mason, S. (438) 25)

β -Adrenoceptor; Hippocampal neuron; Clenbuterol; Cerebral ischemia; Middle cerebral artery occlusion (Junker, V. (446) 25)

Glia; Ca^{2+} ; ATP; Purinoreceptor; Oligodendrocyte; Microglia; Axon; Signalling (James, G. (447) 247)

ATDC5 cell

FK506; Cyclosporin A; Chondrogenic differentiation; Calcineurin; Cartilage (Nishigaki, F. (437) 123)

Atherosclerosis

Antioxidant; Cell proliferation; Green tea catechin; LDL (low-density lipoprotein); Mitogen-activated kinase; Risk factor; Smooth muscle cell, vascular (Locher, R. (434) 1)

Inflammation; PPAR (peroxisome proliferator-activated receptor); NF- κ B (nuclear factor- κ B); EAhy926 cell (Rival, Y. (435) 143)

Alcohol; Vascular smooth muscle; Proliferation; Cell cycle (Sayeed, S. (445) 163)

Oct-1; HMG-CoA reductase inhibitor; Nuclear factor (Ortego, M. (448) 113)

Atisine-type diterpene alkaloid

Platelet aggregation; Arachidonic acid; Adenosine-5'-diphosphate; PAF (platelet-activating factor); Structure–activity relationship (Li, L. (449) 23)

Atorvastatin

Avasimibe; Acyl-CoA cholesterol acyltransferase; Hydroxymethyl glutaryl-CoA reductase; Macrophage; Cholesteryl ester (Llaverias, G. (451) 11)

BMS-201038; Beta-oxidation; Triglyceride; (Rat) (Funatsu, T. (455) 161)

ATP

Diadenosine polyphosphate; Purinoceptor; P2X₃ receptor; Desensitization (McDonald, H.A. (435) 135)

Organic anion transport; Perfused rat liver; Indicator-dilution experiment (Fernandes, T.R.L. (454) 225)

Vas deferens, rat; Adenosine; Smooth muscle relaxation; P2 receptor; Adenosine A₂ receptor; *Ecto*-protein kinase (B ltmann, R. (436) 135)

Glia; Ca^{2+} ; Purinoreceptor; Astrocyte; Oligodendrocyte; Microglia; Axon; Signalling (James, G. (447) 247)

P2X7; Neurodegeneration; Interleukin-1 (Le Feuvre, R. (447) 261)

Cancer; Calmodulin antagonist; Clotrimazole; Glycolysis (Penso, J. (451) 227)

ATP receptor antagonist

2,2'-Pyridylisatogen; Immine oxide; Spin trap; Motoneuron; P2Y receptor; Neuroprotection; AMPA receptor (Menton, K. (444) 53)

ATP-sensitive K⁺ channel

Pinacidil; Antinociception; Opioid receptor; Diabetes (Zushida, K. (453) 209)

Atria, rat

Relaxin; (INSL3) Insulin-like peptide 3; Chronotropic; Inotropic; Receptor autoradiography (Tan, Y.Y. (457) 153)

Atrial cell, human

Phosphodiesterase inhibitor; Atrial cell, rabbit; Ca^{2+} current, L-type; Levosimendan (Ajiro, Y. (435) 27)

Atrial cell, rabbit

Phosphodiesterase inhibitor; Atrial cell, human; Ca^{2+} current, L-type; Levosimendan (Ajiro, Y. (435) 27)

Atrium

ANP (atrial natriuretic peptide); cAMP; Phosphodiesterase; ANP (atrial natriuretic peptide) secretion; ANP (atrial natriuretic peptide) release (Cui, X. (451) 295)

Atrium, rat

Androgen; cAMP (Velasco, L. (438) 45)

Atropine

Detrusor smooth muscle; Electrical field stimulation; Propiverine; Oxybutynin; Tolterodine (W st, M. (454) 59)

Attention-deficit hyperactivity disorder

Dopamine; Dopamine D1 receptor; SKF 81297; Motor activity; Grooming (Heijtz, R.D. (445) 97)

Atypical antipsychotic drug

Zotepine; Perforant path–dentate gyrus pathway; Long-term potentiation (Kubota, T. (453) 245)

Atypical neuroleptic

Cyamemazine; Serotonin; 5-HT_{2A} receptor; Neuroleptic (Alvarez-Guerra, M. (454) 235)

Autoimmune disease

TNF- α (tumor necrosis factor); Interleukin-10; σ Receptor (Bourri , B. (456) 123)

Autoimmunity

Deoxyspergualin; Immunotherapy; Orchitis (Ablake, M. (450) 209)

Autonomic nervous system

Vagus; Raphe nucleus; Brain stem; 5-HT (5-hydroxytryptamine, serotonin) (Varanasi, S. (436) 67)

β -Adrenoceptor; Contractility; Fibrosis; Heart failure (Brouri, F. (456) 69)

Autonomic neuromuscular transmission

Nongenomic steroid receptor; (Rat); (*Suncus murinus*); Testosterone; Urinary bladder (Hall, R. (449) 301)

Autoradiography

Imidazoline binding site; BU224 (2-(4,5-dihydroimidaz-2-yl)-quinoline; Brain, rat (Robinson, E.S.J. (450) 55)

Autoreceptor

5-HT_{1A} receptor mutant mouse; Heteroreceptor; Cortex, frontal; Hippocampus; Raphe (Richer, M. (435) 195)

Avasimibe

Atorvastatin; Acyl-CoA cholesterol acyltransferase; Hydroxymethyl glutaryl-CoA reductase; Macrophage; Cholesteryl ester (Llaverias, G. (451) 11)

Avoidance inhibitory

Ebselen; Learning; Memory (Porci ncula, L.O. (451) 165)

AWD 12-281

Allergy; Dermatitis; Phosphodiesterase 4 inhibitor; SB 207499; Toluene-diisocyanate (B umer, W. (446) 193)

Axon

Glia; Ca²⁺; ATP; Purinoreceptor; Astrocyte; Oligodendrocyte; Microglia; Signalling (James, G. (447) 247)

Azelastine

Itch; Leukotriene B₄; Antihistamine; Prostaglandin E₂; Scratching (Andoh, T. (436) 235)

Azithromycin

Neutrophil; Human volunteer; Degranulation; Oxidative burst; Cytokine  uli , O. (450) 277)

 β -Actin

Cyclophosphamide; HL-60; CYP1B1; RT-PCR (reverse transcriptase–polymerase chain reaction); PCR (polymerase chain reaction), real-time; Cytotoxicity; Multidrug resistance (Xie, H.-J. (449) 197)

 β -Adrenoceptor

Astrocyte; Hippocampal neuron; Clenbuterol; Cerebral ischemia; Middle cerebral artery occlusion (Junker, V. (446) 25)

Oxytocin; Renin secretion; Oxytocin receptor; Renal denervation; Pulsed infusion (Loichot, C. (454) 241)

Autonomic nervous system; Contractility; Fibrosis; Heart failure (Brouri, F. (456) 69)

 β_2 -Adrenoceptor

Mast cell; CGP20712A; ICI118551 (Chong, L.K. (437) 1)

Molecular cloning; Radioligand binding; cAMP; Single nucleotide polymorphism (Oostendorp, J. (457) 1)

 β_3 -Adrenoceptor

β_4 -Adrenoceptor; β_3 -Adrenoceptor agonist; Thermogenesis; Obesity; Diabetes (Arch, J.R.S. (440) 99)

β -Adrenoceptor, atypical; Gastric fundus, guinea pig; Duodenum, guinea pig; SQ-22,536; cAMP (Horinouchi, T. (442) 137)

 β_4 -Adrenoceptor

β_3 -Adrenoceptor; β_3 -Adrenoceptor agonist; Thermogenesis; Obesity; Diabetes (Arch, J.R.S. (440) 99)

 β -Adrenoceptor agonist

cAMP; Adenylyl cyclases; SQ 22536; Smooth muscle, vascular; Pulmonary vein (Gao, Y. (436) 227)

Adrenaline; Enantiomer; Asthma; Bronchodilation (Waldeck, B. (445) 1)

 β_3 -Adrenoceptor agonist

β_3 -Adrenoceptor; β_4 -Adrenoceptor; Thermogenesis; Obesity; Diabetes (Arch, J.R.S. (440) 99)

 β -Adrenoceptor antagonist

Endothelin-1; Signal transduction; TGF- β_1 (transforming growth factor- β_1) (Tsubokou, Y. (457) 85)

 β -Adrenoceptor, atypical

β_3 -Adrenoceptor; Gastric fundus, guinea pig; Duodenum, guinea pig; SQ-22,536; cAMP (Horinouchi, T. (442) 137)

 β -Amyloid

Alzheimer's disease; Heparin; Certoparin; Tau; Glycosaminoglycan (Walzer, M. (445) 211)

Alzheimer's disease; MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide); Akt; Long-term potentiation; Hippocampus; RS-0466 (Nakagami, Y. (457) 11)

Baclofen

GHB (gamma-hydroxybutyrate) binding site; RS-NCS-382; R-NCS-382; S-NCS-382; GABA_B receptor (Castelli, M.P. (446) 1)

Nerve injury, infraorbital; Allodynia, mechanical; F 13640; 5-HT_{1A} receptor; Morphine (Deseure, K. (456) 51)

GABA_B receptor; Swallowing; Esophageal sphincter relaxation, transient, lower (Lehmann, A. (448) 67)

Neocortex, rat; SKF 97541; Positive modulator; Fendiline; Prenylamine (Kerr, D.I.B. (451) 69)

Lipopolysaccharide; Interleukin-6; cAMP; GABA_B receptor antagonist; Pituicyte; Neurohypophysis (Kjeldsen, T.H. (451) 209)

Barbiturate

Anesthesia; Cytoprotection; Glucose phosphorylation; Glutamate; Oxidative metabolism (Peng, L. (446) 53)

Barrel rotation

c-Fos; Endothelin-1; Vestibular nucleus; (Rat) (Kozako, T. (454) 199)

Basal ganglion

Dyskinesia; Movement disorder; Striatum (Hamann, M. (443) 59)

Cannabinoid; Dystonia; Movement disorder (Richter, A. (454) 145)

Bax

Alcohol; Leydig cell; Apoptosis; Bcl-2; Caspase-3 (Jang, M.-H. (449) 39)

BB, rat

Diabetes; Pentoxifylline; Interleukin-10; TNF- α (Visser, J. (445) 133)

Bcl-2

Alcohol; Leydig cell; Apoptosis; Bax; Caspase-3 (Jang, M.-H. (449) 39)

Behavior

Apomorphine; Dopamine; Oxidative stress; Parkinson's disease; Memory (Picada, J.N. (443) 105)

Tree shrew; Stress; Corticosteroid; Glucocorticoid receptor; 5-HT_{1A} receptor (Van Kampen, M. (457) 207)

Behavioral rating

Cocaine; Sensitization; 5-HT₂ receptor; Withdrawal; Locomotion (Davidson, C. (453) 255)

Behavioral sensitization

Nicotine; NMDA receptor; Nitric oxide (NO) (Shim, I. (443) 119)

Behavioral tolerance

Cocaine continuous; Dopamine autoreceptor; Cocaine duration; Rat (King, G.R. (446) 111)

Behaviour

Adolescence; MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Long-term effect; (Mouse) (Morley-Fletcher, S. (448) 31)

Bell-shaped curve

Prostaglandin; Prostanoid receptor; G-protein; Pertussis toxin; Partial agonist (Accomazzo, M.R. (454) 107)

 β -endorphin

Gastric acid secretion; Clonidine; Oxymetazoline; Glibenclamide (Müllner, K. (435) 225)

Benign prostatic hyperplasia

Diabetes mellitus, type I; Prostate gland; Noradrenaline; Protein kinase C (Ramasamy, S. (434) 151)

α -Adrenoceptor; Spare receptor; Receptor reserve; Prostate (Thiyagarajan, M. (453) 335)

Benzamide

Antipsychotic; Extrapyrimal symptom (Marchese, G. (444) 69)

Antipsychotic; Depression; Prolactin (Marchese, G. (447) 109)

Antipsychotic; Prolactin (Marchese, G. (448) 263)

Benzodiazepine

Stress-induced hyperthermia; Anxiolytic; Buspirone; Tachykinin; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone); Corticosterone (Spooren, W.P.J.M. (435) 161)

Antiepileptic drug; Anxiety; KeppraTM; Levetiracetam; Withdrawal (Lamberty, Y. (439) 101)

GABA receptor; Mutagenesis (Wingrove, P.B. (437) 31)

Kidney; Vasculature; (Rat) (Monasterolo, L.A. (449) 155)

Zaleplon; Zolpidem; GABA_A receptor; Recombinant; Cl⁻ current; *Xenopus* oocyte (Sanna, E. (451) 103)

Benzodiazepine receptor, peripheral

SSR 180575; Rheumatoid arthritis; Mrl/lpr mouse; Chondrocyte (Bribes, E. (452) 111)

Benzodiazepine receptor, peripheral-type

Methamphetamine; [³H]GBR 12935; HSP27; Carnosine; [³H]Paroxetine (Pubill, D. (448) 165)

Beraprost sodium

Prostacyclin; Renal dysfunction; Nephritis; Anti-glomerular basement membrane; MCP-1 (monocyte chemoattractant protein-1); Collagen (Yamada, M. (449) 167)

Beta-cell damage

Diazoxide; Streptozotocin-induced diabetes; Diabetes, Rat (Matsuda, M. (453) 141)

Betahistine dihydrochloride

Histidine decarboxylase; Histamine H₃ receptor; In situ hybridization; Radioautography; Vestibular nuclei; Tuberomammillary nuclei (Tighilet, B. (446) 63)

Beta-oxidation

Atorvastatin; BMS-201038; Triglyceride; (Rat) (Funatsu, T. (455) 161)

BIAcore assay

Scorpion neurotoxin; BmK abT; Na⁺ channel; Receptor binding site (Ji, Y.-H. (454) 25)

Biarylpropylsulfonamide

AMPA receptor; Cyclothiazide (Quirk, J.C. (454) 125)

BIBO3304

Neuropeptide FF; Neuropeptide Y; BIBP3226; G-protein coupled receptor; cAMP assay; Neuropeptide Y Y₁ receptor antagonist (Mollereau, C. (451) 245)

BIBP3226

Neuropeptide Y; Neuropeptide Y Y₁ receptor antagonist; Neuropeptide Y Y₂ receptor antagonist; BIIE0246; Sympathetic; Vasoconstriction (Malmström, R.E. (447) 11)

Neuropeptide FF; Neuropeptide Y; BIBO3304; G-protein coupled receptor; cAMP assay; Neuropeptide Y Y₁ receptor antagonist (Mollereau, C. (451) 245)

Bicarbonate-dependent secretion

Cannabinoid; Enkephalin; Inflammatory mediator; Prostanoid (Green, B.T. (451) 185)

Bicuculline

GABA_A receptor; GABA (γ -aminobutyric acid)-mimetic; Clomethiazole; Neuroprotective agent (Nelson, R.M. (452) 255)

BIIE0246

Neuropeptide Y Y₂ receptor; Prejunctional; Sympathetic transmission (Malmström, R.E. (439) 113)

Neuropeptide Y; Neuropeptide Y Y₁ receptor antagonist; Neuropeptide Y Y₂ receptor antagonist; BIBP3226; Sympathetic; Vasoconstriction (Malmström, R.E. (447) 11)

Bile acid

Cholesterol; Cholesterol 7 α -hydroxylase; (*Curcuma comosa*); Phloracetophenone (Piyachaturawat, P. (439) 141)

Inositol phosphate formation; MAP (mitogen activated protein) kinase (p44/p42) phosphorylation; Molecular modeling; Muscarinic receptor; Radioligand binding (Raufman, J.-P. (457) 77)

RANTES; Chenodeoxycholic acid; NF- κ B (Nuclear factor- κ B); Fibrate; PPAR α (peroxisome proliferator-activated receptor) (Hirano, Y. (448) 19)

Bile pigment

Heme oxygenase-2; Biliverdin reductase; Carbon monoxide; Nitrgic relaxation; Gastric fundus, pig (Colpaert, E.E. (457) 177)

Biliverdin reductase

Heme oxygenase-2; Bile pigment; Carbon monoxide; Nitrgic relaxation; Gastric fundus, pig (Colpaert, E.E. (457) 177)

Bimoclomol

Heat shock protein; Cardiomyocyte; Cytoprotection (Polakowski, J.S. (435) 73)

Binding

Ca²⁺ channel; Nifedipine; Smooth muscle; Contraction; Vas deferens, rat (Verde, L.F. (443) 13)

δ -Opioid receptor, subtype; Chinese hamster ovary (CHO) cell; [³⁵S]GTP γ S; Naltrindole derivative (Parkhill, A.L. (451) 257)

Binding assay

Zaleplon; Nonbenzodiazepine; Hypnotic; ω_1 receptor; EEG (electroencephalogram) (Noguchi, H. (434) 21)

Adenosine A₃ receptor; KF26777 (2-(4-bromophenyl)-7,8-dihydro-4-propyl-1*H*-imidazo[2,1-*i*]purin-5(4*H*)-one dihydrochloride); Ca²⁺; Guanine nucleotide (Saki, M. (444) 133)

Binding thermodynamics

Adenosine A₁ receptor; Adenosine A₁ receptor agonist; Allosteric; Modulation; Temperature dependence (Dalpiaz, A. (448) 123)

Biodistribution

[¹¹C]RN5; α_1 -Adrenoceptor antagonist; PET (positron emission tomography) (Matarrese, M. (453) 231)

Bipolar mood disorder

Lithium chloride; Protein kinase C; Down regulation; 1321N1 human astrocytoma cell; Ca²⁺ mobilization, intracellular (Kurita, M. (442) 17)

Depressive disorder; Pharmacogenetics; Genetics (Serretti, A. (438) 117)

Bis-cyclopentadienylditiocianatetitanium (IV)

Ehrlich ascites tumour; Metallocene; Titanocene Dichloride; Myelopoiesis (Valadares, M.C. (439) 35)

Bisphosphonate

Osteoporosis; Ovariectomy; Bone mineral density; Deoxypyridinoline (Teramura, K. (449) 191)

Osteoporosis; Ovariectomy; Bone mineral density; Deoxypyridinoline (Teramura, K. (457) 51)

Biting, scratching, licking (BSL)

Spinal analgesia; Septide; NMDA; [Nphe¹]nociceptin-(1-13)-NH₂ (Villanueva, N. (445) 83)

Bladder

Long-chain fatty alcohol; Ischemia–reperfusion injury; Free radical; Malonaldehyde (Saito, M. (454) 81)

Bladder, overactive

Irritable bowel syndrome; Urinary bladder; Ileum (Modiri, A.-R. (451) 171)

Bladder, rat

Bradykinin; Bradykinin receptor; T-kinin; Des-Arg¹¹-T-kinin; Smooth muscle cell (Davis, C. (450) 123)

Bleeding time

Von Willebrand factor (vWF); Platelet; Thrombosis; AJW200 (Kageyama, S. (443) 143)

Blood–brain barrier

Endotoxin; P-Glycoprotein; Doxorubicin (Zhao, Y.L. (445) 115)

Inflammation; Tight junctions; Pain; Occludin; Zonula occludens-1 (Huber, J.D. (450) 297)

Blood–brain barrier disruption

Cerebral ischemia, transient focal; Neurological deficit; Nitric oxide (NO); L-Name (N^ω-nitro-L-arginine-methylester) (Ding-Zhou, L. (457) 137)

Blood flow

Glutathione; Mucus; Nicotine; Prostaglandin E₂; Gastric ulcer (Wong, D. (434) 81)

Mesenteric blood vessel; Vascular conductance; Ca²⁺-activated, Cl[−] channel; α_1 -Adrenoceptor (Parai, K. (448) 59)

Nociceptin; Arterial pressure, mean; Peripheral resistance, total; Arterial conductance (Abdelrahman, A.M. (450) 263)

Blood pressure

CGRP (calcitonin gene-related peptide); Gender; Aging; Ovariectomy; Artery (Chan, G.H.H. (434) 133)

Aging; Angiotensin; Heart rate; Ketanserin; Reflex bradycardia; Urapidil (Buñag, R.D. (435) 85)

α_2 -Adrenoceptor; Sympathetic nerve activity; Rostral ventrolateral medulla; Clonidine; Methoxy-idazoxan (Vayssettes-Courchay, C. (453) 287)

Oxidative stress; Glutathione; Endothelial function (Ganafa, A.A. (454) 217)

GABA (γ -amino butyric acid); Noradrenaline; Mesenteric arterial bed; Perivascular nerve stimulation; Spontaneously hypertensive rat (SHR) (Hayakawa, K. (438) 107)

Ethanol; NECA (5'-N-ethylcarboxamidoadenosine); Nitric oxide (NO); Radiotelemetry; Aorta (Rekik, M. (452) 205)

Vascular tension; K⁺ channel; 4-Aminopyridine; Adrenergic system (Berg, T. (452) 325)

Blood urea nitrogen

Cisplatin; Renal toxicity; Radical scavenger; Creatinine; Glutathione (Sueishi, K. (451) 203)

B_{max}

Sterptozotocin-induced diabetes; Morphine; Tail-flick; antinociception; Nimodipine; [³H]PN200-110; Saturation binding (Gullapalli, S. (435) 187)

Tail-flick test; Analgesia; Naloxone; Morphine; Supersensitivity; Nimodipine; [³H]PN200-110 binding (Gullapalli, S. (451) 271)

BmK abT

Scorpion neurotoxin; Na⁺ channel; Receptor binding site; BIAcore assay (Ji, Y.-H. (454) 25)

BMS-201038

Atorvastatin; Beta-oxidation; Triglyceride; (Rat) (Funatsu, T. (455) 161)

BMV-7378

Adrenoceptor subtype; α_{1D} -Adrenoceptor antagonist; ($\pm$)-Domesticine (Indra, B. (445) 21)

Body temperature

5-HT₇ receptor; 5-HT (5-hydroxytryptamine, serotonin); Plasma glucose; Dopamine D2 receptor; 5-HT₇ receptor antagonist (Kogan, H.A. (449) 105)

(+)-Boldine

α_1 -Adrenoceptor; α_2 -Adrenoceptor; Subtype; Selectivity; Functional experiment; Radioligand binding study; Ca²⁺ channel antagonism; Cardiac effect (Eltze, M. (443) 151)

Bombesin

Astrocyte; CHO cell; FLIPR; Ca²⁺; [D-Phe⁶, des-Met¹⁴]bombesin-(6–14) ethylester (Mason, S. (438) 25)

GRP (gastrin-releasing peptide); GRP receptor; Bombesin BB₁ receptor; Bombesin BB₂ receptor; Bombesin bb₃ receptor; Feeding behavior; Obesity (Yamada, K. (440) 281)

Bombesin BB₁ receptor

Bombesin; GRP (gastrin-releasing peptide); GRP receptor; Bombesin BB₂ receptor; Bombesin bb₃ receptor; Feeding behavior; Obesity (Yamada, K. (440) 281)

Bombesin BB₂ receptor

Bombesin; GRP (gastrin-releasing peptide); GRP receptor; Bombesin BB₁ receptor; Bombesin bb₃ receptor; Feeding behavior; Obesity (Yamada, K. (440) 281)

Bombesin bb₃ receptor

Bombesin; GRP (gastrin-releasing peptide); GRP receptor; Bombesin BB₁ receptor; Bombesin BB₂ receptor; Feeding behavior; Obesity (Yamada, K. (440) 281)

Bone

Diacerein; Rhein; Inflammation; Arthritis (Tamura, T. (448) 81)

Bone mineral density

Bisphosphonate; Osteoporosis; Ovariectomy; Deoxypyridinoline (Tamura, K. (449) 191)

Bisphosphonate; Osteoporosis; Ovariectomy; Deoxypyridinoline (Tamura, K. (457) 51)

Bone resorption

S12911-2; Osteoclast; Differentiation (Baron, R. (450) 11)

Bosentan

Glibenclamide; Pregnane X receptor; Cytochrome P450 enzyme induction (van Giersbergen, P.L.M. (450) 115)

Bradycardia

Muscarinic receptor antagonist; Urinary bladder; Micturition reflex; Salivation (Hirose, H. (452) 245)

Bradykinin

Bradykinin receptor; T-kinin; Des-Arg¹¹-T-kinin; Bladder, rat; Smooth muscle cell (Davis, C. (450) 123)

Prejunctional interaction; Angiotensin II; Newborn, rat; Protein kinase C (Mota, A. (453) 265)

Bradykinin B₁ receptor

Insulin-dependent diabetes mellitus; Hyperalgesia; Kinin; Des-Arg⁹-bradykinin; Bradykinin B₁ receptor antagonist; R-715; R-954 (Gabra, B.H. (457) 115)

Bradykinin B₁ receptor antagonist

Insulin-dependent diabetes mellitus; Hyperalgesia; Kinin; Bradykinin B₁ receptor; Des-Arg⁹-bradykinin; R-715; R-954 (Gabra, B.H. (457) 115)

Bradykinin receptor

Bradykinin; T-kinin; Des-Arg¹¹-T-kinin; Bladder, rat; Smooth muscle cell (Davis, C. (450) 123)

Brain

Mineralocorticoid hypertension; RU28318; Diuresis; Angiotensinogen (Rahmouni, K. (436) 207)

Noradrenaline; Plasma; Interleukin-1 β ; Nitric oxide (NO) synthase, inducible (Murakami, Y. (455) 73)

Diabetes mellitus; Dementia; Pathogenesis (Biessels, G.J. (441) 1)

Aging; Diabetes mellitus; Nerve; Neuron; Ca²⁺; Pathogenesis; Treatment; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

Prostaglandin E₂; Thromboxane A₂; Noradrenaline; Adrenaline; Plasma; Sympathetic outflow; Adrenomedullary outflow (Murakami, Y. (452) 289)

Brain, human

[³⁵S]GTP γ S binding; μ -Opioid receptor; G-protein; GABA_B receptor; Receptor reserve; Signal transduction (González-Maeso, J. (452) 21)

Brain ischemia

Erythropoietin; Passive avoidance; Learning ability (Catania, M.A. (437) 147)

Brain, rat

Opioid receptor; Etorphine derivative; Radioligand binding; [³⁵S]GTP γ S binding (Biyashev, D. (442) 23)

α_1 -Adrenoceptor subtype; [³H]Prazosin binding; Imipramine; Electroconvulsive shock; α_1 -Adrenoceptor mRNA (Nalepa, I. (444) 151)

Cannabinoid; Anandamide; Tolerance; Cytochrome P450; Liver, rat (Costa, B. (449) 61)

Imidazoline binding site; Autoradiography; BU224 (2-(4,5-dihydroimidazo-2-yl)-quinoline (Robinson, E.S.J. (450) 55)

Brain stem

Vagus; Raphe nucleus; Autonomic nervous system; 5-HT (5-hydroxytryptamine, serotonin) (Varanasi, S. (436) 67)

Bremazocine

κ -Opioid receptor; Peripheral antinociception; Nitric oxide; Cyclic GMP; Carrageenan (Amarante, L.H. (454) 19)

5-Bromonicotine

Nicotinic receptor; (–)-Nicotine; 5-Methoxynicotine; In vitro model; In vivo model (Dukat, M. (435) 171)

Bronchoconstriction

Adenosine; Histamine; Leukotriene; Cyclooxygenase product (Martin, T.J. (451) 89)

Bronchial asthma

Low-molecular-weight heparin; Poly-L-glutamic acid; Poly-L-lysine; Cationic–anionic interaction (Yahata, T. (434) 71)

α_{1L} -Adrenoceptor; α_{1H} -Adrenoceptor; Leukotriene C₄; Asthmatic response, immediate (Nobata, K. (452) 97)

Bronchial hyperresponsiveness

Airway inflammation; Rapamycin; IMM125; SAR943; Budesonide; Th1 cytokine; Th2 cytokine (Huang, T.-J. (437) 187)

Nitric oxide (NO); Nitric oxide (NO) synthase 2; Airway inflammation; SC-51 (Eynott, P.R. (452) 123)

Bronchoconstriction

Leukotriene receptor antagonist; CysLT receptor; Leukotriene D₄; Asthma; Airway inflammation (Cabré, F. (451) 317)

Bronchodilation

β -Adrenoceptor agonist; Adrenaline; Enantiomer; Asthma (Waldeck, B. (445) 1)

Bronchus

Ovalbumin; Histamine; Leukotriene D₄; Schultz–Dale reaction; Arachidonic acid (Seow, C.-J. (443) 189)

Brown Norway rat

Allergic pulmonary inflammation; Ovalbumin; Adenosine A_{2A} receptor; CGS 21680; ZM 243185 (Fozard, J.R. (438) 183)

BTS 54 505

Sibutramine; Duloxetine; Bupropion; Thermogenesis; Food intake (Liu, Y.-L. (452) 49)

BU224 (2-(4,5-dihydroimidaz-2-yl)-quinoline

Imidazole binding site; Autoradiography; Brain, rat (Robinson, E.S.J. (450) 55)

Buddleja officinalis Maxim

Verbascoside; Phenylpropanoid glucoside; Oxidative stress; Apoptosis; Parkinson's disease (Sheng, G.-Q. (451) 119)

Budesonide

Calu-1 cell; MRP (Multidrug resistance-associated protein) (Bandi, N. (437) 9)

Bronchial hyperresponsiveness; Airway inflammation; Rapamycin; IMM125; SAR943; Th1 cytokine; Th2 cytokine (Huang, T.-J. (437) 187)

Buoyant density separation

Endocytosis rate; Endosomal sorting; Lysosomal sorting; Selective agonist endocytosis; Receptor affinity; Receptor conservation (Parker, M.S. (452) 279)

Bupicaine

Lidocaine; Ropivacaine; Cholesterol; Membrane ionic permeability (Pardo, L. (455) 81)

Buprenorphine

Formalin test; Hot plate; Tail immersion; Morphine; Nociception (Gilbert, A.-K. (449) 75)

Bupropion

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Nicotine; Nicotine receptor; Drug addiction (Glick, S.D. (448) 185)

Sibutramine; BTS 54 505; Duloxetine; Thermogenesis; Food intake (Liu, Y.-L. (452) 49)

Buspirone

Stress-induced hyperthermia; Anxiolytic; Benzodiazepine; Tachykinin; mGlu₁ receptor antagonist; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone); Corticosterone (Spooren, W.P.J.M. (435) 161)

5-HT_{1A} receptor; 5-HT₄ receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Antidepressant; Clozapine; Imipramine; Haloperidol (Zahorodna, A. (443) 51)

CA1

Morphine; Conditioned place preference; Hippocampus; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); (Rat) (Karami, M. (449) 113)

CA1 area

Hippocampus; Nitric oxide (NO); Learning; Long-term potentiation; (Rat) (Hölscher, C. (457) 99)

Ca²⁺

Nitric oxide (NO) synthase, neuronal; Calmodulin; Radioligand binding (Weissman, B.A. (435) 9)

Smooth muscle, Arterial; Pervanadate; Tyrosine phosphorylation; Nifedipine; Verapamil; Myosin light-chain kinase (Murphy, T.V. (442) 107)

Lignan; Ca²⁺ store; Fura-2; MDCK cell; Thapsigargin (Chao, Y.-Y. (443) 31)

Adenosine A₃ receptor; KF26777 (2-(4-bromophenyl)-7,8-dihydro-4-propyl-1*H*-imidazo[2,1-*i*]purin-5(4*H*)-one dihydrochloride); Binding assay; Guanine nucleotide (Saki, M. (444) 133)

5-Hydroxytryptamine; Glial; IP₃; Glutamate (Meller, R. (445) 13)

Ca²⁺ indicator; Fluorescence; Neocortex; Dendrite; Two-photon; In vivo; Olfactory bulb (Helmchen, F. (447) 119)

Transcription; cAMP response element binding protein (CREB); CREB binding protein (CBP); Serum response element (SRE) (Chawla, S. (447) 131)

Glutamate; Mitochondrion; Apoptosis; Necrosis; Motor neuron disease; Alzheimer's disease (Krieger, C. (447) 177)

Diabetes mellitus; Nerve; Brain; Neuron; Pathogenesis; Treatment; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

Glia; ATP; Purinoreceptor; Astrocyte; Oligodendrocyte; Microglia; Axon; Signalling (James, G. (447) 247)

Ca²⁺-sensing receptor; Polyvalent cation; Calcimimetic compound (McLarnon, S.J. (447) 271)

Adenosine receptor; Adenosine receptor antagonist; cAMP; Glycogenolysis; Gluconeogenesis (González-Benítez, E. (437) 105)

K⁺ channel; SK channel; Dequalinium; Afterhyperpolarization; Neuron (Cao, Y.-J. (449) 47)

P2X₂ receptor; Ion channel; Multivalent cation block; Site-directed mutagenesis; *Xenopus* oocyte (Nakazawa, K. (449) 207)

Astrocyte; CHO cell; FLIPR; Bombesin; [D-Phe⁶, des-Met¹⁴]bombesin-(6–14) ethylester (Mason, S. (438) 25)

Endotoxin; Zn²⁺ level; Oxidative stress; Metallothionein; Nitric oxide (NO) (Sakaguchi, S. (451) 309)

Ca²⁺-activated, Cl[−] channel

Mesenteric blood vessel; Vascular conductance; Blood flow; α₁-Adrenoceptor (Parai, K. (448) 59)

Ca²⁺ binding protein

Endoplasmic reticulum; Ca²⁺ signalling; Unfolded protein response; Endoplasmic reticulum overload response; Neuronal survival; Chaperone (Verkhatsky, A. (447) 141)

Ca²⁺ channel

Nifedipine; Smooth muscle; Contraction; Binding; Vas deferens, rat (Verde, L.F. (443) 13)

Uterus; Mibefradil (Asokan, K.T. (455) 65)

Endothelium; Geissoschizine methyl ether; Nitric oxide (NO); Aorta, rat; Vasorelaxation (Yuzurihara, M. (444) 183)

Tamoxifen; Tamoxifen metabolite; Non-genomic; Intestinal muscle; Spasmolytic effect (Diaz, M. (445) 257)

Ca²⁺ channel antagonism

(+)-Boldine; α₁-Adrenoceptor; α₂-Adrenoceptor; Subtype; Selectivity; Functional experiment; Radioligand binding study; Cardiac effect (Eltze, M. (443) 151)

Ca²⁺ channel antagonist

Phosphodiesterase type 5 inhibitor; Aorta, rat; Relaxation; Cyclic nucleotide (Mochida, H. (440) 45)

Ca²⁺ channel blocker

L-*cis* Diltiazem; Myocardial ischemia; K⁺ accumulation (Sato, R. (434) 125)

Halothane; Na⁺ channel blocker; Hypoxia; Nitric oxide (NO) synthesis; Cerebral cortex (Oka, M. (452) 175)

Ca²⁺ channel, Cardiac

Myocardial infarction; Calpain system (Sandmann, S. (453) 99)

Ca²⁺ channel current

Ginseng; Ginsenoside; Antinociception; Patch-clamp; Pertussis toxin; Sensory neurons (Rhim, H. (436) 151)

Ca²⁺ channel, high-threshold

Neomycin; Whole-cell patch recording; Na⁺ channel, tetrodotoxin-resistant; Pain (Zhou, Y. (450) 29)

Ca²⁺ channel, L-type

Iso-S-Petasin; Vascular smooth muscle cell; Intracellular Ca²⁺ concentration; Hypotension (Wang, G.-J. (445) 239)

Ca²⁺ channel, voltage-gated; Ca_v1.3; Embryo, mouse; Heart; Dihydropyridine (Klugbauer, N. (447) 279)

[³H]Nitrendipine; [³H]Diltiazem; Uterus, pregnant rat; Drotaverine (Tömsközi, Z. (449) 55)

Ca²⁺ channel ligand, L-type

Tetrandrine; Nicotinic receptor; *Xenopus* oocyte (Slater, Y. (450) 213)

Ca²⁺ channel, N-type

Cilnidipine; ω-Conotoxin MVIIA; Sympathetic nerve (Takahara, A. (434) 43)

ω-Conotoxin; Morphine; Neuropathic pain (Scott, D.A. (451) 279)

Ca²⁺ channel, T-type

Gossypol; Antifertility; Spermatogenic cell, mouse; Whole-cell recording; Cl[−] channel (Bai, J. (440) 1)

Ca²⁺ channel subtype

GABA_B receptor; Ca²⁺ current; Transfection; NG108-15 cell; Antisense (Easter, A. (440) 17)

Ca²⁺ channel, voltage-dependent

Acidic pH-induced contraction; Acidic pH; Spontaneously hypertensive rat; Wistar Kyoto rat; Cl[−] channel (Rohra, D.K. (453) 279)

Ca²⁺ channel, voltage-gated

Ca_v1.3; L-type Ca²⁺ channel; Embryo, mouse; Heart; Dihydropyridine (Klugbauer, N. (447) 279)

Ca²⁺ channel, voltage-operated

Gabapentin; Patch clamp; Ca²⁺ imaging (van Hooft, J.A. (449) 221)

Ca²⁺ channel, voltage-sensitive

Detrusor smooth muscle; G-protein; Muscarinic receptor; Purinergic receptor; Dihydropyridine (Kajioka, S. (443) 19)

Ca²⁺ compartmentalisation

Dendritic spine; Mossy fibre synapse; CA3 pyramidal neuron (Reid, C.A. (447) 173)

Ca²⁺ concentration, cellular-free

DMDI (1-(3',4'-dimethoxybenzyl)-6,7-dichloroisoquinoline); Neutrophil; Respiratory burst; Signal transduction; Phospholipase D; MAP (Mitogen-activated protein) kinase (Wang, J.-P. (434) 9)

Ca²⁺ concentration, intracellular

AMPA receptor; Cortical neurone, cultured; GABA (γ-aminobutyric acid) immunocytochemistry; Co²⁺ uptake; Fura-2 microfluorimetry (Fischer, W. (438) 53)

Iso-S-Petasin; Vascular smooth muscle cell; L-type Ca²⁺ channel; Hypotension (Wang, G.-J. (445) 239)

Ca²⁺ current

GABA_B receptor; Ca²⁺ channel subtype; Transfection; NG108-15 cell; Antisense (Easter, A. (440) 17)

Ca²⁺ current, L-type

Phosphodiesterase inhibitor; Atrial cell, human; Atrial cell, rabbit; Levosimendan (Ajiro, Y. (435) 27)

Ca²⁺ imaging

Caffeine; Ryanodine; Thapsigargin; Aging; Excitotoxicity; Endoplasmic reticulum (Clodfelter, G.V. (447) 189)

Gabapentin; Ca²⁺ channel, voltage-operated; Patch clamp (van Hooft, J.A. (449) 221)

Ca²⁺ indicator

Ca²⁺; Fluorescence; Neocortex; Dendrite; Two-photon; In vivo; Olfactory bulb (Helmchen, F. (447) 119)

Ca²⁺ influx

Endothelin; Mitogenesis; Extracellular signal-regulated kinase (Kawanabe, Y. (435) 119)

Synaptic transmission; Synaptic terminal; Neurotransmitter release (Fedulova, S.A. (447) 163)

Ca²⁺, intracellular

SH-SY5Y neuroblastoma; σ Receptor; Muscarine; (+)-Pentazocine; Haloperidol (Hong, W. (436) 35)

Receptor binding; CCL18, I-TAC; vMIP; Small molecule antagonist; Constitutive activity (Wan, Y. (456) 1)

Cl[−] channel; K⁺ channel; Na⁺–K⁺-ATPase; NO; Colon, rat (Schultheiss, G. (444) 21)

MGC-803 cell; Arsenite; Reactive oxygen species; α -tocopherol; Apoptosis (Chen, A. (448) 11)

Sphingolipid; Thyroid; Current-clamp; Cl[−] channel (Törnquist, K. (453) 1)

Ca²⁺ intracellular

Anisodamine; Myocyte shortening; Nitric oxide (NO); Cholinoceptor (Norby, F.L. (439) 21)

Ca²⁺ mobilization, intracellular

Lithium chloride; Bipolar mood disorder; Protein kinase C; Down regulation; 1321N1 human astrocytoma cell (Kurita, M. (442) 17)

CA3 pyramidal neuron

Dendritic spine; Ca²⁺ compartmentalisation; Mossy fibre synapse (Reid, C.A. (447) 173)

Ca²⁺-sensing receptor

Ca²⁺; Polyvalent cation; Calcimimetic compound (McLarnon, S.J. (447) 271)

Ca²⁺ signalling

Endoplasmic reticulum; Ca²⁺ binding protein; Unfolded protein response; Endoplasmic reticulum overload response; Neuronal survival; Chaperone (Verkhatsky, A. (447) 141)

Ca²⁺ store

Lignan; Ca²⁺; Fura-2; MDCK cell; Thapsigargin (Chao, Y.-Y. (443) 31)

Caffeic acid

Rosmarinic acid; Forced swimming test; Antidepressant; (Mouse) (Takeda, H. (449) 261)

Caffeine

Ryanodine; Thapsigargin; Aging; Excitotoxicity; Endoplasmic reticulum; Ca²⁺ imaging (Clodfelter, G.V. (447) 189)

Calcimimetic compound

Ca²⁺; Ca²⁺-sensing receptor; Polyvalent cation (McLarnon, S.J. (447) 271)

Calcineurin

FK506; Cyclosporin A; ATDC5 cell; Chondrogenic differentiation; Cartilage (Nishigaki, F. (437) 123)

Tacrolimus; Dopamine D1 receptor; Dopamine D2 receptor; Dopamine D3 receptor; Locomotor activity (Sakanoue, M. (438) 93)

Calmodulin

Nitric oxide (NO) synthase, neuronal; Ca²⁺; Radioligand binding (Weissman, B.A. (435) 9)

Calmodulin antagonist

Cancer; Clotrimazole; Glycolysis; ATP (Penso, J. (451) 227)

Calpain system

Ca²⁺ channel, cardiac; Myocardial infarction (Sandmann, S. (453) 99)

Calu-1 cell

Budesonide; MRP (Multidrug resistance-associated protein) (Bandi, N. (437) 9)

cAMP

β -Adrenoceptor agonist; Adenylyl cyclase; SQ 22536; Smooth muscle, vascular; Pulmonary vein (Gao, Y. (436) 227)

Adenosine receptor; Adenosine receptor antagonist; Ca²⁺; Glycogenolysis; Gluconeogenesis (González-Benítez, E. (437) 105)

Mechanical stretch; Glomerulosclerosis; MAP (mitogen-activated protein) kinase; AP-1 (activator protein-1); Fibronectin (Nishio, T. (437) 113)

NAAG (*N*-acetylaspartylglutamate); Glutamate receptor metabotropic; Neonatal hypoxia-ischemia; L-AP4 (L-(+)-2-amino-4-phosphonobutyric acid); *t*-ACPD (*trans*-[1S,3R]-1-Amino-cyclopentane-1,3-dicarboxylic acid) (Cai, Z. (437) 139)

Androgen; Atrium, rat (Velasco, L. (438) 45)

β -Adrenoceptor, atypical; β_3 -Adrenoceptor; Gastric fundus, guinea pig; Duodenum, guinea pig; SQ-22,536 (Horinouchi, T. (442) 137)

Adenosine derivative; Purine; Phospholipase C; Guanine nucleotide (Gao, Z.-g. (443) 39)

IP receptor; EP₃ receptor; Cell migration (Blindt, R. (444) 31)

Angiotensin II; Angiotensin AT₁ receptor; Cardiomyocyte (Chen, X. (448) 1)

Muscarinic receptor subtype; Dopamine D1-like receptor; Nucleus accumbens (Onali, P. (448) 105)

Adrenomedullin; CGRP (calcitonin gene-related peptide); CRL (Calcitonin receptor-like) receptor; RAMP (Receptor activity-modifying protein); α -CGRP-(8–37) (Nagoshi, Y. (450) 237)

Baclofen; Lipopolysaccharide; Interleukin-6; GABA_B receptor antagonist; Pituicyte; Neurohypophysis (Kjeldsen, T.H. (451) 209)

ANP (atrial natriuretic peptide); Atrium; Phosphodiesterase; ANP (atrial natriuretic peptide) secretion; ANP (atrial natriuretic peptide) release (Cui, X. (451) 295)

Histamine H₃ receptor; ¹²⁵Iodoproxyfan; Inverse agonism (Wulff, B.S. (453) 33)

β_2 -Adrenoceptor; Molecular cloning; Radioligand binding; Single nucleotide polymorphism (Oostendorp, J. (457) 1

cAMP assay

Neuropeptide FF; Neuropeptide Y; BIBP3226; BIBO3304; G-protein coupled receptor; Neuropeptide Y Y₁ receptor antagonist (Mollereau, C. (451) 245)

cAMP formation

Nociceptin/orphanin FQ; [(pF)Phe⁴]N/OFQ-(1–13)NH₂; GTP γ ³⁵S binding; Recombinant, NOP receptor; NOP receptor antagonist (McDonald, J. (443) 7)

Nociceptin/orphanin FQ; [Nphe¹]N/OFQ (1–13)NH₂; Desensitization; [¹²⁵I]Y¹⁴N/OFQ binding (Hashimoto, Y. (449) 17)

cAMP pathway

Penile artery; Penile vein; Milrinone; Rolipram (Segarra, G. (444) 103)

cAMP production

CGRP receptor; Cerebral vessel, human; Dilatation (Edvinsson, L. (434) 49)

cAMP response element binding protein (CREB)

Ca²⁺; Transcription; CREB binding protein (CBP); Serum response element (SRE) (Chawla, S. (447) 131)

Cancer

Calmodulin antagonist; Clotrimazole; Glycolysis; ATP (Penso, J. (451) 227)

Somatostatin receptor subtype; Octreotide; Peptide; Peptide receptor targeting (Reubi, J.C. (456) 45)

Cannabidiol

CP55940; WIN55212; Drug interaction; Cannabinoid CB₁ receptor; Vas deferens, mouse (Pertwee, R.G. (456) 99)

Cannabinoid

Anandamide; Tetrahydrocannabinol; Structure–activity relationship; Receptor (Martin, B.R. (435) 35)

Vanilloid; Vanilloid VR1 receptor; Anandamide; Arvanil (Brooks, J.W. (439) 83)

Cannabinoid CB₁ receptor antagonist; Melanocortin; Hemorrhagic shock; (Rat) (Cainazzo, M.M. (441) 91)

WIN55,212-2; Hippocampus; Temperature; GABA (γ -aminobutyric acid), uptake (Al-Hayani, A. (442) 47)

Sympathetic neurotransmission; Sensory nerve; Mesenteric arterial bed, rat; Capsaicin; Methanandamide (Ralevic, V. (444) 171)

2-Arachidonoylglycerol; Anandamide; Colon, guinea-pig (Kojima, S.-i. (444) 203)

Morphine; Naloxone; SR 141716; Alcohol intake; Sardinian alcohol-preferring (sP) rat (Vacca, G. (445) 55)

Anandamide; Tolerance; Cytochrome P450; Liver, rat; Brain, rat (Costa, B. (449) 61)

Bicarbonate-dependent secretion; Enkephalin; Inflammatory mediator; Prostanoid (Green, B.T. (451) 185)

Epilepsy; Electroshock, maximal; Seizure; Cannabinoid CB₁ receptor; Anandamide; O-1812 (Wallace, M.J. (452) 295)

Long-term potentiation; Learning and memory; (Rat) (Diana, G. (453) 251)

Basal ganglion; Dystonia; Movement disorder (Richter, A. (454) 145)

Cannabinoid CB₁ receptor

Ileum; GABA (γ -aminobutyric acid) release; Ethylenediamine; Anandamide (Begg, M. (434) 87)

Δ^9 -Tetrahydrocannabinol; Ethanol intake; SR 141716A; Object recognition task; Alcohol-preferring rat (Ciccocioppo, R. (449) 245)

Gastric emptying; Gastrointestinal transit; Pertussis toxin (Landi, M. (450) 77)

Epilepsy; Electroshock, maximal; Seizure; Cannabinoid; Anandamide; O-1812 (Wallace, M.J. (452) 295)

Cannabidiol; CP55940; WIN55212; Drug interaction; Vas deferens, mouse (Pertwee, R.G. (456) 99)

Animal model; Drug discrimination; Neuroprotectant; (Rat) (De Vry, J. (457) 147)

Cannabinoid CB₁ receptor antagonist

Cannabinoid; Melanocortin; Hemorrhagic shock; (Rat) (Cainazzo, M.M. (441) 91)

Cannabinoid CB₁ receptor antagonist, SR 141716

Alcohol deprivation effect; Sardinian alcohol-preferring (sP) rat (Serra, S. (443) 95)

Cannabinoid system

SR141716A; Inverse agonism; Adenylate cyclase (Mato, S. (443) 43)

Capacitance vessel

Nitroglycerin; Nitric oxide (NO); Metal nitrosyl complex; Vasodilator; MCFP (Poon, K.S. (436) 107)

Nociceptin; ORL1 receptor; Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Ganglionic blockade (Abdelrahman, A.M. (455) 143)

Capsaicin

CGRP (calcitonin gene-related peptide); Monophosphoryl lipid A; Preconditioning; Ischemia–reperfusion; Nitric oxide (NO) (Peng, J. (436) 89)

Nociception; Glutamate; Periaqueductal grey (Palazzo, E. (439) 69)

Insulin resistance; Nitroglycerin (Porszasz, R. (443) 211)

Cannabinoid; Sympathetic neurotransmission; Sensory nerve; Mesenteric arterial bed, rat; Methanandamide (Ralevic, V. (444) 171)

Anandamide; Arachidonic acid; Prostaglandin F_{2 α} ; Phospholipase A₂; PC12 cell (Someya, A. (450) 131)

Captopril

Tolerance; Nitroglycerin; CGRP (calcitonin gene-related peptide); N-acetylcysteine (Zhou, Z.-H. (439) 129)

Carbazochrome

Radiographic contrast media; Pulmonary edema; Vascular permeability; Evans blue; Endothelial barrier function (Sendo, T. (450) 203)

Carboline

Neurotoxin; (TaClO) 1-Trichloromethyl-1,2,3,4-tetrahydro- β -carboline; Parkinson's disease; (MPTP) 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Riederer, P. (442) 1)

Carbon monoxide

Heme oxygenase; Glutamate receptor, Metabotropic; Nucleus tractus solitarius (Lo, W.-C. (454) 39)

Heme oxygenase-2; Biliverdin reductase; Bile pigment; Nitric relaxation; Gastric fundus, pig (Colpaert, E.E. (457) 177)

Carboxy-PTI (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl)

Dopamine uptake; Nitric oxide (NO) scavenger; Carboxy-PTIO (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide) (Cao, B.-J. (448) 27)

Carboxy-PTIO (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide)

Dopamine uptake; Nitric oxide (NO) scavenger; Carboxy-PTI (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl) (Cao, B.-J. (448) 27)

Cardiac effect

(+)-BOLDINE; α_1 -Adrenoceptor; α_2 -Adrenoceptor; Subtype; Selectivity; Functional experiment; Radioligand binding study; Ca^{2+} channel antagonism (Eltze, M. (443) 151)

Cardiac hypertrophy

HMG-CoA reductase inhibitor; Endothelin; Rho protein; Myocyte (Nishikimi, T. (453) 175)

Cardiac myocyte

Streptomycin sulphate; Ion channel (Belus, A. (445) 171)

Cardiac performance

Hexarelin; Secretagogue; Ghrelin; GHRH (growth hormone-releasing hormone); Coronary artery disease (Broglio, F. (448) 193)

Cardiomyocyte

Bimoclonol; Heat shock protein; Cytoprotection (Polakowski, J.S. (435) 73)

Hypoxia; Oxidative stress; Adrenomedullin (Yoshihara, F. (436) 1)

Neuropeptide Y; (Rat); Hypertrophy; Protein turnover; Receptor subtype; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); Skeletal- α -actin; MHC- β (myosin heavy chain- β) (Nicholl, S.M. (441) 23)

Angiotensin II; Angiotensin AT₁ receptor; cAMP (Chen, X. (448) 1)

Cell culture; Electrophysiology; Cell contraction; Adenosine receptor; Simulated ischemia-reperfusion; (Rat) (Bès, S. (452) 145)

Apoptosis; Caspase; Infarct; Ischemia; Reperfusion (Chapman, J.G. (456) 59)

Cardiomyopathic hamster

Phosphodiesterase type 5; Heart failure; Survival (Inoue, H. (443) 179)

Cardioprotection

ME10092; Ischemia–reperfusion, rat (Dambrova, M. (445) 105)

Indole derivative; Myocardial infarct size; Ischemia–reperfusion; Malondialdehyde; Free radical scavenger (Andreadou, I. (453) 271)

Cardioprotective agent

Ventricle, human; Electrophysiology; Contractile force; Acidosis, intracellular; Fluorescent; Oxygen free radical; Antioxidant (Loh, S.-H. (443) 169)

Cardiovascular risk

Obesity; Orlistat; Lipase inhibitor; Weight loss; Weight maintenance (Ballinger, A. (440) 109)

Carnosine

Methamphetamine; [³H]GBR 12935; Benzodiazepine receptor, peripheral-type; HSP27; [³H]Paroxetine (Pubill, D. (448) 165)

Carrageenan

FR167653; p38 MAP (mitogen-activated protein) kinase inhibitor; Paw edema; Lipopolysaccharide; Vascular permeability (Nishikori, T. (451) 327)

Bremazocine; κ -Opioid receptor; Peripheral antinociception; Nitric oxide; cGMP (Amarante, L.H. (454) 19)

Carrageenan-induced pleurisy

Cyclooxygenase-2; Chemical modeling (Ottaná, R. (448) 71)

Carrageenan paw oedema

Pyrroloquinazoline; Eicosanoid; Cyclo-oxygenase-2; Air pouch, mouse; Analgesia (Rioja, I. (434) 177)

Cartilage

FK506; Cyclosporin A; ATDC5 cell; Chondrogenic differentiation; Calcineurin (Nishigaki, F. (437) 123)

Caspase

Apoptosis; Cardiomyocyte; Infarct; Ischemia; Reperfusion (Chapman, J.G. (456) 59)

EGCG ((–)-epigallocatechin-3-gallate); Hepatoprotection; Cell death cytotoxin-induced (Kagaya, N. (450) 231)

Caspase-3

Alcohol; Leydig cell; Apoptosis; Bax; Bcl-2 (Jang, M.-H. (449) 39)

Catalase

Retractor penis muscle, bovine; Nitric oxide (NO); Nitroxyl anion; Nitrovasodilator; Aorta, rat (Shahidullah, M. (435) 93)

H₂O₂; Diabetes; Contraction; Nitric oxide (NO); Streptozotocin (Kobayashi, T. (441) 83)

Catalepsy

Locomotor activity; Prepulse inhibition; Amphetamine; Dopamine; Parkinson's disease; Progressive supranuclear palsy (Ross, B.M. (450) 141)

Schizophrenia; Extrapyramidal side-effect; Neuroleptic; Antipsychotic; Dopamine D2 receptor; 5-HT_{1A} receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

Catecholamine

Inflammation; 5-HT (5-hydroxytryptamine, serotonin); Reactive oxygen species; Peripheral resistance; Indole-2,3-dione (Tozawa, Y. (440) 37)

Enfluramine; Lipopolysaccharide; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); Interleukin-10, glucocorticoid (Connor, T.J. (455) 175)

Catecholamine ratio

Noradrenaline plasma; Adrenaline; Ethanol tolerance; Ethanol dependence; Ethanol withdrawal; Adaptation (Kovács, G.L. (448) 151)

Catecholamine-regulated protein

D-Amphetamine; Desensitization, behavioural sensitization; Dopamine; Heat shock protein; Molecular chaperone (Gabriele, J. (453) 13)

Catecholamine secretion

PACAP (pituitary adenylate cyclase-activating polypeptide); Small-conductance Ca^{2+} -activated K^{+} (SK_{Ca}) channel; Large-conductance Ca^{2+} -activated K^{+} (SK_{Ca}) channel; Adrenal gland, rat (Fukushima, Y. (437) 69)

Neurosteroid; Pregnenolone sulfate; Nicotinic acetylcholine receptor; Adrenal chromaffin cell (Kudo, K. (456) 19)

Cathepsin D

Pepstatin A; *N*-acetyl-L-cysteine; Stellate cell; IGF-I (insulin-like growth factor-I); PDGF (platelet-derived growth factor) (Takashima, T. (451) 265)

Cathinone

MDMA (3,4-methylenedioxymethamphetamine); MDEA (3,4-methylenedioxyethylamphetamine); MDA (3,4-methylenedioxyamphetamine); Cocaine; Ventricular strip, rat; Contraction (Cleary, L. (451) 303)

Cationic–anionic interaction

Bronchial asthma; Low-molecular-weight heparin; Poly-L-glutamic acid; Poly-L-lysine (Yahata, T. (434) 71)

 $\text{Ca}_v1.3$

Ca^{2+} channel, voltage-gated; L-type Ca^{2+} channel; Embryo, mouse; Heart; Dihydropyridine (Klugbauer, N. (447) 279)

Cavernous nerve

Penile erection; Penile diameter; Electrical stimulation; Nitrate; Tolerance (Adachi, H. (445) 267)

CCK₁ receptor antagonist

Intracerebroventricular; Devazepide; Cholecystokinin (Ebenezer, I.S. (441) 79)

CCL18, I-TAC

Receptor binding; Ca^{2+} , intracellular; vMIP; Small molecule antagonist; Constitutive activity (Wan, Y. (456) 1)

CD34 antigen

Amifostine; Hematopoietic stem cell; Colony-forming units assay; Thrombopoietin; X-ray (Kashiwakura, I. (437) 19)

Cell adhesion molecule

Leukocyte; Alcohol; Cerebral venule; Cerebral microcirculation; Inflammation (Altura, B.M. (448) 89)

Cell contraction

Cardiomyocyte; Cell culture; Electrophysiology; Adenosine receptor; Simulated ischemia-reperfusion; (Rat) (Bès, S. (452) 145)

Cell culture

p38 MAP Kinase; Neuronal injury, acute; Neuroprotection; Ischemic cell death; Excitotoxicity (Legos, J.J. (447) 37)

Cardiomyocyte; Electrophysiology; Cell contraction; Adenosine receptor; Simulated ischemia-reperfusion; (Rat) (Bès, S. (452) 145)

Cell cycle

Alcohol; Vascular smooth muscle; Proliferation; Atherosclerosis (Sayeed, S. (445) 163)

Cell death

Mesangial cell; Hep G2 cell; Nitric Oxide (NO); Superoxide; Glutathione (Sumbayev, V.V. (444) 1)

Glutamate; Transporter; Receptor; Oligodendrocyte; Demyelination (Mature, C. (447) 239)

Cell death cytotoxin-induced

EGCG ((–)-epigallocatechin-3-gallate); Hepatoprotection; Caspase (Kagaya, N. (450) 231)

Cell growth

Thiazolidinedione; PPAR (Peroxisome proliferator-activated receptor); KU812 cell; Histamine secretion (Abe, A. (436) 7)

Cell migration

IP receptor; EP₃ receptor; cAMP (Blindt, R. (444) 31)

Nicotine; Cell proliferation; Ornithine decarboxylase; K^{+} channel; Wound healing; Nicotine receptor (Shin, V.Y. (444) 115)

Cell proliferation

Antioxidant; Atherosclerosis; Green tea catechin; LDL (low-density lipoprotein); Mitogen-activated kinase; Risk factor; Smooth muscle cell, vascular (Locher, R. (434) 1)

Nicotine; Cell migration; Ornithine decarboxylase; K^{+} channel; Wound healing; Nicotine receptor (Shin, V.Y. (444) 115)

Extracellular signal-regulated kinase; p38 mitogen-activated protein kinase; Transmural pressure; Vascular smooth muscle cell; Signal transduction (Tsuda, Y. (446) 15)

Noradrenaline; Nonselective cation channel (Kawanabe, Y. (447) 31)

Antidepressant; Fluvoxamine; Photoisomerization; 5-HT (5-hydroxytryptamine, serotonin) uptake; 5-HT (5-hydroxytryptamine, serotonin) re-uptake inhibitor, selective (Miolo, G. (450) 223)

Central injection

Gastric acid secretion; Nociceptin; ORL1 receptor; (Rat) (Ishihara, S. (441) 105)

Central nervous system

Opioid peptide; Opioid receptor; Adjuvant arthritis; Inflammation; Pain, chronic (Spetea, M. (435) 245)

Opioid receptor; Gastric acid secretion; Mitragnine (Tsuchiya, S. (443) 185)

Cephalosporin antibiotic

Organic anion transporter; Proximal tubule; Interaction (Takeda, M. (438) 137)

Ceramide

σ Receptor; Apoptosis (Crawford, K.W. (443) 207)

Cerebellar granule neuron

DNA methylation; Histone deacetylase (Manev, H. (445) 149)

Cerebral artery

Hypertension; Nitric oxide (NO); K^{+} channel; Y-27632; Rho-associated kinase (Kitayama, J. (438) 153)

Cerebral circulation

Hypercapnia; Arteriolar diameter; Pial arterioles; Guanylate cyclase; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); ODQ; SIN-1 (3-morpholinomethylsydnonimine) (Rosenblum, W.I. (448) 201)

Cerebral circulation time (canine model)

PAF (platelet-activating factor); Cerebral vasospasm; Intra-arterial digital subtraction angiography; Subarachnoid hemorrhage (Abe, Y. (455) 127)

Cerebral cortex

Ethanol; MAP (mitogen-activated protein) kinase (Kalluri, H.S.G. (439) 53)

Halothane; Ca^{2+} channel blocker; Na^{+} channel blocker; Hypoxia; Nitric oxide (NO) synthesis (Oka, M. (452) 175)

Excitotoxicity; Neurosteroid; NMDA (*N*-methyl-D-aspartate); Organotypic slice culture (Shirakawa, H. (454) 165)

Cerebral edema

Dihydropyridine Ca^{2+} channel antagonist; Magnetic resonance imaging; Hypertension; Hypertensive encephalopathy; (Rat) (Blezer, E.L.A. (444) 75)

Cerebral ischemia

β -Adrenoceptor; Astrocyte; Hippocampal neuron; Clenbuterol; Middle cerebral artery occlusion (Junker, V. (446) 25)

Dopamine; Propofol; Infarct size; (Rat) (Wang, J. (452) 303)

Nimesulide; Delayed neuronal death; Hippocampal CA1 sector; Neuroprotection; Neurodegeneration (Candelario-Jalil, E. (453) 189)

Cerebral ischemia, focal

Stroke; Thrombosis, photochemically induced; Middle cerebral artery occlusion; SHR (Stroke-prone spontaneously hypertensive rat); Prostacyclin (Karasawa, Y. (449) 127)

Cerebral ischemia, transient focal

Neurological deficit; Blood–brain barrier disruption; Nitric oxide (NO); L-Name (*N*^ω-nitro-L-arginine-methylester) (Ding-Zhou, L. (457) 137)

Cerebral microcirculation

Magnesium; Alcohol; Cytochrome oxidase; Hemoglobin; Stroke; Optical spectroscopy (Barbour, R.L. (447) 79)

Leukocyte; Alcohol; Cerebral venule; Inflammation; Cell adhesion molecule (Altura, B.M. (448) 89)

Cerebral vasospasm

PAF (platelet-activating factor); Intra-arterial digital subtraction angiography; Cerebral circulation time (canine model); Subarachnoid hemorrhage (Abe, Y. (455) 127)

Cerebral venule

Leukocyte; Alcohol; Cerebral microcirculation; Inflammation; Cell adhesion molecule (Altura, B.M. (448) 89)

Cerebral vessel, human

CGRP receptor; cAMP production; Dilatation (Edvinsson, L. (434) 49)

Certoparin

Alzheimer's disease; Heparin; Tau; Glycosaminoglycan (Walzer, M. (445) 211)

Cervical uterine segment

Ovarin uterine segment; Serotonin; Prostaglandin $\text{F}_{2\alpha}$; Oxytocin; Uterine contractility (Oropeza, M.V. (446) 159)

C-fibre reflex

RB101; Neutral endopeptidase; Aminopeptidase N; Enkephalin; Analgesia (Benoist, J.-M. (445) 201)

c-fos

Antidepressant; Citalopram; 5-HT_{1A} receptor; WAY 100635; Hypothalamic–pituitary–adrenal axis (Jongsma, M.E. (455) 109)

c-Fos

Apoptosis; JNK (c-Jun N-terminal kinase); c-Jun; p53; p21^{WAF1/CIP1} (Kobayashi, K. (438) 19)

Formol; Nefopam; Noxious heat; Spinal dorsal horn (Buritova, J. (441) 67)

Parkinson's disease; Dyskinesia; L-DOPA (L-3,4-dihydroxyphenylalanine); Dopamine receptor agonist (Nakazato, T. (442) 73)

Endomorphin-1; Endomorphin-2; Zif/268; Formalin; Spinal dorsal horn (Tateyama, S. (451) 79)

Barrel rotation; Endothelin-1; Vestibular nucleus; (Rat) (Kozako, T. (454) 199)

cGMP

Sildenafil; Nitric oxide (NO) donor; Non-nitric oxide (NO) donor; Vasodilation; Coronary artery, porcine (Sakuma, I. (437) 155)

Dopamine; L-DOPA (L-3,4-dihydroxyphenylalanine); Nitric oxide (NO); Peroxynitrite; Striatum (Sanchez, J.J. (438) 79)

Heme oxygenase; Guanylate cyclase; Glutamate; Null-mutant; Metalloporphyrin (Li, X. (450) 43)

Bremazocine; κ -Opioid receptor; Peripheral antinociception; Nitric oxide; Carrageenan (Amarante, L.H. (454) 19)

CGP20712A

Mast cell; β_2 -Adrenoceptor; IC118551 (Chong, L.K. (437) 1)

 α -CGRP-(8–37)

Adrenomedullin; CGRP (calcitonin gene-related peptide); CRL (Calcitonin receptor-like) receptor; RAMP (Receptor activity-modifying protein); cAMP (Nagoshi, Y. (450) 237)

CGRP (calcitonin gene-related peptide)

Blood pressure; Gender; Aging; Ovariectomy; Artery (Chan, G.H.H. (434) 133)

Monophosphoryl lipid A; Preconditioning; Ischemia–reperfusion; Capsaicin; Nitric oxide (NO) (Peng, J. (436) 89)

Tolerance; Nitroglycerin; *N*-acetylcysteine; Captopril (Zhou, Z.-H. (439) 129)

Adenosine receptor; K^{+} -evoked release; Substance P; Cholecystokinin; Spinal cord; Rat (Mauborgne, A. (441) 47)

Adrenomedullin; CRL (Calcitonin receptor-like) receptor; RAMP (Receptor activity-modifying protein); α -CGRP-(8–37); cAMP (Nagoshi, Y. (450) 237)

CGRP receptor

Cerebral vessel, human; cAMP production; Dilatation (Edvinsson, L. (434) 49)

CGS 21680

Allergic pulmonary inflammation; Brown Norway rat; Ovalbumin; Adenosine A_{2A} receptor; ZM 243185 (Fozard, J.R. (438) 183)

Chaperone

Endoplasmic reticulum; Ca^{2+} signalling; Ca^{2+} binding protein; Unfolded protein response; Endoplasmic reticulum overload response; Neuronal survival (Verkhatsky, A. (447) 141)

Charybdotoxin

Diclofenac; Apamin; Glibenclamide; Pinacidil; Morphine (Ortiz, M.I. (438) 85)

Chemical ischemia

Glutamate; Neurotoxicity; σ Receptor ligand; Cortical culture (Kume, T. (455) 91)

Chemical modeling

Cyclooxygenase-2; Carrageenan-induced pleurisy (Ottaná, R. (448) 71)

Chemiluminescence

Leukocytes; In vitro; Hypoxia; Reactive oxygen species, Ca^{2+} (Sanidas, D. (453) 183)

Chemiluminescence count

Airway reactivity; Inflammatory cell; Tachykinin (Lai, Y.-L. (452) 229)

Chemotaxis

Allergic rhinitis; Eosinophil; Nitric oxide (NO) synthase; 1400 W; Eotaxin (Ferreira, H.H.A. (442) 155)

Chemotherapy

Leukaemia; Survival; GST (glutathione *S*-transferase) (Autrup, J.L. (438) 15)

Chenodeoxycholic acid

RANTES; Bile acid; NF- κ B (Nuclear factor- κ B); Fibrate; PPAR α (peroxisome proliferator-activated receptor) (Hirano, Y. (448) 19)

Chinese hamster ovary (CHO) cell

δ -Opioid receptor, subtype; Binding; [^{35}S]GTP γ S; Naltrindole derivative (Parkhill, A.L. (451) 257)

Chinese population study

Single-nucleotide polymorphism; Coronary heart disease; Dyslipidemia; Lipoprotein lipase gene; High-density lipoprotein; Triglyceride (Su, Z.G. (454) 9)

CHO cell

Astrocyte; FLIPR; Ca^{2+} ; Bombesin; [D-Phe 6 , des-Met 14]bombesin-(6–14) ethylester (Mason, S. (438) 25)

CHO cell line

Angiotensin II; [Lys 2]angiotensin II; Angiotensin AT $_1$ receptor, recombinant; Tachyphylaxis; Smooth muscle cell line (França, L.P. (439) 13)

Cholecystokinin

Adenosine receptor; K^+ -evoked release; Substance P; CGRP (calcitonin gene-related peptide); Spinal cord; Rat (Mauborgne, A. (441) 47)

Intracerebroventricular; Devazepide; CCK $_1$ receptor antagonist (Ebenezer, I.S. (441) 79)

Leptin; Vagus nerve; Afferent fibre; Pancreatic secretion (Guilmeau, S. (447) 99)

Affinity binding site; Diabetes; Pancreas (Kuntz, E. (448) 253)

Evodiamine; Gastrointestinal motility; Devazepide; Lorglumide; L-365,260 (Wu, C.-L. (457) 169)

Cholecystokinin-B/gastrin receptor antagonist

Chondrocyte; Articular cartilage; Repair; (Rabbit); Osteochondral defect (Nakanishi, T. (439) 135)

Choledochoduodenal junction

Hepatobiliary; Endothelin; Eicosanoid; Prostanoid; Oddi sphincter; Common bile duct (Koepf, J. (435) 103)

Cholestasis

Nonadrenergic noncholinergic relaxation; Anococcygeus muscle; Opioid; Nitric oxide (NO); (Rat) (Dehpour, A.R. (445) 31)

Cholesterol

Bile acid; Cholesterol 7 α -hydroxylase; (*Curcuma comosa*); Phloracetophenone (Piyachaturawat, P. (439) 141)

Lidocaine; Ropivacaine; Bupivacaine; Membrane ionic permeability (Pardo, L. (455) 81)

Cholesterol-fed rabbit

Irbesartan; Losartan; Angiotensin II receptor antagonist; Aorta, coronary; Mesenteric (5th branch) (Sanz, M. (442) 99)

Cholesterol 7 α -hydroxylase

Bile acid; Cholesterol; (*Curcuma comosa*); Phloracetophenone (Piyachaturawat, P. (439) 141)

Cholesteryl ester

Avasimibe; Atorvastatin; Acyl-CoA cholesterol acyltransferase; Hydroxymethyl glutaryl-CoA reductase; Macrophage (Llaverías, G. (451) 11)

Choline

Hyperglycemia; Glucoregulation; Sympatho-adrenal activity; Cholinergic activity, rat (Gürün, M.S. (438) 197)

Cholinergic activity, rat

Choline; Hyperglycemia; Glucoregulation; Sympatho-adrenal activity (Gürün, M.S. (438) 197)

Cholinergic reflex

Smoke; Hyperreactivity; Nasal irritation; Tachykinin (Ho, C.-Y. (436) 127)

Cholinergic-serotonergic interaction

Clomipramine; Nicotinic receptor modulation; *Xenopus* oocyte; Mental depression (López-Valdés, H.E. (444) 13)

Cholinesterase inhibitor

Anti-inflammatory; Lipopolysaccharide; Microglia; Rat; Alzheimer's disease (Wenk, G.L. (453) 319)

Cholinoceptor

Anisodamine; Myocyte shortening; Ca^{2+} intracellular; Nitric oxide (NO) (Norby, F.L. (439) 21)

Chondrocyte

Cholecystokinin-B/gastrin receptor antagonist; Articular cartilage; Repair; (Rabbit); Osteochondral defect (Nakanishi, T. (439) 135)

Benzodiazepine receptor, peripheral; SSR 180575; Rheumatoid arthritis; Mrl/lpr mouse (Bribes, E. (452) 111)

Chondrogenic differentiation

FK506; Cyclosporin A; ATDC5 cell; Calcineurin; Cartilage (Nishigaki, F. (437) 123)

Chronic treatment

Paroxetine; Reboxetine; Moclobemide; μ -Opioid receptor; δ -Opioid receptor (Vilpoux, C. (443) 85)

Chronotropic

Relaxin; (INSL3) Insulin-like peptide 3; Atria, rat; Inotropic; Receptor autoradiography (Tan, Y.Y. (457) 153)

Chymase

Adhesion; Mast cell; Chymase inhibitor (Okamoto, Y. (435) 265)

Chymase inhibitor

Adhesion; Chymase; Mast cell (Okamoto, Y. (435) 265)

Cigarette smoke extract

Fluvastatin; Antioxidant effect; LDL (low-density lipoprotein); Oxidatively modified; WHHL rabbit (Yamaguchi, Y. (436) 97)

Cilnidipine

ω -Conotoxin MVIIA; Sympathetic nerve; Ca^{2+} channel, N-type (Takahara, A. (434) 43)

Cimetidine

Gastric ulcer; Aging; Omeprazole; (Rat) (Ishihara, M. (444) 209)

Circular muscle

Colonic transit; Dynorphin A (Tada, H. (454) 53)

Circulatory failure

Hyperthermia; Nitric oxide (NO) synthase (Sachidhanandam, S.B. (450) 163)

Circulatory filling pressure, mean

Nociceptin; ORL1 receptor; Arterial pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Abdelrahman, A.M. (455) 143)

L-cis Diltiazem

Myocardial ischemia; K^{+} accumulation; Ca^{2+} channel blocker (Sato, R. (434) 125)

Cisplatin

Renal toxicity; Radical scavenger; Blood urea nitrogen; Creatinine; Glutathione (Sueishi, K. (451) 203)

Kaolin; Pica; Emesis; Delayed (Rudd, J.A. (454) 47)

Citalopram

c-fos; Antidepressant; 5-HT_{1A} receptor; WAY 100635; Hypothalamic–pituitary–adrenal axis (Jongsma, M.E. (455) 109)

L-Citrulline recycling

Gastric fundus, rat; Argininosuccinate synthetase; Argininosuccinate lyase; Nitric oxide (NO) synthase, Neuronal (Van Geldre, L.A. (455) 149)

c-Jun

Apoptosis; JNK (c-Jun N-terminal kinase); c-Fos; p53; p21^{WAF1/CIP1} (Kobayashi, K. (438) 19)

c-Jun NH₂-terminal kinase

Angiotensin II; Smooth muscle cell, vascular; Cyclosporin A (Saito, S. (443) 47)

Cl[−] channel

Gossypol; Antifertility; Spermatogenic cell, mouse; Whole-cell recording; Ca^{2+} channel, T-type (Bai, J. (440) 1)

Ca^{2+} , intracellular; K^{+} channel; Na^{+} – K^{+} -ATPase; NO; Colon, rat (Schultheiss, G. (444) 21)

Ca^{2+} , intracellular; Sphingolipid; Thyroid; Current-clamp (Törnquist, K. (453) 1)

Acidic pH-induced contraction; Acidic pH; Spontaneously hypertensive rat; Wistar Kyoto rat; Ca^{2+} channel, voltage-dependent (Rohra, D.K. (453) 279)

(*Ascaris*); Nematode; FaRP; PF4 (Purcell, J. (456) 11)

Cl[−] current

Zaleplon; Zolpidem; Benzodiazepine; GABA_A receptor; Recombinant; *Xenopus* oocyte (Sanna, E. (451) 103)

Cl[−] secretion

Gossypol; Colon; Mucus; Tight junction (Kuhn, G. (457) 187)

Clenbuterol

β -Adrenoceptor; Astrocyte; Hippocampal neuron; Cerebral ischemia; Middle cerebral artery occlusion (Junker, V. (446) 25)

2-Cl-IB-MECA

Histamine; Pyrilamine; Adenosine receptor; Cytokine modulation (Smith, S.R. (457) 57)

Clofilium

QT interval; K^{+} channel blocker; Proarrhythmia; Torsade de pointes; α_1 -Adrenoceptor stimulation; Erythromycin; Terikalant (Farkas, A. (449) 143)

Clomethiazole

GABA_A receptor; GABA (γ -aminobutyric acid)-mimetic; Neuroprotective agent; Bicuculline (Nelson, R.M. (452) 255)

Clomipramine

Cholinergic–serotonergic interaction; Nicotinic receptor modulation; *Xenopus* oocyte; Mental depression (López-Valdés, H.E. (444) 13)

Paroxetine; Fluvoxamine; Antidepressant; Anticholinergic effect; (Mouse) (Fujishiro, J. (454) 183)

Clonidine

Gastric acid secretion; Oxymetazoline; β -endorphin; Glibenclamide (Müllner, K. (435) 225)

Spasticity; Flexor reflex; Tail-flick; Antinociception (Advokat, C. (437) 63)

α_2 -Adrenoceptor; Sympathetic nerve activity; Blood pressure; Rostral ventrolateral medulla; Methoxy-idazoxan (Vayssettes-Courchay, C. (453) 287)

Cloning

5-HT_{1F} receptor; 5-HT (5-hydroxytryptamine, serotonin); Ligand binding; Migraine, (Pig); Sequencing; Trigeminal ganglion (Bhalla, P. (436) 23)

Clotrimazole

Cancer; Calmodulin antagonist; Glycolysis; ATP (Penso, J. (451) 227)

Clozapine

5-HT_{1A} receptor; 5-HT₄ receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Antidepressant; Buspirone; Imipramine; Haloperidol (Zahorodna, A. (443) 51)

Dopamine; Mesolimbic; Antipsychotic drug; Prefrontal cortex (Westerink, B.H.C. (455) 1)

Co²⁺ uptake

AMPA receptor; Cortical neurone, cultured; GABA (γ -aminobutyric acid) immunocytochemistry; Fura-2 microfluorimetry; Ca^{2+} concentration, intracellular (Fischer, W. (438) 53)

Cocaine

SR141716; Self-administration; (Rhesus monkey) (Beardsley, P.M. (435) 209)

5-HT_{2A} receptor; DOI; Ketanserin; Methamphetamine; Drug discrimination, (Rat) (Munzar, P. (436) 75)

Sensitization; Dosing regimen; Locomotion (Davidson, C. (441) 75)

RTI 113; Discriminative stimulus effect; Drug discrimination; (Rat); (Squirrel monkey) (Cook, C.D. (442) 93)

VMAT-2 (vesicular monoamine transporter-2); Methamphetamine; Trafficking; (Rat) (Riddle, E.L. (449) 71)

Ketamine; Propofol; Immediate early gene; *egr-1*; Dopamine; Forebrain, rat (Jouvert, P. (449) 239)

5-HT₃ receptor; Tropisetron; LY 278,584; Sensitization; Tolerance; (Rat) (King, G.R. (449) 253)

MDMA (3,4-methylenedioxymethamphetamine); MDEA (3,4-methylenedioxyethylamphetamine); MDA (3,4-methylenedioxyamphetamine); Cathinone; Ventricular strip, rat; Contraction (Cleary, L. (451) 303)

Morphine; Dopamine; Conditioned place preference; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective; HPLC (High performance liquid chromatography); Radioligand binding (Deslandes, P.N. (453) 223)

Sensitization; 5-HT₂ receptor; Withdrawal; Locomotion; Behavioral rating (Davidson, C. (453) 255)

Dopamine; Norepinephrine; α_1 -Adrenoceptor; Prazosin; Hypophagia; Hyperlocomotion; (Rat) (Wellman, P. (455) 117)

Cocaine continuous

Behavioral tolerance; Dopamine autoreceptor; Cocaine duration; Rat (King, G.R. (446) 111)

Cocaine duration

Cocaine continuous; Behavioral tolerance; Dopamine autoreceptor; Rat (King, G.R. (446) 111)

Cochlea

Fluoxetine; Outer hair cell; K⁺ current; Voltage-activated; Antidepressant (Bian, J.-T. (453) 159)

Cognition

Cyclic nucleotide; Phosphodiesterase; Hippocampus (Prickaerts, J. (436) 83)

Renin–angiotensin system; Affective disorder; Memory (Gard, P.R. (438) 1)

Affective disorder; Glutamate receptor; Nootropic (Knapp, R.J. (440) 27)

Colitis

Nitric oxide (NO); iNOS (inducible nitric oxide (NO) synthase); Cyclosporin A; Tacrolimus; Sulfasalazine (Hämäläinen, M. (448) 239)

Collagen

Melanin; Gentamicin; Prolidase; Fibroblast (Wrześniok, D. (446) 7)

Beraprost sodium; Prostacyclin; Renal dysfunction; Nephritis; Anti-glomerular basement membrane; MCP-1 (monocyte chemoattractant protein-1) (Yamada, M. (449) 167)

Collecting tubule

Purinoceptor; Vasopressin; Water permeability (Edwards, R.M. (438) 179)

Colon

CRF (Corticotropin-releasing factor); Diarrhea; CRF₁ receptor; CP-154,526; Fecal output (Saunders, P.R. (435) 231)

Gossypol; Cl[−] secretion; Mucus; Tight junction (Kuhn, G. (457) 187)

Colon, guinea-pig

2-Arachidonoylglycerol; Anandamide; Cannabinoid (Kojima, S.-i. (444) 203)

Colon, rat

Cl[−] channel; Ca²⁺, intracellular; K⁺ channel; Na⁺–K⁺-ATPase; NO (Schultheiss, G. (444) 21)

Colonic transit

Circular muscle; Dynorphin A (Tada, H. (454) 53)

Colony-forming units assay

Amifostine; Hematopoietic stem cell; CD34 antigen; Thrombopoietin; X-ray (Kashiwakura, I. (437) 19)

Colony-stimulating factor

Interleukin-4; Interferon- γ ; Interleukin-10; Interleukin-13; Smooth muscle cell, vascular (Stanford, S.J. (436) 241)

Common bile duct

Hepatobiliary; Endothelin; Eicosanoid; Prostanoid; Oddi sphincter; Cholecho-oduodenal junction (Koepp, J. (435) 103)

Complex I

Anti-ischemic molecule; Hypoxia; Mitochondrion; Respiration; Endothelial cell (Bouaziz, N. (441) 35)

Compound 48/80

Scratching behavior; Histamine; 5-HT (5-hydroxytryptamine, serotonin); Mast cell; MicroAct (Inagaki, N. (448) 175)

Compound action potential

Lidocaine; Tramadol; Sucrose-gap; Sciatic nerve (Mert, T. (439) 77)

Compound M40403

Gentamicin; Superoxide anion; Superoxide dismutase mimetic (Cuzzocrea, S. (450) 67)

Computer simulation

GABA_A receptor; Pentobarbital; Fast application (Krampfl, K. (435) 1)

COMT inhibitor

Entacapone; Tolcapone; Uncoupling; Parkinson's disease (Haasio, K. (453) 21)

Conantokin-G

Neuronal culture; Staurosporine (Williams, A.J. (452) 135)

Conditioned avoidance behaviour

Neurotensin; Antipsychotic; Haloperidol; NT69L (Hertel, P. (439) 107)

Conditioned fear stress

Amygdala; Dopamine; Methamphetamine; Sensitization (Suzuki, T. (435) 59)

Conditioned place preference

D-methamphetamine; Nitric oxide (NO); 7-Nitroindazole; Reward (Li, S.-M. (435) 217)

Nitric oxide (NO); D-Methamphetamine (Li, S.-M. (443) 205)

Morphine; Hippocampus; CA1; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); (Rat) (Karami, M. (449) 113)

Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Nucleus accumbens (Gholami, A. (449) 269)

Morphine; L-Arginine; Amygdala central; Nitric oxide (NO); L-NAME (*N*^G-nitro-L-arginine methyl ester) (Zarrindast, M.R. (453) 81)

Morphine; Cocaine; Dopamine; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective; HPLC (High performance liquid chromatography); Radioligand binding (Deslandes, P.N. (453) 223)

Congestive heart failure

Conivaptan; Vasopressin; V_{1A} receptor; V_2 receptor; Nonpeptide antagonist (Wada, K.-i. (450) 169)

Conivaptan

Vasopressin; V_{1A} receptor; V_2 receptor; Nonpeptide antagonist; Congestive heart failure (Wada, K.-i. (450) 169)

ω -Conotoxin

Morphine; Neuropathic pain; Ca^{2+} channel, N-type (Scott, D.A. (451) 279)

ω -Conotoxin MVIIA

Cilnidipine; Sympathetic nerve; Ca^{2+} channel, N-type (Takahara, A. (434) 43)

Constitutive activity

Melatonin MT_1 receptor; 4P-PDOT (4-phenyl-2-propionamidotetraline) (Erşahin, Ç. (439) 171)

Receptor binding; Ca^{2+} , intracellular; CCL18, I-TAC; vMIP; Small molecule antagonist (Wan, Y. (456) 1)

Constitutive internalization

μ -Opioid receptor; Naltrexone; Receptor up-regulation; Dynamin-2; G-protein receptor kinase-2 (Patel, M. (446) 37)

Contractile force

Ventricle, human; Electrophysiology; Acidosis, intracellular; Fluorescent; Oxygen free radical; Antioxidant; Cardioprotective agent (Loh, S.-H. (443) 169)

Contractile response

Nimesulide; Pentoxifylline; Ileum; (Rat) (Kaya, T.T. (442) 147)

Contractility

Nitric oxide (NO); Inotropic agent; Endotoxaemia (Price, S. (449) 279)

β -Adrenoceptor; Autonomic nervous system; Fibrosis; Heart failure (Brouri, F. (456) 69)

Contraction

H_2O_2 ; Diabetes; Catalase; Nitric oxide (NO); Streptozotocin (Kobayashi, T. (441) 83)

Ca^{2+} channel; Nifedipine; Smooth muscle; Binding; Vas deferens, rat (Verde, L.F. (443) 13)

MAP kinase; U0126; PD98059; Angiotensin II; Endothelin-1 (Ishihata, A. (445) 247)

MDMA (3,4-methylenedioxymethamphetamine); MDEA (3,4-methylenedioxethylamphetamine); MDA (3,4-methylenedioxymphetamine); Cathinone; Cocaine; Ventricular strip, rat (Cleary, L. (451) 303)

Cordycepin

Interleukin-10; Interleukin-2; T lymphocyte activation (Zhou, X. (453) 309)

Coronary artery

Donitriptan; Human pharmacology; Middle meningeal artery; Migraine; Sumatriptan (van den Broek, R.W.M. (443) 125)

Dinucleoside polyphosphate; Isolated; Perfused; $P2X$ receptor; $P2Y$ receptor (van der Giet, M. (448) 207)

Coronary artery disease

Hexarelin; Secretagogue; Ghrelin; GHRH (growth hormone-releasing hormone); Cardiac performance (Broglio, F. (448) 193)

Coronary artery, porcine

Sildenafil; Nitric oxide (NO) donor; Non-nitric oxide (NO) donor; Vasodilation; cGMP (Sakuma, I. (437) 155)

Coronary flow

Endothelium-dependent vasodilatation; Coronary vasoconstriction; Coronary vasodilatation; Coronary vasodilator reserve (Fernández, N. (457) 161)

Coronary heart disease

Single-nucleotide polymorphism; Chinese population study; Dyslipidemia; Lipoprotein lipase gene; High-density lipoprotein; Triglyceride (Su, Z.G. (454) 9)

Coronary occlusion

Nicorandil; Aprikalim; K_{ATP} channel, mitochondrial; Myocardial ischemia; Reperfusion arrhythmia (Das, B. (437) 165)

Coronary vasoconstriction

Coronary flow; Endothelium-dependent vasodilatation; Coronary vasodilatation; Coronary vasodilator reserve (Fernández, N. (457) 161)

Coronary vasodilatation

Coronary flow; Endothelium-dependent vasodilatation; Coronary vasoconstriction; Coronary vasodilator reserve (Fernández, N. (457) 161)

Coronary vasodilator reserve

Coronary flow; Endothelium-dependent vasodilatation; Coronary vasoconstriction; Coronary vasodilatation (Fernández, N. (457) 161)

Corpus cavernosum

Evodiamine; K^+ channel; Cyclic nucleotide (Chiou, W.-F. (446) 149)

T-0156; Phosphodiesterase isozyme; Phosphodiesterase type 5 inhibitor; Cyclic guanosine monophosphate; Tumescence (Mochida, H. (456) 91)

Cortex, frontal

5-HT $_{1A}$ receptor mutant mouse; Autoreceptor; Heteroreceptor; Hippocampus; Raphe (Richer, M. (435) 195)

Cortex, posterior cingulate

Adenosine A_1 receptor; Short-term memory; Long-term memory (Pereira, G.S. (437) 151)

Cortex, prefrontal

Long-term potentiation; Dopamine (Blond, O. (438) 115)

[3H](+)-MK-801; Glutamate; Nucleus accumbens (Quadros, I.M.H. (442) 55)

Dopamine; Mesolimbic; Antipsychotic drug; Clozapine (Westerink, B.H.C. (455) 1)

Cortical culture

Chemical ischemia; Glutamate; Neurotoxicity; σ Receptor ligand (Kume, T. (455) 91)

Cortical neurone, cultured

AMPA receptor; GABA (γ -aminobutyric acid) immunocytochemistry; Co^{2+} uptake; Fura-2 microfluorimetry; Ca^{2+} concentration, intracellular (Fischer, W. (438) 53)

Cortical slice

Epileptiform activity; NMDA receptor antagonist, low-affinity; Mg^{2+} , low (Naish, H.J. (443) 79)

Corticosteroid

Tree shrew; Stress; Behavior; Glucocorticoid receptor; 5-HT_{1A} receptor (Van Kampen, M. (457) 207)

Corticosterone

Stress-induced hyperthermia; Anxiolytic; Benzodiazepine; Buspirone; Tachykinin; mGlu₅ receptor antagonist; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone) (Spooren, W.P.J.M. (435) 161)

Pharmacokinetic–pharmacodynamic modelling; Hypothermia; 5-HT_{1A} receptor; Flesinoxan; Handling (Zuideveld, K.P. (445) 43)

Hypothalamus–pituitary–adrenocortical axis; Morphine withdrawal; PKA (protein kinase A); PKC (protein kinase C); Noradrenaline turnover; Dopamine turnover (Cerezo, M. (452) 57)

CRF receptor; CRA1000; Immobilization stress; ACTH (adrenocorticotrophic hormone) (Ohata, H. (457) 201)

CP-154,526

CRF (Corticotropin-releasing factor); Diarrhea; CRF₁ receptor; Colon; Fecal output (Saunders, P.R. (435) 231)

CP55940

Cannabidiol; WIN55212; Drug interaction; Cannabinoid CB₁ receptor; Vas deferens, mouse (Pertwee, R.G. (456) 99)

CRA1000

CRF receptor; Immobilization stress; ACTH (adrenocorticotrophic hormone); Corticosterone (Ohata, H. (457) 201)

Creatinine

Cisplatin; Renal toxicity; Radical scavenger; Blood urea nitrogen; Glutathione (Sueishi, K. (451) 203)

CREB binding protein (CBP)

Ca^{2+} ; Transcription; cAMP response element binding protein (CREB); Serum response element (SRE) (Chawla, S. (447) 131)

CRF (Corticotropin-releasing factor)

Diarrhea; CRF₁ receptor; CP-154,526; Colon; Fecal output (Saunders, P.R. (435) 231)

CRF receptor

Peptide; Energy balance (Richard, D. (440) 189)

CRA1000; Immobilization stress; ACTH (adrenocorticotrophic hormone); Corticosterone (Ohata, H. (457) 201)

CRF₁ receptor

CRF (Corticotropin-releasing factor); Diarrhea; CP-154,526; Colon; Fecal output (Saunders, P.R. (435) 231)

CRL (Calcitonin receptor-like) receptor

Adrenomedullin; CGRP (calcitonin gene-related peptide); RAMP (Receptor activity-modifying protein); α -CGRP-(8–37); cAMP (Nagoshi, Y. (450) 237)

Cross-reactivity

$\alpha 7$ Nicotinic receptor; 5-HT₃ receptor; Spiroazabicyclic (Broad, L.M. (452) 137)

Cross-tolerance

Antinociception; Tail-flick test; Endomorphin-1; Endomorphin-2; Tolerance (Hung, K.-c. (448) 169)

(*Curcuma comosa*)

Bile acid; Cholesterol; Cholesterol 7 α -hydroxylase; Phloracetophenone (Piyachaturawat, P. (439) 141)

Current-clamp

Ca^{2+} , intracellular; Sphingolipid; Thyroid; Cl^{-} channel (Törnquist, K. (453) 1)

Cyamemazine

Serotonin; 5-HT_{2A} receptor; Neuroleptic; Atypical neuroleptic (Alvarez-Guerra, M. (454) 235)

Cyclic guanosine monophosphate

T-0156; Phosphodiesterase isozyme; Phosphodiesterase type 5 inhibitor; Corpus cavernosum; Tumescence (Mochida, H. (456) 91)

Cyclic nucleotide

Phosphodiesterase; Cognition; Hippocampus (Prickaerts, J. (436) 83)

Phosphodiesterase type 5 inhibitor; Aorta, rat; Relaxation; Ca^{2+} channel antagonist (Mochida, H. (440) 45)

Evodiamine; Corpus cavernosum; K^{+} channel (Chiou, W.-F. (446) 149)

Cyclooxygenase

Cysteinyl-leukotriene receptor; Lung parenchyma, guinea-pig; Nitric oxide (NO) (Sakata, K. (436) 119)

Endothelium; Diabetes; Nitric oxide (NO); 5-HT (5-hydroxytryptamine, serotonin); Renal artery, rabbit (Miranda, F.J. (439) 121)

Non-steroidal anti-inflammatory drugs; Prostaglandins (Amann, R. (447) 1)

Endothelin ET_B receptor; Interleukin-1 β ; NSAID (nonsteroidal anti-inflammatory drug); Rofecoxib; Glucocorticoid (White, L.R. (448) 51)

Aspirin; *Helicobacter pylori*; Ulcer healing; Gastric secretion; Gastric blood flow; Growth factor (Konturek, P.C. (451) 191)

Inflammation; Polymorphonuclear leukocyte, human; 5-Lipoxygenase; Transcellular metabolism; Adhesive interaction (Rotondo, S. (453) 131)

Cyclooxygenase-1

Cyclooxygenase-2; NSAID (nonsteroidal anti-inflammatory drug); Leukocyte/endothelium interaction (Calatayud, S. (440) 71)

Cyclooxygenase-2

Sodium salicylate; Gastric mucosal damage; Ischaemia–reperfusion; Adaptive gastroprotection; Nitric oxide (NO) (Peskar, B.M. (434) 65)

Glycosylation end product; Advanced; p38 MAP (mitogen activated protein) kinase; RAW 264.7 cell (Lin, C.-H. (438) 143)

Cyclooxygenase-1; NSAID (nonsteroidal anti-inflammatory drug); Leukocyte/endothelium interaction (Calatayud, S. (440) 71)

Carrageenan-induced pleurisy; Chemical modeling (Ottan , R. (448) 71)

Lipoteichoic acid; p44/42 mitogen-activated protein kinase (MAPK); p38 MAPK; A549 cell (Lin, C.-H. (450) 1)

Cyclo-oxygenase

Nimesulide; Nitric oxide (NO); Pain; RIII threshold (Sandrini, G. (450) 259)

Cyclo-oxygenase-2

Pyroloquinazoline; Eicosanoid; Air pouch, mouse; Carrageenan paw oedema; Analgesia (Rioja, I. (434) 177)

Cyclooxygenase, brain

Vasopressin; Vasopressin V_{1A} receptor, brain; Adrenaline, plasma; Noradrenaline, plasma; Sympatho-adrenomedullary outflow (Okada, S. (457) 29)

Cyclooxygenase product

Adenosine; Bronchoconstriction; Histamine; Leukotriene (Martin, T.J. (451) 89)

Cyclophosphamide

HL-60; CYP1B1; RT-PCR (reverse transcriptase–polymerase chain reaction); PCR (polymerase chain reaction), real-time; β -Actin; Cytotoxicity; Multidrug resistance (Xie, H.-J. (449) 197)

D-cycloserine

Neonatal rat; Rearing; NMDA receptor; (Adult rat); Discrimination task (Strømme Johannesen, T. (437) 27)

Cyclosporin A

FK506; ATDC5 cell; Chondrogenic differentiation; Calcineurin; Cartilage (Nishigaki, F. (437) 123)

Angiotensin II; Smooth muscle cell, vascular; c-*Jun* NH₂-terminal kinase (Saito, S. (443) 47)

Nitric oxide (NO); iNOS (inducible nitric oxide (NO) synthase); Tacrolimus; Sulfasalazine; Colitis (Hämäläinen, M. (448) 239)

NO (nitric oxide); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Opioid dependence-tolerance; Antinociception; (Mouse) (Homayoun, H. (452) 67)

Cyclothiazide

AMPA receptor; Biarylpropylsulfonamide (Quirk, J.C. (454) 125)

CYP11B2

Angiotensin-converting enzyme; Pharmacogenetic (Ortlepp, J.R. (445) 151)

CYP1B1

Cyclophosphamide; HL-60; RT-PCR (reverse transcriptase–polymerase chain reaction); PCR (polymerase chain reaction), real-time; β -Actin; Cytotoxicity; Multidrug resistance (Xie, H.-J. (449) 197)

CysLT receptor

Leukotriene receptor antagonist; Leukotriene D₄; Asthma; Bronchoconstriction; Airway inflammation (Cabrè, F. (451) 317)

Cysteine

Melatonin MT₂ receptor, human; Melatonin MT₁ receptor, human; Site-directed mutagenesis; Thiol agents; HEK-293 cell (Msee, F. (449) 29)

Cysteinyl-leukotriene receptor

Lung parenchyma, guinea-pig; Cyclooxygenase; Nitric oxide (NO) (Sakata, K. (436) 119)

Cystic fibrosis

G protein-coupled receptor kinase; Adenylyl cyclase; Lung; Gene expression (Mak, J.C.W. (436) 165)

Cytochrome oxidase

Magnesium; Alcohol; Cerebral microcirculation; Hemoglobin; Stroke; Optical spectroscopy (Barbour, R.L. (447) 79)

Cytochrome P450

Cannabinoid; Anandamide; Tolerance; Liver, rat; Brain, rat (Costa, B. (449) 61)

Cytochrome P450 enzyme induction

Bosentan; Glibenclamide; Pregnane X receptor (van Giersbergen, P.L.M. (450) 115)

Cytokine

Pirfenidone; Inflammation; TNF- α (tumor necrosis factor- α); Translation; MAPK2 (mitogen-activated protein) kinase 2 (Nakazato, H. (446) 175)

Azithromycin; Neutrophil; Human volunteer; Degranulation; Oxidative burst (Čulić, O. (450) 277)

Cytokine modulation

Thalidomide analogue; Liver injury, suppression (Thiele, A. (453) 325)

2-Cl-IB-MECA; Histamine; Pyrilamine; Adenosine receptor (Smith, S.R. (457) 57)

Cytoprotection

Bimoclozolol; Heat shock protein; Cardiomyocyte (Polakowski, J.S. (435) 73)

Anesthesia; Barbiturate; Glucose phosphorylation; Glutamate; Oxidative metabolism (Peng, L. (446) 53)

Cytotoxicity

Cyclophosphamide; HL-60; CYP1B1; RT-PCR (reverse transcriptase–polymerase chain reaction); PCR (polymerase chain reaction), real-time; β -Actin; Multidrug resistance (Xie, H.-J. (449) 197)

DAMGO ([D-Ala², N-MePhe⁴, Gly-ol⁵]enkephalin)

Diabetes; Antinociception; MK-801; NMDA receptor; μ -Opioid receptor (Zushida, K. (448) 39)

Defecation

Prostanoid; Emesis (Kan, K.K.W. (453) 299)

Degranulation

Azithromycin; Neutrophil; Human volunteer; Oxidative burst; Cytokine (Čulić, O. (450) 277)

Deiodinase

Thyroid hormones; Obesity; Treatment; UCP (Uncoupling protein); Thermogenesis (Krotkiewski, M. (440) 85)

Delayed

Cisplatin; Kaolin; Pica; Emesis (Rudd, J.A. (454) 47)

Delayed neuronal death

Nimesulide; Cerebral ischemia; Hippocampal CA1 sector; Neuroprotection; Neurodegeneration (Candelario-Jalil, E. (453) 189)

Delayed rectifier current

Risperidone; Action potential; Transient outward current; Inward rectifier current; Heart, rabbit (Gluais, P. (444) 123)

Dementia

Aging; Diabetes mellitus; Brain; Pathogenesis (Biessels, G.J. (441) 1)

Demyelination

Glutamate; Transporter; Receptor; Cell death; Oligodendrocyte (Matute, C. (447) 239)

Dendrite

Ca²⁺; Ca²⁺ indicator; Fluorescence; Neocortex; Two-photon; In vivo; Olfactory bulb (Helmchen, F. (447) 119)

Dendritic spine

Ca²⁺ compartmentalisation; Mossy fibre synapse; CA3 pyramidal neuron (Reid, C.A. (447) 173)

Deoxyypyridinoline

Bisphosphonate; Osteoporosis; Ovariectomy; Bone mineral density (Teramura, K. (449) 191)

Bisphosphonate; Osteoporosis; Ovariectomy; Bone mineral density (Teramura, K. (457) 51)

Deoxyspergualin

Autoimmunity; Immunotherapy; Orchitis (Ablake, M. (450) 209)

Depression

Mecamylamine; Stimulant; Smoking (Young, R. (443) 113)

Antipsychotic; Benzamide; Prolactin (Marchese, G. (447) 109)

Depression, endogenous

Animal model; 5-HT (5-hydroxytryptamine, serotonin); REM (rapid eye movement) sleep; Mianserin; mCPP (Mavanji, V. (455) 35)

Depressive disorder

Bipolar mood disorder; Pharmacogenetics; Pharmacogenetics; Genetics (Serretti, A. (438) 117)

Dequalinium

K⁺ channel; Ca²⁺; SK channel; Afterhyperpolarization; Neuron (Cao, Y.-J. (449) 47)

Dermatitis

Allergy; Phosphodiesterase 4 inhibitor; AWD 12-281; SB 207499; Toluenediisocyanate (Bäumer, W. (446) 193)

Des-Arg⁹-bradykinin

Insulin-dependent diabetes mellitus; Hyperalgesia; Kinin; Bradykinin B₁ receptor; Bradykinin B₁ receptor antagonist; R-715; R-954 (Gabra, B.H. (457) 115)

Des-Arg¹¹-T-kinin

Bradykinin; Bradykinin receptor; T-kinin; Bladder, rat; Smooth muscle cell (Davis, C. (450) 123)

Descending serotonergic system

FR143166; Antinociception; 5-HT_{2A} receptor; 5-HT₃ receptor; Spinal cord (Ochi, T. (452) 319)

Desensitization

Diadenosine polyphosphate; Purinoceptor; ATP; P2X₃ receptor (McDonald, H.A. (435) 135)

Phosphorylation; Protein kinase C; Mutation (Liang, M. (437) 41)

Nociceptin/orphanin FQ; [Nphe¹]N/OFQ (1–13)NH₂; cAMP formation; [¹²⁵I]Y¹⁴N/OFQ binding (Hashimoto, Y. (449) 17)

Desensitization, behavioural sensitization

Catecholamine-regulated protein; D-Amphetamine; Dopamine; Heat shock protein; Molecular chaperone (Gabriele, J. (453) 13)

Desglycyl-remacemide

Remacemide; Antiepileptic drug; Na⁺ channel; Synaptosome, Rat (Santangel, S. (438) 63)

Desipramine

TE671 cell line; SK3 channel; Antidepressant, tricyclic; Imipramine (Carignani, C. (448) 139)

Desloratadine

Histamine H₁ receptor, human (Anthes, J.C. (449) 229)

Detrusor smooth muscle

Ca²⁺ channel, voltage-sensitive; G-protein; Muscarinic receptor; Purinergic receptor; Dihydropyridine (Kajioka, S. (443) 19)

Electrical field stimulation; Atropine; Propiverine; Oxybutynin; Tolterodine (Wüst, M. (454) 59)

Devazepide

Intracerebroventricular; Cholecystokinin; CCK₁ receptor antagonist (Ebenezzer, I.S. (441) 79)

Evodiamine; Gastrointestinal motility; Cholecystokinin; Lorglumide; L-365,260 (Wu, C.-L. (457) 169)

Dextromethorphan

18-Methoxycoronaridine; Mecamylamine; Morphine; Methamphetamine; Nicotine receptor; Drug addiction (Glick, S.D. (438) 99)

18-Methoxycoronaridine; Mecamylamine; Bupropion; Nicotine; Nicotine receptor; Drug addiction (Glick, S.D. (448) 185)

Memantine; Ketamine; Formalin; Edema (Sawynok, J. (450) 153)

Diabetes

Streptozotocin; Arrhythmia; Heart, ex vivo; Hypothyroidism; Ischaemia–reperfusion, rat (Zhang, L. (435) 269)

Endothelial dysfunction; Nitric oxide (NO); Superoxide; Superoxide dismutase; Tempol (Nassar, T. (436) 111)

Endothelium; Nitric oxide (NO); 5-HT (5-hydroxytryptamine, serotonin); Cyclooxygenase; Renal artery, rabbit (Miranda, F.J. (439) 121)

β₃-Adrenoceptor; β₄-Adrenoceptor; β₃-Adrenoceptor agonist; Thermogenesis; Obesity (Arch, J.R.S. (440) 99)

ACRP30 (adipocyte complement-related protein of 30 kDa); AdipoQ; Adiponectin; Obesity; Insulin resistance; Lipid metabolism; Glucose metabolism (Tsao, T.-S. (440) 213)

H₂O₂; Contraction; Catalase; Nitric oxide (NO); Streptozotocin (Kobayashi, T. (441) 83)

Pentoxifylline; Interleukin-10; TNF-α; BB, rat (Visser, J. (445) 133)

Antinociception; MK-801; NMDA receptor; μ-Opioid receptor; DAMGO ([D-Ala², N-MePhe⁴, Gly-ol⁵]enkephalin) (Zushida, K. (448) 39)

Orexin; Glycemia; Fasting; (Mouse) (Tsuneki, H. (448) 245)

Affinity binding site; Cholecystokinin; Pancreas (Kuntz, E. (448) 253)

Midaglizole; K_{ATP} channel; Kir6.2; Imidazoline; Insulin secretion (Proks, P. (452) 11)

ATP-sensitive K^+ channel; Pinacidil; Antinociception; Opioid receptor (Zushida, K. (453) 209)

α -Tocopherol; Erythrocyte membrane; Free radical; Insulin (Shinozaki, K. (456) 133)

Diabetes mellitus

Acarbose; Intestinal glucose transport; SGLT1; GLUT1; GLUT2 (Paiva, L. (434) 197)

Aging; Brain; Dementia; Pathogenesis (Biessels, G.J. (441) 1)

Nerve; Brain; Neuron; Ca^{2+} ; Pathogenesis; Treatment; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

Hyperglycemia; Microcirculation; Streptozotocin; Acetylcholine; Sodium nitroprusside; Nitric oxide (van Dam, B. (455) 43)

Diabetes mellitus, type I

Prostate gland; Benign prostatic hyperplasia; Noradrenaline; Protein kinase C (Ramasamy, S. (434) 151)

Diabetes, Rat

Diazoxide; Streptozotocin-induced diabetes; Beta-cell damage (Matsuda, M. (453) 141)

Diabetes type 2

GLP-1 (glucagon-like peptide-1) derivative; Glucose tolerance; Insulin sensitivity; Gastric emptying; Glucagon (Ribel, U. (451) 217)

Diabetes, type 2

31 Phosphorus magnetic resonance spectroscopy; Heart, isolated, working; Ischemia; Metabolism; Glibenclamide; K_{ATP} channel (Legtenberg, R.J. (434) 35)

Diabetic nephropathy

Diabetic, rat; Endothelin; Endothelin ET_A receptor antagonist (Sugimoto, K.-i. (450) 183)

Diabetic, rat

Endothelin; Endothelin ET_A receptor antagonist; Diabetic nephropathy (Sugimoto, K.-i. (450) 183)

Diacerein

Rhein; Inflammation; Arthritis; Bone (Tamura, T. (448) 81)

Diacetylmorphine degradation

Heroin; Morphine; 6-Monoacetylmorphine; Tissue culture (Hutchinson, M.R. (453) 27)

Adenosine polyphosphate

Purinoreceptor; ATP; $P2X_3$ receptor; Desensitization (McDonald, H.A. (435) 135)

Diamine oxidase (histaminase)

Histamine *N*-methyltransferase; mRNA; Expression pattern; Histaminergic signal transmission; Peripheral tissues (Kitanaka, J. (437) 179)

Diarrhea

CRF (Corticotropin-releasing factor); CRF_1 receptor; CP-15,526; Colon; Fecal output (Saunders, P.R. (435) 231)

Diazoxide

Streptozotocin-induced diabetes; Beta-cell damage; Diabetes, Rat (Matsuda, M. (453) 141)

Diclofenac

Apamin; Charybdotoxin; Glibenclamide; Pinacidil; Morphine (Ortiz, M.I. (438) 85)

Differential

Adenosine A_1 receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Noradrenaline; Vas deferens, rat; Distribution (Queiroz, G. (448) 45)

Differentiation

S12911-2; Osteoclast; Bone resorption (Baron, R. (450) 11)

Dihydrofolate reductase

MX-68; Antifolate; Methotrexate; Polyglutamation; Arthritis model (Urakawa, K. (435) 237)

Dihydropyridine

Ca^{2+} channel, voltage-sensitive; Detrusor smooth muscle; G-protein; Muscarinic receptor; Purinergic receptor (Kajioka, S. (443) 19)

Ca^{2+} channel, voltage-gated; $Ca_v1.3$; L-type Ca^{2+} channel; Embryo, mouse; Heart (Klugbauer, N. (447) 279)

Dihydropyridine Ca^{2+} channel antagonist

Cerebral edema; Magnetic resonance imaging; Hypertension; Hypertensive encephalopathy; (Rat) (Blezer, E.L.A. (444) 75)

Dilatation

CGRP receptor; Cerebral vessel, human; cAMP production (Edvinsson, L. (434) 49)

[3H]Diltiazem

Ca^{2+} channel, L-type; [3H]Nitrendipine; Uterus, pregnant rat; Drotaverine (Tömösközi, Z. (449) 55)

Dinucleoside polyphosphate

Coronary artery; Isolated; Perfused; $P2X$ receptor; $P2Y$ receptor (van der Giet, M. (448) 207)

Dipyrene

K^+ channel blocker; Antinociception; K^+ channel (Alves, D.P. (444) 47)

Discrimination task

Neonatal rat; Rearing; NMDA receptor; D-cycloserine; (Adult rat) (Strømme Johannesen, T. (437) 73)

Discriminative stimulus effect

Cocaine; RT1 113; Drug discrimination; (Rat); (Squirrel monkey) (Cook, C.D. (442) 93)

Disintegrin

GPIIb-IIIa antagonist; Integrilin; Eptifibatide; GR144053F; Polymorphism $PI^{A1/A2}$ (platelet-specific antigen) (Rozalski, M. (454) 1)

Distribution

Adenosine A_1 receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Noradrenaline; Vas deferens, rat; Differential (Queiroz, G. (448) 45)

Diuresis

Mineralocorticoid hypertension; RU28318; Brain; Angiotensinogen (Rahmouni, K. (436) 207)

Endothelin-1, big; Endothelin ET_B receptor; Hypertension; Nitric oxide (NO) (Konishi, F. (451) 177)

DMDI (1-(3,4'-dimethoxybenzyl)-6,7-dichloroisoquinoline)

Neutrophil; Respiratory burst; Signal transduction; Phospholipase D; MAP (Mitogen-activated protein) kinase; Ca^{2+} concentration, cellular-free (Wang, J.-P. (434) 9)

IDMe ([D-Tyr¹, (NMe)Phe³]NPFF)

Neuropeptide FF; Morphine; Analgesia; (Mouse); Tail flick (Quelven, I. (449) 91)

DNA methylation

Cerebellar granule neuron; Histone deacetylase (Manev, H. (445) 149)

DNBS (2,4-dinitrobenzene sulfonic acid)

Ulcerative colitis; Zinc sulfate; Histamine; Mast cell; Terfenadine; Ranitidine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

DOI

5-HT_{2A} receptor; Cocaine; Ketanserin; Methamphetamine; Drug discrimination, (Rat) (Munzar, P. (436) 75)

5-HT₂ receptor; Renal hemodynamics; Nitric oxide (NO); Sarpogrelate; Microdialysis (Tian, R.-X. (437) 79)

Δ^9 -Tetrahydrocannabinol; 5-HT (5-hydroxytryptamine, serotonin); Hippocampus; Spatial memory (Egashira, N. (445) 221)

5-HT_{2A} receptor; Head shake; 5-HT (5-hydroxytryptamine, serotonin); Stress (Izumi, T. (452) 199)

(±)-Domesticine

Adrenoceptor subtype; α_{1D} -Adrenoceptor antagonist; BMY-7378 (Indra, B. (445) 21)

Donepezil

Acetylcholinesterase isoform; Huperzine A; Tacrine; Rivastigmine; Physostigmine; Alzheimer's disease; (Rat) (Zhao, Q. (455) 101)

Donitriptan

Coronary artery; Human pharmacology; Middle meningeal artery; Migraine; Sumatriptan (van den Broek, R.W.M. (443) 125)

L-DOPA (L-3,4-dihydroxyphenylalanine)

c-GMP; Dopamine; Nitric oxide (NO); Peroxynitrite; Striatum (Sanchez, J.J. (438) 79)

c-Fos; Parkinson's disease; Dyskinesia; Dopamine receptor agonist (Nakazato, T. (442) 73)

Dopamine

Conditioned fear stress; Amygdala; Methamphetamine; Sensitization (Suzuki, T. (435) 59)

Alcohol; Amphetamine; Motor activity (D'Aquila, P.S. (435) 67)

Microdialysis; Nucleus accumbens; Acamprosate; Homotaurine; Ethanol (Olive, M.F. (437) 55)

c-GMP; L-DOPA (L-3,4-dihydroxyphenylalanine); Nitric oxide (NO); Peroxynitrite; Striatum (Sanchez, J.J. (438) 79)

Long-term potentiation; Cortex, prefrontal (Blond, O. (438) 115)

Methamphetamine; Drug self-administration; Neuroadaptation; (Rat) (Stefanski, R. (439) 59)

Apomorphine; Oxidative stress; Parkinson's disease; Behavior; Memory (Picada, J.N. (443) 105)

Dopamine D1 receptor; SKF 81297; Motor activity; Grooming; Attention-deficit hyperactivity disorder (Heijtz, R.D. (445) 97)

Phendimetrazine; Phenmetrazine; Norepinephrine; Microdialysis (Rothman, R.B. (447) 51)

Antipsychotic drug; Feeding; Glucose; Insulin; Lateral hypothalamus; Leptin; Obesity (Baptista, T. (447) 91)

Tyrosine loading, local; Quinpirole; PD 128907; Striatum, dorsal; Nucleus accumbens (Fusa, K. (448) 143)

Cocaine; Ketamine; Propofol; Immediate early gene; *egr-1*; Forebrain, rat (Jouvert, P. (449) 239)

Catalepsy; Locomotor activity; Prepulse inhibition; Amphetamine; Parkinson's disease; Progressive supranuclear palsy (Ross, B.M. (450) 141)

Cerebral ischemia; Propofol; Infarct size; (Rat) (Wang, J. (452) 303)

Catecholamine-regulated protein; D-Amphetamine; Desensitization, behavioural sensitization; Heat shock protein; Molecular chaperone (Gabriele, J. (453) 13)

Morphine; Cocaine; Conditioned place preference; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective; HPLC (High performance liquid chromatography); Radioligand binding (Deslandes, P.N. (453) 223)

Amylin; Ghrelin; Hypothalamus; Norepinephrine; 5-HT (5-hydroxytryptamine, serotonin) (Brunetti, L. (454) 189)

Mesolimbic; Antipsychotic drug; Clozapine; Prefrontal cortex (Westerink, B.H.C. (455) 1)

Norepinephrine; α_1 -Adrenoceptor; Cocaine; Prazosin; Hypophagia; Hyperlocomotion; (Rat) (Wellman, P. (455) 117)

Ethanol; MK-801; NMDA receptor; Locomotor activity (Hanania, T. (457) 125)

Dopamine autoreceptor

Cocaine continuous; Behavioral tolerance; Cocaine duration; Rat (King, G.R. (446) 111)

Dopamine D1-like receptor

Ganglion; Fenoldopam; Sympathetic tone (Vernejoul, F. (444) 197)

Muscarinic receptor subtype; cAMP; Nucleus accumbens (Onali, P. (448) 105)

Dopamine D1 receptor

Tacrolimus; Calcineurin; Dopamine D2 receptor; Dopamine D3 receptor; Locomotor activity (Sakanoue, M. (438) 93)

Dopamine; SKF 81297; Motor activity; Grooming; Attention-deficit hyperactivity disorder (Heijtz, R.D. (445) 97)

Dopamine D2 receptor

Gastric emptying; KDR-5169; 5-HT₄ receptor (Tazawa, S. (434) 169)

Vesicular monoamine transporter; NMDA receptor (Crosby, M.J. (438) 75)

Tacrolimus; Calcineurin; Dopamine D1 receptor; Dopamine D3 receptor; Locomotor activity (Sakanoue, M. (438) 93)

5-HT₇ receptor; 5-HT (5-hydroxytryptamine, serotonin); Body temperature; Plasma glucose; 5-HT₇ receptor antagonist (Kogan, H.A. (449) 105)

Schizophrenia; Extrapyramidal side-effect; Catalepsy; Neuroleptic; Antipsychotic; 5-HT_{1A} receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

Dopamine D3 receptor

Tacrolimus; Calcineurin; Dopamine D1 receptor; Dopamine D2 receptor; Locomotor activity (Sakanoue, M. (438) 93)

Dopamine receptor

Apoptosis; Glutathione; Neuroblastoma; Parkinson's disease (Uberti, D. (434) 17)

Jaw movement; Ventrolateral striatum; Striatal collateralised output pathway; Acetylcholine receptor; GABA_A receptor; (Rat) (Adachi, K. (442) 81)

Endomorphin-1; Endomorphin-2; μ -Opioid receptor; Passive avoidance learning; (Mouse) (Ukai, M. (446) 97)

Dopamine receptor agent

Jumping; Morphine; Naloxone; (Mouse) (Zarrindast, M.-R. (451) 287)

Dopamine receptor agonist

c-Fos; Parkinson's disease; Dyskinesia; L-DOPA (L-3,4-dihydroxyphenylalanine) (Nakazato, T. (442) 73)

Antioxidant; Neurodegeneration; Parkinson's disease; Neuroprotection (Lombardi, G. (457) 95)

Dopamine reuptake inhibition

GBR 12909; Dyskinesia; Parkinson's disease; MPTP-treated primate (Hansard, M.J. (451) 157)

Dopamine transporter

Methamphetamine; Aging; Tolerance; Hyperthermia; Striatum (Riddle, E.L. (435) 181)

Amniotic epithelial cell; Dopamine uptake (Elwan, M.A. (435) 205)

Reserpine; VMAT-2 (vesicular monoamine transporter-2); Striatum (Metzger, R.R. (456) 39)

Dopamine turnover

Hypothalamus–pituitary–adrenocortical axis; Morphine withdrawal; PKA (protein kinase A); PKC (protein kinase C); Corticosterone; Noradrenaline turnover (Cerezo, M. (452) 57)

Dopamine uptake

Amniotic epithelial cell; Dopamine transporter (Elwan, M.A. (435) 205)

Nitric oxide (NO) scavenger; Carboxy-PTIO (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide); Carboxy-PTI (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl) (Cao, B.-J. (448) 27)

Nisoxetine; Norepinephrine transporter; Withdrawal time; Intermittent; Nerve growth factor (Kantor, L. (451) 27)

Dorsal raphe nucleus

Locus coeruleus; Noradrenaline; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis (Pudovkina, O.L. (445) 37)

5-HT (5-Hydroxytryptamine), serotonin; Nicotine; GABA (γ -Aminobutyric acid) (Mihailescu, S. (452) 77)

Dosing regimen

Cocaine; Sensitization; Locomotion (Davidson, C. (441) 75)

Down regulation

Lithium chloride; Bipolar mood disorder; Protein kinase C; 1321N1 human astrocytoma cell; Ca²⁺ mobilization, intracellular (Kurita, M. (442) 17)

Doxorubicin

Endotoxin; P-Glycoprotein; Blood–brain barrier (Zhao, Y.L. (445) 115)

[D-Phe⁶, des-Met¹⁴]bombesin-(6–14) ethylester

Astrocyte; CHO cell; FLIPR; Ca²⁺; Bombesin (Mason, S. (438) 25)

DP receptor

Prostanoid receptor; Uterus, porcine; FP receptor; EP receptor; Smooth muscle contractility (Cao, J. (442) 115)

Dronedaron

Amiodarone; Thyroid hormone; Ischemia; Heart, isolated; rat (Pantos, C. (444) 191)

Drotaverine

Ca²⁺ channel, L-type; [³H]Nitrendipine; [³H]Diltiazem; Uterus, pregnant rat (Tömösközi, Z. (449) 55)

Drug addiction

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Morphine; Methamphetamine; Nicotine receptor (Glick, S.D. (438) 99)

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Bupropion; Nicotine; Nicotine receptor (Glick, S.D. (448) 185)

Drug discrimination

Cocaine; RTI 113; Discriminative stimulus effect; (Rat); (Squirrel monkey) (Cook, C.D. (442) 93)

Animal model; Cannabinoid CB₁ receptor; Neuroprotectant; (Rat) (De Vry, J. (457) 147)

Drug discrimination, (Rat)

5-HT_{2A} receptor; Cocaine; DOI; Ketanserin; Methamphetamine (Munzar, P. (436) 75)

Drug interaction

Cannabidiol; CP55940; WIN55212; Cannabinoid CB₁ receptor; Vas deferens, mouse (Pertwee, R.G. (456) 99)

Drug interactions

Valproate; Lamotrigine; Pentyleneetetrazole; 4-Aminopyridine; Anticonvulsant (Cuadrado, A. (453) 43)

Drug self-administration

Methamphetamine; Neuroadaptation; Dopamine; (Rat) (Stefanski, R. (439) 59)

Drug targeting

Apoptosis; Antioxidant; Mitochondrion (Dessolin, J. (447) 155)

DSP-4

Forced swim test; Reboxetine; Ventral noradrenergic bundle; Antidepressant (Cryan, J.F. (436) 197)

Duloxetine

Sibutramine; BTS 54 505; Bupropion; Thermogenesis; Food intake (Liu, Y.-L. (452) 49)

Duodenum, guinea pig

β -Adrenoceptor, atypical; β_3 -Adrenoceptor; Gastric fundus, guinea pig; SQ-22,536; cAMP (Horinouchi, T. (442) 137)

Dynamin-2

μ -Opioid receptor; Naltrexone; Receptor up-regulation; Constitutive internalization; G-protein receptor kinase-2 (Patel, M. (446) 37)

Dynorphin A

Circular muscle; Colonic transit (Tada, H. (454) 53)

Dyskinesia

c-Fos; Parkinson's disease; L-DOPA (L-3,4-dihydroxyphenylalanine); Dopamine receptor agonist (Nakazato, T. (442) 73)

Basal ganglion; Movement disorder; Striatum (Hamann, M. (443) 59)

GBR 12909; Dopamine reuptake inhibition; Parkinson's disease; MPTP-treated primate (Hansard, M.J. (451) 157)

Dyslipidemia

Single-nucleotide polymorphism; Coronary heart disease; Chinese population study; Lipoprotein lipase gene; High-density lipoprotein; Triglyceride (Su, Z.G. (454) 9)

Dystonia

Cannabinoid; Basal ganglion; Movement disorder (Richter, A. (454) 145)

EAhy926 cell

Atherosclerosis; Inflammation; PPAR (peroxisome proliferator-activated receptor); NF- κ B (nuclear factor- κ B) (Rival, Y. (435) 143)

Ebselen

Learning; Memory; Avoidance inhibitory (Porciúncula, L.O. (451) 165)

Ecstasy

MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Anxiety; (Rat); Neurotoxicity (Gurtman, C.G. (446) 89)

Preprotachykinin A mRNA; In situ hybridization; MDMA (3,4-methylene dioxymethamphetamine) (Pompei, P. (450) 245)

Ecto-protein kinase

Vas deferens, rat; ATP; Adenosine; Smooth muscle relaxation; P2 receptor; Adenosine A₂ receptor (Bültmann, R. (436) 135)

Edema

Dextromethorphan; Memantine; Ketamine; Formalin (Sawynok, J. (450) 153)

Mystixin; Hyaluronic acid; Hyaluronan; Inflammation (Stair, S. (450) 291)

Neutrophil elastase; Lung injury, acute; Respiratory distress syndrome, adult; Permeability (Kawabata, K. (451) 1)

EDHF (endothelium-derived hyperpolarizing factor)

Kidney, rat; Adrenomedullin; Vasodilation; Nitric oxide (NO) (Wangenstein, R. (444) 97)

EEG (electroencephalogram)

Zaleplon; Nonbenzodiazepine; Hypnotic; ω_1 receptor; Binding assay (Noguchi, H. (434) 21)

Neocortex; Acetylcholinesterase inhibitor; Monoamine oxidase inhibitor; 5-HT receptor agonist; Scopolamine; Forebrain basal; (Rat) (Dringenberg, H.C. (447) 43)

Efaroxan

KU14R; Imidazoline; α_2 -Adrenoceptor; Insulin; Glucose, blood (Mayer, G. (454) 95)

EGCG ((-)-epigallocatechin-3-gallate)

Hepatoprotection; Cell death cytotoxin-induced; Caspase (Kagaya, N. (450) 231)

egr-1

Cocaine; Ketamine; Propofol; Immediate early gene; Dopamine; Forebrain, rat (Jouvert, P. (449) 239)

Ehrlich ascites tumour

Metallocene; Titanocene Dichloride; Myelopoiesis; Bis-cyclopentadienyl-dithiocyanatetitanium (IV) (Valadares, M.C. (439) 35)

Eicosanoid

Pyrroloquinazoline; Cyclo-oxygenase-2; Air pouch, mouse; Carrageenan paw oedema; Analgesia (Rioja, I. (434) 177)

Hepatobiliary; Endothelin; Prostanoid; Oddi sphincter; Common bile duct; Choledochoduodenal junction (Koepp, J. (435) 103)

Electrical field stimulation

Detrusor smooth muscle; Atropine; Propiverine; Oxybutynin; Tolterodine (Wüst, M. (454) 59)

Electrical stimulation

Penile erection; Penile diameter; Cavernous nerve; Nitrate; Tolerance (Adachi, H. (445) 267)

Electroconvulsive shock

α_1 -Adrenoceptor subtype; Brain, rat; [³H]Prazosin binding; Imipramine; α_1 -Adrenoceptor mRNA (Nalepa, I. (444) 151)

Electrode

Endothelial cell; Nitric oxide (NO); Superoxide anion; Quinacrine; Superoxide dismutase (David-Dufilho, M. (436) 159)

Electrophysiology

Ventricle, human; Contractile force; Acidosis, intracellular; Fluorescent; Oxygen free radical; Antioxidant; Cardioprotective agent (Loh, S.-H. (443) 169)

Cardiomyocyte; Cell culture; Cell contraction; Adenosine receptor; Simulated ischemia-reperfusion; (Rat) (Bès, S. (452) 145)

Electroshock, maximal

Alphaxalone; Antiepileptic drug; Amygdala-kindled seizure; Pentetrazole; Aminophylline (Borowicz, K.K. (449) 85)

Epilepsy; Seizure; Cannabinoid; Cannabinoid CB₁ receptor; Anandamide; O-1812 (Wallace, M.J. (452) 295)

Embolism, microsphere

GABA (γ -aminobutyric acid); Glutamic acid decarboxylase; Spatial memory function (Fukatsu, T. (453) 59)

Embryo, mouse

Ca²⁺ channel, voltage-gated; Ca_v1.3; L-type Ca²⁺ channel; Heart; Dihydropyridine (Klugbauer, N. (447) 279)

Emesis

Prostanoid; Defecation (Kan, K.K.W. (453) 299)

Cisplatin; Kaolin; Pica; Delayed (Rudd, J.A. (454) 47)

(EMG) Electromyogram

Muscarinic receptor antagonist; Antipsychotic drug; Striatum; Muscle rigidity (Hemsley, K.M. (434) 117)

Enantiomer

β -Adrenoceptor agonist; Adrenaline; Asthma; Bronchodilation (Waldeck, B. (445) 1)

Encephalopathy

Diabetes mellitus; Nerve; Brain; Neuron; Ca^{2+} ; Pathogenesis; Treatment; Neuropathy (Biessels, G.J. (447) 201)

Endocannabinoid

Uptake inhibition; UCM707 (de Lago, E. (449) 99)

Endocytosis

Urinary bladder; Epithelial Na^+ channel; Vesicular transport (Burton, T.J. (448) 215)

Endocytosis rate

Buoyant density separation; Endosomal sorting; Lysosomal sorting; Selective agonist endocytosis; Receptor affinity; Receptor conservation (Parker, M.S. (452) 279)

Endogenous ligand

Antinociception; Opioid; Intrathecal infusion; NMDA receptor antagonist; Paw withdrawal test (Kekesi, G. (445) 93)

Endomorphin-1

Endomorphin-2; μ -Opioid receptor; Passive avoidance learning; Dopamine receptor; (Mouse) (Ukai, M. (446) 97)

Antinociception; Tail-flick test; Endomorphin-2; Tolerance; Cross-tolerance (Hung, K.-c. (448) 169)

Endomorphin-2; c-Fos; Zif/268; Formalin; Spinal dorsal horn (Tateyama, S. (451) 79)

Endomorphin-2

Endomorphin-1; μ -Opioid receptor; Passive avoidance learning; Dopamine receptor; (Mouse) (Ukai, M. (446) 97)

Antinociception; Tail-flick test; Endomorphin-1; Tolerance; Cross-tolerance (Hung, K.-c. (448) 169)

Endomorphin-1; c-Fos; Zif/268; Formalin; Spinal dorsal horn (Tateyama, S. (451) 79)

Endoplasmic reticulum

Ca^{2+} signalling; Ca^{2+} binding protein; Unfolded protein response; Endoplasmic reticulum overload response; Neuronal survival; Chaperone (Verkhatsky, A. (447) 141)

Caffeine; Ryanodine; Thapsigargin; Aging; Excitotoxicity; Ca^{2+} imaging (Clodfelter, G.V. (447) 189)

Endoplasmic reticulum overload response

Endoplasmic reticulum; Ca^{2+} signalling; Ca^{2+} binding protein; Unfolded protein response; Neuronal survival; Chaperone (Verkhatsky, A. (447) 141)

Endosomal sorting

Buoyant density separation; Endocytosis rate; Lysosomal sorting; Selective agonist endocytosis; Receptor affinity; Receptor conservation (Parker, M.S. (452) 279)

Endothelial barrier function

Radiographic contrast media; Pulmonary edema; Vascular permeability; Evans blue; Carbazochrome (Sendo, T. (450) 203)

Endothelial cell

Electrode; Nitric oxide (NO); Superoxide anion; Quinacrine; Superoxide dismutase (David-Dufilho, M. (436) 159)

Anti-ischemic molecule; Hypoxia; Mitochondrion; Respiration; Complex I (Bouaziz, N. (441) 35)

Endothelial dysfunction

Neutrophil adhesion; Endothelium glycocalyx; Reperfusion injury; Heart, guinea-pig, isolated; Oxygen free radical (Kurzelewski, M. (434) 95)

Endothelium glycocalyx

Endothelial dysfunction; Neutrophil adhesion; Reperfusion injury; Heart, guinea-pig, isolated; Oxygen free radical (Kurzelewski, M. (434) 95)

Diabetes; Nitric oxide (NO); Superoxide; Superoxide dismutase; Tempol (Nassar, T. (436) 111)

NO (Nitric oxide); Hypertension; Angiotensin-converting enzyme inhibitor (De Gennaro Colonna, V. (450) 61)

Endothelial function

Oxidative stress; Glutathione; Blood pressure (Ganafa, A.A. (454) 217)

Endothelin

Hepatobiliary; Eicosanoid; Prostanoid; Oddi sphincter; Common bile duct; Choledcho-duodenal junction (Koepp, J. (435) 103)

Mitogenesis; Ca^{2+} influx; Extracellular signal-regulated kinase (Kawanabe, Y. (435) 119)

Diabetic, rat; Endothelin ET_A receptor antagonist; Diabetic nephropathy (Sugimoto, K.-i. (450) 183)

PKC (protein kinase C); Sarafotoxin 6c; Endothelin ET_B receptor; Ro31-7549; Staurosporine; K252a; H89 (Uddman, E. (452) 215)

HMG-CoA reductase inhibitor; Cardiac hypertrophy; Rho protein; Myocyte (Nishikimi, T. (453) 175)

Endothelin-1

MAP kinase; U0126; PD98059; Angiotensin II; Contraction (Ishihata, A. (445) 247)

Barrel rotation; c-Fos; Vestibular nucleus; (Rat) (Kozako, T. (454) 199)

β -Adrenoceptor antagonist; Signal transduction; TGF- β_1 (transforming growth factor- β_1) (Tsubokou, Y. (457) 85)

Endothelin-1, big

Endothelin ET_B receptor; Diuresis; Hypertension; Nitric oxide (NO) (Konishi, F. (451) 177)

Endothelin ET_A receptor antagonist

Diabetic, rat; Endothelin; Diabetic nephropathy (Sugimoto, K.-i. (450) 183)

Endothelin ET_B receptor

Cyclooxygenase; Interleukin-1 β ; NSAID (nonsteroidal anti-inflammatory drug); Rofecoxib; Glucocorticoid (White, L.R. (448) 51)

Endothelin-1, big; Diuresis; Hypertension; Nitric oxide (NO) (Konishi, F. (451) 177)

PKC (protein kinase C); Endothelin; Sarafotoxin 6c; Ro31-7549; Staurosporine; K252a; H89 (Uddman, E. (452) 215)

Endothelium

Diabetes; Nitric oxide (NO); 5-HT (5-hydroxytryptamine, serotonin); Cyclooxygenase; Renal artery, rabbit (Miranda, F.J. (439) 121)

Ca²⁺ channel; Geissoschizine methyl ether; Nitric oxide (NO); Aorta, rat; Vasorelaxation (Yuzurihara, M. (444) 183)

Aortic slice, rat; Kynurenic acid; Excitatory amino acid receptor; Glucose; Oxygen (Stążka, J. (448) 133)

Endothelium-dependent vasodilatation

Coronary flow; Coronary vasoconstriction; Coronary vasodilatation; Coronary vasodilator reserve (Fernández, N. (457) 161)

Endotoxaemia

Nitric oxide (NO); Contractility; Inotropic agent (Price, S. (449) 279)

Endotoxic shock

Inflammatory cytokine; TNF- α (tumor necrosis factor- α); Interleukin-10; Apoptosis; Fibrosis; TGF- β (transformation growth factor- β) (Oku, H. (446) 165)

Endotoxin

P-Glycoprotein; Blood–brain barrier; Doxorubicin (Zhao, Y.L. (445) 115)

Zn²⁺ level; Oxidative stress; Metallothionein; Ca²⁺; Nitric oxide (NO) Sakaguchi, S. (451) 309)

Energy balance

CRF receptor; Peptide (Richard, D. (440) 189)

Energy homeostasis

Melanocortins; Melanocortin receptor; Neuropeptide; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); POMC (proopiomelanocortin); Obesity; Sexual function (MacNeil, D.J. (440) 141)

Enkephalin

RB101; Neutral endopeptidase; Aminopeptidase N; Analgesia; C-fibre reflex (Benoist, J.-M. (445) 201)

Bicarbonate-dependent secretion; Cannabinoid; Inflammatory mediator; Prostanoid (Green, B.T. (451) 185)

Entacapone

COMT inhibitor; Tolcapone; Uncoupling; Parkinson's disease (Haasio, K. (453) 21)

Enterochromaffin-like cell

Somatostatin; Gastric acid secretion; Histamine release; Gastric parietal cell; Muscarinic acetylcholine receptor agonist; Stomach, isolated, mouse (Komasaka, M. (452) 235)

Eosinophil

Allergic rhinitis; Interleukin-5; TRFK5 (Yamasaki, M. (439) 159)

Allergic rhinitis; Nitric oxide (NO) synthase; 1400 W; Eotaxin; Chemotaxis (Ferreira, H.H.A. (442) 155)

Eosinophil peroxidase activity

Allergic conjunctivitis; Late-phase reaction; Histamine H₁ receptor; P-selectin (Izushi, K. (440) 79)

Eosinophils

Eotaxin; Allergic asthma; Mouse model (Scheerens, J. (453) 111)

Eotaxin

Allergic rhinitis; Eosinophil; Nitric oxide (NO) synthase; 1400 W; Chemotaxis (Ferreira, H.H.A. (442) 155)

Allergic asthma; Eosinophils; Mouse model (Scheerens, J. (453) 111)

Epilepsy

Nitric oxide (NO); 4-Aminopyridine; N^G-nitro-L-arginine; Molsidomine; Seizure (Tutka, P. (437) 47)

Glial cell; Hippocampus; Ion channel; Glutamate receptor (Steinhäuser, C. (447) 227)

mGlu receptor; NMDA receptor antagonist; AMPA receptor antagonist; Antiepileptic drug (De Sarro, G. (451) 55)

Pharmacoresistance; Multidrug resistance gene; Antiepileptic drug (Seegers, U. (451) 149)

Electroshock, maximal; Seizure; Cannabinoid; Cannabinoid CB₁ receptor; Anandamide; O-1812 (Wallace, M.J. (452) 295)

Epileptiform activity

Cortical slice; NMDA receptor antagonist, low-affinity; Mg²⁺, low (Naish, H.J. (443) 79)

Epithelial Na⁺ channel

Urinary bladder; Vesicular transport; Endocytosis (Burton, T.J. (448) 215)

EP receptor

Prostanoid receptor; Uterus, porcine; DP receptor; FP receptor; Smooth muscle contractility (Cao, J. (442) 115)

EP₃ receptor

IP receptor; cAMP; Cell migration (Blindt, R. (444) 31)

Eptifibatide

GP1Ib-IIIa antagonist; Disintegrin; Integrilin; GR144053F; Polymorphism P1^{A1/A2} (platelet-specific antigen) (Rozalski, M. (454) 1)

Erectile dysfunction

Melanocortin; Melanocortin MC₄ receptor; G protein-coupled receptor (Martin, W.J. (454) 71)

Erk1/2

5-HT (5-hydroxytryptamine, serotonin); Hippocampus; 5-HT_{1A} receptor; Phosphorylation; MAP (mitogen-activated protein) kinase; Immunoblotting (Chen, J. (452) 155)

ERK (p44/42 extracellular signal-regulated kinase)

Ambroxol; PDGF (Platelet-derived growth factor); Monocytic cell, human (Utsugi, M. (436) 47)

Erythrocyte membrane

α -Tocopherol; Diabetes; Free radical; Insulin (Shinozaki, K. (456) 133)

Erythromycin

QT interval; K⁺ channel blocker; Proarrhythmia; Torsade de pointes; α_1 -Adrenoceptor stimulation; Clofilium; Terikalant (Farkas, A. (449) 143)

Erythropoietin

Brain ischemia; Passive avoidance; Learning ability (Catania, M.A. (437) 147)

Esophageal sphincter relaxation, transient, lower

GABA_B receptor; Swallowing; Baclofen (Lehmann, A. (448) 67)

Estradiol-17 β

Genistein; SHR (Spontaneously hypertensive rat); Renal artery; Tyrosine phosphorylation (Nevala, R. (452) 87)

Estrogen

Raloxifene; Nitric oxide (NO); Nitric oxide (NO) synthase, endothelial (Rahimian, R. (434) 141)

Iodoxifene; Nitric oxide (NO) (Christopher, T.A. (446) 137)

Ethanol

Microdialysis; Nucleus accumbens; Dopamine; Acamprosate; Homotaurine (Olive, M.F. (437) 55)

MAP (mitogen-activated protein) kinase; Cerebral cortex (Kalluri, H.S.G. (439) 53)

Taurine; Glutamate; Microdialysis; Alcohol sensitivity, high; Alcohol sensitivity, low (Quertemont, E. (444) 143)

GABA (γ -amino butyric acid); MAP (mitogen-activated protein) kinase (Kalluri, H.S.G. (451) 51)

NECA (5'-*N*-ethylcarboxamidoadenosine); Nitric oxide (NO); Blood pressure; Radiotelemetry; Aorta (Rekik, M. (452) 205)

MK-801; Dopamine; NMDA receptor; Locomotor activity (Hanania, T. (457) 125)

Ethanol dependence

Noradrenaline plasma; Adrenaline; Catecholamine ratio; Ethanol tolerance; Ethanol withdrawal; Adaptation (Kovács, G.L. (448) 151)

Ethanol intake

Δ^9 -Tetrahydrocannabinol; Cannabinoid CB₁ receptor; SR 141716A; Object recognition task; Alcohol-preferring rat (Ciccocioppo, R. (449) 245)

Ethanol tolerance

Noradrenaline plasma; Adrenaline; Catecholamine ratio; Ethanol dependence; Ethanol withdrawal; Adaptation (Kovács, G.L. (448) 151)

Ethanol withdrawal

Noradrenaline plasma; Adrenaline; Catecholamine ratio; Ethanol tolerance; Ethanol dependence; Adaptation (Kovács, G.L. (448) 151)

Ethanol withdrawal syndrome

GABA_B receptor antagonist, SCH 50911; Seizures; (Rat) (Carai, M.A.M. (445) 195)

Ethylenediamine

Ileum; Cannabinoid CB₁ receptor; GABA (γ -aminobutyric acid) release; Anandamide (Begg, M. (434) 87)

Etorphine derivative

Opioid receptor; Radioligand binding; [³⁵S]GTP γ S binding; Brain, rat (Biyashev, D. (442) 23)

Evans blue

Radiographic contrast media; Pulmonary edema; Vascular permeability; Carbazochrome; Endothelial barrier function (Sendo, T. (450) 203)

Evodiamine

Corpus cavernosum; K⁺ channel; Cyclic nucleotide (Chiou, W.-F. (446) 149)

Gastrointestinal motility; Cholecystokinin; Devazepide; Lorglumide; L-365,260 (Wu, C.-L. (457) 169)

Excitatory amino acid receptor

Aortic slice, rat; Kynurenic acid; Endothelium; Glucose; Oxygen (Stążka, J. (448) 133)

Excitotoxicity

p38 MAP Kinase; Neuronal injury, acute; Cell culture; Neuroprotection; Ischemic cell death (Legos, J.J. (447) 37)

Caffeine; Ryanodine; Thapsigargin; Aging; Endoplasmic reticulum; Ca²⁺ imaging (Clodfelter, G.V. (447) 189)

Cerebral cortex; Neurosteroid; NMDA (*N*-methyl-D-aspartate); Organotypic slice culture (Shirakawa, H. (454) 165)

Exocytosis

Agmatine; Imidazoline; G protein; Mastoparan; Mast cell (Ferry, X. (435) 19)

Expression

Induction; Operational model; Upregulation (Möller, S. (454) 2092)

Expression pattern

Diamine oxidase (histaminase); Histamine *N*-methyltransferase; mRNA; Histaminergic signal transmission; Peripheral tissues (Kitanaka, J. (437) 179)

Extracellular signal-regulated kinase

Endothelin; Mitogenesis; Ca²⁺ influx (Kawanabe, Y. (435) 119)

Cell proliferation; p38 mitogen-activated protein kinase; Transmural pressure; Vascular smooth muscle cell; Signal transduction (Tsuda, Y. (446) 15)

Extrapyramidal side-effect

Schizophrenia; Catalepsy; Neuroleptic; Antipsychotic; Dopamine D2 receptor; 5-HT_{1A} receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

Extrapyramidal symptom

Antipsychotic; Benzamide (Marchese, G. (444) 69)

F 13640

Nerve injury, infraorbital; Allodynia, mechanical; 5-HT_{1A} receptor; Baclofen; Morphine (Deseure, K. (456) 51)

FaRP

(*Ascaris*); Nematode; Cl⁻ channel; PF4 (Purcell, J. (456) 11)

Fast application

GABA_A receptor; Pentobarbital; Computer simulation (Krampfl, K. (435) 1)

Fasting

PPAR (peroxisome proliferator activated receptor); Fibrate; Thiazolidinedione; Steatosis; Adipogenesis; Lipogenesis; Nuclear hormone receptor; Fatty acid oxidation (Kersten, S. (440) 223)

Orexin; Glycemia; Diabetes; (Mouse) (Tsuneki, H. (448) 245)

Fasudil

Unilateral ureteral obstruction; Renal interstitial fibrosis; Macrophage; Rho-kinase (Sato, S.-i. (455) 169)

Fatty acid oxidation

PPAR (peroxisome proliferator activated receptor); Fibrate; Thiazolidinedione; Steatosis; Adipogenesis; Lipogenesis; Nuclear hormone receptor; Fasting (Kersten, S. (440) 223)

Fecal output

CRF (Corticotropin-releasing factor); Diarrhea; CRF₁ receptor; CP-154,526; Colon (Saunders, P.R. (435) 231)

Feeding

Orexin; Hypocretin; SB-334867; Narcolepsy; Sleep–wake cycle (Smart, D. (440) 199)

Dopamine; Glucose; Insulin; Lateral hypothalamus; Leptin; Obesity (Baptista, T. (447) 91)

Ghrelin; Intracerebroventricular injection; Neonatal (chick) (Saito, E.-S. (453) 75)

Feeding behavior

Bombesin; GRP (gastrin-releasing peptide); GRP receptor; Bombesin BB₁ receptor; Bombesin BB₂ receptor; Bombesin bb₃ receptor; Obesity (Yamada, K. (440) 281)

Fendiline

Neocortex, rat; Baclofen; SKF 97541; Positive modulator; Prenylamine (Kerr, D.I.B. (451) 69)

Fenfluramine

5-Hydroxytryptamine (5-HT, serotonin); Microdialysis; Anti-obesity agent; Serotonin uptake inhibitor; Amphetamine (Tao, R. (445) 69)

Lipopolysaccharide; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); Interleukin-10, glucocorticoid; Catecholamine (Connor, T.J. (455) 175)

Fenoldopam

Dopamine D1-like receptor; Ganglion; Sympathetic tone (Vernejoul, F. (444) 197)

Fever

Lipopolysaccharide; Pyrazole; Antipyresis; Hypothermia; Mouse (Souza, F.R. (451) 141)

Fibrate

PPAR (peroxisome proliferator activated receptor); Thiazolidinedione; Steatosis; Adipogenesis; Lipogenesis; Nuclear hormone receptor; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

RANTES; Bile acid; Chenodeoxycholic acid; NF- κ B (Nuclear factor- κ B); PPAR α (peroxisome proliferator-activated receptor) (Hirano, Y. (448) 19)

Fibroblast

Melanin; Collagen; Gentamicin; Prolidase (Wrześniok, D. (446) 7)

Fibronectin

cAMP; Mechanical stretch; Glomerulosclerosis; MAP (mitogen-activated protein) kinase; AP-1 (activator protein-1) (Nishio, T. (437) 113)

Fibrosis

Endotoxin shock; Inflammatory cytokine; TNF- α (tumor necrosis factor- α); Interleukin-10; Apoptosis; TGF- β (transformation growth factor- β) (Oku, H. (446) 165)

β -Adrenoceptor; Autonomic nervous system; Contractility; Heart failure (Brouri, F. (456) 69)

FK506

Cyclosporin A; ATDC5 cell; Chondrogenic differentiation; Calcineurin; Cartilage (Nishigaki, F. (437) 123)

FK506 (tacrolimus hydrate)

Psoriasis; Animal model; Allergic contact dermatitis (Fujii, Y. (456) 115)

Flavonoid

Xanthine oxidase; Structure–function relationship; Inhibition; IC₅₀ (Van Hoon, D.E.C. (451) 111)

Flesinoxan

Pharmacokinetic–pharmacodynamic modelling; Hypothermia; Corticosterone; 5-HT_{1A} receptor; Handling (Zuideveld, K.P. (445) 43)

Flexor reflex

Spasticity; Clonidine; Tail-flick; Antinociception (Advokat, C. (437) 63)

FLIPR

Astrocyte; CHO cell; Ca²⁺; Bombesin; [D-Phe⁶, des-Met¹⁴]bombesin-(6–14) ethylester (Mason, S. (438) 25)

Flufenamic acid

Voltage-clamp; Niflumic acid; HERG (ether-a-go-go related gene); Q–T syndrome, long (Malykhina, A.P. (452) 269)

Fluorescence

Ca²⁺; Ca²⁺ indicator; Neocortex; Dendrite; Two-photon; In vivo; Olfactory bulb bulb (Helmchen, F. (447) 119)

Fluorescent

Ventricle, human; Electrophysiology; Contractile force; Acidosis, intracellular; Oxygen free radical; Antioxidant; Cardioprotective agent (Loh, S.-H. (443) 169)

Fluoxetine

Microdialysis, intracerebral; Knock-out mouse; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (Malagié, I. (443) 99)

Outer hair cell; K⁺ current; Voltage-activated; Cochlea; Antidepressant (Bian, J.-T. (453) 159)

Fluvastatin

Antioxidant effect; Cigarette smoke extract; LDL (low-density lipoprotein); Oxidatively modified; WHHL rabbit (Yamaguchi, Y. (436) 97)

Fluvoxamine

Antidepressant; Cell proliferation; Photoisomerization; 5-HT (5-hydroxytryptamine, serotonin) uptake; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (Miolo, G. (450) 223)

Paroxetine; Clomipramine; Antidepressant; Anticholinergic effect; (Mouse) (Fujishiro, J. (454) 183)

FMLP (N-formyl-methionyl-leucyl-phenylalanine)

S-carboxymethylcysteine; Neutrophil; Phospholipase C; Phosphatidyl inositol-specific (Ishii, Y. (449) 183)

Food intake

(MCH) melanin-concentrating hormone; SLC-1 receptor; Receptor antagonist; Obesity (Takekawa, S. (438) 129)

GLP-1 (glucagon-like peptide 1); Obesity; Satiety (Meier, J.J. (440) 269)

Sibutramine; BTS 54 505; Duloxetine; Bupropion; Thermogenesis (Liu, Y.-L. (452) 49)

Food intake, control of

Ghrelin; Growth hormone secretagogue; Pituitary hormone; Metabolic fuel; Obesity (Muccioli, G. (440) 235)

Forced swimming test

Rosmarinic acid; Caffeic acid; Antidepressant; (Mouse) (Takeda, H. (449) 261)

Forced swim test

Reboxetine; DSP-4; Ventral noradrenergic bundle; Antidepressant (Cryan, J.F. (436) 197)

Forebrain basal

EEG (electroencephalogram); Neocortex; Acetylcholinesterase inhibitor; Monoamine oxidase inhibitor; 5-HT receptor agonist; Scopolamine; (Rat) (Dringenberg, H.C. (447) 43)

Forebrain, rat

Cocaine; Ketamine; Propofol; Immediate early gene; *egr-1*; Dopamine (Jouvert, P. (449) 239)

Formalin

Dextromethorphan; Memantine; Ketamine; Edema (Sawynok, J. (450) 153)

Endomorphin-1; Endomorphin-2; c-Fos; Zif/268; Spinal dorsal horn (Tateyama, S. (451) 79)

Formalin test

Tramadol; 5-HT (5-hydroxytryptamine, serotonin); Norepinephrine; Opioid (Oliva, P. (445) 179)

Hyperalgesia; Inflammation; Ion channels; Neuropathic pain (Blackburn-Munro, G. (445) 231)

Hot plate; Tail immersion; Morphine; Nociception; Buprenorphine (Gilbert, A.-K. (449) 75)

Spinal nociception; Inflammation; Heat hyperalgesia; Spinal microdialysis; Nitric oxide (Güthring, H. (454) 153)

Formol

c-Fos; Nefopam; Noxious heat; Spinal dorsal horn (Buritova, J. (441) 67)

Formyl-peptide receptor

Human, neutrophil; Neutrophil functionality (Dalpiaz, A. (436) 187)

FP receptor

Prostanoid receptor; Uterus, porcine; DP receptor; EP receptor; Smooth muscle contractility (Cao, J. (442) 115)

FR143166

Antinociception; Descending serotonergic system; 5-HT_{2A} receptor; 5-HT₃ receptor; Spinal cord (Ochi, T. (452) 319)

FR167653

p38 MAP (mitogen-activated protein) kinase inhibitor; Carrageenan; Paw edema; Lipopolysaccharide; Vascular permeability (Nishikori, T. (451) 327)

Free radical

Bladder; Long-chain fatty alcohol; Ischemia–reperfusion injury; Malonaldehyde (Saito, M. (454) 81)

α -Tocopherol; Erythrocyte membrane; Diabetes; Insulin (Shinozaki, K. (456) 133)

Free radical scavenger

Indole derivative; Myocardial infarct size; Cardioprotection; Ischemia–reperfusion; Malondialdehyde (Andreadou, I. (453) 271)

Frequency dependence

Antiarrhythmic agent; Ion channel; Voltage dependence (Kushida, S. (457) 19)

Freund's adjuvant

LY382884; NS-102; NBQX; Q/R editing; (Rat); Kainate receptor; Hyperalgesia (Guo, W. (452) 309)

Functional experiment

(+)-Boldine; α_1 -Adrenoceptor; α_2 -Adrenoceptor; Subtype; Selectivity; Radioligand binding study; Ca²⁺ channel antagonism; Cardiac effect (Eltze, M. (443) 151)

Fura-2

Lignan; Ca²⁺; Ca²⁺ store; MDCK cell; Thapsigargin (Chao, Y.-Y. (443) 31)

Fura-2 microfluorimetry

AMPA receptor; Cortical neurone, cultured; GABA (γ -aminobutyric acid) immunocytochemistry; Co²⁺ uptake; Ca²⁺ concentration, intracellular (Fischer, W. (438) 53)

GABA_A–benzodiazepine receptor

5-HT_{1A} receptor knockout mice; (In vivo); Pentylentetrazol; Positive righting reflex; Stress-induced hyperthermia (Pattij, T. (447) 67)

GABA (γ -amino butyric acid)

Noradrenaline; Blood pressure; Mesenteric arterial bed; Perivascular nerve stimulation; Spontaneously hypertensive rat (SHR) (Hayakawa, K. (438) 107)

Ethanol; MAP (mitogen-activated protein) kinase (Kalluri, H.S.G. (451) 51)

Dorsal raphe nucleus ; 5-HT (5-Hydroxytryptamine), serotonin; Nicotine (Mihailescu, S. (452) 77)

Embolism, microsphere; Glutamic acid decarboxylase; Spatial memory function (Fukatsu, T. (453) 59)

GABA (γ -aminobutyric acid) immunocytochemistry

AMPA receptor; Cortical neurone, cultured; Co²⁺ uptake; Fura-2 microfluorimetry; Ca²⁺ concentration, intracellular (Fischer, W. (438) 53)

GABA (γ -aminobutyric acid)-mimetic

GABA_A receptor; Clomethiazole; Neuroprotective agent; Bicuculline (Nelson, R.M. (452) 255)

GABA (γ -aminobutyric acid) release

Ileum; Cannabinoid CB₁ receptor; Ethylenediamine; Anandamide (Begg, M. (434) 87)

GABA (γ -aminobutyric acid), uptake

WIN55,212-2; Cannabinoid; Hippocampus; Temperature (Al-Hayani, A. (442) 47)

GABA receptor

Benzodiazepine; Mutagenesis (Wingrove, P.B. (437) 31)

GABA_A receptor

Pentobarbital; Fast application; Computer simulation (Krampfl, K. (435) 1)

Jaw movement; Ventrolateral striatum; Striatal collateralised output pathway; Dopamine receptor; Acetylcholine receptor; (Rat) (Adachi, K. (442) 81)

Malnutrition; Septum (Steiger, J.L. (446) 199)

Isoflurane; Patch-clamp; Kinetic modelling; Open-channel block (Hase-neder, R. (451) 43)

Zaleplon; Zolpidem; Benzodiazepine; Recombinant; Cl^- current; *Xenopus* oocyte (Sanna, E. (451) 103)

Xenopus oocyte; 4-PIOL (5-(4-piperidyl)-3-isoxazolol); Partial agonist; Structure–activity; Lipophilicity (Mortensen, M. (451) 125)

GABA (γ -aminobutyric acid)-mimetic; Clomethiazole; Neuroprotective agent; Bicuculline (Nelson, R.M. (452) 255)

GABA_B receptor

Ca^{2+} current; Ca^{2+} channel subtype; Transfection; NG108-15 cell; Antisense (Easter, A. (440) 17)

GHB (gamma-hydroxybutyrate) binding site; *RS*-NCS-382; *R*-NCS-382; *S*-NCS-382; Baclofen (Castelli, M.P. (446) 1)

Swallowing; Esophageal sphincter relaxation, transient, lower; Baclofen (Lehmann, A. (448) 67)

[^{35}S]GTP γS binding; μ -Opioid receptor; G-protein; Brain, human; Receptor reserve; Signal transduction (González-Maeso, J. (452) 21)

GABA_B receptor antagonist

Baclofen; Lipopolysaccharide; Interleukin-6; cAMP; Pituicyte; Neuro-hypophysis (Kjeldsen, T.H. (451) 209)

GABA_B receptor antagonist, SCH 50911

Seizures; Ethanol withdrawal syndrome; (Rat) (Carai, M.A.M. (445) 195)

Gabapentin

Ca^{2+} channel, voltage-operated; Patch clamp; Ca^{2+} imaging (van Hooff, J.A. (449) 221)

[^3H]GBR 12935

Methamphetamine; Benzodiazepine receptor, peripheral-type; HSP27; Carnosine; [^3H]Paroxetine (Pubill, D. (448) 165)

Galanin gal2 receptor

GALP (galanin-like peptide); Galanin GAL1 receptor; Leptin; Insulin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

Galanin GAL1 receptor

GALP (galanin-like peptide); Galanin gal2 receptor; Leptin; Insulin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

GALP (galanin-like peptide)

Galanin GAL1 receptor; Galanin gal2 receptor; Leptin; Insulin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

Ganglion

Dopamine D1-like receptor; Fenoldopam; Sympathetic tone (Vernejoul, F. (444) 197)

Ganglionic blockade

Nociceptin; ORL1 receptor; Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Capacitance vessel (Abdelrahman, A.M. (455) 143)

Gastric acid secretion

Clonidine; Oxymetazoline; β -endorphin; Glibenclamide (Müllner, K. (435) 225)

Nociceptin; ORL1 receptor; Central injection; (Rat) (Ishihara, S. (441) 105)
Opioid receptor; Central nervous system; Mitragynine (Tsuchiya, S. (443) 185)

PAR-2 (protease-activated receptor-2); Protease (proteinase); Gastric mucosal cytoprotection (Nishikawa, H. (447) 87)

Somatostatin; Histamine release; Gastric parietal cell; Enterochromaffin-like cell; Muscarinic acetylcholine receptor agonist; Stomach, isolated, mouse (Komasaka, M. (452) 235)

Gastric blood flow

Aspirin; *Helicobacter pylori*; Ulcer healing; Gastric secretion; Cyclo-oxygenase; Growth factor (Konturek, P.C. (451) 191)

Gastric emptying

KDR-5169; 5-HT $_4$ receptor; Dopamine D2 receptor (Tazawa, S. (434) 169)

Gastrointestinal transit; Pertussis toxin; Cannabinoid CB $_1$ receptor (Landi, M. (450) 77)

GLP-1 (glucagon-like peptide-1) derivative; Diabetes type 2; Glucose tolerance; Insulin sensitivity; Glucagon (Ribel, U. (451) 217)

Gastric fundus

(Mouse); Photorelaxation; Nitric oxide (NO); *S*-nitrosothiol; Thiol modulator; Glutathione (Ögülcener, N. (450) 267)

Gastric fundus, guinea pig

β -Adrenoceptor, atypical; β_3 -Adrenoceptor; Duodenum, guinea pig; SQ-22,536; cAMP (Horinouchi, T. (442) 137)

Gastric fundus, pig

Heme oxygenase-2; Biliverdin reductase; Bile pigment; Carbon monoxide; Nitric oxide relaxation (Colpaert, E.E. (457) 177)

Gastric fundus, rat

L-Citrulline recycling; Argininosuccinate synthetase; Argininosuccinate lyase; Nitric oxide (NO) synthase, Neuronal (Van Geldre, L.A. (455) 149)

Gastric mucosal cytoprotection

PAR-2 (protease-activated receptor-2); Protease (proteinase); Gastric acid secretion (Nishikawa, H. (447) 87)

Gastric mucosal damage

Sodium salicylate; Cyclooxygenase-2; Ischaemia–reperfusion; Adaptive gastroprotection; Nitric oxide (NO) (Peskar, B.M. (434) 65)

Gastric parietal cell

Somatostatin; Gastric acid secretion; Histamine release; Enterochromaffin-like cell; Muscarinic acetylcholine receptor agonist; Stomach, isolated, mouse (Komasaka, M. (452) 235)

Gastric secretion

Aspirin; *Helicobacter pylori*; Ulcer healing; Gastric blood flow; Cyclo-oxygenase; Growth factor (Konturek, P.C. (451) 191)

Gastric ulcer

Blood flow; Glutathione; Mucus; Nicotine; Prostaglandin E $_2$ (Wong, D. (434) 81)

Ulcer healing, chronic; Nonsteroidal anti-inflammatory drugs; Prostaglandin; Myeloperoxidase activity; Immunohistochemistry (Berenguer, B. (442) 125)

Aging; Cimetidine; Omeprazole; (Rat) (Ishihara, M. (444) 209)

Gastrointestinal motility

Evodiamine; Cholecystokinin; Devazepide; Lorglumide; L-365,260 (Wu, C.-L. (457) 169)

Gastrointestinal transit

Gastric emptying; Pertussis toxin; Cannabinoid CB₁ receptor (Landi, M. (450) 77)

GBR 12909

Dyskinesia; Dopamine reuptake inhibition; Parkinson's disease; MPTP-treated primate (Hansard, M.J. (451) 157)

Geissoschizine methyl ether

Ca²⁺ channel; Endothelium; Nitric oxide (NO); Aorta, rat; Vasorelaxation (Yuzurihara, M. (444) 183)

Gender

CGRP (calcitonin gene-related peptide); Blood pressure; Aging; Ovariectomy; Artery (Chan, G.H.H. (434) 133)

Gene expression

G protein-coupled receptor kinase; Adenylyl cyclase; Cystic fibrosis; Lung (Mak, J.C.W. (436) 165)

Genetics

Depressive disorder; Pharmacogenetics; Bipolar mood disorder (Serretti, A. (438) 117)

Genistein

Estradiol-17 β ; SHR (Spontaneously hypertensive rat); Renal artery; Tyrosine phosphorylation (Nevala, R. (452) 87)

Thrombosis; Soy; Isoflavone; Platelet aggregation (Kondo, K. (455) 53)

Gentamicin

Melanin; Collagen; Prolidase; Fibroblast (Wrześniok, D. (446) 7)

Superoxide anion; Superoxide dismutase mimetic; Compound M40403 (Cuzzocrea, S. (450) 67)

GHB (gamma-hydroxybutyrate) binding site

RS-NCS-382; R-NCS-382; S-NCS-382; Baclofen; GABA_B receptor (Caselli, M.P. (446) 1)

GH4C1 cell

Nicotinic acetylcholine receptor; $\alpha 7$ Subunit; Perforated patch-clamp; PC12 cell; Recombinant expression (Virginio, C. (445) 153)

Ghrelin

Growth hormone secretagogue; Pituitary hormone; Food intake, control of; Metabolic fuel; Obesity (Muccioli, G. (440) 235)

Hexarelin; Secretagogue; GHRH (growth hormone-releasing hormone); Cardiac performance; Coronary artery disease (Broglia, F. (448) 193)

Intracerebroventricular injection; Neonatal (chick); Feeding (Saito, E.-s. (453) 75)

Amylin; Hypothalamus; Dopamine; Norepinephrine; 5-HT (5-hydroxytryptamine, serotonin) (Brunetti, L. (454) 189)

GHRH (growth hormone-releasing hormone)

Hexarelin; Secretagogue; Ghrelin; Cardiac performance; Coronary artery disease (Broglia, F. (448) 193)

Gingival circulation

Laser-Doppler flowmetry; Ultrasonic flowmetry; α -Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Lingual artery; Phentolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Ginseng

Ginsenoside; Antinociception; Patch-clamp; Ca²⁺ channel current; Pertussis toxin; Sensory neurons (Rhim, H. (436) 151)

Ginsenoside; Nicotinic acetylcholine receptor channel; *Xenopus* oocyte (Choi, S. (442) 37)

Ginsenoside

Ginseng; Antinociception; Patch-clamp; Ca²⁺ channel current; Pertussis toxin; Sensory neurons (Rhim, H. (436) 151)

Ginseng; Nicotinic acetylcholine receptor channel; *Xenopus* oocyte (Choi, S. (442) 37)

Glia

Ca²⁺; ATP; Purinoreceptor; Astrocyte; Oligodendrocyte; Microglia; Axon; Signalling (James, G. (447) 247)

Glial

5-Hydroxytryptamine; Calcium; IP₃; Glutamate (Meller, R. (445) 13)

Glial cell

Epilepsy; Hippocampus; Ion channel; Glutamate receptor (Steinhäuser, C. (447) 227)

Glibenclamide

³¹Phosphorus magnetic resonance spectroscopy; Heart, isolated, working; Ischemia; Metabolism; Diabetes, type 2; K_{ATP} channel (Legtenberg, R.J. (434) 35)

Gastric acid secretion; Clonidine; Oxymetazoline; β -endorphin (Müllner, K. (435) 225)

Diclofenac; Apamin; Charybdotoxin; Pinacidil; Morphine (Ortiz, M.I. (438) 85)

Bosentan; Pregnane X receptor; Cytochrome P450 enzyme induction (van Giersbergen, P.L.M. (450) 115)

S 21403; Repaglinide; Pancreas, isolated, rat; Insulin release; Glucagon release (Gregorio, F. (456) 141)

Glomerulonephritis

KF24345; Adenosine (Noji, T. (449) 293)

Glomerulosclerosis

cAMP; Mechanical stretch; MAP (mitogen-activated protein) kinase; AP-1 (activator protein-1); Fibronectin (Nishio, T. (437) 113)

GLP-1 (glucagon-like peptide 1)

Obesity; Satiety; Food intake (Meier, J.J. (440) 269)

GLP-1 (glucagon-like peptide-1) derivative

Diabetes type 2; Glucose tolerance; Insulin sensitivity; Gastric emptying; Glucagon (Ribel, U. (451) 217)

Glucagon

GLP-1 (glucagon-like peptide-1) derivative; Diabetes type 2; Glucose tolerance; Insulin sensitivity; Gastric emptying (Ribel, U. (451) 217)

Glucagon release

S 21403; Repaglinide; Glibenclamide; Pancreas, isolated, rat; Insulin release (Gregorio, F. (456) 141)

Glucocorticoid

Endothelin ET_B receptor; Cyclooxygenase; Interleukin-1 β ; NSAID (nonsteroidal anti-inflammatory drug); Rofecoxib (White, L.R. (448) 51)

Glucocorticoid receptor

Tree shrew; Stress; Behavior; Corticosteroid; 5-HT_{1A} receptor (Van Kampen, M. (457) 207)

Gluconeogenesis

Adenosine receptor; Adenosine receptor antagonist; Ca²⁺; cAMP; Glycogenolysis (González-Benítez, E. (437) 105)

Glucoregulation

Choline; Hyperglycemia; Sympatho-adrenal activity; Cholinergic activity, rat (Gürtin, M.S. (438) 197)

Glucose

Dopamine; Feeding; Insulin; Lateral hypothalamus; Leptin; Obesity (Baptista, T. (447) 91)

Aortic slice, rat; Kynurenic acid; Endothelium; Excitatory amino acid receptor; Oxygen (Stažka, J. (448) 133)

Glucose, blood

KU14R; Efaroxan; Imidazoline; α_2 -Adrenoceptor; Insulin (Mayer, G. (454) (454))

Glucose metabolism

ACRP30 (adipocyte complement-related protein of 30 kDa); AdipoQ; Adiponectin; Obesity; Diabetes; Insulin resistance; Lipid metabolism (Tsao, T.-S. (440) 213)

Glucose phosphorylation

Anesthesia; Barbiturate; Cytoprotection; Glutamate; Oxidative metabolism (Peng, L. (446) 53)

Glucose sensitivity

Nateglinide; Pancreatic β -cell, rat; K_{ATP} channel; Metabolic inhibition (Hu, S. (442) 163)

Glucose tolerance

GLP-1 (glucagon-like peptide-1) derivative; Diabetes type 2; Insulin sensitivity; Gastric emptying; Glucagon (Ribel, U. (451) 217)

Glutamate

Asthma; Trachea (Coşkun, U. (437) 97)

Nociception; Capsaicin; Periaqueductal grey (Palazzo, E. (439) 69)

[³H](+)-MK-801; Nucleus accumbens; Cortex, prefrontal (Quadros, I.M.H. (442) 55)

Ethanol; Taurine; Microdialysis; Alcohol sensitivity, high; Alcohol sensitivity, low (Quertemont, E. (444) 143)

5-Hydroxytryptamine; Glial; Calcium; IP₃ (Meller, R. (445) 13)

Anesthesia; Barbiturate; Cytoprotection; Glucose phosphorylation; Oxidative metabolism (Peng, L. (446) 53)

Ca²⁺; Mitochondrion; Apoptosis; Necrosis; Motor neuron disease; Alzheimer's disease (Krieger, C. (447) 177)

Transporter; Receptor; Cell death; Oligodendrocyte; Demyelination (Mature, C. (447) 239)

Kynurenic; Quinolinic acid; Kynurenic acid; Neuroprotection; Neurodegeneration (Stone, T.W. (447) 285)

Heme oxygenase; Guanylate cyclase; cGMP; Null-mutant; Metalloporphyrin (Li, X. (450) 43)

Chemical ischemia; Neurotoxicity; σ Receptor ligand; Cortical culture (Kume, T. (455) 91)

Glutamate receptor

Affective disorder; Cognition; Nootropic (Knapp, R.J. (440) 27)

Epilepsy; Glial cell; Hippocampus; Ion channel (Steinhäuser, C. (447) 227)

Glutamate receptor, Metabotropic

Carbon monoxide; Heme oxygenase; Nucleus tractus solitarii (Lo, W.-C. (454) 39)

Glutamate receptor metabotropic

NAAG (*N*-acetylaspartylglutamate); Neonatal hypoxia-ischemia; cAMP; L-AP4 (L-(+)-2-amino-4-phosphonobutyric acid); *t*-ACPD (*trans*-[1S,3R]-1-Amino-cyclopentane-1,3-dicarboxylic acid) (Cai, Z. (437) 139)

Glutamic acid decarboxylase

Embolism, microsphere; GABA (γ -aminobutyric acid); Spatial memory function (Fukatsu, T. (453) 59)

GLUT1

Acarbose; Intestinal glucose transport; SGLT1; GLUT2; Diabetes mellitus (Paiva, L. (434) 197)

GLUT2

Acarbose; Intestinal glucose transport; SGLT1; GLUT1; Diabetes mellitus (Paiva, L. (434) 197)

GLUT4 trafficking

Zucker rat; Acarbose; Insulin resistance (Ledwig, D. (445) 141)

Glutathione

Apoptosis; Neuroblastoma; Dopamine receptor; Parkinson's disease (Uberti, D. (434) 17)

Blood flow; Mucus; Nicotine; Prostaglandin E₂; Gastric ulcer (Wong, D. (434) 81)

Active efflux; P-glycoprotein; MRP (multidrug resistance-associated protein); Taxol; PSC-833; Verapamil; MDR1 (Crowe, A. (440) 7)

Mesangial cell; Hep G2 cell; Cell death; Nitric Oxide (NO); Superoxide (Sumbayev, V.V. (444) 1)

Gastric fundus; (Mouse); Photorelaxation; Nitric oxide (NO); *S*-nitrosothiol; Thiol modulator (Ögülcü, N. (450) 267)

Cisplatin; Renal toxicity; Radical scavenger; Blood urea nitrogen; Creatinine (Sueishi, K. (451) 203)

Haloperidol; Nicergoline; Metabolite; Reactive oxygen species (Vairetti, M. (453) 69)

Oxidative stress; Blood pressure; Endothelial function (Ganafa, A.A. (454) 217)

Glycemia

Orexin; Fasting; Diabetes; (Mouse) (Tsuneki, H. (448) 245)

Glycine site

Rhynchophylline; Isorhynchophylline; NMDA receptor (Kang, T.-H. (455) 27)

Glycogenolysis

Adenosine receptor; Adenosine receptor antagonist; Ca^{2+} ; cAMP; Glucagonogenesis (González-Benítez, E. (437) 105)

Glycolysis

Cancer; Calmodulin antagonist; Clotrimazole; ATP (Penso, J. (451) 227)

Glycosaminoglycan

Alzheimer's disease; Heparin; Certoparin; Tau (Walzer, M. (445) 211)

Glycosylation end product

Advanced; Cyclooxygenase-2; p38 MAP (mitogen activated protein) kinase; RAW 264.7 cell (Lin, C.-H. (438) 143)

GnRH (gonadotropin-releasing hormone)

GALP (galanin-like peptide); Galanin GAL1 receptor; Galanin gal2 receptor; Leptin; Insulin; POMC (pro-opiomelanocortin); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

Gossypol

Antifertility; Spermatogenic cell, mouse; Whole-cell recording; Ca^{2+} channel, T-type; Cl^- channel (Bai, J. (440) 1)

Colon; Cl^- secretion; Mucus; Tight junction (Kuhn, G. (457) 187)

GPIIb-IIIa antagonist

Disintegrin; Integrilin; Eptifibatide; GR144053F; Polymorphism $\text{PI}^{\text{A1/A2}}$ (platelet-specific antigen) (Rozalski, M. (454) 1)

G protein

Agmatine; Imidazoline; Exocytosis; Mastoparan; Mast cell (Ferry, X. (435) 19)

G-protein

Ca^{2+} channel, voltage-sensitive; Detrusor smooth muscle; Muscarinic receptor; Purinergic receptor; Dihydropyridine (Kajioka, S. (443) 19)

[^{35}S]GTP γ S binding; μ -Opioid receptor; GABA $_{\text{B}}$ receptor; Brain, human; Receptor reserve; Signal transduction (González-Maeso, J. (452) 21)

Prostaglandin; Prostanoid receptor; Bell-shaped curve; Pertussis toxin; Partial agonist (Accomazzo, M.R. (454) 107)

G-protein coupled receptor

Neuropeptide FF; Neuropeptide Y; BIBP3226; BIBO3304; cAMP assay; Neuropeptide Y Y_1 receptor antagonist (Mollereau, C. (451) 245)

G protein-coupled receptor

Erectile dysfunction; Melanocortin; Melanocortin MC_4 receptor (Martin, W.J. (454) 71)

G protein-coupled receptor kinase

Adenylyl cyclase; Cystic fibrosis; Lung; Gene expression (Mak, J.C.W. (436) 165)

G-protein coupling

Opiate withdrawal; Morphine; Opioid receptor; [^{35}S]GTP γ S-binding (Kirschke, C. (446) 43)

G-protein receptor kinase-2

μ -Opioid receptor; Naltrexone; Receptor up-regulation; Constitutive internalization; Dynamin-2 (Patel, M. (446) 37)

GR144053F

GPIIb-IIIa antagonist; Disintegrin; Integrilin; Eptifibatide; Polymorphism $\text{PI}^{\text{A1/A2}}$ (platelet-specific antigen) (Rozalski, M. (454) 1)

Green tea catechin

Antioxidant; Atherosclerosis; Cell proliferation; LDL (low-density lipoprotein); Mitogen-activated kinase; Risk factor; Smooth muscle cell, vascular (Locher, R. (434) 1)

Grooming

Dopamine; Dopamine D1 receptor; SKF 81297; Motor activity; Attention-deficit hyperactivity disorder (Heijtz, R.D. (445) 97)

Growth factor

Osteoblast differentiation; Alkaline phosphatase; Msx2; TAK-778 (Gotoh, M. (451) 19)

Aspirin; *Helicobacter pylori*; Ulcer healing; Gastric secretion; Gastric blood flow; Cyclooxygenase (Konturek, P.C. (451) 191)

Growth hormone

Pharmacokinetic; (Monkey); IGF-1 (insulin-like-growth-factor) (Osborn, B.L. (456) 149)

Growth hormone secretagogue

Ghrelin; Pituitary hormone; Food intake, control of; Metabolic fuel; Obesity (Muccioli, G. (440) 235)

GRP (gastrin-releasing peptide)

Bombesin; GRP receptor; Bombesin BB_1 receptor; Bombesin BB_2 receptor; Bombesin bb_3 receptor; Feeding behavior; Obesity (Yamada, K. (440) 281)

GRP receptor

Bombesin; GRP (gastrin-releasing peptide); Bombesin BB_1 receptor; Bombesin BB_2 receptor; Bombesin bb_3 receptor; Feeding behavior; Obesity (Yamada, K. (440) 281)

GSH precursor

ARPE-19 cell; 4-Hydroxynonenal; Oxidative stress; VEGF (Vascular endothelial growth factor) (AyalaSomayajula, S.P. (449) 213)

GST (glutathione S-transferase)

Leukaemia; Chemotherapy; Survival (Autrup, J.L. (438) 15)

([^{35}S]GTP γ S)

(SRIF) Somatostatin; Somatostatin sst_5 receptor, goldfish; Luciferase; (SRE) Serum responsive element; Receptor trafficking (Nunn, C. (436) 173)

[^{35}S]GTP γ S

δ -Opioid receptor, subtype; Chinese hamster ovary (CHO) cell; Binding; Naltrindole derivative (Parkhill, A.L. (451) 257)

GTP γ ^{35}S binding

Nociceptin/orphanin FQ; [(*p*F)Phe 4]N/OFQ-(1–13)NH $_2$; cAMP formation; Recombinant, NOP receptor; NOP receptor antagonist (McDonald, J. (443) 7)

[³⁵S]GTPγS binding

Opioid receptor; Etorphine derivative; Radioligand binding; Brain, rat (Biyashev, D. (442) 23)

μ-Opioid receptor; G-protein; GABA_B receptor; Brain, human; Receptor reserve; Signal transduction (González-Maeso, J. (452) 21)

[³⁵S]GTPγS-binding

Opiate withdrawal; Morphine; Opioid receptor; G-protein coupling (Kirschke, C. (446) 43)

Guanine nucleotide

Adenosine derivative; Purine; cAMP; Phospholipase C (Gao, Z.-g. (443) 39)

Adenosine A₃ receptor; KF26777 (2-(4-bromophenyl)-7,8-dihydro-4-propyl-1*H*-imidazo[2,1-*i*]purin-5(4*H*)-one dihydrochloride); Binding assay; Ca²⁺ (Saki, M. (444) 133)

Guanylate cyclase

Hypercapnia; Cerebral circulation; Arteriolar diameter; Pialarterioles; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); ODQ; SIN-1 (3-morpholino-sydnonimine) (Rosenblum, W.I. (448) 201)

Heme oxygenase; cGMP; Glutamate; Null-mutant; Metalloporphyrin (Li, X. (450) 43)

Guanylyl cyclase

Nitric oxide (NO); Artemisinin (Severina, I.S. (438) 69)

GW274150

Arthritis, collagen-induced; Nitric oxide (NO) synthase, inducible (Cuz-zocrea, S. (453) 119)

H89

PKC (protein kinase C); Endothelin; Sarafotoxin 6c; Endothelin ET_B receptor; Ro31-7549; Staurosporine; K252a (Uddman, E. (452) 215)

Haloperidol

SH-SY5Y neuroblastoma; σ Receptor; Ca²⁺, intracellular; Muscarine; (+)-Pentazocine (Hong, W. (436) 35)

Neurotensin; Antipsychotic; Conditioned avoidance behaviour; NT69L (Hertel, P. (439) 107)

5-HT_{1A} receptor; 5-HT₄ receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Antidepressant; Buspirone; Clozapine; Imipramine (Zahorodna, A. (443) 51)

Nicergoline; Metabolite; Glutathione; Reactive oxygen species (Vairetti, M. (453) 69)

Halothane

Ca²⁺ channel blocker; Na⁺ channel blocker; Hypoxia; Nitric oxide (NO) synthesis; Cerebral cortex (Oka, M. (452) 175)

Handling

Pharmacokinetic–pharmacodynamic modelling; Hypothermia; Corticosterone; 5-HT_{1A} receptor; Flesinoxan (Zuideveld, K.P. (445) 43)

Harman

Norharman; Neuroprotection; Monoamineoxidase; Parkinson's disease (Rommelspacher, H. (441) 115)

Head shake

DOI; 5-HT_{2A} receptor; 5-HT (5-hydroxytryptamine, serotonin); Stress (Izumi, T. (452) 199)

Heart

Ca²⁺ channel, voltage-gated; Ca_v1.3; L-type Ca²⁺ channel; Embryo, mouse; Dihydropyridine (Klugbauer, N. (447) 279)

Heart, ex vivo

Streptozotocin; Diabetes; Arrhythmia; Hypothyroidism; Ischaemia–reperfusion, rat (Zhang, L. (435) 269)

Heart failure

Phosphodiesterase type 5; Cardiomyopathic hamster; Survival (Inoue, H. (443) 179)

Myocardial infarction; Remodeling; Vasopressin receptor antagonism (Van Kerckhoven, R. (449) 135)

β-Adrenoceptor; Autonomic nervous system; Contractility; Fibrosis (Brouri, F. (456) 69)

Heart, guinea-pig, isolated

Endothelial dysfunction; Neutrophil adhesion; Endothelium glycocalyx; Reperfusion injury; Oxygen free radical (Kurzelewski, M. (434) 95)

Heart, isolated

Amiodarone; Dronedarone; Thyroid hormone; Ischemia; rat (Pantos, C. (444) 191)

Heart, isolated, working

³¹Phosphorus magnetic resonance spectroscopy; Ischemia; Metabolism; Diabetes, type 2; Glibenclamide; K_{ATP} channel (Legtenberg, R.J. (434) 35)

Heart, rabbit

Risperidone; Action potential; Transient outward current; Delayed rectifier current; Inward rectifier current (Gluais, P. (444) 123)

Heart rate

Aging; Angiotensin; Blood pressure; Ketanserin; Reflex bradycardia; Urapidil (Buñag, R.D. (435) 85)

Heat hyperalgesia

Spinal nociception; Formalin test; Inflammation; Spinal microdialysis; Nitric oxide (Gühring, H. (454) 153)

Heat shock protein

Bimocloamol; Cardiomyocyte; Cytoprotection (Polakowski, J.S. (435) 73)

Catecholamine-regulated protein; D-Amphetamine; Desensitization, behavioural sensitization; Dopamine; Molecular chaperone (Gabriele, J. (453) 13)

Heat shock protein 70

Ischemia; Reperfusion; Infarct size (Lubbers, N.L. (435) 79)

HEK-293 cell

Melatonin MT₂ receptor, human; Melatonin MT₁ receptor, human; Cysteine; Site-directed mutagenesis; Thiol agents (Mseeh, F. (449) 29)

Helicobacter pylori

Aspirin; Ulcer healing; Gastric secretion; Gastric blood flow; Cyclooxygenase; Growth factor (Konturek, P.C. (451) 191)

Aspirin; Nonsteroidal anti-inflammatory drug; Peptic ulcer (Pawlik, T. (449) 1)

Hematopoietic stem cell

Amifostine; CD34 antigen; Colony-forming units assay; Thrombopoietin; X-ray (Kashiwakura, I. (437) 19)

Heme oxygenase

Guanylate cyclase; cGMP; Glutamate; Null-mutant; Metalloporphyrin (Li, X. (450) 43)

Carbon monoxide; Glutamate receptor, Metabotropic; Nucleus tractus solitarius (Lo, W.-C. (454) 39)

Heme oxygenase-2

Biliverdin reductase; Bile pigment; Carbon monoxide; Nitrogenic relaxation; Gastric fundus, pig (Colpaert, E.E. (457) 177)

Hemodynamics, renal

rGLP-1 (glucagon-like peptide-1-(7-36)amide), recombinant; Kidney; Proximal tubule (Moreno, C. (434) 163)

Hemoglobin

Magnesium; Alcohol; Cerebral microcirculation; Cytochrome oxidase; Stroke; Optical spectroscopy (Barbour, R.L. (447) 79)

Hemorrhagic shock

Cannabinoid; Cannabinoid CB₁ receptor antagonist; Melanocortin; (Rat) (Cainazzo, M.M. (441) 91)

Heparin

Alzheimer's disease; Certoparin; Tau; Glycosaminoglycan (Walzer, M. (445) 211)

Hepatobiliary

Endothelin; Eicosanoid; Prostanoid; Oddi sphincter; Common bile duct; Choledochoduodenal junction (Koepp, J. (435) 103)

Hepatoprotection

EGCG ((-)-epigallocatechin-3-gallate); Cell death cytotoxin-induced; Caspase (Kagaya, N. (450) 231)

Hep G2 cell

Mesangial cell; Cell death; Nitric Oxide (NO); Superoxide; Glutathione (Sumbayev, V.V. (444) 1)

HERG channel

Antipsychotic; Arrhythmia; QT prolongation; K⁺ channel (Kongsamut, S. (450) 37)

HERG (ether-a-go-go related gene)

Voltage-clamp; Flufenamic acid; Niflumic acid; Q-T syndrome, long (Malykhina, A.P. (452) 269)

Heroin

μ-Opioid receptor; Knockout mice; Place conditioning; Locomotor activity (Contarino, A. (446) 103)

Diacetylmorphine degradation; Morphine; 6-Monoacetylmorphine; Tissue culture (Hutchinson, M.R. (453) 27)

Heteroreceptor

5-HT_{1A} receptor mutant mouse; Autoreceptor; Cortex, frontal; Hippocampus; Raphe (Richer, M. (435) 195)

Heteroyohimbine-type oxindole alkaloid

Pteropodine; Isopteropodine; Muscarinic M₁ receptor; 5-HT₂ receptor; *Xenopus* oocyte (Kang, T.-H. (444) 39)

Hexarelin

Secretagogue; Ghrelin; GHRH (growth hormone-releasing hormone); Cardiac performance; Coronary artery disease (Broglio, F. (448) 193)

High-density lipoprotein

Single-nucleotide polymorphism; Coronary heart disease; Chinese population study; Dyslipidemia; Lipoprotein lipase gene; Triglyceride (Su, Z.G. (454) 9)

High-energy phosphate

Ischemia/reperfusion injury; K_{ATP} channel opener; Mitochondrion; Mitochondrial K_{ATP} channel; Nicorandil (Iwai, T. (446) 117)

Hippocampal CA1 sector

Nimesulide; Cerebral ischemia; Delayed neuronal death; Neuroprotection; Neurodegeneration (Candelario-Jalil, E. (453) 189)

Hippocampal neuron

β-Adrenoceptor; Astrocyte; Clenbuterol; Cerebral ischemia; Middle cerebral artery occlusion (Junker, V. (446) 25)

Hippocampus

5-HT_{1A} receptor mutant mouse; Autoreceptor; Heteroreceptor; Cortex, frontal; Raphe (Richer, M. (435) 195)

5-HT (5-hydroxytryptamine, serotonin); Venlafaxine; Antidepressant; Hypothalamus; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Gur, E. (436) 57)

Cyclic nucleotide; Phosphodiesterase; Cognition (Prickaerts, J. (436) 83)

5-HT_{1B} autoreceptor; Microdialysis; Knockout mouse; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (De Groote, L. (439) 93)

WIN55,212-2; Cannabinoid; Temperature; GABA (γ-aminobutyric acid), uptake (Al-Hayani, A. (442) 47)

Δ⁹-Tetrahydrocannabinol; 5-HT (5-hydroxytryptamine, serotonin); Spatial memory; DOI (Egashira, N. (445) 221)

Epilepsy; Glial cell; Ion channel; Glutamate receptor (Steinhäuser, C. (447) 227)

Morphine; Conditioned place preference; CA1; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); (Rat) (Karami, M. (449) 113)

Striatum; Quinolinic acid; Adenosine A_{2A} receptor; Neuroprotection (Tebano, M.T. (450) 253)

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1A} receptor; Phosphorylation; Erk1/2; MAP (mitogen-activated protein) kinase; Immunoblotting (Chen, J. (452) 155)

Adenosine; A_{2A} receptor; Acetylcholine release; Nerve terminal; Synaptosome (Rebola, N. (454) 31)

β-Amyloid; Alzheimer's disease; MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide); Akt; Long-term potentiation; RS-0466 (Nakagami, Y. (457) 11)

CA1 area; Nitric oxide (NO); Learning; Long-term potentiation; (Rat) (Hölscher, C. (457) 99)

Histamine

Pain; Inflammation; Histamine H₁ receptor; Spinal cord (Olsen, U.B. (435) 43)

Bronchus; Ovalbumin; Leukotriene D₄; Schultz–Dale reaction; Arachidonic acid (Seow, C.-J. (443) 189)

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Mast cell; Terfenadine; Ranitidine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

Scratching behavior; Compound 48/80; 5-HT (5-hydroxytryptamine, serotonin); Mast cell; MicroAct (Inagaki, N. (448) 175)

Adenosine; Bronchoconstriction; Leukotriene; Cyclooxygenase product (Martin, T.J. (451) 89)

2-Cl-IB-MECA; Pyrilamine; Adenosine receptor; Cytokine modulation (Smith, S.R. (457) 57)

Histamine H₁ receptor

Tachykinin NK₁ receptor; NMDA receptor; Nitric oxide (NO); Hyperalgesia (Sakurada, S. (434) 29)

Pain; Inflammation; Histamine; Spinal cord (Olsen, U.B. (435) 43)

Allergic conjunctivitis; Eosinophil peroxidase activity; Late-phase reaction; P-selectin (Izushi, K. (440) 79)

Nasal allergic sign; Thromboxane A₂; Leukotriene (Kayasuga, R. (449) 287)

Histamine H₁ receptor, human

Desloratadine (Anthes, J.C. (449) 229)

Histamine H₃ receptor

Histidine decarboxylase; Betahistine dihydrochloride; In situ hybridization; Radioautography; Vestibular nuclei; Tuberomammillary nuclei (Tighilet, B. (446) 63)

Nasal mucosa; Porcine; Sympathetic; Thioperamide (Varty, L.M. (452) 339)

¹²⁵Iodoproxyfan; cAMP; Inverse agonism (Wulff, B.S. (453) 33)

Histamine N-methyltransferase

Diamine oxidase (histaminase); mRNA; Expression pattern; Histaminergic signal transmission; Peripheral tissues (Kitanaka, J. (437) 179)

Histamine release

Somatostatin; Gastric acid secretion; Gastric parietal cell; Enterochromaffin-like cell; Muscarinic acetylcholine receptor agonist; Stomach, isolated, mouse (Komasaka, M. (452) 235)

Histamine secretion

Thiazolidinedione; PPAR (Peroxisome proliferator-activated receptor); KU812 cell; Cell growth (Abe, A. (436) 7)

Histaminergic agent

Retention; Passive avoidance; Opioid; (Rat) (Zarrindast, M.-R. (452) 193)

Passive avoidance learning; α -Adrenoceptor agent; (Rat) (Zarrindast, M.-R. (454) 193)

Histaminergic signal transmission

Diamine oxidase (histaminase); Histamine N-methyltransferase; mRNA; Expression pattern; Peripheral tissues (Kitanaka, J. (437) 179)

Histidine decarboxylase

Histamine H₃ receptor; Betahistine dihydrochloride; In situ hybridization; Radioautography; Vestibular nuclei; Tuberomammillary nuclei (Tighilet, B. (446) 63)

Histone deacetylase

DNA methylation; Cerebellar granule neuron (Manev, H. (445) 149)

HL-60

Cyclophosphamide; CYP1B1; RT-PCR (reverse transcriptase–polymerase chain reaction); PCR (polymerase chain reaction), real-time; β -Actin; Cytotoxicity; Multidrug resistance (Xie, H.-J. (449) 197)

HMG-CoA reductase inhibitor

Oct-1; Nuclear factor; Atherosclerosis (Ortego, M. (448) 113)

Cardiac hypertrophy; Endothelin; Rho protein; Myocyte (Nishikimi, T. (453) 175)

H₂O₂

Diabetes; Contraction; Catalase; Nitric oxide (NO); Streptozotocin (Kobayashi, T. (441) 83)

Homotaurine

Microdialysis; Nucleus accumbens; Dopamine; Acamprosate; Ethanol (Olive, M.F. (437) 55)

Hot plate

Formalin test; Tail immersion; Morphine; Nociception; Buprenorphine (Gilbert, A.-K. (449) 75)

HPLC (High performance liquid chromatography)

Morphine; Cocaine; Dopamine; Conditioned place preference; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective; Radioligand binding (Deslandes, P.N. (453) 223)

Helicobacter pylori

Aspirin; Nonsteroidal anti-inflammatory drug; Peptic ulcer (Pawlik, T. (449) 1)

HSP27

Methamphetamine; [³H]GBR 12935; Benzodiazepine receptor, peripheral-type; Carnosine; [³H]Paroxetine (Pubill, D. (448) 165)

5-HT_{1A} receptor

5-HT (5-hydroxytryptamine, serotonin); Venlafaxine; Antidepressant; Hippocampus; Hypothalamus; 5-HT_{1B} receptor; Microdialysis (Gur, E. (436) 57)

Antidepressant; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis; 5-HT (5-hydroxytryptamine, serotonin) transporter; Learned helplessness test (Tordera, R.M. (442) 63)

5-HT₄ receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Antidepressant; Buspirone; Clozapine; Imipramine; Haloperidol (Zahorodna, A. (443) 51)

Pharmacokinetic–pharmacodynamic modelling; Hypothermia; Corticosterone; Flesinoxan; Handling (Zuideveld, K.P. (445) 43)

5-HT (5-hydroxytryptamine, serotonin); Hippocampus; Phosphorylation; Erk1/2; MAP (mitogen-activated protein) kinase; Immunoblotting (Chen, J. (452) 155)

Schizophrenia; Extrapyramidal side-effect; Catalepsy; Neuroleptic; Antipsychotic; Dopamine D2 receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

c-fos; Antidepressant; Citalopram; WAY 100635; Hypothalamic–pituitary–adrenal axis (Jongsma, M.E. (455) 109)

Nerve injury, infraorbital; Allodynia, mechanical; F 13640; Baclofen; Morphine (Deseure, K. (456) 51)

5-HT (5-hydroxytryptamine, serotonin); Triiodothyronine; Antidepressant; 5-HT_{1B} receptor (Gur, E. (457) 37)

Tree shrew; Stress; Behavior; Corticosteroid; Glucocorticoid receptor (Van Kampen, M. (457) 207)

5-HT₂ receptor

DOI; Renal hemodynamics; Nitric oxide (NO); Sarpogrelate; Microdialysis (Tian, R.-X. (437) 79)

Pteropodine; Isopteropodine; Heteroyohimbine-type oxindole alkaloid; Muscarinic M₁ receptor; *Xenopus* oocyte (Kang, T.-H. (444) 39)

Cocaine; Sensitization; Withdrawal; Locomotion; Behavioral rating (Davidson, C. (453) 255)

5-HT_{2A} receptor

Cocaine; DOI; Ketanserin; Methamphetamine; Drug discrimination, (Rat) (Munzar, P. (436) 75)

DOI; Head shake; 5-HT (5-hydroxytryptamine, serotonin); Stress (Izumi, T. (452) 199)

FR143166; Antinociception; Descending serotonergic system; 5-HT₃ receptor; Spinal cord (Ochi, T. (452) 319)

Cyamemazine; Serotonin; Neuroleptic; Atypical neuroleptic (Alvarez-Guerra, M. (454) 235)

5-HT_{1A} receptor knockout mice

GABA_A-benzodiazepine receptor; (In vivo); Pentylenetetrazol; Positive righting reflex; Stress-induced hyperthermia (Pattij, T. (447) 67)

5-HT_{1A} receptor mutant mouse

Autoreceptor; Heteroreceptor; Cortex, frontal; Hippocampus; Raphe (Richer, M. (435) 195)

5-HT_{1B} autoreceptor

Hippocampus; Microdialysis; Knockout mouse; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (De Groote, L. (439) 93)

5-HT_{1B} receptor

5-HT (5-hydroxytryptamine, serotonin); Venlafaxine; Antidepressant; Hippocampus; Hypothalamus; 5-HT_{1A} receptor; Microdialysis (Gur, E. (436) 57)

5-HT (5-hydroxytryptamine, serotonin); Triiodothyronine; Antidepressant; 5-HT_{1A} receptor (Gur, E. (457) 37)

5-HT_{1F} receptor

Cloning; 5-HT (5-hydroxytryptamine, serotonin); Ligand binding; Migraine, (Pig); Sequencing; Trigeminal ganglion (Bhalla, P. (436) 23)

5-HT_{2A} receptor antagonist

5-HT (5-hydroxytryptamine, serotonin); R-102444; R-96544 (Ogawa, T. (457) 107)

5-HT (5-hydroxytryptamine, serotonin)

5-HT_{1F} receptor; Cloning; Ligand binding; Migraine, (Pig); Sequencing; Trigeminal ganglion (Bhalla, P. (436) 23)

Nitric oxide (NO) synthase; Neuromodulation (Linden, D.R. (436) 53)

Venlafaxine; Antidepressant; Hippocampus; Hypothalamus; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Gur, E. (436) 57)

Vagus; Raphe nucleus; Brain stem; Autonomic nervous system (Varanasi, S. (436) 67)

5-HT₇ receptor; Migraine pathogenesis; Prophylactic drug (Terrón, J.A. (439) 1)

Endothelium; Diabetes; Nitric oxide (NO); Cyclooxygenase; Renal artery, rabbit (Miranda, F.J. (439) 121)

Inflammation; Catecholamine; Reactive oxygen species; Peripheral resistance; Indole-2,3-dione (Tozawa, Y. (440) 37)

Antidepressant; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin) transporter; 5-HT_{1A} receptor; Learned helplessness test (Tordera, R.M. (442) 63)

4-MTA (4-methylthioamphetamine); 4-MTMA (4-methylthiomethamphetamine); MDMA (3,4-methylenedioxymethamphetamine); Reuptake; Synaptosome; Aortic contraction (Murphy, J.E.J. (444) 61)

Glial; Calcium; IP₃; Glutamate (Meller, R. (445) 13)

Locus coeruleus; Dorsal raphe nucleus; Noradrenaline; Microdialysis (Pudovkina, O.L. (445) 37)

Microdialysis; Anti-obesity agent; Serotonin uptake inhibitor; Amphetamine; Fenfluramine (Tao, R. (445) 69)

Formalin test; Tramadol; Norepinephrine; Opioid (Oliva, P. (445) 179)

Δ⁹-Tetrahydrocannabinol; Hippocampus; Spatial memory; DOI (Egashira, N. (445) 221)

MDMA (3,4-methylenedioxymethamphetamine); Ecstasy; Anxiety; (Rat); Neurotoxicity (Gurtman, C.G. (446) 89)

Ovarin uterine segment; Cervical uterine segment; Prostaglandin F_{2α}; Oxytocin; Uterine contractility (Oropeza, M.V. (446) 159)

Adolescence; MDMA (3,4-methylenedioxymethamphetamine); Behaviour; Long-term effect; (Mouse) (Morley-Fletcher, S. (448) 31)

Scratching behavior; (Mouse); Compound 48/80; Histamine; Mast cell; MicroAct (Inagaki, N. (448) 175)

5-HT₇ receptor; Body temperature; Plasma glucose; Dopamine D₂ receptor; 5-HT₇ receptor antagonist (Kogan, H.A. (449) 105)

Dorsal raphe nucleus ; Nicotine; GABA (γ-Aminobutyric acid) (Mihailescu, S. (452) 77)

Hippocampus; 5-HT_{1A} receptor; Phosphorylation; Erk1/2; MAP (mitogen-activated protein) kinase; Immunoblotting (Chen, J. (452) 155)

DOI; 5-HT_{2A} receptor; Head shake; Stress (Izumi, T. (452) 199)

MDMA; *p*-Chlorophenylalanine; Serotonin transporter; Neuroadaptation (Boot, B.P. (453) 239)

Amylin; Ghrelin; Hypothalamus; Dopamine; Norepinephrine (Brunetti, L. (454) 189)

Cyamemazine; 5-HT_{2A} receptor; Neuroleptic; Atypical neuroleptic (Alvarez-Guerra, M. (454) 235)

Animal model; Depression, endogenous; REM (rapid eye movement) sleep; Mianserin; mCPP (Mavanji, V. (455) 35)

Triiodothyronine; Antidepressant; 5-HT_{1A} receptor; 5-HT_{1B} receptor (Gur, E. (457) 37)

5-HT_{2A} receptor antagonist; R-102444; R-96544 (Ogawa, T. (457) 107)

Ethanol; MK-801; Dopamine; NMDA receptor; Locomotor activity (Hanania, T. (457) 125)

5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective
5-HT_{1B} autoreceptor; Hippocampus; Microdialysis; Knockout mouse (De Groote, L. (439) 93)

Microdialysis, intracerebral; Knock-out mouse; Fluoxetine (Malagie, I. (443) 99)

Morphine; Cocaine; Dopamine; Conditioned place preference; HPLC (High performance liquid chromatography); Radioligand binding (Deslandes, P.N. (453) 223)

5-HT (5-hydroxytryptamine, serotonin) re-uptake inhibitor, selective
Antidepressant; Cell proliferation; Fluvoxamine; Photoisomerization; 5-HT (5-hydroxytryptamine, serotonin) uptake (Miolo, G. (450) 223)

5-HT (5-hydroxytryptamine, serotonin) transporter
Antidepressant; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis; 5-HT_{1A} receptor; Learned helplessness test (Tordera, R.M. (442) 63)

5-HT (5-hydroxytryptamine, serotonin) uptake
Antidepressant; Cell proliferation; Fluvoxamine; Photoisomerization; 5-HT (5-hydroxytryptamine, serotonin) re-uptake inhibitor, selective (Miolo, G. (450) 223)

5-HT₃ receptor
Paracetamol; Tropisetron; Spinal cord; Inflammation; (Rat) (Alloui, A. (443) 71)

Cocaine; Tropisetron; LY 278,584; Sensitization; Tolerance; (Rat) (King, G.R. (449) 253)

α7 Nicotinic receptor; Cross-reactivity; Spiroazabicyclic (Broad, L.M. (452) 137)

FR143166; Antinociception; Descending serotonergic system; 5-HT_{2A} receptor; Spinal cord (Ochi, T. (452) 319)

5-HT₄ receptor
Gastric emptying; KDR-5169; Dopamine D2 receptor (Tazawa, S. (434) 169)

5-HT_{1A} receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Antidepressant; Buspirone; Clozapine; Imipramine; Haloperidol (Zahorodna, A. (443) 51)

5-HT₇ receptor
5-HT (5-hydroxytryptamine, serotonin); Body temperature; Plasma glucose; Dopamine D2 receptor; 5-HT₇ receptor antagonist (Kogan, H.A. (449) 105)

Migraine pathogenesis; Prophylactic drug; 5-HT (5-hydroxytryptamine, serotonin) (Terrón, J.A. (439) 1)

5-HT receptor agonist
EEG (electroencephalogram); Neocortex; Acetylcholinesterase inhibitor; Monoamine oxidase inhibitor; Scopolamine; Forebrain basal; (Rat) (Dringenberg, H.C. (447) 43)

5-HT₇ receptor antagonist
5-HT₇ receptor; 5-HT (5-hydroxytryptamine, serotonin); Body temperature; Plasma glucose; Dopamine D2 receptor (Kogan, H.A. (449) 105)

Human pharmacology
Coronary artery; Donitriptan; Middle meningeal artery; Migraine; Sumatriptan (van den Broek, R.W.M. (443) 125)

Human volunteer
Azithromycin; Neutrophil; Degranulation; Oxidative burst; Cytokine (Čulić, O. (450) 277)

Huperzine A
Acetylcholinesterase isoform; Tacrine; Donepezil; Rivastigmine; Physostigmine; Alzheimer's disease; (Rat) (Zhao, Q. (455) 101)

Hyaluronan
Mystixin; Hyaluronic acid; Edema; Inflammation (Stair, S. (450) 291)

Hyaluronic acid
Mystixin; Hyaluronan; Edema; Inflammation (Stair, S. (450) 291)

Hydrogen peroxide
Ischemia-reperfusion; Monoamine oxidase; Kidney; Pargyline (Kunduzova, O.R. (448) 225)

6-Hydroxydopamine
Adenosine receptor antagonist; Hypertension; Angiotensin converting enzyme inhibition; Trophic effect (Sousa, T. (441) 99)

6-Hydroxydopamine-lesion
Adenosine, extracellular level; Microdialysis; Adenosine A_{2A} receptor mRNA; Striatum (Pinna, A. (446) 75)

Hydroxyl radical
Antioxidant; Peroxynitrite; Lipid peroxidation; Uracil derivative (Goto, Y. (438) 189)

Hydroxymethyl glutaryl-CoA reductase
Avasimibe; Atorvastatin; Acyl-CoA cholesterol acyltransferase; Macrophage; Cholesteryl ester (Llaverias, G. (451) 11)

3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor
Pitavastatin; Model of postprandial lipemia; Lymph chylomicron; Microsomal triglyceride transfer protein (Aoki, T. (444) 107)

4-Hydroxynonenal
ARPE-19 cell; GSH precursor; Oxidative stress; VEGF (Vascular endothelial growth factor) (Ayalasomayajula, S.P. (449) 213)

Hyperalgesia
Histamine H₁ receptor; Tachykinin NK₁ receptor; NMDA receptor; Nitric oxide (NO) (Sakurada, S. (434) 29)

Formalin test; Inflammation; Ion channels; Neuropathic pain (Blackburn-Munro, G. (445) 231)

Freund's adjuvant; LY382884; NS-102; NBQX; Q/R editing; (Rat); Kainate receptor (Guo, W. (452) 309)

Insulin-dependent diabetes mellitus; Kinin; Bradykinin B₁ receptor; Des-Arg⁹-bradykinin; Bradykinin B₁ receptor antagonist; R-715; R-954 (Gabra, B.H. (457) 115)

Hypercapnia

Cerebral circulation; Arteriolar diameter; Pial arterioles; Guanylate cyclase; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); ODQ; SIN-1 (3-morpholinomethyl-5-nitro-1H-imidazole-4-carboxylate) (Rosenblum, W.I. (448) 201)

Hyperglycemia

Choline; Glucoregulation; Sympatho-adrenal activity; Cholinergic activity, rat (Gürün, M.S. (438) 197)

Microcirculation; Streptozotocin; Acetylcholine; Sodium nitroprusside; Nitric oxide; Diabetes mellitus (van Dam, B. (455) 43)

Hyperinsulinemia

Angiotensin AT₁ receptor; Angiotensin-converting enzyme inhibitor; Obesity; Metabolic syndrome; (Mouse) (Ortlepp, J.R. (436) 145)

Hyperlocomotion

Dopamine; Norepinephrine; α_1 -Adrenoceptor; Cocaine; Prazosin; Hypophagia; (Rat) (Wellman, P. (455) 117)

Hyperplastic prostate, human

α_1 -Adrenoceptor antagonist; α_1 -Adrenoceptor subtype (Chueh, S.-C. (445) 125)

Hyperreactivity

Smoke; Nasal irritation; Tachykinin; Cholinergic reflex (Ho, C.-Y. (436) 127)

Silymarin; Asthma (Breschi, M.C. (437) 91)

Hypertension

Cerebral artery; Nitric oxide (NO); K⁺ channel; Y-27632; Rho-associated kinase (Kitayama, J. (438) 153)

Adenosine receptor antagonist; 6-Hydroxydopamine; Angiotensin converting enzyme inhibition; Trophic effect (Sousa, T. (441) 99)

Cerebral edema; Dihydropyridine Ca²⁺ channel antagonist; Magnetic resonance imaging; Hypertensive encephalopathy; (Rat) (Blezer, E.L.A. (444) 75)

Endothelial dysfunction; NO (Nitric oxide); Angiotensin-converting enzyme inhibitor (De Gennaro Colonna, V. (450) 61)

Endothelin-1, big; Endothelin ET_B receptor; Diuresis; Nitric oxide (NO) (Konishi, F. (451) 177)

Adenosine receptors blockade; Angiotensin II; Vascular reactivity (Morato, M. (455) 135)

Hypertensive encephalopathy

Cerebral edema; Dihydropyridine Ca²⁺ channel antagonist; Magnetic resonance imaging; Hypertension; (Rat) (Blezer, E.L.A. (444) 75)

Hyperthermia

Methamphetamine; Aging; Tolerance; Striatum; Dopamine transporter (Riddle, E.L. (435) 181)

Circulatory failure; Nitric oxide (NO) synthase (Sachidhanandam, S.B. (450) 163)

Hypertrophy

Neuropeptide Y; (Rat); Cardiomyocyte; Protein turnover; Receptor subtype; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); Skeletal- α -actin; MHC- β (myosin heavy chain- β) (Nicholl, S.M. (441) 23)

Hypnotic

Zaleplon; Nonbenzodiazepine; ω_1 receptor; Binding assay; EEG (electroencephalogram) (Noguchi, H. (434) 21)

Hypocretin

Orexin; SB-334867; Feeding; Narcolepsy; Sleep–wake cycle (Smart, D. (440) 199)

Hypophagia

Dopamine; Norepinephrine; α_1 -Adrenoceptor; Cocaine; Prazosin; Hyperlocomotion; (Rat) (Wellman, P. (455) 117)

Hypotension

Iso-S-Petasin; Vascular smooth muscle cell; L-type Ca²⁺ channel; Intracellular Ca²⁺ concentration (Wang, G.-J. (445) 239)
NAN-190; Rat, anaesthetized; Rat, pithed; α_1 -Adrenoceptor, vascular (Villalobos-Molina, R. (455) 59)

Hypothalamic–pituitary–adrenal axis

c-fos; Antidepressant; Citalopram; 5-HT_{1A} receptor; WAY 100635 (Jongsma, M.E. (455) 109)

Hypothalamus

5-HT (5-hydroxytryptamine, serotonin); Venlafaxine; Antidepressant; Hippocampus; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Gur, E. (436) 57)

Adipostat; Leptin; Obesity; Appetite; Satiety (Larsen, P.J. (440) 159)

GALP (galanin-like peptide); Galanin GAL1 receptor; Galanin gal2 receptor; Leptin; Insulin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Reproduction (Gundlach, A.L. (440) 255)

Amylin; Ghrelin; Dopamine; Norepinephrine; 5-HT (5-hydroxytryptamine, serotonin) (Brunetti, L. (454) 189)

Hypothalamus–pituitary–adrenocortical axis

Morphine withdrawal; PKA (protein kinase A); PKC (protein kinase C); Corticosterone; Noradrenaline turnover; Dopamine turnover (Cerezo, M. (452) 57)

Hypothermia

Pharmacokinetic–pharmacodynamic modelling; Corticosterone; 5-HT_{1A} receptor; Flesinoxan; Handling (Zuideveld, K.P. (445) 43)

Lipopolysaccharide; Pyrazole; Antipyresis; Fever; Mouse (Souza, F.R. (451) 141)

Hypothyroidism

Streptozotocin; Diabetes; Heart, ex vivo; Arrhythmia; Ischaemia–reperfusion, rat (Zhang, L. (435) 269)

Hypoxia

Oxidative stress; Adrenomedullin; Cardiomyocyte (Yoshihara, F. (436) 1)

Anti-ischemic molecule; Mitochondrion; Respiration; Complex I; Endothelial cell (Bouaziz, N. (441) 35)

Halothane; Ca²⁺ channel blocker; Na⁺ channel blocker; Nitric oxide (NO) synthesis; Cerebral cortex (Oka, M. (452) 175)

Leukocytes; In vitro; Chemiluminescence; Reactive oxygen species, Ca²⁺ (Sanidas, D. (453) 183)

Iberiotoxin

Nitroglycerin; Nitrate tolerance; K⁺ channel (Gruhn, N. (446) 143)

Ibuprofen

NS-398; Aspirin; Indomethacin; Nimesulide; Naproxen (Burde, T. (453) 167)

IC₅₀

Xanthine oxidase; Flavonoid; Structure–function relationship; Inhibition (Van Hoon, D.E.C. (451) 111)

ICAM-1 (intercellular adhesion molecule-1)

Partial liquid ventilation; Acute respiratory distress syndrome; Aerosol; Selectin (Schoof, E. (457) 195)

ICI118551

Mast cell; β_2 -Adrenoceptor; CGP20712A (Chong, L.K. (437) 1)

Idoxifene

Estrogen; Nitric oxide (NO) (Christopher, T.A. (446) 137)

Ifenprodil

Acamprosate; Memory, Social; Polyamines (Mikolajczak, P. (444) 83)

IGF-1 (insulin-like-growth-factor)

Growth hormone; Pharmacokinetic; (Monkey) (Osborn, B.L. (456) 149)

IGF-I (insulin-like growth factor-I)

Pepstatin A; *N*-acetyl-L-cysteine; Stellate cell; Cathepsin D; PDGF (platelet-derived growth factor) (Takashima, T. (451) 265)

Ileum

Cannabinoid CB₁ receptor; GABA (γ -aminobutyric acid) release; Ethylenediamine; Anandamide (Begg, M. (434) 87)

Nimesulide; Pentoxifylline; Contractile response; (Rat) (Kaya, T.T. (442) 147)

Bladder, overactive; Irritable bowel syndrome; Urinary bladder (Modiri, A.-R. (451) 171)

Ileum, guinea pig

Angiotensin II desensitization; Phorbol dibutyrate (PDB); Membrane repolarization; Protein kinase C inhibitor; Maxi-K⁺ channel recruitment (Aboulafia, J. (442) 29)

Iliac artery

α_1 -Adrenoceptor subtype; Mouse; Noradrenaline (Shibano, M. (456) 77)

Imidazoline

Agmatine; Exocytosis; G protein; Mastoparan; Mast cell (Ferry, X. (435) 19)

Midaglizole; K_{ATP} channel; Kir6.2; Diabetes; Insulin secretion (Proks, P. (452) 11)

KU14R; Efaroxan; α_2 -Adrenoceptor; Insulin; Glucose, blood (Mayer, G. (454) 95)

Imidazoline binding site

Autoradiography; BU224 (2-(4,5-dihydroimidaz-2-yl)-quinoline; Brain, rat (Robinson, E.S.J. (450) 55)

Imidazoline receptor

Spinal reflex; Tizanidine; Muscle relaxation (Honda, M. (445) 187)

Imipramine

5-HT_{1A} receptor; 5-HT₄ receptor; 8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin); Antidepressant; Buspirone; Clozapine; Haloperidol (Zahrodna, A. (443) 51)

α_1 -Adrenoceptor subtype; Brain, rat; [³H]Prazosin binding; Electroconvulsive shock; α_1 -Adrenoceptor mRNA (Nalepa, I. (444) 151)

TE671 cell line; SK3 channel; Antidepressant, tricyclic; Desipramine (Carignani, C. (448) 139)

Na⁺ channel; K⁺ channel; Antidepressant; Patch clamping; ²²Na⁺ flux (Nicholson, G.M. (452) 35)

IMM125

Bronchial hyperresponsiveness; Airway inflammation; Rapamycin; SAR943; Budesonide; Th1 cytokine; Th2 cytokine (Huang, T.-J. (437) 187)

Immediate early gene

Cocaine; Ketamine; Propofol; *egr-1*; Dopamine; Forebrain, rat (Jouvert, P. (449) 239)

Immine oxide

2,2'-Pyridylisatogen; Spin trap; Motoneuron; ATP receptor antagonist; P2Y receptor; Neuroprotection; AMPA receptor (Menton, K. (444) 53)

Immobilization stress

CRF receptor; CRA1000; ACTH (adrenocorticotrophic hormone); Corticosterone (Ohata, H. (457) 201)

Immunoblotting

5-HT (5-hydroxytryptamine, serotonin); Hippocampus; 5-HT_{1A} receptor; Phosphorylation; Erk1/2; MAP (mitogen-activated protein) kinase (Chen, J. (452) 155)

Immunohistochemistry

Gastric ulcer; Ulcer healing, chronic; Nonsteroidal anti-inflammatory drugs; Prostaglandin; Myeloperoxidase activity (Berenguer, B. (442) 125)

Immunotherapy

Autoimmunity; Deoxyspergualin; Orchitis (Ablake, M. (450) 209)

Incision pain

Pain; Allodynia; SNAP (*S*-nitroso-*N*-acetylpenicillamine); Isosorbide; Nitric oxide (NO); ODQ (1*H*-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one) (Prado, W.A. (441) 57)

Indicator-dilution experiment

ATP; Organic anion transport; Perfused rat liver (Fernandes, T.R.L. (454) 225>)

Indole derivative

Myocardial infarct size; Cardioprotection; Ischemia–reperfusion; Malondialdehyde; Free radical scavenger (Andreadou, I. (453) 271)

Indole-2,3-dione

Inflammation; Catecholamine; 5-HT (5-hydroxytryptamine, serotonin); Reactive oxygen species; Peripheral resistance (Tozawa, Y. (440) 37)

Indomethacin

NS-398; Aspirin; Nimesulide; Ibuprofen; Naproxen (Burde, T. (453) 167)

Induction

Expression; Operational model; Upregulation (Möller, S. (454) 209)

Infarct

Apoptosis; Cardiomyocyte; Caspase; Ischemia; Reperfusion (Chapman, J.G. (456) 59)

Infarct size

Heat shock protein 70; Ischemia; Reperfusion (Lubbers, N.L. (435) 79)

Cerebral ischemia; Dopamine; Propofol; (Rat) (Wang, J. (452) 303)

Inflammation

Pain; Histamine; Histamine H₁ receptor; Spinal cord (Olsen, U.B. (435) 43)

Atherosclerosis; PPAR (peroxisome proliferator-activated receptor); NF- κ B (nuclear factor- κ B); EAhy926 cell (Rival, Y. (435) 143)

Opioid peptide; Opioid receptor; Adjuvant arthritis; Pain, chronic; Central nervous system (Spetea, M. (435) 245)

Catecholamine; 5-HT (5-hydroxytryptamine, serotonin); Reactive oxygen species; Peripheral resistance; Indole-2,3-dione (Tozawa, Y. (440) 37)

Ischemia–reperfusion; Neutrophil; Oedema; Artery, mesenteric; Leukotriene B₄ (Souza, D.G. (440) 61)

Paracetamol; Tropisetron; 5-HT₃ receptor; Spinal cord; (Rat) (Alloui, A. (443) 71)

Formalin test; Hyperalgesia; Ion channels; Neuropathic pain (Blackburn-Munro, G. (445) 231)

Pirfenidone; Cytokine; TNF- α (tumor necrosis factor- α); Translation; MAPK2 (mitogen-activated protein kinase 2 (Nakazato, H. (446) 175))

Diaceirin; Rhein; Arthritis; Bone (Tamura, T. (448) 81)

Leukocyte; Alcohol; Cerebral venule; Cerebral microcirculation; Cell adhesion molecule (Altura, B.M. (448) 89)

Peroxisome proliferator-activated receptor (PPAR γ); Nitrotyrosine; Rheumatoid arthritis; Temporomandibular joint (Shiojiri, T. (448) 231)

Mystixin; Hyaluronic acid; Hyaluronan; Edema (Stair, S. (450) 291)

Tight junctions; Pain; Occludin; Zonula occludens-1; Blood–brain barrier (Huber, J.D. (450) 297)

Polymorphonuclear leukocyte, human; 5-Lipoxygenase; Cyclooxygenase; Transcellular metabolism; Adhesive interaction (Rotondo, S. (453) 131)

Spinal nociception; Formalin test; Heat hyperalgesia; Spinal microdialysis; Nitric oxide (Gühring, H. (454) 153)

Inflammatory cell

Sephadex; Airway hyperreactivity; Neurokinin A; Substance P; Tachykinin receptor; Nepadutant; MEN 11467; Acetylcholine (Tramontana, M. (439) 149)

Airway reactivity; Chemiluminescence count; Tachykinin (Lai, Y.-L. (452) 229)

Inflammatory cytokine

Endotoxic shock; TNF- α (tumor necrosis factor- α); Interleukin-10; Apoptosis; Fibrosis; TGF- β (transformation growth factor- β) (Oku, H. (446) 165)

Inflammatory mediator

Bicarbonate-dependent secretion; Cannabinoid; Enkephalin; Prostanoid (Green, B.T. (451) 185)

Inflammatory pain

Tormentic acid; Triterpene pentacyclic; Neuropathic pain; Allodynia (Bortalanza, L.B. (453) 203)

Inhibition

Xanthine oxidase; Flavonoid; Structure–function relationship; IC₅₀ (Van Hoor, D.E.C. (451) 111)

iNOS (inducible nitric oxide (NO) synthase)

Nitric oxide (NO); Cyclosporin A; Tacrolimus; Sulfasalazine; Colitis (Hämäläinen, M. (448) 239)

iNOS (inducible nitric oxide synthase)

Lipopolysaccharide; p38 MAP (mitogen activated protein) kinase (Lahti, A. (454) 115)

Inositol phosphate formation

Bile acid; MAP (mitogen activated protein) kinase (p44/p42) phosphorylation; Molecular modeling; Muscarinic receptor; Radioligand binding (Raufman, J.-P. (457) 77)

Inotropic

Relaxin; (INSL3) Insulin-like peptide 3; Atria, rat; Chronotropic; Receptor autoradiography (Tan, Y.Y. (457) 153)

Inotropic agent

Nitric oxide (NO); Contractility; Endotoxaemia (Price, S. (449) 279)

In situ hybridization

Histidine decarboxylase; Histamine H₃ receptor; Betahistine dihydrochloride; Radioautography; Vestibular nuclei; Tuberomammillary nuclei (Tighilet, B. (446) 63)

Preprotachykinin A mRNA; MDMA (3,4-methylene dioxymethamphetamine); Ecstasy (Pompei, P. (450) 245)

INSL3 (Insulin-like peptide 3)

Relaxin; Atria, rat; Chronotropic; Inotropic; Receptor autoradiography (Tan, Y.Y. (457) 153)

Insulin

GALP (galanin-like peptide); Galanin GAL1 receptor; Galanin gal2 receptor; Leptin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

Dopamine; Feeding; Glucose; Lateral hypothalamus; Leptin; Obesity (Baptista, T. (447) 91)

KU14R; Efaroan; Imidazoline; α_2 -Adrenoceptor; Glucose, blood (Mayer, G. (454) 95)

α -Tocopherol; Erythrocyte membrane; Diabetes; Free radical (Shinozaki, K. (456) 133)

Insulin-dependent diabetes mellitus

Hyperalgesia; Kinin; Bradykinin B₁ receptor; Des-Arg⁹-bradykinin; Bradykinin B₁ receptor antagonist; R-715; R-954 (Gabra, B.H. (457) 115)

Insulin release

α_2 -Adrenoceptor stimulation; Opioid, endogenous; μ -Opioid receptor (García-Barrado, M.J. (448) 95)

S 21403; Repaglinide; Glibenclamide; Pancreas, isolated, rat; Glucagon release (Gregorio, F. (456) 141)

Insulin resistance

ACRP30 (adipocyte complement-related protein of 30 kDa); AdipoQ; Adiponectin; Obesity; Diabetes; Lipid metabolism; Glucose metabolism (Tsao, T.-S. (440) 213)

Capsaicin; Nitroglycerin (Porszasz, R. (443) 211)

Zucker rat; Acarbose; GLUT4 trafficking (Ledwig, D. (445) 141)

Insulin secretion

Midaglizole; K_{ATP} channel; Kir6.2; Imidazoline; Diabetes (Proks, P. (452) 11)

Insulin sensitivity

GLP-1 (glucagon-like peptide-1) derivative; Diabetes type 2; Glucose tolerance; Gastric emptying; Glucagon (Ribet, U. (451) 217)

Integrilin

GPIIb-IIIa antagonist; Disintegrin; Eptifibatide; GR144053F; Polymorphism PI^{A1/A2} (platelet-specific antigen) (Rozalski, M. (454) 1)

Interaction

Acetylcholine receptor; Muscle relaxant; Isobologram; Potency; *Xenopus* oocyte (Paul, M. (438) 35)

Organic anion transporter; Proximal tubule; Cephalosporin antibiotic (Takeda, M. (438) 137)

Interferon-γ

Interleukin-4; Interleukin-10; Interleukin-13; Colony-stimulating factor; Smooth muscle cell, vascular (Stanford, S.J. (436) 241)

Interleukin-1β

Endothelin ET_B receptor; Cyclooxygenase; NSAID (nonsteroidal anti-inflammatory drug); Rofecoxib; Glucocorticoid (White, L.R. (448) 51)

Noradrenaline; Plasma; Nitric oxide (NO) synthase, inducible; Brain (Murakami, Y. (455) 73)

Fenfluramine; Lipopolysaccharide; TNF-α (tumor necrosis factor-α); Interleukin-10, glucocorticoid; Catecholamine (Connor, T.J. (455) 175)

Adrenomedullin; Aerosol; Lung fibrosis; TGF-β₁ (transforming growth factor-β₁) (von der Hardt, K. (457) 71)

Interleukin-1

ATP; P2X₇; Neurodegeneration (Le Feuvre, R. (447) 261)

Interleukin-2

Cordycepin; Interleukin-10; T lymphocyte activation (Zhou, X. (453) 309)

Interleukin-4

Interferon-γ; Interleukin-10; Interleukin-13; Colony-stimulating factor; Smooth muscle cell, vascular (Stanford, S.J. (436) 241)

Interleukin-5

Allergic rhinitis; Eosinophil; TRFK5 (Yamasaki, M. (439) 159)

Interleukin-6

PAF (platelet-activating factor); Prostaglandin E₂; Thapsigargin; SK&F 98625; Macrophage (Ichinowatari, G. (434) 187)

Baclofen; Lipopolysaccharide; cAMP; GABA_B receptor antagonist; Pituitary; Neurohypophysis (Kjeldsen, T.H. (451) 209)

Interleukin-10

Interleukin-4; Interferon-γ; Interleukin-13; Colony-stimulating factor; Smooth muscle cell, vascular (Stanford, S.J. (436) 241)

Diabetes; Pentoxifylline; TNF-α; BB, rat (Visser, J. (445) 133)

Endotoxic shock; Inflammatory cytokine; TNF-α (tumor necrosis factor-α); Apoptosis; Fibrosis; TGF-β (transformation growth factor-β) (Oku, H. (446) 165))

Cordycepin; Interleukin-2; T lymphocyte activation (Zhou, X. (453) 309)

Fenfluramine; Lipopolysaccharide; Interleukin-1β; TNF-α (tumor necrosis factor-α); Catecholamine (Connor, T.J. (455) 175)

TNF-α (tumor necrosis factor); σ Receptor; Autoimmune disease (Bourri , B. (456) 123)

Interleukin-13

Interleukin-4; Interferon-γ; Interleukin-10; Colony-stimulating factor; Smooth muscle cell, vascular (Stanford, S.J. (436) 241)

Intermittent

Nisoxetine; Norepinephrine transporter; Withdrawal time; Nerve growth factor; Dopamine uptake (Kantor, L. (451) 27)

Intestinal glucose transport

Acarbose; SGLT1; GLUT1; GLUT2; Diabetes mellitus (Paiva, L. (434) 197)

Intestinal muscle

Tamoxifen; Tamoxifen metabolite; Non-genomic; Spasmolytic effect; Ca²⁺ channel (Diaz, M. (445) 257)

Intra-arterial digital subtraction angiography

PAF (platelet-activating factor); Cerebral vasospasm; Cerebral circulation time (canine model); Subarachnoid hemorrhage (Abe, Y. (455) 127)

Intracerebroventricular

Devazepide; Cholecystokinin; CCK₁ receptor antagonist (Ebenezer, I.S. (441) 79)

Intracerebroventricular injection

Ghrelin; Neonatal (chick); Feeding (Saito, E.-s. (453) 75)

Intrathecal infusion

Antinociception; Endogenous ligand; Opioid; NMDA receptor antagonist; Paw withdrawal test (Kekesi, G. (445) 93)

Intravital microscopy

Migraine; Nitric oxide (NO); Meningeal artery, middle; Trigeminal (Akerman, S. (452) 223)

Intrinsic activity

Schizophrenia; Extrapyramidal side-effect; Catalepsy; Neuroleptic; Anti-psychotic; Dopamine D₂ receptor; 5-HT_{1A} receptor (Prinssen, E.P.M. (453) 217)

Invasion

Penta-O-galloyl-β-D-glucose; Metastasis; MMP-9 (matrix metalloproteinase-9); AP-1 (activator protein-1); Sp-1 (Ho, L.-L. (453) 149)

Inverse agonism

SR141716A; Cannabinoid system; Adenylate cyclase (Mato, S. (443) 43)

Histamine H₃ receptor; ¹²⁵Iodoproxyfan; cAMP (Wulff, B.S. (453) 33)

In vitro

Leukocytes; Chemiluminescence; Hypoxia; Reactive oxygen species, Ca²⁺ (Sanidas, D. (453) 183)

In vitro model

Nicotinic receptor; (–)-Nicotine; 5-Bromonicotine; 5-Methoxynicotine; In vivo model (Dukat, M. (435) 171)

In vivo model

Nicotinic receptor; (–)-Nicotine; 5-Bromonicotine; 5-Methoxynicotine; In vitro model (Dukat, M. (435) 171)

Inward rectifier current

Risperidone; Action potential; Transient outward current; Delayed rectifier current; Heart, rabbit (Gluais, P. (444) 123)

¹²⁵Iodoproxyfan

Histamine H₃ receptor; cAMP; Inverse agonism (Wulff, B.S. (453) 33)

Ion channel

Cardiac myocyte; Streptomycin sulphate (Belus, A. (445) 171)

Antiarrhythmic agent; Voltage dependence; Frequency dependence (Kushida, S. (457) 19)

Epilepsy; Glial cell; Hippocampus; Glutamate receptor (Steinhäuser, C. (447) 227)

P2X₂ receptor; Ca²⁺; Multivalent cation block; Site-directed mutagenesis; *Xenopus* oocyte (Nakazawa, K. (449) 207)

Ion channels

Formalin test; Hyperalgesia; Inflammation; Neuropathic pain (Blackburn-Munro, G. (445) 231)

IP₃

5-Hydroxytryptamine; Glial; Calcium; Glutamate (Meller, R. (445) 13)

IP receptor

EP₃ receptor; cAMP; Cell migration (Blindt, R. (444) 31)

Irbesartan

Losartan; Angiotensin II receptor antagonist; Cholesterol-fed rabbit; Aorta, coronary; Mesenteric (5th branch) (Sanz, M. (442) 99)

Irritable bowel syndrome

Bladder, overactive; Urinary bladder; Ileum (Modiri, A.-R. (451) 171)

Ischemia–reperfusion

³¹P phosphorus magnetic resonance spectroscopy; Heart, isolated, working; Metabolism; Diabetes, type 2; Glibenclamide; K_{ATP} channel (Legtenberg, R.J. (434) 35)

Sodium salicylate; Cyclooxygenase-2; Gastric mucosal damage; Adaptive gastroprotection; Nitric oxide (NO) (Peskar, B.M. (434) 65)

Heat shock protein 70; Reperfusion; Infarct size (Lubbers, N.L. (435) 79)

Streptozotocin; Diabetes; Heart, ex vivo; Hypothyroidism; Arrhythmias (Zhang, L. (435) 269)

CGRP (calcitonin gene-related peptide); Monophosphoryl lipid A; Preconditioning; Capsaicin; Nitric oxide (NO) (Peng, J. (436) 89)

Neutrophil; Oedema; Artery, mesenteric; Inflammation; Leukotriene B₄ (Souza, D.G. (440) 61)

Amiodarone; Dronedrone; Thyroid hormone; Heart, isolated; rat (Pantos, C. (444) 191)

ME10092; Cardioprotection (Dambrova, M. (445) 105)

High-energy phosphate; K_{ATP} channel opener; Mitochondrion; Mitochondrial K_{ATP} channel; Nicorandil (Iwai, T. (446) 117)

Monoamine oxidase; Hydrogen peroxide; Kidney; Pargyline (Kunduzova, O.R. (448) 225)

Indole derivative; Myocardial infarct size; Cardioprotection; Malondialdehyde; Free radical scavenger (Andreou, I. (453) 271)

Bladder; Long-chain fatty alcohol; Free radical; Malonaldehyde (Saito, M. (454) 81)

Apoptosis; Cardiomyocyte; Caspase; Infarct; Reperfusion (Chapman, J.G. (456) 59)

Ischemic cell death

p38 MAP Kinase; Neuronal injury, acute; Cell culture; Neuroprotection; Excitotoxicity (Legos, J.J. (447) 37)

Isobologram

Acetylcholine receptor; Muscle relaxant; Interaction; Potency; *Xenopus* oocyte (Paul, M. (438) 35)

Isoflavone

Genistein; Thrombosis; Soy; Platelet aggregation (Kondo, K. (455) 53)

Isoflurane

GABA_A receptor; Patch-clamp; Kinetic modelling; Open-channel block (Hasenader, R. (451) 43)

Isolated

Dinucleoside polyphosphate; Coronary artery; Perfused; P2X receptor; P2Y receptor (van der Giet, M. (448) 207)

Isopteropodine

Pteropodine; Heteroyohimbine-type oxindole alkaloid; Muscarinic M₁ receptor; 5-HT₂ receptor; *Xenopus* oocyte (Kang, T.-H. (444) 39)

Isorhynchophylline

Rhynchophylline; NMDA receptor; Glycine site (Kang, T.-H. (455) 27)

Isosorbide

Pain; Incision pain; Allodynia; SNAP (*S*-nitroso-*N*-acetylpenicillamine); Nitric oxide (NO); ODQ (1*H*-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one) (Prado, W.A. (441) 57)

Iso-S-Petasin

Vascular smooth muscle cell; L-type Ca²⁺ channel; Intracellular Ca²⁺ concentration; Hypotension (Wang, G.-J. (445) 239)

Itch

Pruritus; κ -Opioid receptor agonist; TRK-820 (Togashi, Y. (435) 259)

Azelastine; Leukotriene B₄; Antihistamine; Prostaglandin E₂; Scratching (Andoh, T. (436) 235)

Jaw movement

Ventrolateral striatum; Striatal collateralised output pathway; Dopamine receptor; Acetylcholine receptor; GABA_A receptor; (Rat) (Adachi, K. (442) 81)

JNK (c-Jun N-terminal kinase)

Apoptosis; c-Fos; c-Jun; p53; p21^{WAF1/CIP1} (Kobayashi, K. (438) 19)

Jumping

Dopamine receptor agent; Morphine; Naloxone; (Mouse) (Zarrindast, M.-R. (451) 287)

K⁺ accumulation

L-cis Diltiazem; Myocardial ischemia; Ca²⁺ channel blocker (Sato, R. (434) 125)

K⁺ channel

Small-cell lung cancer, human; Protein kinase C; Multidrug resistance protein (Sakai, H. (435) 125)

Cerebral artery; Hypertension; Nitric oxide (NO); Y-27632; Rho-associated kinase (Kitayama, J. (438) 153)

Cl[−] channel; Ca²⁺, intracellular; Na⁺–K⁺-ATPase; NO; Colon, rat (Schultheiss, G. (444) 21)

K⁺ channel blocker; Antinociception; Dipyrone (Alves, D.P. (444) 47)

Nicotine; Cell migration; Cell proliferation; Ornithine decarboxylase; Wound healing; Nicotine receptor (Shin, V.Y. (444) 115)

Nitroglycerin; Iberiotoxin; Nitrate tolerance (Gruhn, N. (446) 143)

Evodiamine; Corpus cavernosum; Cyclic nucleotide (Chiou, W.-F. (446) 149)

Ca²⁺; SK channel; Dequalinium; Afterhyperpolarization; Neuron (Cao, Y.-J. (449) 47)

HERG channel; Antipsychotic; Arrhythmia; QT prolongation (Kongsamut, S. (450) 37)

Na⁺ channel; Antidepressant; Imipramine; Patch clamping; ²²Na⁺ flux (Nicholson, G.M. (452) 35)

Blood pressure; Vascular tension; 4-Aminopyridine; Adrenergic system (Berg, T. (452) 325)

K⁺ channel blocker

Antinociception; Dipyrone; K⁺ channel (Alves, D.P. (444) 47)

QT interval; Proarrhythmia; Torsade de pointes; α₁-Adrenoceptor stimulation; Clofilium; Erythromycin; Terikalant (Farkas, A. (449) 143)

K⁺ channel, inwardly rectifying

Kir2.3; Tenidap; Arachidonic acid; Potentiation; Opener (Liu, Y. (435) 153)

K⁺ current

Fluoxetine; Outer hair cell; Voltage-activated; Cochlea; Antidepressant (Bian, J.-T. (453) 159)

K⁺-evoked release

Adenosine receptor; Substance P; CGRP (calcitonin gene-related peptide); Cholecystokinin; Spinal cord; Rat (Mauborgne, A. (441) 47)

K252a

PKC (protein kinase C); Endothelin; Sarafotoxin 6c; Endothelin ET_B receptor; Ro31-7549; Staurosporine; H89 (Uddman, E. (452) 215)

Kainate receptor

Freund's adjuvant; LY382884; NS-102; NBQX; Q/R editing; (Rat); Hyperalgesia (Guo, W. (452) 309)

Kaolin

Cisplatin; Pica; Emesis; Delayed (Rudd, J.A. (454) 47)

K_{ATP} channel

³¹P phosphorus magnetic resonance spectroscopy; Heart, isolated, working; Ischemia; Metabolism; Diabetes, type 2; Glibenclamide (Legtenberg, R.J. (434) 35)

Nateglinide; Pancreatic β-cell, rat; Glucose sensitivity; Metabolic inhibition (Hu, S. (442) 163)

Midaglizole; Kir6.2; Imidazoline; Diabetes; Insulin secretion (Proks, P. (452) 11)

K_{ATP} channel, mitochondrial

Nicorandil; Aprikalim; Coronary occlusion; Myocardial ischemia; Reperfusion arrhythmia (Das, B. (437) 165)

K_{ATP} channel opener

High-energy phosphate; Ischemia/reperfusion injury; Mitochondrion; Mitochondrial K_{ATP} channel; Nicorandil (Iwai, T. (446) 117)

KDR-5169

Gastric emptying; 5-HT₄ receptor; Dopamine D2 receptor (Tazawa, S. (434) 169)

Keppra™

Antiepileptic drug; Anxiety; Benzodiazepine; Levetiracetam; Withdrawal (Lamberty, Y. (439) 101)

Ketamine

Cocaine; Propofol; Immediate early gene; *egr-1*; Dopamine; Forebrain, rat (Jouvert, P. (449) 239)

Dextromethorphan; Memantine; Formalin; Edema (Sawynok, J. (450) 153)

Ketanserin

Aging; Angiotensin; Blood pressure; Heart rate; Reflex bradycardia; Urapidil (Buñag, R.D. (435) 85)

5-HT_{2A} receptor; Cocaine; DOI; Methamphetamine; Drug discrimination, (Rat) (Munzar, P. (436) 75)

Ketotifen

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Histamine; Mast cell; Terfenadine; Ranitidine; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

KF24345

Adenosine; Glomerulonephritis (Noji, T. (449) 293)

Adenosine; Uptake inhibition; Pancreatitis, acute; Mortality; TNF-α (tumor necrosis factor-α) (Noji, T. (454) 85)

KF26777 (2-(4-bromophenyl)-7,8-dihydro-4-propyl-1H-imidazo[2,1-*i*]purin-5(4*H*)-one dihydrochloride)

Adenosine A₃ receptor; Binding assay; Ca²⁺; Guanine nucleotide (Saki, M. (444) 133)

Kidney

rGLP-1 (glucagon-like peptide-1-(7-36)amide), recombinant; Hemodynamics, renal; Proximal tubule (Moreno, C. (434) 163)

Ischemia-reperfusion; Monoamine oxidase; Hydrogen peroxide; Pargyline (Kunduzova, O.R. (448) 225)

Benzodiazepine; Vasculature; (Rat) (Monasterolo, L.A. (449) 155)

Amiloride; Mg^{2+} concentration; Mag-fura 2; Nitric oxide (NO) (Ikari, A. (451) 133)

Amantadine; Memantine; MRZ 2/579; MRZ 2/600; MRZ 2/615; Organic cation transport (Fourie, J. (452) 1)

Kidney, rat

Adrenomedullin; Vasodilation; Nitric oxide (NO); EDHF (endothelium-derived hyperpolarizing factor) (Wangensteen, R. (444) 97)

Kinetic modelling

GABA_A receptor; Isoflurane; Patch-clamp; Open-channel block (Hase-neder, R. (451) 43)

Kinin

Insulin-dependent diabetes mellitus; Hyperalgesia; Bradykinin B₁ receptor; Des-Arg⁹-bradykinin; Bradykinin B₁ receptor antagonist; R-715; R-954 (Gabra, B.H. (457) 115)

Kir2.3

K⁺ channel, inwardly rectifying; Tenidap; Arachidonic acid; Potentiation; Opener (Liu, Y. (435) 153)

Kir6.2

Midaglizole; K_{ATP} channel; Imidazoline; Diabetes; Insulin secretion (Proks, P. (452) 11)

Knockout mice

μ-Opioid receptor; Heroin; Place conditioning; Locomotor activity (Con-tarino, A. (446) 103)

Knockout mouse

5-HT_{1B} autoreceptor; Hippocampus; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (De Groote, L. (439) 93)

Knock-out mouse

Microdialysis, intracerebral; Fluoxetine; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (Malagié, I. (443) 99)

KU14R

Efaroxan; Imidazoline; α₂-Adrenoceptor; Insulin; Glucose, blood (Mayer, G. (454) 95)

KU812 cell

Thiazolidinedione; PPAR (Peroxisome proliferator-activated receptor); Cell growth; Histamine secretion (Abe, A. (436) 7)

Kynurenic acid

Kynurenine; Quinolinic acid; Glutamate; Neuroprotection; Neurodegeneration (Stone, T.W. (447) 285)

Aortic slice, rat; Endothelium; Excitatory amino acid receptor; Glucose; Oxygen (Stążka, J. (448) 133)

Kynurenine

Quinolinic acid; Kynurenic acid; Glutamate; Neuroprotection; Neurodegeneration (Stone, T.W. (447) 285)

L-365,260

Evodiamine; Gastrointestinal motility; Cholecystokinin; Devazepide; Lorglumide (Wu, C.-L. (457) 169)

Lamotrigine

Valproate; Pentylentetrazole; 4-Aminopyridine; Anticonvulsant; Drug interactions (Cuadrado, A. (453) 43)

Large-conductance Ca²⁺-activated K⁺ (SK_{Ca}) channel

PACAP (pituitary adenylate cyclase-activating polypeptide); Small-conductance Ca²⁺-activated K⁺ (SK_{Ca}) channel; Adrenal gland, rat; Catecholamine secretion (Fukushima, Y. (437) 69)

Laser–Doppler flowmetry

Ultrasonic flowmetry; α-Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Lingual artery; Phentolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Late-phase reaction

Allergic conjunctivitis; Eosinophil peroxidase activity; Histamine H₁ receptor; P-selectin (Izushi, K. (440) 79)

Lateral hypothalamus

Dopamine; Feeding; Glucose; Insulin; Leptin; Obesity (Baptista, T. (447) 91)

LDL (low-density lipoprotein)

Antioxidant; Atherosclerosis; Cell proliferation; Green tea catechin; Mitogen-activated kinase; Risk factor; Smooth muscle cell, vascular (Locher, R. (434) 1)

Fluvastatin; Antioxidant effect; Cigarette smoke extract; Oxidatively modified; WHHL rabbit (Yamaguchi, Y. (436) 97)

LDL (low-density lipoprotein), oxidized

α-Tocopherol; Apoptosis (Uemura, M. (456) 29)

Learned helplessness test

Antidepressant; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis; 5-HT (5-hydroxytryptamine, serotonin) transporter; 5-HT_{1A} receptor (Tordera, R.M. (442) 63)

Learning

Ebselen; Memory; Avoidance inhibitory (Porciúncula, L.O. (451) 165)

CA1 area; Hippocampus; Nitric oxide (NO); Long-term potentiation; (Rat) (Hölscher, C. (457) 99)

Learning ability

Erythropoietin; Brain ischemia; Passive avoidance (Catania, M.A. (437) 147)

Learning and memory

Cannabinoid; Long-term potentiation; (Rat) (Diana, G. (453) 251)

Leptin

Obesity; (Rodent) (Lee, D.W. (440) 129)

Adipostat; Hypothalamus; Obesity; Appetite; Satiety (Larsen, P.J. (440) 159)

GALP (galanin-like peptide); Galanin GAL1 receptor; Galanin gal2 receptor; Insulin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

Dopamine; Feeding; Glucose; Insulin; Lateral hypothalamus; Obesity (Baptista, T. (447) 91)

Vagus nerve; Afferent fibre; Cholecystokinin; Pancreatic secretion (Guilmeau, S. (447) 99)

Leukaemia

Chemotherapy; Survival; GST (glutathione *S*-transferase) (Autrup, J.L. (438) 15)

Leukocyte

Alcohol; Cerebral venule; Cerebral microcirculation; Inflammation; Cell adhesion molecule (Altura, B.M. (448) 89)

In vitro; Chemiluminescence; Hypoxia; Reactive oxygen species, Ca^{2+} (Sanidas, D. (453) 183)

Leukocyte/endothelium interaction

Cyclooxygenase-1; Cyclooxygenase-2; NSAID (nonsteroidal anti-inflammatory drug) (Calatayud, S. (440) 71)

Leukotriene

Nasal allergic sign; Histamine H_1 receptor; Thromboxane A_2 (Kayasuga, R. (449) 287)

Adenosine; Bronchoconstriction; Histamine; Cyclooxygenase product (Martin, T.J. (451) 89)

Leukotriene B_4

Azelastine; Itch; Antihistamine; Prostaglandin E_2 ; Scratching (Andoh, T. (436) 235)

Ischemia–reperfusion; Neutrophil; Oedema; Artery, mesenteric; Inflammation (Souza, D.G. (440) 61)

Leukotriene C_4

$\alpha_{1\text{L}}$ -Adrenoceptor; $\alpha_{1\text{H}}$ -Adrenoceptor; Bronchial asthma; Asthmatic response, immediate (Nobata, K. (452) 97)

Leukotriene D_4

Bronchus; Ovalbumin; Histamine; Schultz–Dale reaction; Arachidonic acid (Seow, C.-J. (443) 189)

Leukotriene receptor antagonist; CysLT receptor; Asthma; Bronchoconstriction; Airway inflammation (Cabr , F. (451) 317)

Leukotriene receptor antagonist

CysLT receptor; Leukotriene D_4 ; Asthma; Bronchoconstriction; Airway inflammation (Cabr , F. (451) 317)

Levetiracetam

Antiepileptic drug; Anxiety; Benzodiazepine; KeppraTM; Withdrawal (Lamberty, Y. (439) 101)

Levosimendan

Phosphodiesterase inhibitor; Atrial cell, human; Atrial cell, rabbit; Ca^{2+} current, L-type (Ajiro, Y. (435) 27)

Leydig cell

Alcohol; Apoptosis; Bax; Bcl-2; Caspase-3 (Jang, M.-H. (449) 39)

Li^+ clearance

Amiloride; NHE3; Proximal tubular reabsorption; Na^+ Fractional excretion (Thomsen, K. (437) 85)

Lidocaine

Tramadol; Sucrose-gap; Compound action potential; Sciatic nerve (Mert, T. (439) 77)

Ropivacaine; Bupivacaine; Cholesterol; Membrane ionic permeability (Pardo, L. (455) 81)

Ligand binding

5-HT_{1F} receptor; Cloning; 5-HT (5-hydroxytryptamine, serotonin); Migraine (Pig); Sequencing; Trigeminal ganglion (Bhalla, P. (436) 23)

Light/dark exploration test

Nitric oxide (NO); Nitric oxide (NO) donor; Nitrous oxide (N_2O); Anxiety (Li, S. (447) 75)

Lignan

Ca^{2+} ; Ca^{2+} store; Fura-2; MDCK cell; Thapsigargin (Chao, Y.-Y. (443) 31)

Lingual artery

Laser–Doppler flowmetry; Ultrasonic flowmetry; α -Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Phentolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Linopirdine

M channel; XE 991; M current (Dupuis, D.S. (437) 129)

Lipase inhibitor

Obesity; Orlistat; Weight loss; Weight maintenance; Cardiovascular risk (Ballinger, A. (440) 109)

Lipid metabolism

ACRP30 (adipocyte complement-related protein of 30 kDa); AdipoQ; Adiponectin; Obesity; Diabetes; Insulin resistance; Glucose metabolism (Tsao, T.-S. (440) 213)

Lipid peroxidation

Antioxidant; Hydroxyl radical; Peroxynitrite; Uracil derivative (Goto, Y. (438) 189)

Lipogenesis

PPAR (peroxisome proliferator activated receptor); Fibrate; Thiazolidinedione; Steatosis; Adipogenesis; Nuclear hormone receptor; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

Lipophilicity

GABA_A receptor; *Xenopus* oocyte; 4-PIOL (5-(4-piperidyl)-3-isoxazolol); Partial agonist; Structure–activity (Mortensen, M. (451) 125)

Lipopolysaccharide

Rutin; Wogonin; Quercetin; Nitric oxide (NO); Prostaglandin E_2 (Shen, S.-C. (446) 185)

RNA, regulatory; PKR (RNA-dependent protein kinase); NF- κB (nuclear factor- κB); Macrophage (De Lucca, F.L. (450) 85)

Pyrazole; Antipyresis; Fever; Hypothermia; Mouse (Souza, F.R. (451) 141)

Baclofen; Interleukin-6; cAMP; GABA_B receptor antagonist; Pituicyte; Neurohypophysis (Kjeldsen, T.H. (451) 209)

FR167653; p38 MAP (mitogen-activated protein) kinase inhibitor; Carrageenan; Paw edema; Vascular permeability (Nishikori, T. (451) 327)

Anti-inflammatory; Cholinesterase inhibitor; Microglia; Rat; Alzheimer's disease (Wenk, G.L. (453) 319)

iNOS (inducible nitric oxide synthase); p38 MAP (mitogen activated protein) kinase (Lahti, A. (454) 115)

Fenfluramine; Interleukin-1 β ; TNF- α (tumor necrosis factor- α); Interleukin-10, glucocorticoid; Catecholamine (Connor, T.J. (455) 175)

Lipoprotein lipase gene

Single-nucleotide polymorphism; Coronary heart disease; Chinese population study; Dyslipidemia; High-density lipoprotein; Triglyceride (Su, Z.G. (454) 9)

Lipoteichoic acid

Cyclooxygenase-2; p44/42 mitogen-activated protein kinase (MAPK); p38 MAPK; A549 cell (Lin, C.-H. (450) 1)

5-Lipoxygenase

Inflammation; Polymorphonuclear leukocyte, human; Cyclooxygenase; Transcellular metabolism; Adhesive interaction (Rotondo, S. (453) 131)

Lithium chloride

Bipolar mood disorder; Protein kinase C; Down regulation; 1321N1 human astrocytoma cell; Ca^{2+} mobilization, intracellular (Kurita, M. (442) 17)

Liver injury, suppression

Thalidomide analogue; Cytokine modulation (Thiele, A. (453) 325)

Liver, rat

Cannabinoid; Anandamide; Tolerance; Cytochrome P450; Brain, rat (Costa, B. (449) 61)

Locomotion

Cocaine; Sensitization; Dosing regimen (Davidson, C. (441) 75)

Open field; Nucleus accumbens; Schizophrenia; Startle; Ventral tegmental area (Schwienbacher, I. (444) 161)

Cocaine; Sensitization; 5-HT₂ receptor; Withdrawal; Behavioral rating (Davidson, C. (453) 255)

Locomotor activity

Tacrolimus; Calcineurin; Dopamine D1 receptor; Dopamine D2 receptor; Dopamine D3 receptor (Sakanoue, M. (438) 93)

μ -Opioid receptor; Heroin; Knockout mice; Place conditioning (Contarino, A. (446) 103)

Alcohol preference; Opioid receptor; Morphine; (Selected rat line) (Soini, S.L. (448) 157)

Catalepsy; Prepulse inhibition; Amphetamine; Dopamine; Parkinson's disease; Progressive supranuclear palsy (Ross, B.M. (450) 141)

Ethanol; MK-801; Dopamine; NMDA receptor (Hanania, T. (457) 125)

Locus coeruleus

Dorsal raphe nucleus; Noradrenaline; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis (Pudovkina, O.L. (445) 37)

Long-chain fatty alcohol

Bladder; Ischemia–reperfusion injury; Free radical; Malonaldehyde (Saito, M. (454) 81)

Long QT syndrome

APD (action potential duration); Triangulation; Afterdepolarization, early; Purkinje fiber, Rabbit (Lu, H.R. (452) 183)

Long-term effect

Adolescence; MDMA (3,4-methylenedioxymethamphetamine); Behaviour; 5-HT (5-hydroxytryptamine, serotonin); (Mouse) (Morley-Fletcher, S. (448) 31)

Long-term memory

Adenosine A₁ receptor; Cortex, posterior cingulate; Short-term memory (Pereira, G.S. (437) 151)

Long-term potentiation

Dopamine; Cortex, prefrontal (Blond, O. (438) 115)

Atypical antipsychotic drug; Zotepine; Perforant path–dentate gyrus pathway (Kubota, T. (453) 245)

Cannabinoid; Learning and memory; (Rat) (Diana, G. (453) 251)

β -Amyloid; Alzheimer's disease; MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide); Akt; Hippocampus; RS-0466 (Nakagami, Y. (457) 11)

CA1 area; Hippocampus; Nitric oxide (NO); Learning; (Rat) (Hölscher, C. (457) 99)

Lorglumide

Evodiamine; Gastrointestinal motility; Cholecystokinin; Devazepide; L-365,260 (Wu, C.-L. (457) 169)

Losartan

Irbesartan; Angiotensin II receptor antagonist; Cholesterol-fed rabbit; Aorta, coronary; Mesenteric (5th branch) (Sanz, M. (442) 99)

Low-molecular-weight heparin

Bronchial asthma; Poly-L-glutamic acid; Poly-L-lysine; Cationic–anionic interaction (Yahata, T. (434) 71)

Luciferase

(SRIF) Somatostatin; Somatostatin sst₅ receptor, goldfish; (SRE) Serum responsive element; [³⁵S]GTP γ S; Receptor trafficking (Nunn, C. (436) 173)

Lung

G protein-coupled receptor kinase; Adenylyl cyclase; Cystic fibrosis; Gene expression (Mak, J.C.W. (436) 165)

Lung fibrosis

Adrenomedullin; Aerosol; TGF- β_1 (transforming growth factor- β_1); Interleukin-1 β (von der Hardt, K. (457) 71)

Lung injury, acute

Neutrophil elastase; Respiratory distress syndrome, adult; Permeability; Edema (Kawabata, K. (451) 1)

Lung parenchyma, guinea-pig

Cysteinyl-leukotriene receptor; Cyclooxygenase; Nitric oxide (NO) (Sakata, K. (436) 119)

LY 278,584

5-HT₃ receptor; Cocaine; Tropisetron; Sensitization; Tolerance; (Rat) (King, G.R. (449) 253)

LY382884

Freund's adjuvant; NS-102; NBQX; Q/R editing; (Rat); Kainate receptor; Hyperalgesia (Guo, W. (452) 309)

Lymph chylomicron

Pitavastatin; 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor; Model of postprandial lipemia; Microsomal triglyceride transfer protein (Aoki, T. (444) 107)

[Lys²]angiotensin II

Angiotensin II; Angiotensin AT₁ receptor, recombinant; Tachyphylaxis; CHO cell line; Smooth muscle cell line (França, L.P. (439) 13)

Lysosomal sorting

Buoyant density separation; Endocytosis rate; Endosomal sorting; Selective agonist endocytosis; Receptor affinity; Receptor conservation (Parker, M.S. (452) 279)

M channel

Linopirdine; XE 991; M current (Dupuis, D.S. (437) 129)

M current

M channel; Linopirdine; XE 991 (Dupuis, D.S. (437) 129)

Macrophage

PAF (platelet-activating factor); Interleukin-6; Prostaglandin E₂; Thapsigargin; SK&F 98625 (Ichinowatari, G. (434) 187)

RNA, regulatory; PKR (RNA-dependent protein kinase); NF- κ B (nuclear factor- κ B); Lipopolysaccharide (De Lucca, F.L. (450) 85)

Avasimibe; Atorvastatin; Acyl-CoA cholesterol acyltransferase; Hydroxymethyl glutaryl-CoA reductase; Cholesteryl ester (Llaverías, G. (451) 11)

Unilateral ureteral obstruction; Renal interstitial fibrosis; Rho-kinase; Fasudil (Satoh, S.-i. (455) 169)

Mag-fura 2

Amiloride; Mg²⁺ concentration; Kidney; Nitric oxide (NO) (Ikari, A. (451) 133)

Magnesium

Alcohol; Cerebral microcirculation; Cytochrome oxidase; Hemoglobin; Stroke; Optical spectroscopy (Barbour, R.L. (447) 79)

Magnetic resonance imaging

Cerebral edema; Dihydropyridine Ca²⁺ channel antagonist; Hypertension; Hypertensive encephalopathy; (Rat) (Blezer, E.L.A. (444) 75)

Malnutrition

GABA_A receptor; Septum (Steiger, J.L. (446) 199)

Malonaldehyde

Bladder; Long-chain fatty alcohol; Ischemia–reperfusion injury; Free radical (Saito, M. (454) 81)

Malondialdehyde

Indole derivative; Myocardial infarct size; Cardioprotection; Ischemia–reperfusion; Free radical scavenger (Andreadou, I. (453) 271)

MAPK2 (mitogen-activated protein) kinase 2

Pirfenidone; Inflammation; Cytokine; TNF- α (tumor necrosis factor- α); Translation (Nakazato, H. (446) 175)

MAP (Mitogen-activated protein) kinase

DMDI (1-(3',4'-dimethoxybenzyl)-6,7-dichloroisoquinoline); Neutrophil; Respiratory burst; Signal transduction; Phospholipase D; Ca²⁺ concentration, cellular-free (Wang, J.-P. (434) 9)

MAP (mitogen-activated protein) kinase

Acetylcholine; Pulmonary artery, rat; Muscarinic M₃ receptor; Nitric oxide (NO) (Choy, W.Y. (434) 55)

cAMP; Mechanical stretch; Glomerulosclerosis; AP-1 (activator protein-1); Fibronectin (Nishio, T. (437) 113)

Ethanol; Cerebral cortex (Kalluri, H.S.G. (439) 53)

U0126; PD98059; Angiotensin II; Endothelin-1; Contraction (Ishihata, A. (445) 247)

Ethanol; GABA (γ -amino butyric acid) (Kalluri, H.S.G. (451) 51)

5-HT (5-hydroxytryptamine, serotonin); Hippocampus; 5-HT_{1A} receptor; Phosphorylation; Erk1/2; Immunoblotting (Chen, J. (452) 155)

MAP (mitogen activated protein) kinase (p44/p42) phosphorylation

Bile acid; Inositol phosphate formation; Molecular modeling; Muscarinic receptor; Radioligand binding (Raufman, J.-P. (457) 77)

Mast cell

Agmatine; Imidazoline; Exocytosis; G protein; Mastoparan (Ferry, X. (435) 19)

Adhesion; Chymase; Chymase inhibitor (Okamoto, Y. (435) 265)

β_2 -Adrenoceptor; CGP20712A; ICI118551 (Chong, L.K. (437) 1)

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Histamine; Terfenadine; Ranitidine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

Scratching behavior; Compound 48/80; Histamine; 5-HT (5-hydroxytryptamine, serotonin); MicroAct (Inagaki, N. (448) 175)

Mastoparan

Agmatine; Imidazoline; Exocytosis; G protein; Mast cell (Ferry, X. (435) 19)

Maxi-K⁺ channel recruitment

Angiotensin II desensitization; Phorbol dibutyrate (PDB); Membrane repolarization; Protein kinase C inhibitor; Ileum, guinea pig (Aboulafla, J. (442) 29)

MCFP

Nitroglycerin; Nitric oxide (NO); Metal nitrosyl complex; Capacitance vessel; Vasodilator (Poon, K.S. (436) 107)

(MCH) melanin-concentrating hormone

SLC-1 receptor; Receptor antagonist; Food intake; Obesity (Takekawa, S. (438) 129)

MCP-1 (monocyte chemoattractant protein-1)

Beraprost sodium; Prostacyclin; Renal dysfunction; Nephritis; Anti-glomerular basement membrane; Collagen (Yamada, M. (449) 167)

mCPP

Animal model; Depression, endogenous; 5-HT (5-hydroxytryptamine, serotonin); REM (rapid eye movement) sleep; Mianserin (Mavanji, V. (455) 35)

MDA (3,4-methylenedioxyamphetamine)

MDMA (3,4-methylenedioxymethamphetamine); MDEA (3,4-methylenedioxyethylamphetamine); Cathinone; Cocaine; Ventricular strip, rat; Contraction (Cleary, L. (451) 303)

MDCK cell

Lignan; Ca²⁺; Ca²⁺ store; Fura-2; Thapsigargin (Chao, Y.-Y. (443) 31)

MDEA (3,4-methylenedioxyethylamphetamine)

MDMA (3,4-methylenedioxymethamphetamine); MDA (3,4-methylenedioxyamphetamine); Cathinone; Cocaine; Ventricular strip, rat; Contraction (Cleary, L. (451) 303)

MDMA (3,4-methylenedioxymethamphetamine)

4-MTA (4-methylthioamphetamine); 4-MTMA (4-methylthiomethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Reuptake; Synaptosome; Aortic contraction (Murphy, J.E.J. (444) 61)

5-HT (5-hydroxytryptamine, serotonin); Ecstasy; Anxiety; (Rat); Neurotoxicity (Gurtman, C.G. (446) 89)

Adolescence; Behaviour; 5-HT (5-hydroxytryptamine, serotonin); Long-term effect; (Mouse) (Morley-Fletcher, S. (448) 31)

Preprotachykinin A mRNA; In situ hybridization; Ecstasy (Pompei, P. (450) 245)

MDEA (3,4-methylenedioxyethylamphetamine); MDA (3,4-methylenedioxyamphetamine); Cathinone; Cocaine; Ventricular strip, rat; Contraction (Cleary, L. (451) 303)

p-Chlorophenylalanine; 5-HT; Serotonin transporter; Neuroadaptation (Boot, B.P. (453) 239)

(Mouse, anaesthetised); α_2 -Adrenoceptor; $\alpha_{2A/D}$ -Adrenoceptor knockout (Vandeputte, C. (457) 45)

MDR1

Active efflux; P-glycoprotein; MRP (multidrug resistance-associated protein); Glutathione; Taxol; PSC-833; Verapamil (Crowe, A. (440) 7)

ME10092

Cardioprotection; Ischemia–reperfusion, rat (Dambrova, M. (445) 105)

Mecamylamine

18-Methoxycoronaridine; Dextromethorphan; Morphine; Methamphetamine; Nicotine receptor; Drug addiction (Glick, S.D. (438) 99)

Stimulant; Smoking; Depression (Young, R. (443) 113)

18-Methoxycoronaridine; Dextromethorphan; Bupropion; Nicotine; Nicotine receptor; Drug addiction (Glick, S.D. (448) 185)

Mechanical

Sex difference; μ -Opioid receptor agonist; κ -Opioids receptor agonist; Antinociception; (Rat) (Barrett, A.C. (452) 163)

Mechanical stretch

cAMP; Glomerulosclerosis; MAP (mitogen-activated protein) kinase; AP-1 (activator protein-1); Fibronectin (Nishio, T. (437) 113)

Melanin

Collagen; Gentamicin; Prolidase; Fibroblast (Wrześniok, D. (446) 7)

Melanocortin

Melanocortin receptor; Neuropeptide; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); POMC (proopiomelanocortin); Energy homeostasis; Obesity; Sexual function (MacNeil, D.J. (440) 141)

Cannabinoid; Cannabinoid CB₁ receptor antagonist; Hemorrhagic shock; (Rat) (Cainazzo, M.M. (441) 91)

Erectile dysfunction; Melanocortin MC₄ receptor; G protein-coupled receptor (Martin, W.J. (454) 71)

Melanocortin receptor

Melanocortins; Neuropeptide; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); POMC (proopiomelanocortin); Energy homeostasis; Obesity; Sexual function (MacNeil, D.J. (440) 141)

Melanocortin MC₄ receptor

Erectile dysfunction; Melanocortin; G protein-coupled receptor (Martin, W.J. (454) 71)

Melatonin

Vitamin C; N1E-115 cell; Okadaic acid; Oxidative stress; Antioxidant enzyme (Montilla-López, P. (451) 237)

Melatonin MT₁ receptor

Constitutive activity; 4P-PDOT (4-phenyl-2-propionamidotetraline) (Erşahin, Ç. (439) 171)

Melatonin MT₁ receptor, human

Melatonin MT₂ receptor, human; Cysteine; Site-directed mutagenesis; Thiol agents; HEK-293 cell (Msee, F. (449) 29)

Melatonin MT₂ receptor, human

Melatonin MT₁ receptor, human; Cysteine; Site-directed mutagenesis; Thiol agents; HEK-293 cell (Msee, F. (449) 29)

Memantine

Dextromethorphan; Ketamine; Formalin; Edema (Sawynok, J. (450) 153)

Amantadine; Kidney; MRZ 2/579; MRZ 2/600; MRZ 2/615; Organic cation transport (Fourie, J. (452) 1)

Membrane ionic permeability

Lidocaine; Ropivacaine; Bupivacaine; Cholesterol (Pardo, L. (455) 81)

Membrane repolarization

Angiotensin II desensitization; Phorbol dibutyrate (PDB); Protein kinase C inhibitor; Maxi-K⁺ channel recruitment; Ileum, guinea pig (Aboulafia, J. (442) 29)

Memory

Renin–angiotensin system; Affective disorder; Cognition (Gard, P.R. (438) 1)

Apomorphine; Dopamine; Oxidative stress; Parkinson's disease; Behavior (Picada, J.N. (443) 105)

Ebselen; Learning; Avoidance inhibitory (Porciúncula, L.O. (451) 165)

Memory, Social

Acamprosate; Polyamines; Ifenprodil (Mikolajczak, P. (444) 83)

MEN 11467

Sephadex; Airway hyperactivity; Neurokinin A; Substance P; Tachykinin receptor; Nepadutant; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Meningeal artery, middle

Migraine; Nitric oxide (NO); Intravital microscopy; Trigeminal (Akerman, S. (452) 223)

Meningitis

Oxidative stress; Peroxynitrite; Urate; MnTBAP; Ascorbate (Kastenbauer, S. (449) 177)

Mental depression

Clomipramine; Cholinergic–serotonergic interaction; Nicotinic receptor modulation; *Xenopus* oocyte (López-Valdés, H.E. (444) 13)

Mesaconitine

Aorta; Vasorelaxation; Nitric oxide (NO); Aconiti tuber; (*Aconitum japonicum*); (Rat) (Mitamura, M. (436) 217)

Mesangial cell

Hep G2 cell; Cell death; Nitric Oxide (NO); Superoxide; Glutathione (Sumbayev, V.V. (444) 1)

Mesenteric arterial bed

GABA (γ -amino butyric acid); Noradrenaline; Blood pressure; Perivascular nerve stimulation; Spontaneously hypertensive rat (SHR) (Hayakawa, K. (438) 107)

Mesenteric arterial bed, rat

Cannabinoid; Sympathetic neurotransmission; Sensory nerve; Capsaicin; Methanandamide (Ralevic, V. (444) 171)

Mesenteric blood vessel

Vascular conductance; Blood flow; Ca^{2+} -activated, Cl^- channel; α_1 -Adrenoceptor (Parai, K. (448) 59)

Mesenteric (5th branch)

Irbesartan; Losartan; Angiotensin II receptor antagonist; Cholesterol-fed rabbit; Aorta, coronary (Sanz, M. (442) 99)

Mesolimbic

Dopamine; Antipsychotic drug; Clozapine; Prefrontal cortex (Westerink, B.H.C. (455) 1)

Mesothelial cell

Actin; Angiotensin II; Angiotensin AT_1 receptor; Pleura; Pertussis toxin; Protein kinase C; Tyrosine kinase (Kuwahara, M. (436) 15)

Metabolic fuel

Ghrelin; Growth hormone secretagogue; Pituitary hormone; Food intake, control of; Obesity (Muccioli, G. (440) 235)

Metabolic inhibition

Nateglinide; Pancreatic β -cell, rat; K_{ATP} channel; Glucose sensitivity (Hu, S. (442) 163)

Metabolic syndrome

Angiotensin AT_1 receptor; Angiotensin-converting enzyme inhibitor; Obesity; Hyperinsulinemia; (Mouse) (Ortlepp, J.R. (436) 145)

Metabolism

^{31}P Phosphorus magnetic resonance spectroscopy; Heart, isolated, working; Ischemia; Diabetes, type 2; Glibenclamide; K_{ATP} channel (Legtenberg, R.J. (434) 35)

Metabolite

Haloperidol; Nicergoline; Glutathione; Reactive oxygen species (Vairetti, M. (453) 69)

Metal ion

Noncompetitive inhibition; Nicotinic receptor modulation; *Xenopus* oocyte (Rangel-González, F.J. (441) 15)

Metalloocene

Ehrlich ascites tumour; Titanocene Dichloride; Myelopoiesis; Bis-cyclopentadienylditiocyanatetitanium (IV) (Valadares, M.C. (439) 35)

Metalloporphyrin

Heme oxygenase; Guanylate cyclase; cGMP; Glutamate; Null-mutant (Li, X. (450) 43)

Metalloproteinase

Acetylsalicylic acid; Adenocarcinoma (Karna, E. (443) 1)

Metallothionein

Endotoxin; Zn^{2+} level; Oxidative stress; Ca^{2+} ; Nitric oxide (NO) (Sakaguchi, S. (451) 309)

Metal nitrosyl complex

Nitroglycerin; Nitric oxide (NO); Capacitance vessel; Vasodilator; MCFP (Poon, K.S. (436) 107)

Metastasis

Penta-*O*-galloyl- β -D-glucose; Invasion; MMP-9 (matrix metalloproteinase-9); AP-1 (activator protein-1); Sp-1 (Ho, L.-L. (453) 149)

[Met⁵]enkephalin-Arg-Gly-Leu

Opioid peptide; Antinociception; Peptidase inhibitor (Kanai, M. (453) 53)

D-Methamphetamine

Nitric oxide (NO); Conditioned place preference (Li, S.-M. (443) 205)

D-methamphetamine

Conditioned place preference; Nitric oxide (NO); 7-Nitroindazole; Reward (Li, S.-M. (435) 217)

L-methamphetamine

Parkinson's disease; Rasagiline; Selegiline; 1-*R*-aminoindan; Neurotoxicity; Neuroprotection; Oxygen-glucose deprivation (Abu-Raya, S. (434) 109)

Methamphetamine

Conditioned fear stress; Amygdala; Dopamine; Sensitization (Suzuki, T. (435) 59)

Aging; Tolerance; Hyperthermia; Striatum; Dopamine transporter (Riddle, E.L. (435) 181)

5-HT_{2A} receptor; Cocaine; DOI; Ketanserin; Drug discrimination, (Rat) (Munzar, P. (436) 75)

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Morphine; Nicotine receptor; Drug addiction (Glick, S.D. (438) 99)

Drug self-administration; Neuroadaptation; Dopamine; (Rat) (Stefanski, R. (439) 59)

[³H]GBR 12935; Benzodiazepine receptor, peripheral-type; HSP27; Carnosine; [³H]Paroxetine (Pubill, D. (448) 165)

VMAT-2 (vesicular monoamine transporter-2); Cocaine; Trafficking; (Rat) (Riddle, E.L. (449) 71)

Methanandamide

Cannabinoid; Sympathetic neurotransmission; Sensory nerve; Mesenteric arterial bed, rat; Capsaicin (Ralevic, V. (444) 171)

Methotrexate

MX-68; Antifolate; Polyglutamation; Dihydrofolate reductase; Arthritis model (Urakawa, K. (435) 237)

MRL/lpr mouse; Pulse therapy weekly; Survival; Myelosuppression (Asanuma, Y. (435) 253)

18-Methoxycoronaridine

Dextromethorphan; Mecamylamine; Morphine; Methamphetamine; Nicotine receptor; Drug addiction (Glick, S.D. (438) 99)

Dextromethorphan; Mecamylamine; Bupropion; Nicotine; Nicotine receptor; Drug addiction (Glick, S.D. (448) 185)

Methoxy-idazoxan

α_2 -Adrenoceptor; Sympathetic nerve activity; Blood pressure; Rostral ventrolateral medulla; Clonidine (Vayssettes-Courchay, C. (453) 287)

5-Methoxynicotine

Nicotinic receptor; (–)-Nicotine; 5-Bromonicotine; In vitro model; In vivo model (Dukat, M. (435) 171)

MGC-803 cell

Arsenite; Reactive oxygen species; α -tocopherol; Apoptosis; Ca^{2+} , intracellular (Chen, A. (448) 11)

 Mg^{2+} concentration

Amiloride; Mag-fura 2; Kidney; Nitric oxide (NO) (Ikari, A. (451) 133)

 Mg^{2+} , low

Cortical slice; Epileptiform activity; NMDA receptor antagonist, low-affinity (Naish, H.J. (443) 79)

mGlu receptor

Epilepsy; NMDA receptor antagonist; AMPA receptor antagonist; Anti-epileptic drug (De Sarro, G. (451) 55)

mGlu₂ receptor agonist

Stress-induced hyperthermia; Anxiolytic; Benzodiazepine; Buspirone; Tachykinin; mGlu₅ receptor antagonist; ACTH (adrenocorticotrophic hormone); Corticosterone (Spooren, W.P.J.M. (435) 161)

mGlu₅ receptor antagonist

Stress-induced hyperthermia; Anxiolytic; Benzodiazepine; Buspirone; Tachykinin; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone); Corticosterone (Spooren, W.P.J.M. (435) 161)

MHC- β (myosin heavy chain- β)

Neuropeptide Y; (Rat); Cardiomyocyte; Hypertrophy; Protein turnover; Receptor subtype; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); Skeletal- α -actin (Nicholl, S.M. (441) 23)

Mianserin

Animal model; Depression, endogenous; 5-HT (5-hydroxytryptamine, serotonin); REM (rapid eye movement) sleep; mCPP (Mavanji, V. (455) 35)

Mibefradil

Uterus; Ca^{2+} channel (Asokan, K.T. (455) 65)

MicroAct

Scratching behavior; Compound 48/80; Histamine; 5-HT (5-hydroxytryptamine, serotonin); Mast cell (Inagaki, N. (448) 175)

Microcirculation

Hyperglycemia; Streptozotocin; Acetylcholine; Sodium nitroprusside; Nitric oxide; Diabetes mellitus (van Dam, B. (455) 43)

Microdialysis

5-HT (5-hydroxytryptamine, serotonin); Venlafaxine; Antidepressant; Hippocampus; Hypothalamus; 5-HT_{1A} receptor; 5-HT_{1B} receptor (Gur, E. (436) 57)

Nucleus accumbens; Dopamine; Acamprosate; Homotaurine; Ethanol (Olive, M.F. (437) 55)

DOI; 5-HT₂ receptor; Renal hemodynamics; Nitric oxide (NO); Sarpogrelate (Tian, R.-X. (437) 79)

5-HT_{1B} autoreceptor; Hippocampus; Knockout mouse; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (De Groote, L. (439) 93)

Antidepressant; 5-HT (5-hydroxytryptamine, serotonin); 5-HT (5-hydroxytryptamine, serotonin) transporter; 5-HT_{1A} receptor; Learned helplessness test (Tordera, R.M. (442) 63)

Ethanol; Taurine; Glutamate; Alcohol sensitivity, high; Alcohol sensitivity, low (Quertemont, E. (444) 143)

Locus coeruleus; Dorsal raphe nucleus; Noradrenaline; 5-HT (5-hydroxytryptamine, serotonin) (Pudovkina, O.L. (445) 37)

5-Hydroxytryptamine (5-HT, serotonin); Anti-obesity agent; Serotonin uptake inhibitor; Amphetamine; Fenfluramine (Tao, R. (445) 69)

Adenosine, extracellular level; 6-Hydroxydopamine-lesion; Adenosine A_{2A} receptor mRNA; Striatum (Pinna, A. (446) 75)

Phendimetrazine; Phenmetrazine; Dopamine; Norepinephrine (Rothman, R.B. (447) 51)

Allosteric modulation; PD 81,723; Acetylcholine release; Adenosine A₁ receptor; Striatum (Bueters, T.J.H. (454) 177)

Microdialysis, intracerebral

Knock-out mouse; Fluoxetine; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective (Malagié, I. (443) 99)

Microglia

Glia; Ca^{2+} ; ATP; Purinoreceptor; Astrocyte; Oligodendrocyte; Axon; Signalling (James, G. (447) 247)

Anti-inflammatory; Lipopolysaccharide; Cholinesterase inhibitor; Rat; Alzheimer's disease (Wenk, G.L. (453) 319)

Microphysiometer

Acid extrusion; P2Y purinoceptor; Na^+/H^+ exchanger (Okada, Y. (455) 19)

Microsomal triglyceride transfer protein

Pitavastatin; 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor; Model of postprandial lipemia; Lymph chylomicron (Aoki, T. (444) 107)

Micturition reflex

Muscarinic receptor antagonist; Urinary bladder; Bradycardia; Salivation (Hirose, H. (452) 245)

Midaglizole

K_{ATP} channel; Kir6.2; Imidazoline; Diabetes; Insulin secretion (Proks, P. (452) 11)

Middle cerebral artery occlusion

β -Adrenoceptor; Astrocyte; Hippocampal neuron; Clenbuterol; Cerebral ischemia (Junker, V. (446) 25)

Stroke; Cerebral ischemia, focal; Thrombosis, photochemically induced; SHR (Stroke-prone spontaneously hypertensive rat); Prostacyclin (Karasa-wa, Y. (449) 127)

Middle meningeal artery

Coronary artery; Donitriptan; Human pharmacology; Migraine; Sumatriptan (van den Broek, R.W.M. (443) 125)

Midodrine

Adrenoceptor; α_{1A} -Adrenoceptor agonist; $\alpha_{1B/D}$ -Adrenoceptor antagonist; Urethra; ABT-866; Phenylpropanolamine; ST-1059 (Buckner, S.A. (449) 159)

Migraine

5-HT_{1F} receptor; Cloning; 5-HT (5-hydroxytryptamine, serotonin); Ligand binding; Sequencing; Trigeminal ganglion (Bhalla, P. (436) 23)

Coronary artery; Donitriptan; Human pharmacology; Middle meningeal artery; Sumatriptan (van den Broek, R.W.M. (443) 125)

Nitric oxide (NO); Meningeal artery, middle; Intravital microscopy; Trigeminal (Akerman, S. (452) 223)

Migraine pathogenesis

5-HT₇ receptor; Prophylactic drug; 5-HT (5-hydroxytryptamine, serotonin) (Terrón, J.A. (439) 1)

Milrinone

Penile artery; Penile vein; Rolipram; cAMP pathway (Segarra, G. (444) 103)

Mineralocorticoid hypertension

RU28318; Brain; Diuresis; Angiotensinogen (Rahmouni, K. (436) 207)

Mineralocorticoid receptor

Natriuresis; Aldosterone; Steroid conformation (Piwien-Pilipuk, G. (454) 131)

Mitochondrial K_{ATP} channel

High-energy phosphate; Ischemia/reperfusion injury; K_{ATP} channel opener; Mitochondrion; Nicorandil (Iwai, T. (446) 117)

Mitochondrion

Anti-ischemic molecule; Hypoxia; Respiration; Complex I; Endothelial cell (Bouaziz, N. (441) 35)

High-energy phosphate; Ischemia/reperfusion injury; K_{ATP} channel opener; Mitochondrial K_{ATP} channel; Nicorandil (Iwai, T. (446) 117)

Apoptosis; Antioxidant; Drug targeting (Dessolin, J. (447) 155)

Glutamate; Ca²⁺; Apoptosis; Necrosis; Motor neuron disease; Alzheimer's disease (Krieger, C. (447) 177)

Mitogen-activated kinase

Antioxidant; Atherosclerosis; Cell proliferation; Green tea catechin; LDL (low-density lipoprotein); Risk factor; Smooth muscle cell, vascular (Locher, R. (434) 1)

Mitogenesis

Endothelin; Ca²⁺ influx; Extracellular signal-regulated kinase (Kawanabe, Y. (435) 119)

Mitragynine

Opioid receptor; Central nervous system; Gastric acid secretion (Tsuchiya, S. (443) 185)

MK-801

Diabetes; Antinociception; NMDA receptor; μ -Opioid receptor; DAMGO ([D-Ala², N-MePhe⁴, Gly-ol⁵]enkephalin) (Zushida, K. (448) 39)

NMDA receptor; Naloxone; Addiction (Yeh, G.-C. (453) 197)

Ethanol; Dopamine; NMDA receptor; Locomotor activity (Hanania, T. (457) 125)

[³H](+)-MK-801

Glutamate; Nucleus accumbens; Cortex, prefrontal (Quadros, I.M.H. (442) 55)

MLC-2 (myosin light chain-2)

Neuropeptide Y; (Rat); Cardiomyocyte; Hypertrophy; Protein turnover; Receptor subtype; ANP (atrial natriuretic peptide); Skeletal- α -actin; MHC- β (myosin heavy chain- β) (Nicholl, S.M. (441) 23)

MMP-9 (matrix metalloproteinase-9)

Penta-O-galloyl- β -D-glucose; Metastasis; Invasion; AP-1 (activator protein-1); Sp-1 (Ho, L.-L. (453) 149)

MnTBAP

Meningitis; Oxidative stress; Peroxynitrite; Urate; Ascorbate (Kastenbauer, S. (449) 177)

Moclobemide

Paroxetine; Reboxetine; μ -Opioid receptor; δ -Opioid receptor; Chronic treatment (Vilpoux, C. (443) 85)

Model of postprandial lipemia

Pitavastatin; 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor; Lymph chylomicron; Microsomal triglyceride transfer protein (Aoki, T. (444) 107)

Modulation

Adenosine A₁ receptor; Adenosine A₁ receptor agonist; Allosteric; Temperature dependence; Binding thermodynamics (Dalpiaz, A. (448) 123)

Molecular chaperone

Catecholamine-regulated protein; D-Amphetamine; Desensitization, behavioural sensitization; Dopamine; Heat shock protein (Gabriele, J. (453) 13)

Molecular cloning

β_2 -Adrenoceptor; Radioligand binding; cAMP; Single nucleotide polymorphism (Oostendorp, J. (457) 1)

Molecular genetics

Pharmacology; Voltage-dependent calcium channel (Jones, O.T. (447) 211)

Molecular modeling

Bile acid; Inositol phosphate formation; MAP (mitogen activated protein) kinase (p44/p42) phosphorylation; Muscarinic receptor; Radioligand binding (Raufman, J.-P. (457) 77)

Molsidomine

Nitric oxide (NO); 4-Aminopyridine; N^G-nitro-L-arginine; Seizure; Epilepsy (Tutka, P. (437) 47)

Nitric oxide (NO); L-NAME (N^G-nitro-L-argininemethylester); Recognition memory, rat (Pitsikas, N. (452) 83)

6-Monoacetylmorphine

Diacetylmorphine degradation; Heroin; Morphine; Tissue culture (Hutchinson, M.R. (453) 27)

Monoamine oxidase

Norharman; Harman; Neuroprotection; Parkinson's disease (Rommelspacher, H. (441) 115)

Monoamine oxidase

Ischemia-reperfusion; Hydrogen peroxide; Kidney; Pargyline (Kunduzova, O.R. (448) 225)

Monoamine oxidase inhibitor

EEG (electroencephalogram); Neocortex; Acetylcholinesterase inhibitor; 5-HT receptor agonist; Scopolamine; Forebrain basal; (Rat) (Dringenberg, H.C. (447) 43)

Monocytic cell, human

Ambroxol; PDGF (Platelet-derived growth factor); ERK (p44/42 extracellular signal-regulated kinase) (Utsugi, M. (436) 47)

Monophosphoryl lipid A

CGRP (calcitonin gene-related peptide); Preconditioning; Ischemia-reperfusion; Capsaicin; Nitric oxide (NO) (Peng, J. (436) 89)

Morphine

Sterptozotocin-induced diabetes; Tail-flick; antinociception; Nimodipine; [³H]PN200-110; B_{max}; Saturation binding (Gullapalli, S. (435) 187)

Diclofenac; Apamin; Charybdotoxin; Glibenclamide; Pinacidil (Ortiz, M.I. (438) 85)

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Methamphetamine; Nicotine receptor; Drug addiction (Glick, S.D. (438) 99)

Naloxone; Cannabinoid; SR 141716; Alcohol intake; Sardinian alcohol-preferring (sP) rat (Vacca, G. (445) 55)

Naloxone; Naloxone methiodide; Respiration; Withdrawal (Lewanowitsch, T. (445) 61)

Opiate withdrawal; Opioid receptor; G-protein coupling; [³⁵S]GTPγS-binding (Kirschke, C. (446) 43)

Alcohol preference; Opioid receptor; Locomotor activity; (Selected rat line) (Soini, S.L. (448) 157)

Formalin test; Hot plate; Tail immersion; Nociception; Buprenorphine (Gilbert, A.-K. (449) 75)

Neuropeptide FF; 1DMe ([D-Tyr¹, (NMe)Phe³]NPFF); Analgesia; (Mouse); Tail flick (Quelven, I. (449) 91)

Conditioned place preference; Hippocampus; CA1; Nitric oxide (NO); L-Arginine; L-NAME (N^G-nitro-L-arginine methyl ester); (Rat) (Karami, M. (449) 113)

Nitric oxide (NO); L-Arginine; L-NAME (N^G-nitro-L-arginine methyl ester); Conditioned place preference; Nucleus accumbens; (Rat) (Gholami, A. (449) 269)

Opioid; Sciatic nerve; Spinal cord (Kouya, P.F. (450) 49)

Tail-flick test; Analgesia; Naloxone; Supersensitivity; Nimodipine; B_{max}; [³H]PN200-110 binding (Gullapalli, S. (451) 271)

ω-Conotoxin; Neuropathic pain; Ca²⁺ channel, N-type (Scott, D.A. (451) 279)

Jumping; Dopamine receptor agent; Naloxone; (Mouse) (Zarrindast, M.-R. (451) 287)

L-Arginine; Conditioned place preference; Amygdala, central; Nitric oxide (NO); L-NAME (N^G-nitro-L-arginine methyl ester) (Zarrindast, M.R. (453) 81)

Cocaine; Dopamine; Conditioned place preference; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective; HPLC (High performance liquid chromatography); Radioligand binding (Deslandes, P.N. (453) 223)

Nerve injury, infraorbital; Allodynia, mechanical; F 13640; 5-HT_{1A} receptor; Baclofen (Deseure, K. (456) 51)

Diacetylmorphine degradation; Heroin; 6-Monoacetylmorphine; Tissue culture (Hutchinson, M.R. (453) 27)

Morphine antinociception

Acamprosate; Morphine dependence; Abstinence syndrome (Sepúlveda, J. (445) 87)

Morphine dependence

Acamprosate; Morphine antinociception; Abstinence syndrome (Sepúlveda, J. (445) 87)

Morphine withdrawal

Hypothalamus–pituitary–adrenocortical axis; PKA (protein kinase A); PKC (protein kinase C); Corticosterone; Noradrenaline turnover; Dopamine turnover (Cerezo, M. (452) 57)

AM404; Anandamide (Del Arco, I. (454) 103)

Mortality

KF24345; Adenosine; Uptake inhibition; Pancreatitis, acute; TNF-α (tumor necrosis factor-α) (Noji, T. (454) 85)

Mossy fibre synapse

Dendritic spine; Ca²⁺ compartmentalisation; CA3 pyramidal neuron (Reid, C.A. (447) 173)

Motoneuron

2,2'-Pyridylisatogen; Immine oxide; Spin trap; ATP receptor antagonist; P2Y receptor; Neuroprotection; AMPA receptor (Menton, K. (444) 53)

Motor activity

Alcohol; Amphetamine; Dopamine (D'Aquila, P.S. (435) 67)

Dopamine; Dopamine D1 receptor; SKF 81297; Grooming; Attention-deficit hyperactivity disorder (Heijtz, R.D. (445) 97)

Motor neuron disease

Glutamate; Ca²⁺; Mitochondrion; Apoptosis; Necrosis; Alzheimer's disease (Krieger, C. (447) 177)

Mouse model

Eotaxin; Allergic asthma; Eosinophils (Scheerens, J. (453) 111)

Movement disorder

Basal ganglion; Dyskinesia; Striatum (Hamann, M. (443) 59)

Cannabinoid; Basal ganglia; Dystonia (Richter, A. (454) 145)

MPTP (1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine)

Neurotoxin; (TaClo) 1-Trichloromethyl-1,2,3,4-tetrahydro-β-carboline; Carboline; Parkinson's disease (Riederer, P. (442) 1)

MPTP-treated primate

GBR 12909; Dyskinesia; Dopamine reuptake inhibition; Parkinson's disease (Hansard, M.J. (451) 157)

Mrl/lpr mouse

Benzodiazepine receptor, peripheral; SSR 180575; Rheumatoid arthritis; Chondrocyte (Bribes, E. (452) 111)

MRL/lpr mouse

Methotrexate; Pulse therapy weekly; Survival; Myelosuppression (Asanuma, Y. (435) 253)

mRNA

Diamine oxidase (histaminase); Histamine N-methyltransferase; Expression pattern; Histaminergic signal transmission; Peripheral tissues (Kitanaka, J. (437) 179)

MRP (multidrug resistance-associated protein)

Budesonide; Calu-1 cell (Bandi, N. (437) 9)

Active efflux; P-glycoprotein; Glutathione; Taxol; PSC-833; Verapamil; MDR1 (Crowe, A. (440) 7)

MRZ 2/579

Amantadine; Kidney; Memantine; MRZ 2/600; MRZ 2/615; Organic cation transport (Fourie, J. (452) 1)

MRZ 2/600

Amantadine; Kidney; Memantine; MRZ 2/579; MRZ 2/615; Organic cation transport (Fourie, J. (452) 1)

MRZ 2/615

Amantadine; Kidney; Memantine; MRZ 2/579; MRZ 2/600; Organic cation transport (Fourie, J. (452) 1)

Msx2

Osteoblast differentiation; Alkaline phosphatase; Growth factor; TAK-778 (Gotoh, M. (451) 19)

4-MTA (4-methylthioamphetamine)

4-MTMA (4-methylthiomethamphetamine); MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Reuptake; Synaptosome; Aortic contraction (Murphy, J.E.J. (444) 61)

4-MTMA (4-methylthiomethamphetamine)

4-MTA (4-methylthioamphetamine); MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Reuptake; Synaptosome; Aortic contraction (Murphy, J.E.J. (444) 61)

MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide)

β -Amyloid; Alzheimer's disease; Akt; Long-term potentiation; Hippocampus; RS-0466 (Nakagami, Y. (457) 11)

Mucus

Blood flow; Glutathione; Nicotine; Prostaglandin E₂; Gastric ulcer (Wong, D. D. (434) 81)

Gossypol; Colon; Cl⁻ secretion; Tight junction (Kuhn, G. (457) 187)

Multidrug resistance

Cyclophosphamide; HL-60; CYP1B1; RT-PCR (reverse transcriptase–polymerase chain reaction); PCR (polymerase chain reaction), real-time; β -Actin; Cytotoxicity (Xie, H.-J. (449) 197)

Multidrug resistance gene

Epilepsy; Pharmacoresistance; Antiepileptic drug (Seegers, U. (451) 149)

Multidrug resistance protein

K⁺ channel; Small-cell lung cancer, human; Protein kinase C (Sakai, H. (435) 125)

Multivalent cation block

P2X₂ receptor; Ion channel; Ca²⁺; Site-directed mutagenesis; *Xenopus* oocyte (Nakazawa, K. (449) 207)

Muscarine

SH-SY5Y neuroblastoma; σ Receptor; Ca²⁺, intracellular; (+)-Pentazocine; Haloperidol (Hong, W. (436) 35)

Muscarinic acetylcholine receptor agonist

Somatostatin; Gastric acid secretion; Histamine release; Gastric parietal cell; Enterochromaffin-like cell; Stomach, isolated, mouse (Komasaka, M. (452) 235)

Muscarinic M₁ receptor

Pteropodine; Isopteropodine; Heteroyohimbine-type oxindole alkaloid; 5-HT₂ receptor; *Xenopus* oocyte (Kang, T.-H. (444) 39)

Muscarinic M₃ receptor

Acetylcholine; Pulmonary artery, rat; Nitric oxide (NO); MAP (mitogen-activated protein) kinase (Choy, W.Y. (434) 55)

Muscarinic receptor

Ca²⁺ channel, voltage-sensitive; Detrusor smooth muscle; G-protein; Purinergic receptor; Dihydropyridine (Kajioka, S. (443) 19)

Bile acid; Inositol phosphate formation; MAP (mitogen activated protein) kinase (p44/p42) phosphorylation; Molecular modeling; Radioligand binding (Raufman, J.-P. (457) 77)

Muscarinic receptor antagonist

Antipsychotic drug; Striatum; Muscle rigidity; (EMG) Electromyogram (Hemsley, K.M. (434) 117)

Urinary bladder; Micturition reflex; Bradycardia; Salivation (Hirose, H. (452) 245)

Muscarinic receptor subtype

Dopamine D1-like receptor; cAMP; Nucleus accumbens (Onali, P. (448) 105)

Muscle relaxant

Acetylcholine receptor; Interaction; Isobologram; Potency; *Xenopus* oocyte (Paul, M. (438) 35)

Muscle relaxation

Spinal reflex; Imidazoline receptor; Tizanidine (Honda, M. (445) 187)

Muscle rigidity

Muscarinic receptor antagonist; Antipsychotic drug; Striatum; (EMG) Electromyogram (Hemsley, K.M. (434) 117)

Mutagenesis

GABA receptor; Benzodiazepine (Wingrove, P.B. (437) 31)

Mutation

Desensitization; Phosphorylation; Protein kinase C (Liang, M. (437) 41)

MX-68

Antifolate; Methotrexate; Polyglutamation; Dihydrofolate reductase; Arthritis model (Urakawa, K. (435) 237)

Myeloperoxidase activity

Gastric ulcer; Ulcer healing, chronic; Nonsteroidal anti-inflammatory drugs; Prostaglandin; Immunohistochemistry (Berenguer, B. (442) 125)

Myelopoiesis

Ehrlich ascites tumour; Metallocene; Titanocene Dichloride; Bis-cyclopentadienylditiocyanatetitanium (IV) (Valadares, M.C. (439) 35)

Myelosuppression

Methotrexate; MRL/lpr mouse; Pulse therapy weekly; Survival (Asanuma, Y. (435) 253)

Myocardial infarction

Heart failure; Remodeling; Vasopressin receptor antagonism (Van Kerckhoven, R. (449) 135)

Preconditioning, delay; Adenosine; Nitric oxide (NO) donor (Lellouche, N. (450) 179)

Ca²⁺ channel, cardiac; Calpain system (Sandmann, S. (453) 99)

Myocardial infarct size

Indole derivative; Cardioprotection; Ischemia–reperfusion; Malondialdehyde; Free radical scavenger (Andreadou, I. (453) 271)

Myocardial ischemia

L-*cis* Diltiazem; K^+ accumulation; Ca^{2+} channel blocker (Sato, R. (434) 125)

Nicorandil; Aprikalim; K_{ATP} channel, mitochondrial; Coronary occlusion; Reperfusion arrhythmia (Das, B. (437) 165)

Myocyte

HMG-CoA reductase inhibitor; Cardiac hypertrophy; Endothelin; Rho protein (Nishikimi, T. (453) 175)

Myocyte shortening

Anisodamine; Ca^{2+} intracellular; Nitric oxide (NO); Cholinoceptor (Norby, F.L. (439) 21)

Myosin light-chain kinase

Smooth muscle, Arteriolar; Pervanadate; Tyrosine phosphorylation; Ca^{2+} ; Nifedipine; Verapamil (Murphy, T.V. (442) 107)

Mystixin

Hyaluronic acid; Hyaluronan; Edema; Inflammation (Stair, S. (450) 291)

NAAG (N-acetylasparylglutamate)

Glutamate receptor metabotropic; Neonatal hypoxia-ischemia; cAMP; L-AP4 (L-(+)-2-amino-4-phosphonobutyric acid); *t*-ACPD (*trans*-[1S,3R]-1-Amino-cyclopentane-1,3-dicarboxylic acid) (Cai, Z. (437) 139)

N-acetylcysteine

Tolerance; Nitroglycerin; CGRP (calcitonin gene-related peptide); Captopril (Zhou, Z.-H. (439) 129)

N-acetyl-L-cysteine

Pepstatin A; Stellate cell; Cathepsin D; IGF-I (insulin-like growth factor-I); PDGF (platelet-derived growth factor) (Takashima, T. (451) 265)

 $^{22}Na^+$ flux

Na^+ channel; K^+ channel; Antidepressant; Imipramine; Patch clamping (Nicholson, G.M. (452) 35)

 Na^+ channel

Remacemide; Desglycyl-remacemide; Antiepileptic drug; Synaptosome, Rat (Santangeli, S. (438) 63)

K^+ channel; Antidepressant; Imipramine; Patch clamping; $^{22}Na^+$ flux (Nicholson, G.M. (452) 35)

Scorpion neurotoxin; BmK abT; Receptor binding site; BIAcore assay (Ji, Y.-H. (454) 25)

 Na^+ channel blocker

Halothane; Ca^{2+} channel blocker; Hypoxia; Nitric oxide (NO) synthesis; Cerebral cortex (Oka, M. (452) 175)

 Na^+ channel, tetrodotoxin-resistant

Ca^{2+} channel, high-threshold; Neomycin; Whole-cell patch recording; Pain (Zhou, Y. (450) 29)

 Na^+ Fractional excretion

Amiloride; Li^+ clearance; NHE3; Proximal tubular reabsorption (Thomsen, K. (437) 85)

 Na^+/H^+ exchanger

Platelet swelling assay (Marala, R.B. (451) 37)

Acid extrusion; Microphysiometer; P2Y purinoceptor (Okada, Y. (455) 19)

 Na^+-K^+ -ATPase

Cl^- channel; Ca^{2+} , intracellular; K^+ channel; NO; Colon, rat (Schultheiss, G. (444) 21)

Naloxone

Morphine; Cannabinoid; SR 141716; Alcohol intake; Sardinian alcohol-preferring (sP) rat (Vacca, G. (445) 55)

Morphine; Naloxone methiodide; Respiration; Withdrawal (Lewanowitsch, T. (445) 61)

Tail-flick test; Analgesia; Morphine; Supersensitivity; Nimodipine; B_{max} ; [3H]PN200-110 binding (Gullapalli, S. (451) 271)

Jumping; Dopamine receptor agent; Morphine; (Mouse) (Zarrindast, M.-R. (451) 287)

NMDA receptor; Addiction; MK-801 (Yeh, G.-C. (453) 197)

Naloxone methiodide

Morphine; Naloxone; Respiration; Withdrawal (Lewanowitsch, T. (445) 61)

Naltrexone

μ -Opioid receptor; Receptor up-regulation; Constitutive internalization; Dynamins-2; G-protein receptor kinase-2 (Patel, M. (446) 37)

Naltrindole derivative

δ -Opioid receptor, subtype; Chinese hamster ovary (CHO) cell; Binding; [^{35}S]GTP γ S (Parkhill, A.L. (451) 257)

L-NAME (N^G -nitro-L-arginine methyl ester)

Morphine; Conditioned place preference; Hippocampus; CA1; Nitric oxide (NO); L-Arginine; (Rat) (Karami, M. (449) 113)

Morphine; Nitric oxide (NO); L-Arginine; Conditioned place preference; Nucleus accumbens; (Rat) (Gholami, A. (449) 269)

Cyclosporin A; NO (nitric oxide); L-Arginine; Opioid dependence-tolerance; Antinociception; (Mouse) (Homayoun, H. (452) 67)

Morphine; Conditioned place preference; Nitric oxide (NO); Amygdala, central; L-Arginine (Zarrindast, M.R. (453) 81)

L-NAME (N^{ω} -nitro-L-arginine-methyl ester)

Cerebral ischemia, transient focal; Neurological deficit; Blood-brain barrier disruption; Nitric oxide (NO) (Ding-Zhou, L. (457) 137)

L-NAME (N^{ω} -nitro-L-argininemethyl ester)

Nitric oxide (NO); Molsidomine; Recognition memory, rat (Pitsikas, N. (452) 83)

NAN-190

Hypotension; Rat, anaesthetized; Rat, pithed; α_1 -Adrenoceptor, vascular (Villalobos-Molina, R. (455) 59)

($\pm$)-Nantenine derivatives

α_1 -Adrenoceptor; Aorta, rat (Indra, B. (437) 173)

Naproxen

NS-398; Aspirin; Indomethacin; Nimesulide; Ibuprofen (Burde, T. (453) 167)

Narcolepsy

Orexin; Hypocretin; SB-334867; Feeding; Sleep-wake cycle (Smart, D. (440) 199)

Nasal allergic sign

Histamine H₁ receptor; Thromboxane A₂; Leukotriene (Kayasuga, R. (449) 287)

Nasal irritation

Smoke; Hyperreactivity; Tachykinin; Cholinergic reflex (Ho, C.-Y. (436) 127)

Nasal mucosa

Histamine H₃ receptor; Porcine; Sympathetic; Thioperamide (Varty, L.M. (452) 339)

Nateglinide

Pancreatic β -cell, rat; K_{ATP} channel; Glucose sensitivity; Metabolic inhibition (Hu, S. (442) 163)

Natriuresis

Mineralocorticoid receptor; Aldosterone; Steroid conformation (Piwien-Pilipuk, G. (454) 131)

NBQX

Freund's adjuvant; LY382884; NS-102; Q/R editing; (Rat); Kainate receptor; Hyperalgesia (Guo, W. (452) 309)

NECA (5'-N-ethylcarboxamidoadenosine)

Ethanol; Nitric oxide (NO); Blood pressure; Radiotelemetry; Aorta (Rekik, M. (452) 205)

N1E-115 cell

Melatonin; Vitamin C; Okadaic acid; Oxidative stress; Antioxidant enzyme (Montilla-López, P. (451) 237)

Necrosis

Glutamate; Ca²⁺; Mitochondrion; Apoptosis; Motor neuron disease; Alzheimer's disease (Krieger, C. (447) 177)

Nefopam

c-Fos; Formol; Noxious heat; Spinal dorsal horn (Buritova, J. (441) 67)

Nematode

(*Ascaris*); Cl⁻ channel; FaRP; PF4 (Purcell, J. (456) 11)

Neocortex

EEG (electroencephalogram); Acetylcholinesterase inhibitor; Monoamine oxidase inhibitor; 5-HT receptor agonist; Scopolamine; Forebrain basal; (Rat) (Dringenberg, H.C. (447) 43)

Ca²⁺; Ca²⁺ indicator; Fluorescence; Dendrite; Two-photon; In vivo; Olfactory bulb (Helmchen, F. (447) 119)

Neocortex, rat

Baclofen; SKF 97541; Positive modulator; Fendiline; Prenylamine (Kerr, D.I.B. (451) 69)

Neomycin

Ca²⁺ channel, high-threshold; Whole-cell patch recording; Na⁺ channel, tetrodotoxin-resistant; Pain (Zhou, Y. (450) 29)

Neonatal (chick)

Ghrelin; Intracerebroventricular injection; Feeding (Saito, E.-s. (453) 75)

Neonatal hypoxia-ischemia

NAAG (*N*-acetylaspartylglutamate); Glutamate receptor metabotropic; cAMP; L-AP4 (L-(+)-2-amino-4-phosphonobutyric acid); *t*-ACPD (*trans*-[1S,3R]-1-Amino-cyclopentane-1,3-dicarboxylic acid) (Cai, Z. (437) 139)

Neonatal rat

Rearing; NMDA receptor; D-cycloserine; (Adult rat); Discrimination task (Strømme Johannesen, T. (437) 73)

Nepadutant

Sephadex; Airway hyperreactivity; Neurokinin A; Substance P; Tachykinin receptor; MEN 11467; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Nephritis

Beraprost sodium; Prostacyclin; Renal dysfunction; Anti-glomerular basement membrane; MCP-1 (monocyte chemoattractant protein-1); Collagen (Yamada, M. (449) 167)

Nerve

Diabetes mellitus; Brain; Neuron; Ca²⁺; Pathogenesis; Treatment; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

Nerve growth factor

Nisoxetine; Norepinephrine transporter; Withdrawal time; Intermittent; Dopamine uptake (Kantor, L. (451) 27)

Nerve injury, infraorbital

Allodynia, mechanical; F 13640; 5-HT_{1A} receptor; Baclofen; Morphine (Deseure, K. (456) 51)

Nerve terminal

Adenosine; A_{2A} receptor; Hippocampus; Acetylcholine release; Synaptosome (Rebola, N. (454) 31)

Neuroadaptation

Methamphetamine; Drug self-administration; Dopamine; (Rat) (Stefanski, R. (439) 59)

MDMA; *p*-Chlorophenylalanine; 5-HT; Serotonin transporter (Boot, B.P. (453) 239)

Neuroblastoma

Apoptosis; Glutathione; Dopamine receptor; Parkinson's disease (Uberti, D. (434) 17)

Neurodegeneration

ATP; P2X7; Interleukin-1 (Le Feuvre, R. (447) 261)

Dopamine receptor agonist; Parkinson's disease; Antioxidant; Neuroprotection (Lombardi, G. (457) 95)

Kynurenine; Quinolinic acid; Kynurenic acid; Glutamate; Neuroprotection (Stone, T.W. (447) 285)

Nimesulide; Cerebral ischemia; Delayed neuronal death; Hippocampal CA1 sector; Neuroprotection (Candelario-Jalil, E. (453) 189)

Neurohypophysis

Baclofen; Lipopolysaccharide; Interleukin-6; cAMP; GABA_B receptor antagonist; Pituicyte (Kjeldsen, T.H. (451) 209)

Neurokinin A

Urinary bladder; Tachykinin; Phosphoramidon; Neutral endopeptidase; Urothelium (Warner, F.J. (438) 171)

Sephadex; Airway hyperreactivity; Substance P; Tachykinin receptor; Nepadutant; MEN 11467; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Neurokinin B

Tachykinin NK₁ receptor, short; Tachykinin NK₁ receptor, long; Tachykinin NK₄ receptor (Page, N.M. (437) 27)

Neuroleptic

Schizophrenia; Extrapyramidal side-effect; Catalepsy; Antipsychotic; Dopamine D2 receptor; 5-HT_{1A} receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

Cyamemazine; Serotonin; 5-HT_{2A} receptor; Atypical neuroleptic (Alvarez-Guerra, M. (454) 235)

Neurological deficit

Cerebral ischemia, transient focal; Blood–brain barrier disruption; Nitric oxide (NO); L-Name (*N*^ω-nitro-L-arginine-methylester) (Ding-Zhou, L. (457) 137)

Neuromodulation

Nitric oxide (NO) synthase; 5-HT (5-hydroxytryptamine, serotonin) (Linden, D.R. (436) 53)

Neuron

Diabetes mellitus; Nerve; Brain; Ca²⁺; Pathogenesis; Treatment; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

K⁺ channel; Ca²⁺; SK channel; Dequalinium; Afterhyperpolarization (Cao, Y.-J. (449) 47)

Neuronal injury, Acute

p38 MAP Kinase; Cell culture; Neuroprotection; Ischemic cell death; Excitotoxicity (Legos, J.J. (447) 37)

Neuronal culture

Conantokin-G; Staurosporine (Williams, A.J. (452) 135)

Neuronal survival

Endoplasmic reticulum; Ca²⁺ signalling; Ca²⁺ binding protein; Unfolded protein response; Endoplasmic reticulum overload response; Chaperone (Verkhatsky, A. (447) 141)

Neuropathic pain

Formalin test; Hyperalgesia; Inflammation; Ion channels (Blackburn-Munro, G. (445) 231)

Allodynia; Nociceptin/orphanin FQ; ORL1 receptor splice variant (Briscini, L. (447) 59)

ω-Conotoxin; Morphine; Ca²⁺ channel, N-type (Scott, D.A. (451) 279)

Torment acid; Triterpene pentacyclic; Inflammatory pain; Allodynia (Bortalanza, L.B. (453) 203)

Neuropathy

Diabetes mellitus; Nerve; Brain; Neuron; Ca²⁺; Pathogenesis; Treatment; Encephalopathy (Biessels, G.J. (447) 201)

Neuropeptide

Melanocortins; Melanocortin receptor; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); POMC (proopiomelanocortin); Energy homeostasis; Obesity; Sexual function (MacNeil, D.J. (440) 141)

Neuropeptide FF

1DMe ([D-Tyr¹,(NMe)Phe³]NPFF); Morphine; Analgesia; (Mouse); Tail flick (Quelven, I. (449) 91)

Neuropeptide Y; BIBP3226; BIBO3304; G-protein coupled receptor; cAMP assay; Neuropeptide Y Y₁ receptor antagonist (Mollereau, C. (451) 245)

Neuropeptide receptor, neuropeptide Y

Neuropeptide Y; Obesity; Anti-obesity agent (Parker, E. (440) 173)

Neuropeptide Y

Obesity; Neuropeptide receptor, neuropeptide Y; Anti-obesity agent (Parker, E. (440) 173)

(Rat); Cardiomyocyte; Hypertrophy; Protein turnover; Receptor subtype; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); Skeletal-α-actin; MHC-β (myosin heavy chain-β) (Nicholl, S.M. (441) 23)

Neuropeptide Y Y₁ receptor antagonist; Neuropeptide Y Y₂ receptor antagonist; BIBP3226; BIIE0246; Sympathetic; Vasoconstriction (Malmström, R.E. (447) 11)

Neuropeptide FF; BIBP3226; BIBO3304; G-protein coupled receptor; cAMP assay; Neuropeptide Y Y₁ receptor antagonist (Mollereau, C. (451) 245)

Neuropeptide Y Y₁ receptor antagonist

Neuropeptide Y; Neuropeptide Y Y₂ receptor antagonist; BIBP3226; BIIE0246; Sympathetic; Vasoconstriction (Malmström, R.E. (447) 11)

Neuropeptide FF; Neuropeptide Y; BIBP3226; BIBO3304; G-protein coupled receptor; cAMP assay (Mollereau, C. (451) 245)

Neuropeptide Y Y₂ receptor

BIIE0246; Prejunctional; Sympathetic transmission (Malmström, R.E. (439) 113)

Neuropeptide Y Y₂ receptor antagonist

Neuropeptide Y; Neuropeptide Y Y₁ receptor antagonist; BIBP3226; BIIE0246; Sympathetic; Vasoconstriction (Malmström, R.E. (447) 11)

Neuroprotectant

Animal model; Cannabinoid CB₁ receptor; Drug discrimination; (Rat) (De Vry, J. (457) 147)

Neuroprotection

Parkinson's disease; Rasagiline; Selegiline; 1-*R*-aminoindan; L-methamphetamine; Neurotoxicity; Oxygen–glucose deprivation (Abu-Raya, S. (434) 109)

Norharman; Harman; Monoamineoxidase; Parkinson's disease (Rommel-spacher, H. (441) 115)

Nimesulide; Cerebral ischemia; Delayed neuronal death; Hippocampal CA1 sector; Neurodegeneration (Candelario-Jalil, E. (453) 189)

Dopamine receptor agonist; Neurodegeneration; Parkinson's disease; Antioxidant (Lombardi, G. (457) 95)

2,2'-Pyridylisatogen; Imine oxide; Spin trap; Motoneuron; ATP receptor antagonist; P2Y receptor; AMPA receptor (Menton, K. (444) 53)

p38 MAP Kinase; Neuronal injury, acute; Cell culture; Ischemic cell death; Excitotoxicity (Legos, J.J. (447) 37)

Kynurenine; Quinolinic acid; Kynurenic acid; Glutamate; Neurodegeneration (Stone, T.W. (447) 285)

Striatum; Hippocampus; Quinolinic acid; Adenosine A_{2A} receptor (Tebano, M.T. (450) 253)

Neuroprotective agent

GABA_A receptor; GABA (γ -aminobutyric acid)-mimetic; Clomethiazole; Bicuculline (Nelson, R.M. (452) 255)

Neurosteroid

Cerebral cortex; Excitotoxicity; NMDA (*N*-methyl-D-aspartate); Organotypic slice culture (Shirakawa, H. (454) 165)

Pregnenolone sulfate; Nicotinic acetylcholine receptor; Catecholamine secretion; Adrenal chromaffin cell (Kudo, K. (456) 19)

Neurotensin

Antipsychotic; Conditioned avoidance behaviour; Haloperidol; NT69L (Hertel, P. (439) 107)

Neurotoxicity

Parkinson's disease; Rasagiline; Selegiline; 1-*R*-aminoindan; L-methamphetamine; Neuroprotection; Oxygen–glucose deprivation (Abu-Raya, S. (434) 109)

MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Ecstasy; Anxiety; (Rat) (Gurtman, C.G. (446) 89)

Chemical ischemia; Glutamate; σ Receptor ligand; Cortical culture (Kume, T. (455) 91)

Neurotoxin

(TaClO) 1-Trichloromethyl-1,2,3,4-tetrahydro- β -carboline; Carboline; Parkinson's disease; (MPTP) 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Riederer, P. (442) 1)

Neurotransmitter release

Synaptic transmission; Synaptic terminal; Ca²⁺ influx (Fedulova, S.A. (447) 163)

Neutral endopeptidase

Urinary bladder; Tachykinin; Neurokinin A; Phosphoramidon; Urothelium (Warner, F.J. (438) 171)

RB101; Aminopeptidase N; Enkephalin; Analgesia; C-fibre reflex (Benoist, J.-M. (445) 201)

Neutrophil

DMDI (1-(3',4'-dimethoxybenzyl)-6,7-dichloroisoquinoline); Respiratory burst; Signal transduction; Phospholipase D; MAP (Mitogen-activated protein) kinase; Ca²⁺ concentration, cellular-free (Wang, J.-P. (434) 9)

Ischemia–reperfusion; Oedema; Artery, mesenteric; Inflammation; Leukotriene B₄ (Souza, D.G. (440) 61)

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Histamine; Mast cell; Terfenadine; Ranitidine; Ketotifen; Reactive oxygen metabolite (Luk, H.H. (443) 197)

S-carboxymethylcysteine; FMLP (*N*-formyl-methionyl-leucyl-phenylalanine); Phospholipase C; Phosphatidyl inositol-specific (Ishii, Y. (449) 183)

Azithromycin; Human volunteer; Degranulation; Oxidative burst; Cytokine (Čulić, O. (450) 277)

Neutrophil adhesion

Endothelial dysfunction; Endothelium glycocalyx; Reperfusion injury; Heart, guinea-pig, isolated; Oxygen free radical (Kurzelewski, M. (434) 95)

Neutrophil elastase

Lung injury, acute; Respiratory distress syndrome, adult; Permeability; Edema (Kawabata, K. (451) 1)

Neutrophil functionality

Human, neutrophil; Formyl-peptide receptor (Dalpiaz, A. (436) 187)

Neutrophil, human

Formyl-peptide receptor; Neutrophil functionality (Dalpiaz, A. (436) 187/pg>

Newborn, rat

Prejunctional interaction; Angiotensin II; Bradykinin; Protein kinase C (Mota, A. (453) 265)

NF- κ B (nuclear factor- κ B)

RANTES; Bile acid; Chenodeoxycholic acid; Fibrate; PPAR α (peroxisome proliferator-activated receptor) (Hirano, Y. (448) 19)

Atherosclerosis; Inflammation; PPAR (peroxisome proliferator-activated receptor); EAhy926 cell (Rival, Y. (435) 143)

RNA, regulatory; PKR (RNA-dependent protein kinase); Lipopolysaccharide; Macrophage (De Lucca, F.L. (450) 85)

NG108-15 cell

GABA_B receptor; Ca²⁺ current; Ca²⁺ channel subtype; Transfection; Antisense (Easter, A. (440) 17)

N^G-nitro-L-arginine

Nitric oxide (NO); 4-Aminopyridine; Molsidomine; Seizure; Epilepsy (Tutka, P. (437) 47)

N^G-nitro-L-arginine methylester (L-NAME)

Theophylline; Nitric oxide (NO); L-Arginine; N^o-nitro-L-arginine (L-NA); Temperature (mouse) (Zarrindast, M.-R. (451) 63)

NHE3

Amiloride; Li⁺ clearance; Proximal tubular reabsorption; Na⁺ Fractional excretion (Thomsen, K. (437) 85)

1321N1 human astrocytoma cell

Lithium chloride; Bipolar mood disorder; Protein kinase C; Down regulation; Ca²⁺ mobilization, intracellular (Kurita, M. (442) 17)

Nicergoline

Haloperidol; Metabolite; Glutathione; Reactive oxygen species (Vairetti, M. (453) 69)

Nicorandil

Aprikalim; K_{ATP} channel, mitochondrial; Coronary occlusion; Myocardial ischemia; Reperfusion arrhythmia (Das, B. (437) 165)

High-energy phosphate; Ischemia/reperfusion injury; K_{ATP} channel opener; Mitochondrion; Mitochondrial K_{ATP} channel (Iwai, T. (446) 117)

(–)-Nicotine

Nicotinic receptor; 5-Bromonicotine; 5-Methoxynicotine; In vitro model; In vivo model (Dukat, M. (435) 171)

Nicotine

Blood flow; Glutathione; Mucus; Prostaglandin E₂; Gastric ulcer (Wong, D. (434) 81)

Behavioral sensitization; NMDA receptor; Nitric oxide (NO) (Shim, I. (443) 119)

Cell migration; Cell proliferation; Ornithine decarboxylase; K⁺ channel; Wound healing; Nicotine receptor (Shin, V.Y. (444) 115)

Adrenaline; Noradrenaline; Adrenal gland; (Rat); Nicotinic receptor (Yokotani, K. (446) 83)

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Bupropion; Nicotine receptor; Drug addiction (Glick, S.D. (448) 185)

Dorsal raphe nucleus ; 5-HT (5-Hydroxytryptamine), serotonin; GABA (γ -Aminobutyric acid) (Mihailescu, S. (452) 77)

Nicotine receptor

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Morphine; Methamphetamine; Drug addiction (Glick, S.D. (438) 99)

Nicotine; Cell migration; Cell proliferation; Ornithine decarboxylase; K^+ channel; Wound healing (Shin, V.Y. (444) 115)

18-Methoxycoronaridine; Dextromethorphan; Mecamylamine; Bupropion; Nicotine; Drug addiction (Glick, S.D. (448) 185)

Nicotinic acetylcholine receptor

$\alpha 7$ Subunit; Perforated patch-clamp; PC12 cell; GH4C1 cell; Recombinant expression (Virginio, C. (445) 153)

Neurosteroid; Pregnenolone sulfate; Catecholamine secretion; Adrenal chromaffin cell (Kudo, K. (456) 19)

Nicotinic acetylcholine receptor channel

Ginseng; Ginsenoside; *Xenopus* oocyte (Choi, S. (442) 37)

$\alpha 7$ Nicotinic receptor

5-HT₃ receptor; Cross-reactivity; Spiroazabicyclic (Broad, L.M. (452) 137)

Nicotinic receptor

(–)-Nicotine; 5-Bromonicotine; 5-Methoxynicotine; In vitro model; In vivo model (Dukat, M. (435) 171)

Nicotine; Adrenaline; Noradrenaline; Adrenal gland; (Rat) (Yokotani, K. (446) 83)

Tetrandrine; Ca^{2+} channel ligand, L-type; *Xenopus* oocyte (Slater, Y. (450) 213)

Nicotinic receptor modulation

Noncompetitive inhibition; *Xenopus* oocyte; Metal ion (Rangel-González, F.J. (441) 15)

Clomipramine; Cholinergic–serotonergic interaction; *Xenopus* oocyte; Mental depression (López-Valdés, H.E. (444) 13)

Nifedipine

Smooth muscle, Arteriolar; Pervanadate; Tyrosine phosphorylation; Ca^{2+} ; Verapamil; Myosin light-chain kinase (Murphy, T.V. (442) 107)

Ca^{2+} channel; Smooth muscle; Contraction; Binding; Vas deferens, rat (Verde, L.F. (443) 13)

Niflumic acid

Voltage-clamp; Flufenamic acid; HERG (ether-a-go-go related gene); Q–T syndrome, long (Malykhina, A.P. (452) 269)

Nimesulide

Pentoxifylline; Contractile response; Ileum; (Rat) (Kaya, T.T. (442) 147)

NS-398; Aspirin; Indomethacin; Ibuprofen; Naproxen (Burde, T. (453) 167)

Cerebral ischemia; Delayed neuronal death; Hippocampal CA1 sector; Neuroprotection; Neurodegeneration (Candelario-Jalil, E. (453) 189)

Cyclo-oxygenase; Nitric oxide (NO); Pain; RIII threshold (Sandrini, G. (450) 259)

Nimodipine

Sterptozotocin-induced diabetes; Morphine; Tail-flick; antinociception; [³H]PN200-110; B_{max} ; Saturation binding (Gullapalli, S. (435) 187)

Tail-flick test; Analgesia; Naloxone; Morphine; Supersensitivity; B_{max} ; [³H]PN200-110 binding (Gullapalli, S. (451) 271)

Nipradilol

PC12 cell; Apoptosis; Nitric oxide (NO); S-nitrosylation (Tomita, H. (452) 263)

Nisoxetine

Norepinephrine transporter; Withdrawal time; Intermittent; Nerve growth factor; Dopamine uptake (Kantor, L. (451) 27)

Nitrate

Penile erection; Penile diameter; Cavernous nerve; Electrical stimulation; Tolerance (Adachi, H. (445) 267)

Nitrate tolerance

Nitroglycerin; Iberiotoxin; K^+ channel (Gruhn, N. (446) 143))

[³H]Nitrendipine

Ca^{2+} channel, L-type; [³H]Diltiazem; Uterus, pregnant rat; Drotaverine (Tömösközi, Z. (449) 55)

Nitroergic nerve

Nitric oxide (NO); Sphincter; Trigone; Urethra (Noda, K. (456) 81)

Nitroergic relaxation

Heme oxygenase-2; Biliverdin reductase; Bile pigment; Carbon monoxide; Gastric fundus, pig (Colpaert, E.E. (457) 177)

Nitric oxide (NO)

Histamine H₁ receptor; Tachykinin NK₁ receptor; NMDA receptor; Hyperalgesia (Sakurada, S. (434) 29)

Acetylcholine; Pulmonary artery, rat; Muscarinic M₃ receptor; MAP (mitogen-activated protein) kinase (Choy, W.Y. (434) 55)

Sodium salicylate; Cyclooxygenase-2; Gastric mucosal damage; Ischemia–reperfusion; Adaptive gastroprotection (Peskar, B.M. (434) 65)

Estrogen; Raloxifene; Nitric oxide (NO) synthase, endothelial (Rahimian, R. (434) 141)

Retractor penis muscle, bovine; Catalase; Nitroxyl anion; Nitrovasodilator; Aorta, rat (Shahidullah, M. (435) 93)

Penile bulb; L-Arginine; Protein synthase inhibition; (Rat) (Burcin İsmailoglu, U. (435) 113)

D-methamphetamine; Conditioned place preference; 7-Nitroindazole; Reward (Li, S.-M. (435) 217)

CGRP (calcitonin gene-related peptide); Monophosphoryl lipid A; Preconditioning; Ischemia–reperfusion; Capsaicin (Peng, J. (436) 89)

Nitroglycerin; Metal nitrosyl complex; Capacitance vessel; Vasodilator; MCFP (Poon, K.S. (436) 107)

- Diabetes; Endothelial dysfunction; Superoxide; Superoxide dismutase; Tempol (Nassar, T. (436) 111)
- Cysteinyl-leukotriene receptor; Lung parenchyma, guinea-pig; Cyclooxygenase (Sakata, K. (436) 119)
- Electrode; Endothelial cell; Superoxide anion; Quinacrine; Superoxide dismutase (David-Dufilho, M. (436) 159)
- Mesaconitine; Aorta; Vasorelaxation; Aconiti tuber; (*Aconitum japonicum*); (Rat) (Mitamura, M. (436) 217)
- 4-Aminopyridine; N^G -nitro-L-arginine; Molsidomine; Seizure; Epilepsy Tutka, P. (437) 47)
- DOI; 5-HT₂ receptor; Renal hemodynamics; Sarpogrelate; Microdialysis (Tian, R.-X. (437) 79)
- Guanylyl cyclase; Artemisinin (Severina, I.S. (438) 69)
- c-GMP; Dopamine; L-DOPA (L-3,4-dihydroxyphenylalanine); Peroxynitrite; Striatum (Sanchez, J.J. (438) 79)
- Cerebral artery; Hypertension; K⁺ channel; Y-27632; Rho-associated kinase (Kitayama, J. (438) 153)
- Anisodamine; Myocyte shortening; Ca²⁺ intracellular; Cholinoceptor (Norby, F.L. (439) 21)
- Endothelium; Diabetes; 5-HT (5-hydroxytryptamine, serotonin); Cyclooxygenase; Renal artery, rabbit (Miranda, F.J. (439) 121)
- Penile erection; RhoA/Rho-kinase (Mills, T.M. (439) 173)
- Pain; Incision pain; Allodynia; SNAP (S-nitroso-N-acetylpenicillamine); Isosorbide; ODQ (1*H*-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one) (Prado, W.A. (441) 57)
- H₂O₂; Diabetes; Contraction; Catalase; Streptozotocin (Kobayashi, T. (441) 83)
- Behavioral sensitization; Nicotine; NMDA receptor (Shim, I. (443) 119)
- D-Methamphetamine; Conditioned place preference (Li, S.-M. (443) 205)
- Mesangial cell; Hep G2 cell; Cell death; Superoxide; Glutathione (Sumbayev, V.V. (444) 1)
- Cl⁻ channel; Ca²⁺, intracellular; K⁺ channel; Na⁺-K⁺-ATPase; Colon, rat (Schultheiss, G. (444) 21)
- Kidney, rat; Adrenomedullin; Vasodilation; EDHF (endothelium-derived hyperpolarizing factor) (Wangenstein, R. (444) 97)
- Ca²⁺ channel; Endothelium; Geissoschizine methyl ether; Aorta, rat; Vasorelaxation (Yuzurihara, M. (444) 183)
- Cholestasis; Nonadrenergic noncholinergic relaxation; Anococcygeus muscle; Opioid; (Rat) (Dehpour, A.R. (445) 31)
- Idoxifene; Estrogen (Christopher, T.A. (446) 137)
- Rutin; Wogonin; Quercetin; Lipopolysaccharide; Prostaglandin E₂ (Shen, S.-C. (446) 185)
- Nitric oxide (NO) donor; Nitrous oxide (N₂O); Light/dark exploration test; Anxiety (Li, S. (447) 75)
- Hypercapnia; Cerebral circulation; Arteriolar diameter; Pial arterioles; Guanylate cyclase; NMDA (*N*-methyl-D-aspartate); ODQ; SIN-1 (3-morpholininosynonimine) (Rosenblum, W.I. (448) 201)
- iNOS (inducible nitric oxide (NO) synthase); Cyclosporin A; Tacrolimus; Sulfasalazine; Colitis (Hämäläinen, M. (448) 239)
- Morphine; Conditioned place preference; Hippocampus; CA1; L-Arginine; L-NAME (N^G -nitro-L-arginine methyl ester); (Rat) (Karami, M. (449) 113)
- Morphine; L-Arginine; L-NAME (N^G -nitro-L-arginine methyl ester); Conditioned place preference; Nucleus accumbens; (Rat) (Gholami, A. (449) 269)
- Contractility; Inotropic agent; Endotoxaemia (Price, S. (449) 279)
- Nimesulide; Cyclo-oxygenase; Pain; RIII threshold (Sandrini, G. (450) 259)
- Gastric fundus; (Mouse); Photorelaxation; S-nitrosothiol; Thiol modulator; Glutathione (Ögülcü, N. (450) 267)
- Theophylline; L-Arginine; N^G -nitro-L-arginine methylester (L-NAME); N^o -nitro-L-arginine (L-NA); Temperature (mouse) (Zarrindast, M.-R. (451) 63)
- Amiloride; Mg²⁺ concentration; Mag-fura 2; Kidney (Ikari, A. (451) 133)
- Endothelin-1, big; Endothelin ET_B receptor; Diuresis; Hypertension (Konishi, F. (451) 177)
- Endotoxin; Zn²⁺ level; Oxidative stress; Metallothionein; Ca²⁺ (Sakaguchi, S. (451) 309)
- L-NAME (N^o -nitro-L-argininemethylester); Molsidomine; Recognition memory, rat (Pitsikas, N. (452) 83)
- Nitric oxide (NO) synthase 2; Bronchial hyperresponsiveness; Airway inflammation; SC-51 (Eynott, P.R. (452) 123)
- Ethanol; NECA (5'-*N*-ethylcarboxamidoadenosine); Blood pressure; Radiotelemetry; Aorta (Rekik, M. (452) 205)
- Migraine; Meningeal artery, middle; Intravital microscopy; Trigeminal (Akerman, S. (452) 223)
- Nipradilol; PC12 cell; Apoptosis; S-nitrosylation (Tomita, H. (452) 263)
- Morphine; Conditioned place preference; Amygdala, central; L-NAME (N^G -nitro-L-arginine methyl ester); L-arginine (Zarrindast, M.R. (453) 81)
- Bremazocine; κ -Opioid receptor; Peripheral antinociception; cGMP; Carrageenan (Amarante, L.H. (454) 19)
- Spinal nociception; Formalin test; Inflammation; Heat hyperalgesia; Spinal microdialysis (Gühring, H. (454) 153)
- Hyperglycemia; Microcirculation; Streptozotocin; Acetylcholine; Sodium nitroprusside; Diabetes mellitus (van Dam, B. (455) 43)
- Sphincter; Nitrenergic nerve; Trigone; Urethra (Noda, K. (456) 81)
- CA1 area; Hippocampus; Learning; Long-term potentiation; (Rat) (Hölscher, C. (457) 99)

Cerebral ischemia, transient focal; Neurological deficit; Blood–brain barrier disruption; L-Name (*N*^o-nitro-L-arginine-methylester) (Ding-Zhou, L. (457) 137)

Nitric oxide (NO) donor

Sildenafil; Non-nitric oxide (NO) donor; Vasodilation; cGMP; Coronary artery, porcine (Sakuma, I. (437) 155)

Nitric oxide (NO); Nitrous oxide (N₂O); Light/dark exploration test; Anxiety (Li, S. (447) 75)

Preconditioning, delay; Myocardial infarction; Adenosine (Lellouche, N. (450) 179)

Nitric oxide (NO) scavenger

Dopamine uptake; Carboxy-PTIO (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide); Carboxy-PTI (2-(4-carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl) (Cao, B.-J. (448) 27)

Nitric oxide (NO) signaling

Nitric oxide (NO) synthase; Parotid gland; Amylase secretion (Rosignoli, F. (439) 27)

Nitric oxide (NO) synthase

5-HT (5-hydroxytryptamine, serotonin); Neuromodulation (Linden, D.R. (436) 53)

Parotid gland; Amylase secretion; Nitric oxide (NO) signaling (Rosignoli, F. (439) 27)

Allergic rhinitis; Eosinophil; 1400 W; Eotaxin; Chemotaxis (Ferreira, H.H.A. (442) 155)

Hyperthermia; Circulatory failure (Sachidhanandam, S.B. (450) 163)

Nitric oxide (NO) synthase 2

Nitric oxide (NO); Bronchial hyperresponsiveness; Airway inflammation; SC-51 (Eynott, P.R. (452) 123)

Nitric oxide (NO) synthase, endothelial

Estrogen; Raloxifene; Nitric oxide (NO) (Rahimian, R. (434) 141)

Nitric oxide (NO) synthase, inducible

Arthritis, collagen-induced; GW274150 (Cuzzocrea, S. (453) 119)

Noradrenaline; Plasma; Interleukin-1 β ; Brain (Murakami, Y. (455) 73)

Nitric oxide (NO) synthase, neuronal

Calmodulin; Ca²⁺; Radioligand binding (Weissman, B.A. (435) 9)

L-Citrulline recycling; Gastric fundus, rat; Argininosuccinate synthetase; Argininosuccinate lyase (Van Geldre, L.A. (455) 149)

Nitric oxide (NO) synthesis

Halothane; Ca²⁺ channel blocker; Na⁺ channel blocker; Hypoxia; Cerebral cortex (Oka, M. (452) 175)

Nitroglycerin

Nitric oxide (NO); Metal nitrosyl complex; Capacitance vessel; Vasodilator; MCFP (Poon, K.S. (436) 107)

Tolerance; CGRP (calcitonin gene-related peptide); *N*-acetylcysteine; Captopril (Zhou, Z.-H. (439) 129)

Capsaicin; Insulin resistance (Porszasz, R. (443) 211)

Iberiotoxin; Nitrate tolerance; K⁺ channel (Gruhn, N. (446) 143)

7-Nitroindazole

D-methamphetamine; Conditioned place preference; Nitric oxide (NO); Reward (Li, S.-M. (435) 217)

Nitrotyrosine

Peroxisome proliferator-activated receptor (PPAR γ); Inflammation; Rheumatoid arthritis; Temporomandibular joint (Shiojiri, T. (448) 231)

Nitrous oxide (N₂O)

Nitric oxide (NO); Nitric oxide (NO) donor; Light/dark exploration test; Anxiety (Li, S. (447) 75)

Nitrovasodilator

Retractor penis muscle, bovine; Catalase; Nitric oxide (NO); Nitroxyl anion; Aorta, rat (Shahidullah, M. (435) 93)

Nitroxyl anion

Retractor penis muscle, bovine; Catalase; Nitric oxide (NO); Nitrovasodilator; Aorta, rat (Shahidullah, M. (435) 93)

NMDA (*N*-methyl-D-aspartate)

Spinal analgesia; Biting, scratching, licking (BSL); Septide; [Nphe¹]nociceptin-(1-13)-NH₂ (Villanueva, N. (445) 83)

Hypercapnia; Cerebral circulation; Arteriolar diameter; Pial arterioles; Guanylate cyclase; Nitric oxide (NO); ODQ; SIN-1 (3-morpholiniosydnonimine) (Rosenblum, W.I. (448) 201)

Cerebral cortex; Excitotoxicity; Neurosteroid; Organotypic slice culture (Shirakawa, H. (454) 165)

NMDA receptor

Histamine H₁ receptor; Tachykinin NK₁ receptor; Nitric oxide (NO); Hyperalgesia (Sakurada, S. (434) 29)

Neonatal rat; Rearing; D-cycloserine; (Adult rat); Discrimination task (Strømme Johannesen, T. (437) 73)

Vesicular monoamine transporter; Dopamine D2 receptor (Crosby, M.J. (438) 75)

Behavioral sensitization; Nicotine; Nitric oxide (NO) (Shim, I. (443) 119)

Diabetes; Antinociception; MK-801; μ -Opioid receptor; DAMGO ([D-Ala², *N*-MePhe⁴, Gly-ol⁵]enkephalin) (Zushida, K. (448) 39)

Topiramate; Schizophrenia; Popping (Deutsch, S.I. (449) 121)

Patch-clamp, whole-cell; Adenosine A_{2A} receptor; Striatum (Gerevich, Z. (451) 161)

Naloxone; Addiction; MK-801 (Yeh, G.-C. (453) 197)

Rhynchophylline; Isorhynchophylline; Glycine site (Kang, T.-H. (455) 27)

Ethanol; MK-801; Dopamine; Locomotor activity (Hanania, T. (457) 125)

NMDA receptor antagonist

Antinociception; Endogenous ligand; Opioid; Intrathecal infusion; Paw withdrawal test (Kekesi, G. (445) 93)

Epilepsy; mGlu receptor; AMPA receptor antagonist; Antiepileptic drug (De Sarro, G. (451) 55)

NMDA receptor antagonist, low-affinity

Cortical slice; Epileptiform activity; Mg²⁺, low (Naish, H.J. (443) 79)

***N*^o-nitro-L-arginine (L-NA)**

Theophylline; Nitric oxide (NO); L-Arginine; *N*^G-nitro-L-arginine methyl-ester (L-NAME); Temperature (mouse) (Zarrindast, M.-R. (451) 63)

Nociceptin

Gastric acid secretion; ORL1 receptor; Central injection; (Rat) (Ishihara, S. (441) 105)

Arterial pressure, mean; Peripheral resistance, total; Blood flow; Arterial conductance (Abdelrahman, A.M. (450) 263)

ORL1 receptor; Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Abdelrahman, A.M. (455) 143)

Nociceptin/orphanin FQ

[(pF)Phe⁴]N/OFQ-(1–13)NH₂; GTPγ³⁵S binding; cAMP formation; Recombinant, NOP receptor; NOP receptor antagonist (McDonald, J. (443) 7)

Allodynia; Neuropathic pain; ORL1 receptor splice variant (Brisini, L. (447) 59)

[Nphe¹]N/OFQ (1–13)NH₂; Desensitization; cAMP formation; [¹²⁵I]Y¹⁴N/OFQ binding (Hashimoto, Y. (449) 17)

Nociception

Capsaicin; Glutamate; Periaqueductal grey (Palazzo, E. (439) 69)

Formalin test; Hot plate; Tail immersion; Morphine; Buprenorphine (Gilbert, A.-K. (449) 75)

Nonadrenergic noncholinergic relaxation

Cholestasis; Anococcygeus muscle; Opioid; Nitric oxide (NO); (Rat) (Dehpour, A.R. (445) 31)

Nonbenzodiazepine

Zaleplon; Hypnotic; ω₁ receptor; Binding assay; EEG (electroencephalogram) (Noguchi, H. (434) 21)

Noncompetitive inhibition

Nicotinic receptor modulation; *Xenopus* oocyte; Metal ion (Rangel-González, F.J. (441) 15)

Non-genomic

Tamoxifen; Tamoxifen metabolite; Intestinal muscle; Spasmolytic effect; Ca²⁺ channel (Díaz, M. (445) 257)

Nongenomic steroid receptor

Autonomic neuromuscular transmission; (Rat); (*Suncus murinus*); Testosterone; Urinary bladder (Hall, R. (449) 301)

NO (nitric oxide)

Cyclosporin A; L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Opioid dependence-tolerance; Antinociception; (Mouse) (Homayoun, H. (452) 67)

NO (Nitric oxide)

Endothelial dysfunction; Hypertension; Angiotensin-converting enzyme inhibitor (De Gennaro Colonna, V. (450) 61)

Non-nitric oxide (NO) donor

Sildenafil; Nitric oxide (NO) donor; Vasodilation; cGMP; Coronary artery, porcine (Sakuma, I. (437) 155)

Nonpeptide antagonist

YM471; Vasopressin V_{1A} receptor; Vasopressin V₂ receptor (Tsukada, J. (446) 127)

Conivaptan; Vasopressin; V_{1A} receptor; V₂ receptor; Congestive heart failure (Wada, K.-i. (450) 169)

Nonselective cation channel

Noradrenaline; Cell proliferation (Kawanabe, Y. (447) 31)

Nonsteroidal anti-inflammatory drug

Helicobacter pylori; Aspirin; Peptic ulcer (Pawlik, T. (449) 1)

Nonsteroidal anti-inflammatory drugs

Gastric ulcer; Ulcer healing, chronic; Prostaglandin; Myeloperoxidase activity; Immunohistochemistry (Berenguer, B. (442) 125)

Non-steroidal anti-inflammatory drugs

Cyclooxygenase; Prostaglandins (Amann, R. (447) 1)

Nootropic

Affective disorder; Cognition; Glutamate receptor (Knapp, R.J. (440) 27)

NOP receptor antagonist

Nociceptin/orphanin FQ; [(pF)Phe⁴]N/OFQ-(1–13)NH₂; GTPγ³⁵S binding; cAMP formation; Recombinant, NOP receptor (McDonald, J. (443) 7)

NOP receptor, recombinant

Nociceptin/orphanin FQ; [(pF)Phe⁴]N/OFQ-(1–13)NH₂; GTPγ³⁵S binding; cAMP formation; NOP receptor antagonist (McDonald, J. (443) 7)

Noradrenaline

Diabetes mellitus, type I; Prostate gland; Benign prostatic hyperplasia; Protein kinase C (Ramasamy, S. (434) 151)

GABA (γ-amino butyric acid); Blood pressure; Mesenteric arterial bed; Perivascular nerve stimulation; Spontaneously hypertensive rat (SHR) (Hayakawa, K. (438) 107)

Locus coeruleus; Dorsal raphe nucleus; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis (Pudovkina, O.L. (445) 37)

Nicotine; Adrenaline; Adrenal gland; (Rat); Nicotinic receptor (Yokotani, K. (446) 83)

Nonselective cation channel; Cell proliferation (Kawanabe, Y. (447) 31)

Adenosine A₁ receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Vas deferens, rat; Distribution; Differential (Queiroz, G. (448) 45)

Prostaglandin E₂; Thromboxane A₂; Brain; Adrenaline; Plasma; Sympathetic outflow; Adrenomedullary outflow (Murakami, Y. (452) 289)

Plasma; Interleukin-1β; Nitric oxide (NO) synthase, inducible; Brain (Murakami, Y. (455) 73)

α₁-Adrenoceptor subtype; Iliac artery; Mouse (Shibano, M. (456) 77)

Noradrenaline plasma

Adrenaline; Catecholamine ratio; Ethanol tolerance; Ethanol dependence; Ethanol withdrawal; Adaptation (Kovács, G.L. (448) 151)

Noradrenaline, plasma

Vasopressin; Cyclooxygenase, brain; Vasopressin V_{1A} receptor, brain; Adrenaline, plasma; Sympatho-adrenomedullary outflow (Okada, S. (457) 29)

Noradrenaline turnover

Hypothalamus–pituitary–adrenocortical axis; Morphine withdrawal; PKA (protein kinase A); PKC (protein kinase C); Corticosterone; Dopamine turnover (Cerezo, M. (452) 57)

Norepinephrine

Formalin test; Tramadol; 5-HT (5-hydroxytryptamine, serotonin); Opioid (Oliva, P. (445) 179)

Phendimetrazine; Phenmetrazine; Dopamine; Microdialysis (Rothman, R.B. (447) 51)

Amylin; Ghrelin; Hypothalamus; Dopamine; 5-HT (5-hydroxytryptamine, serotonin) (Brunetti, L. (454) 189)

Dopamine; α_1 -Adrenoceptor; Cocaine; Prazosin; Hypophagia; Hyperlocomotion; (Rat) (Wellman, P. (455) 117)

Norepinephrine transporter

Nisoxetine; Withdrawal time; Intermittent; Nerve growth factor; Dopamine uptake (Kantor, L. (451) 27)

Norethisterone

19-Nor progestins; Oestrogen receptor (Pasapera, A.M. (452) 347)

Norharman

Harman; Neuroprotection; Monoamine oxidase; Parkinson's disease (Rommelspacher, H. (441) 115)

19-Nor progestins

Norethisterone; Oestrogen receptor (Pasapera, A.M. (452) 347)

Noxious heat

c-Fos; Formol; Nefopam; Spinal dorsal horn (Buritova, J. (441) 67)

[Nphe¹]nociceptin-(1-13)-NH₂

Spinal analgesia; Biting, scratching, licking (BSL); Septide; NMDA (Villanueva, N. (445) 83)

[Nphe¹]N/OFQ (1–13)NH₂

Nociceptin/orphanin FQ; Desensitization; cAMP formation; [¹²⁵I]Y¹⁴N/OFQ binding (Hashimoto, Y. (449) 17)

NS-102

Freund's adjuvant; LY382884; NBQX; Q/R editing; (Rat); Kainate receptor; Hyperalgesia (Guo, W. (452) 309)

NS-398

Aspirin; Indomethacin; Nimesulide; Ibuprofen; Naproxen (Burde, T. (453) 167)

NSAID (nonsteroidal anti-inflammatory drug)

Cyclooxygenase-1; Cyclooxygenase-2; Leukocyte/endothelium interaction (Calatayud, S. (440) 71)

Endothelin ET_B receptor; Cyclooxygenase; Interleukin-1 β ; Rofecoxib; Glucocorticoid (White, L.R. (448) 51)

NT69L

Neurotensin; Antipsychotic; Conditioned avoidance behaviour; Haloperidol (Hertel, P. (439) 107)

Nuclear factor

Oct-1; HMG-CoA reductase inhibitor; Atherosclerosis (Ortego, M. (448) 113)

Nuclear hormone receptor

PPAR (peroxisome proliferator activated receptor); Fibrate; Thiazolidinedione; Steatosis; Adipogenesis; Lipogenesis; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

Nucleus accumbens

Microdialysis; Dopamine; Acamprosate; Homotaurine; Ethanol (Olive, M.F. (437) 55)

[³H](+)-MK-801; Glutamate; Cortex, prefrontal (Quadros, I.M.H. (442) 55)

Locomotion; Open field; Schizophrenia; Startle; Ventral tegmental area (Schwienbacher, I. (444) 161)

Muscarinic receptor subtype; Dopamine D1-like receptor; cAMP (Onali, P. (448) 105)

Dopamine; Tyrosine loading, local; Quinpirole; PD 128907; Striatum, dorsal (Fusa, K. (448) 143)

Morphine; Nitric oxide (NO); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Conditioned place preference; (Rat) (Gholami, A. (449) 269)

Nucleus tractus solitarii

Carbon monoxide; Heme oxygenase; Glutamate receptor, Metabotropic (Lo, W.-C. (454) 39)

Null-mutant

Heme oxygenase; Guanylate cyclase; cGMP; Glutamate; Metalloporphyrin (Li, X. (450) 43)

[³H]Paroxetine

Methamphetamine; [³H]GBR 12935; Benzodiazepine receptor, peripheral-type; HSP27; Carnosine (Pubill, D. (448) 165)

[³H]PN200-110

Sterptozotocin-induced diabetes; Morphine; Tail-flick; antinociception; Nimodipine; *B*_{max}; Saturation binding (Gullapalli, S. (435) 187)

[³H]PN200-110 binding

Tail-flick test; Analgesia; Naloxone; Morphine; Supersensitivity; Nimodipine; *B*_{max} (Gullapalli, S. (451) 271)

[³H]Prazosin binding

α_1 -Adrenoceptor subtype; Brain, rat; Imipramine; Electroconvulsive shock; α_1 -Adrenoceptor mRNA (Nalepa, I. (444) 151)

O-1812

Epilepsy; Electroshock, maximal; Seizure; Cannabinoid; Cannabinoid CB₁ receptor; Anandamide (Wallace, M.J. (452) 295)

Obesity

Angiotensin AT₁ receptor; Angiotensin-converting enzyme inhibitor; Hyperinsulinemia; Metabolic syndrome; (Mouse) (Ortlepp, J.R. (436) 145)

(MCH) melanin-concentrating hormone; SLC-1 receptor; Receptor antagonist; Food intake (Takekawa, S. (438) 129)

Thyroid hormones; Treatment; UCP (Uncoupling protein); Deiodinase; Thermogenesis (Krotkiewski, M. (440) 85)

β_3 -Adrenoceptor; β_4 -Adrenoceptor; β_3 -Adrenoceptor agonist; Thermogenesis; Diabetes (Arch, J.R.S. (440) 99)

Orlistat; Lipase inhibitor; Weight loss; Weight maintenance; Cardiovascular risk (Ballinger, A. (440) 109)

Sibutramine; Serotonin–norepinephrine reuptake inhibitor; Thermogenesis; Weight loss (Luque, C.A. (440) 119)

Leptin; (Rodent) (Lee, D.W. (440) 129)

Melanocortins; Melanocortin receptor; Neuropeptide; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); POMC (proopiomelanocortin); Energy homeostasis; Sexual function (MacNeil, D.J. (440) 141)

Adipostat; Leptin; Hypothalamus; Appetite; Satiety (Larsen, P.J. (440) 159)

Neuropeptide Y; Neuropeptide receptor, neuropeptide Y; Anti-obesity agent (Parker, E. (440) 173)

ACRP30 (adipocyte complement-related protein of 30 kDa); AdipoQ; Adiponectin; Diabetes; Insulin resistance; Lipid metabolism; Glucose metabolism (Tsao, T.-S. (440) 213)

Ghrelin; Growth hormone secretagogue; Pituitary hormone; Food intake, control of; Metabolic fuel (Muccioli, G. (440) 235)

GLP-1 (glucagon-like peptide 1); Satiety; Food intake (Meier, J.J. (440) 269)

Bombesin; GRP (gastrin-releasing peptide); GRP receptor; Bombesin BB₁ receptor; Bombesin BB₂ receptor; Bombesin bb₃ receptor; Feeding behavior (Yamada, K. (440) 281)

Dopamine; Feeding; Glucose; Insulin; Lateral hypothalamus; Leptin (Baptista, T. (447) 91)

Object recognition task

Δ⁹-Tetrahydrocannabinol; Ethanol intake; Cannabinoid CB₁ receptor; SR 141716A; Alcohol-preferring rat (Ciccocioppo, R. (449) 245)

Occludin

Inflammation; Tight junctions; Pain; Zonula occludens-1; Blood–brain barrier (Huber, J.D. (450) 297)

Oct-1

HMG-CoA reductase inhibitor; Nuclear factor; Atherosclerosis (Ortego, M. (448) 113)

Octreotide

Somatostatin receptor subtype; Cancer; Peptide; Peptide receptor targeting (Reubi, J.C. (456) 45)

Oddi sphincter

Hepatobiliary; Endothelin; Eicosanoid; Prostanoid; Common bile duct; Choledochoduodenal junction (Koepp, J. (435) 103)

ODQ

Hypercapnia; Cerebral circulation; Arteriolar diameter; Pial arterioles; Guanylate cyclase; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); SIN-1 (3-morpholinylsydnimine) (Rosenblum, W.I. (448) 201)

ODQ (1*H*-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one)

Pain; Incision pain; Allodynia; SNAP (*S*-nitroso-*N*-acetylpenicillamine); Isosorbide; Nitric oxide (NO) (Prado, W.A. (441) 57)

Oedema

Ischemia–reperfusion; Neutrophil; Artery, mesenteric; Inflammation; Leukotriene B₄ (Souza, D.G. (440) 61)

Oestrogen receptor

19-Nor progestins; Norethisterone (Pasapera, A.M. (452) 347)

8-OH-DPAT (8-hydroxy-2-(di-*n*-propylamino)tetralin)

5-HT_{1A} receptor; 5-HT₄ receptor; Antidepressant; Bupirone; Clozapine; Imipramine; Haloperidol (Zahorodna, A. (443) 51)

Okadaic acid

Melatonin; Vitamin C; N1E-115 cell; Oxidative stress; Antioxidant enzyme (Montilla-López, P. (451) 237)

Olfactory bulb

Ca²⁺; Ca²⁺ indicator; Fluorescence; Neocortex; Dendrite; Two-photon; In vivo vivo (Helmchen, F. (447) 119)

Oligodendrocyte

Glutamate; Transporter; Receptor; Cell death; Demyelination (Matute, C. (447) 239)

Glia; Ca²⁺; ATP; Purinoreceptor; Astrocyte; Microglia; Axon; Signalling (James, G. (447) 247)

Omeprazole

Gastric ulcer; Aging; Cimetidine; (Rat) (Ishihara, M. (444) 209)

Open-channel block

GABA_A receptor; Isoflurane; Patch-clamp; Kinetic modelling (Haseneder, R. (451) 43)

Opener

K⁺ channel, inwardly rectifying; Kir2.3; Tenidap; Arachidonic acid; Potentiation (Liu, Y. (435) 153)

Open field

Locomotion; Nucleus accumbens; Schizophrenia; Startle; Ventral tegmental area (Schwienbacher, I. (444) 161)

Operational model

Expression; Induction; Upregulation (Möller, S. (454) 209)

Opiate withdrawal

Morphine; Opioid receptor; G-protein coupling; [³⁵S]GTPγS-binding (Kirschke, C. (446) 43)

Opioid

Cholestasis; Nonadrenergic noncholinergic relaxation; Anococcygeus muscle; Nitric oxide (NO); (Rat) (Dehpour, A.R. (445) 31)

Antinociception; Endogenous ligand; Intrathecal infusion; NMDA receptor antagonist; Paw withdrawal test (Kekesi, G. (445) 93)

Formalin test; Tramadol; 5-HT (5-hydroxytryptamine, serotonin); Norepinephrine (Oliva, P. (445) 179)

Morphine; Sciatic nerve; Spinal cord (Kouya, P.F. (450) 49)

Retention; Passive avoidance; Histaminergic agent; (Rat) (Zarrindast, M.-R. (452) 193)

Opioid dependence-tolerance

Cyclosporin A; NO (nitric oxide); L-Arginine; L-NAME (*N*^G-nitro-L-arginine methyl ester); Antinociception; (Mouse) (Homayoun, H. (452) 67)

Opioid, endogenous

α₂-Adrenoceptor stimulation; Insulin release; μ-Opioid receptor (García-Barrado, M.J. (448) 95)

Opioid peptide

Opioid receptor; Adjuvant arthritis; Inflammation; Pain, chronic; Central nervous system (Spetea, M. (435) 245)

[Met⁵]enkephalin-Arg-Gly-Leu; Antinociception; Peptidase inhibitor (Kainai, M. (453) 53)

Opioid receptor

Opioid peptide; Adjuvant arthritis; Inflammation; Pain, chronic; Central nervous system (Spetea, M. (435) 245)

Etorphine derivative; Radioligand binding; [³⁵S]GTPγS binding; Brain, rat (Biyashev, D. (442) 23)

Central nervous system; Gastric acid secretion; Mitragynine (Tsuchiya, S. (443) 185)

Opiate withdrawal; Morphine; G-protein coupling; [³⁵S]GTPγS-binding (Kirschke, C. (446) 43)

Alcohol preference; Morphine; Locomotor activity; (Selected rat line) (Soini, S.L. (448) 157)

ATP-sensitive K⁺ channel; Pinacidil; Antinociception; Diabetes (Zushida, K. (453) 209)

κ-Opioid receptor

U-50,488H; (+)-SKF10,047; σ Receptor; Y-maze; Short-term memory (Hiramatsu, M. (453) 91)

Bremazocine; Peripheral antinociception; Nitric oxide; cGMP; Carrageenan (Amarante, L.H. (454) 19)

μ-Opioid receptor

Paroxetine; Reboxetine; Moclobemide; δ-Opioid receptor; Chronic treatment (Vilpoux, C. (443) 85)

Naltrexone; Receptor up-regulation; Constitutive internalization; Dynamin-2; G-protein receptor kinase-2 (Patel, M. (446) 37)

Endomorphin-1; Endomorphin-2; Passive avoidance learning; Dopamine receptor; (Mouse) (Ukai, M. (446) 97)

Heroin; Knockout mice; Place conditioning; Locomotor activity (Contarino, A. (446) 103)

Diabetes; Antinociception; MK-801; NMDA receptor; DAMGO ([D-Ala², N-MePhe⁴, Gly-ol⁵]enkephalin) (Zushida, K. (448) 39)

α₂-Adrenoceptor stimulation; Opioid, endogenous; Insulin release (García-Barrado, M.J. (448) 95)

[³⁵S]GTPγS binding; G-protein; GABA_B receptor; Brain, human; Receptor reserve; Signal transduction (González-Maeso, J. (452) 21)

δ-Opioid receptor

Paroxetine; Reboxetine; Moclobemide; μ-Opioid receptor; Chronic treatment (Vilpoux, C. (443) 85)

κ-Opioid receptor agonist

Pruritus; Itch; TRK-820 (Togashi, Y. (435) 259)

Sex difference; μ-Opioid receptor agonist; Antinociception; Mechanical; (Rat) (Barrett, A.C. (452) 163)

μ-Opioid receptor agonist

Sex difference; κ-Opioids receptor agonist; Antinociception; Mechanical; (Rat) (Barrett, A.C. (452) 163)

δ-Opioid receptor, human

Adenylyl cyclase superactivation; Raf-1 (Varga, E.V. (451) 101)

δ-Opioid receptor, subtype

Chinese hamster ovary (CHO) cell; Binding; [³⁵S]GTPγS; Naltrindole derivative (Parkhill, A.L. (451) 257)

Optical spectroscopy

Magnesium; Alcohol; Cerebral microcirculation; Cytochrome oxidase; Hemoglobin; Stroke (Barbour, R.L. (447) 79)

Orchitis

Autoimmunity; Deoxyspergualin; Immunotherapy (Ablake, M. (450) 209)

Orexin

Hypocretin; SB-334867; Feeding; Narcolepsy; Sleep–wake cycle (Smart, D. (440) 199)

Glycemia; Fasting; Diabetes; (Mouse) (Tsuneki, H. (448) 245)

Orexin-A

Orexin-1 receptor; SB-334867-A; Acetylcholine release; Tetrodotoxin (Matsuo, K. (452) 105)

Orexin-1 receptor

Orexin-A; SB-334867-A; Acetylcholine release; Tetrodotoxin (Matsuo, K. (452) 105)

Organic anion transport

ATP; Perfused rat liver; Indicator-dilution experiment (Fernandes, T.R.L. (454) 225)

Organic anion transporter

Proximal tubule; Cephalosporin antibiotic; Interaction (Takeda, M. (438) 137)

Organic cation transport

Amantadine; Kidney; Memantine; MRZ 2/579; MRZ 2/600; MRZ 2/615 (Fourie, J. (452) 1)

Organotypic slice culture

Cerebral cortex; Excitotoxicity; Neurosteroid; NMDA (*N*-methyl-D-aspartate) (Shirakawa, H. (454) 165)

Orlistat

Obesity; Lipase inhibitor; Weight loss; Weight maintenance; Cardiovascular risk (Ballinger, A. (440) 109)

ORL1 receptor

Gastric acid secretion; Nociceptin; Central injection; (Rat) (Ishihara, S. (441) 105)

Nociceptin; Arterial pressure, mean; Circulatory filling pressure, mean; Venous tone; Capacitance vessel; Ganglionic blockade (Abdelrahman, A.M. (455) 143)

ORL1 receptor splice variant

Allodynia; Neuropathic pain; Nociceptin/orphanin FQ (Briscini, L. (447) 59)

Ornithine decarboxylase

Nicotine; Cell migration; Cell proliferation; K⁺ channel; Wound healing; Nicotine receptor (Shin, V.Y. (444) 115)

Osteoblast differentiation

Alkaline phosphatase; Growth factor; Msx2; TAK-778 (Gotoh, M. (451) 19)

Osteochondral defect

Cholecystokinin-B/gastrin receptor antagonist; Chondrocyte; Articular cartilage; Repair; (Rabbit) (Nakanishi, T. (439) 135)

Osteoclast

S12911-2; Bone resorption; Differentiation (Baron, R. (450) 11)

Osteoporosis

Bisphosphonate; Ovariectomy; Bone mineral density; Deoxyypyridinoline (Teramura, K. (449) 191)

Bisphosphonate; Ovariectomy; Bone mineral density; Deoxypyridinoline (Teramura, K. (457) 51)

Outer hair cell

Fluoxetine; K^+ current; Voltage-activated; Cochlea; Antidepressant (Bian, J.-T. (453) 159)

Ovalbumin

Allergic pulmonary inflammation; Brown Norway rat; Adenosine A_{2A} receptor; CGS 21680; ZM 243185 (Fozard, J.R. (438) 183)

Bronchus; Histamine; Leukotriene D_4 ; Schultz–Dale reaction; Arachidonic acid (Seow, C.-J. (443) 189)

Ovariectomy

CGRP (calcitonin gene-related peptide); Blood pressure; Gender; Aging; Artery (Chan, G.H.H. (434) 133)

Bisphosphonate; Osteoporosis; Bone mineral density; Deoxypyridinoline (Teramura, K. (449) 191)

Bisphosphonate; Osteoporosis; Bone mineral density; Deoxypyridinoline (Teramura, K. (457) 51)

Ovarin uterine segment

Cervical uterine segment; Serotonin; Prostaglandin $F_{2\alpha}$; Oxytocin; Uterine contractility (Oropeza, M.V. (446) 159)

Oxidative burst

Azithromycin; Neutrophil; Human volunteer; Degranulation; Cytokine (Čulić, O. (450) 277)

Oxidatively modified

Fluvastatin; Antioxidant effect; Cigarette smoke extract; LDL (low-density lipoprotein); WHHL rabbit (Yamaguchi, Y. (436) 97)

Oxidative metabolism

Anesthesia; Barbiturate; Cytoprotection; Glucose phosphorylation; Glutamate (Peng, L. (446) 53)

Oxidative stress

Hypoxia; Adrenomedullin; Cardiomyocyte (Yoshihara, F. (436) 1)

Apomorphine; Dopamine; Parkinson's disease; Behavior; Memory (Picada, J.N. (443) 105)

Meningitis; Peroxynitrite; Urate; MnTBAP; Ascorbate (Kastenbauer, S. (449) 177)

ARPE-19 cell; GSH precursor; 4-Hydroxynonenal; VEGF (Vascular endothelial growth factor) (Ayalasomayajula, S.P. (449) 213)

Buddleja officinalis Maxim; Verbascoside; Phenylpropanoid glucoside; Apoptosis; Parkinson's disease (Sheng, G.-Q. (451) 119)

Melatonin; Vitamin C; N1E-115 cell; Okadaic acid; Antioxidant enzyme (Montilla-López, P. (451) 237)

Endotoxin; Zn^{2+} level; Metallothionein; Ca^{2+} ; Nitric oxide (NO) (Sakaguchi, S. (451) 309)

Glutathione; Blood pressure; Endothelial function (Ganafa, A.A. (454) 217)

Oxybutynin

Detrusor smooth muscle; Electrical field stimulation; Atropine; Propiverine; Tolterodine (Wüst, M. (454) 59)

Oxygen

Aortic slice, rat; Kynurenic acid; Endothelium; Excitatory amino acid receptor; Glucose (Stążka, J. (448) 133)

Oxygen free radical

Endothelial dysfunction; Neutrophil adhesion; Endothelium glycocalyx; Reperfusion injury; Heart, guinea-pig, isolated (Kurzelewski, M. (434) 95)

Ventricle, human; Electrophysiology; Contractile force; Acidosis, intracellular; Fluorescent; Antioxidant; Cardioprotective agent (Loh, S.-H. (443) 169)

Oxygen–glucose deprivation

Parkinson's disease; Rasagiline; Selegiline; 1-*R*-aminogand; L-methamphetamine; Neurotoxicity; Neuroprotection (Abu-Raya, S. (434) 109)

Oxymetazoline

Gastric acid secretion; Clonidine; β -endorphin; Glibenclamide (Müllner, K. (435) 225)

Oxytocin

Ovarin uterine segment; Cervical uterine segment; Serotonin; Prostaglandin $F_{2\alpha}$; Uterine contractility (Oropeza, M.V. (446) 159)

Oxytocin receptor antagonist; Radioligand; Oxytocin receptor; Vasopressin (Lemaire, W. (450) 19)

Renin secretion; Oxytocin receptor; β -Adrenoceptor; Renal denervation; Pulsed infusion (Loichot, C. (454) 241)

Oxytocin receptor

Oxytocin receptor antagonist; Oxytocin; Radioligand; Vasopressin (Lemaire, W. (450) 19)

Oxytocin; Renin secretion; β -Adrenoceptor; Renal denervation; Pulsed infusion (Loichot, C. (454) 241)

Oxytocin receptor antagonist

Oxytocin; Radioligand; Oxytocin receptor; Vasopressin (Lemaire, W. (450) 19)

2,2'-Pyridylisatogen

Imine oxide; Spin trap; Motoneuron; ATP receptor antagonist; P2Y receptor; Neuroprotection; AMPA receptor (Menton, K. (444) 53)

p21^{WAF1/CIP1}

Apoptosis; JNK (c-Jun N-terminal kinase); c-Fos; c-Jun; p53 (Kobayashi, K. (438) 19)

P2X7

ATP; Neurodegeneration; Interleukin-1 (Le Feuvre, R. (447) 261)

P2X₃ receptor

Diadenosine polyphosphate; Purinoceptor; ATP; Desensitization (McDonald, H.A. (435) 135)

P2X receptor

P2Y receptor; Temperature dependency; PPADS (Ziganshin, A.U. (456) 107)

Dinucleoside polyphosphate; Coronary artery; Isolated; Perfused; P2Y receptor (van der Giet, M. (448) 207)

p53

Apoptosis; JNK (c-Jun N-terminal kinase); c-Fos; c-Jun; p21^{WAF1/CIP1} (Kobayashi, K. (438) 19)

PACAP (pituitary adenylate cyclase-activating polypeptide)

Small-conductance Ca^{2+} -activated K^{+} (SK_{Ca}) channel; Large-conductance Ca^{2+} -activated K^{+} (SK_{Ca}) channel; Adrenal gland, rat; Catecholamine secretion (Fukushima, Y. (437) 69)

PAF (platelet-activating factor)

Interleukin-6; Prostaglandin E_2 ; Thapsigargin; SK&F 98625; Macrophage (Ichinowatari, G. (434) 187)

Atisine-type diterpene alkaloid; Platelet aggregation; Arachidonic acid; Adenosine-5'-diphosphate; Structure–activity relationship (Li, L. (449) 23)

Cerebral vasospasm; Intra-arterial digital subtraction angiography; Cerebral circulation time (canine model); Subarachnoid hemorrhage (Abe, Y. (455) 127)

Pain

Inflammation; Histamine; Histamine H_1 receptor; Spinal cord (Olsen, U.B. (435) 43)

Incision pain; Allodynia; SNAP (*S*-nitroso-*N*-acetylpenicillamine); Isosorbide; Nitric oxide (NO); ODQ (1*H*-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one) (Prado, W.A. (441) 57)

Ca^{2+} channel, high-threshold; Neomycin; Whole-cell patch recording; Na^{+} channel, tetrodotoxin-resistant (Zhou, Y. (450) 29)

Nimesulide; Cyclo-oxygenase; Nitric oxide (NO); RIII threshold (Sandrini, G. (450) 259)

Inflammation; Tight junctions; Occludin; Zonula occludens-1; Blood–brain barrier (Huber, J.D. (450) 297)

Pain, chronic

Opioid peptide; Opioid receptor; Adjuvant arthritis; Inflammation; Central nervous system (Spetea, M. (435) 245)

Pancreas

Affinity binding site; Cholecystokinin; Diabetes (Kuntz, E. (448) 253)

Pancreas, isolated, rat

S 21403; Repaglinide; Glibenclamide; Insulin release; Glucagon release (Gregorio, F. (456) 141)

Pancreatic β -cell, rat

Nateglinide; K_{ATP} channel; Glucose sensitivity; Metabolic inhibition (Hu, S. (442) 163)

Pancreatic secretion

Leptin; Vagus nerve; Afferent fibre; Cholecystokinin (Guilmeau, S. (447) 99)

Pancreatitis, acute

KF24345; Adenosine; Uptake inhibition; Mortality; $\text{TNF-}\alpha$ (Tumor necrosis factor- α) (Noji, T. (454) 85)

Paracetamol

Tropisetron; 5-HT $_3$ receptor; Spinal cord; Inflammation; (Rat) (Alloui, A. (443) 71)

Pargyline

Ischemia-reperfusion; Monoamine oxidase; Hydrogen peroxide; Kidney (Kunduzova, O.R. (448) 225)

Parkinson's disease

Apoptosis; Glutathione; Neuroblastoma; Dopamine receptor (Uberti, D. (434) 17)

Rasagiline; Selegiline; 1-*R*-aminoindan; L-methamphetamine; Neurotoxicity; Neuroprotection; Oxygen–glucose deprivation (Abu-Raya, S. (434) 109)

Norharman; Harman; Neuroprotection; Monoamineoxidase (Rommel-spacher, H. (441) 115)

Neurotoxin; (TaClo) 1-Trichloromethyl-1,2,3,4-tetrahydro- β -carboline; Carboline; (MPTP) 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Riederer, P. (442) 1)

c-Fos; Dyskinesia; L-DOPA (L-3,4-dihydroxyphenylalanine); Dopamine receptor agonist (Nakazato, T. (442) 73)

Apomorphine; Dopamine; Oxidative stress; Behavior; Memory (Picada, J.N. (443) 105)

Catalepsy; Locomotor activity; Prepulse inhibition; Amphetamine; Dopamine; Progressive supranuclear palsy (Ross, B.M. (450) 141)

Buddleja officinalis Maxim; Verbascoside; Phenylpropanoid glucoside; Oxidative stress; Apoptosis (Sheng, G.-Q. (451) 119)

GBR 12909; Dyskinesia; Dopamine reuptake inhibition; MPTP-treated primate (Hansard, M.J. (451) 157)

COMT inhibitor; Entacapone; Tolcapone; Uncoupling (Haasio, K. (453) 21)

Dopamine receptor agonist; Neurodegeneration; Antioxidant; Neuroprotection (Lombardi, G. (457) 95)

Parotid gland

Nitric oxide (NO) synthase; Amylase secretion; Nitric oxide (NO) signaling (Rosignoli, F. (439) 27)

Paroxetine

Reboxetine; Moclobemide; μ -Opioid receptor; δ -Opioid receptor; Chronic treatment (Vilpoux, C. (443) 85)

Fluvoxamine; Clomipramine; Antidepressant; Anticholinergic effect; (Mouse) (Fujishiro, J. (454) 183)

PAR-2 (protease-activated receptor-2)

Protease (proteinase); Gastric acid secretion; Gastric mucosal cytoprotection (Nishikawa, H. (447) 87)

Partial agonist

GABA $_A$ receptor; *Xenopus* oocyte; 4-PIOL (5-(4-piperidyl)-3-isoxazolol); Structure–activity; Lipophilicity (Mortensen, M. (451) 125)

Prostaglandin; Prostanoid receptor; Bell-shaped curve; G-protein; Pertussis toxin (Accomazzo, M.R. (454) 107)

Partial liquid ventilation

Acute respiratory distress syndrome; Aerosol; Selectin; ICAM-1 (intercellular adhesion molecule-1) (Schoof, E. (457) 195)

Passive avoidance

Erythropoietin; Brain ischemia; Learning ability (Catania, M.A. (437) 147)

Retention; Histaminergic agent; Opioid; (Rat) (Zarrindast, M.-R. (452) 193)

Passive avoidance learning

Endomorphin-1; Endomorphin-2; μ -Opioid receptor; Dopamine receptor; (Mouse) (Ukai, M. (446) 97)

Histaminergic agent; α -Adrenoceptor agent; (Rat) (Zarrindast, M.-R. (454) 193)

Patch-clamp

Ginseng; Ginsenoside; Antinociception; Ca^{2+} channel current; Pertussis toxin; Sensory neurons (Rhim, H. (436) 151)

GABA_A receptor; Isoflurane; Kinetic modelling; Open-channel block (Haseneder, R. (451) 43)

Patch clamp

Gabapentin; Ca^{2+} channel, voltage-operated; Ca^{2+} imaging (van Hoof, J.A. (449) 221)

Patch clamping

Na^{+} channel; K^{+} channel; Antidepressant; Imipramine; $^{22}\text{Na}^{+}$ flux (Nicholson, G.M. (452) 35)

Patch-clamp, whole-cell

Adenosine A_{2A} receptor; NMDA receptor; Striatum (Gerevich, Z. (451) 161)

Pathogenesis

Aging; Diabetes mellitus; Brain; Dementia (Biessels, G.J. (441) 1)

Diabetes mellitus; Nerve; Brain; Neuron; Ca^{2+} ; Treatment; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

Paw edema

FR167653; p38 MAP (mitogen-activated protein) kinase inhibitor; Carrageenan; Lipopolysaccharide; Vascular permeability (Nishikori, T. (451) 327)

Paw withdrawal test

Antinociception; Endogenous ligand; Opioid; Intrathecal infusion; NMDA receptor antagonist (Kekesi, G. (445) 93)

PC12 cell

Nicotinic acetylcholine receptor; $\alpha 7$ Subunit; Perforated patch-clamp; GH4C1 cell; Recombinant expression (Virginio, C. (445) 153)

Anandamide; Capsaicin; Arachidonic acid; Prostaglandin F_{2 α} ; Phospholipase A₂ (Someya, A. (450) 131)

Nipradilol; Apoptosis; Nitric oxide (NO); S-nitrosylation (Tomita, H. (452) 263)

p-Chlorophenylalanine

MDMA; 5-HT; Serotonin transporter; Neuroadaptation (Boot, B.P. (453) 239)

PCR (polymerase chain reaction), real-time

Cyclophosphamide; HL-60; CYP1B1; RT-PCR (reverse transcriptase–polymerase chain reaction); β -Actin; Cytotoxicity; Multidrug resistance (Xie, H.-J. (449) 197)

PDB (phorbol dibutyrate)

Angiotensin II desensitization; Membrane repolarization; Protein kinase C inhibitor; Maxi-K⁺ channel recruitment; Ileum, guinea pig (Aboulafia, J. (442) 29)

PD98059

MAP kinase; U0126; Angiotensin II; Endothelin-1; Contraction (Ishihata, A. (445) 247)

PD 81,723

Allosteric modulation; Acetylcholine release; Adenosine A₁ receptor; Microdialysis; Striatum (Bueters, T.J.H. (454) 177)

PD 128907

Dopamine; Tyrosine loading, local; Quinpirole; Striatum, dorsal; Nucleus accumbens (Fusa, K. (448) 143)

PDGF (platelet-derived growth factor)

Pepstatin A; N-acetyl-L-cysteine; Stellate cell; Cathepsin D; IGF-I (insulin-like growth factor-I) (Takashima, T. (451) 265)

PDGF (Platelet-derived growth factor)

Ambroxol; ERK (p44/42 extracellular signal-regulated kinase); Monocytic cell, human (Utsugi, M. (436) 47)

Penile artery

Penile vein; Milrinone; Rolipram; cAMP pathway (Segarra, G. (444) 103)

Penile bulb

Nitric oxide (NO); L-Arginine; Protein synthase inhibition; (Rat) (Burcin İsmailoglu, U. (435) 113)

Penile diameter

Penile erection; Cavernous nerve; Electrical stimulation; Nitrate; Tolerance (Adachi, H. (445) 267)

Penile erection

Nitric oxide (NO); RhoA/Rho-kinase (Mills, T.M. (439) 173)

Penile diameter; Cavernous nerve; Electrical stimulation; Nitrate; Tolerance (Adachi, H. (445) 267)

Penile vein

Penile artery; Milrinone; Rolipram; cAMP pathway (Segarra, G. (444) 103)

Penta-O-galloyl- β -D-glucose

Metastasis; Invasion; MMP-9 (matrix metalloproteinase-9); AP-1 (activator protein-1); Sp-1 (Ho, L.-L. (453) 149)

(+)-Pentazocine

SH-SY5Y neuroblastoma; σ Receptor; Ca^{2+} , intracellular; Muscarine; Haloperidol (Hong, W. (436) 35)

Pentetrazole

Alphaxalone; Antiepileptic drug; Amygdala-kindled seizure; Aminophylline; Electroshock, maximal (Borowicz, K.K. (449) 85)

Pentobarbital

GABA_A receptor; Fast application; Computer simulation (Krampfl, K. (435) 1)

Pentoxifylline

Nimesulide; Contractile response; Ileum; (Rat) (Kaya, T.T. (442) 147)

Diabetes; Interleukin-10; TNF- α ; BB, rat (Visser, J. (445) 133)

Pentyleneetetrazol

5-HT_{1A} receptor knockout mice; GABA_A–benzodiazepine receptor; (In vivo); Positive righting reflex; Stress-induced hyperthermia (Pattij, T. (447) 67)

Pentyleneetetrazole

Valproate; Lamotrigine; 4-Aminopyridine; Anticonvulsant; Drug interactions (Cuadrado, A. (453) 43)

Pepstatin A

N-acetyl-L-cysteine; Stellate cell; Cathepsin D; IGF-I (insulin-like growth factor-I); PDGF (platelet-derived growth factor) (Takashima, T. (451) 265)

Peptic ulcer

Helicobacter pylori; Aspirin; Nonsteroidal anti-inflammatory drug (Pawlik, T. (449) 1)

Peptidase inhibitor

[Met⁵]enkephalin-Arg-Gly-Leu; Opioid peptide; Antinociception (Kanai, M. (453) 53)

Peptide

CRF receptor; Energy balance (Richard, D. (440) 189)

Somatostatin receptor subtype; Cancer; Octreotide; Peptide receptor targeting (Reubi, J.C. (456) 45)

Peptide receptor targeting

Somatostatin receptor subtype; Cancer; Octreotide; Peptide (Reubi, J.C. (456) 45)

Perforant path–dentate gyrus pathway

Atypical antipsychotic drug; Zotepine; Long-term potentiation (Kubota, T. (453) 245)

Perforated patch-clamp

Nicotinic acetylcholine receptor; $\alpha 7$ Subunit; PC12 cell; GH4C1 cell; Recombinant expression (Virginio, C. (445) 153)

Perfused

Dinucleoside polyphosphate; Coronary artery; Isolated; P2X receptor; P2Y receptor (van der Giet, M. (448) 207)

Perfused rat liver

ATP; Organic anion transport; Indicator-dilution experiment (Fernandes, T.R.L. (454) 225)

Periaqueductal grey

Nociception; Capsaicin; Glutamate (Palazzo, E. (439) 69)

Peripheral antinociception

Bremazocine; κ -Opioid receptor; Nitric oxide; cGMP; Carrageenan (Amarante, L.H. (454) 19)

Peripheral resistance

Inflammation; Catecholamine; 5-HT (5-hydroxytryptamine, serotonin); Reactive oxygen species; Indole-2,3-dione (Tozawa, Y. (440) 37)

Peripheral resistance, total

Nociception; Arterial pressure, mean; Blood flow; Arterial conductance (Abdelrahman, A.M. (450) 263)

Peripheral tissues

Diamine oxidase (histaminase); Histamine *N*-methyltransferase; mRNA; Expression pattern; Histaminergic signal transmission (Kitanaka, J. (437) 179)

Perivascular nerve stimulation

GABA (γ -amino butyric acid); Noradrenaline; Blood pressure; Mesenteric arterial bed; Spontaneously hypertensive rat (SHR) (Hayakawa, K. (438) 107)

Permeability

Neutrophil elastase; Lung injury, acute; Respiratory distress syndrome, adult; Edema (Kawabata, K. (451) 1)

Peroxisome proliferator-activated receptor (PPAR γ)

Nitrotyrosine; Inflammation; Rheumatoid arthritis; Temporomandibular joint (Shiojiri, T. (448) 231)

Peroxynitrite

c-GMP; Dopamine; L-DOPA (L-3,4-dihydroxyphenylalanine); Nitric oxide (NO); Striatum (Sanchez, J.J. (438) 79)

Meningitis; Oxidative stress; Urate; MnTBAP; Ascorbate (Kastenbauer, S. (449) 177)

Antioxidant; Hydroxyl radical; Lipid peroxidation; Uracil derivative (Goto, Y. (438) 189)

Pertussis toxin

Actin; Angiotensin II; Angiotensin AT₁ receptor; Mesothelial cell; Pleura; Protein kinase C; Tyrosine kinase (Kuwahara, M. (436) 15)

Ginseng; Ginsenoside; Antinociception; Patch-clamp; Ca²⁺ channel current; Sensory neurons (Rhim, H. (436) 151)

Gastric emptying; Gastrointestinal transit; Cannabinoid CB₁ receptor (Landi, M. (450) 77)

Prostaglandin; Prostanoid receptor; Bell-shaped curve; G-protein; Partial agonist (Accomazzo, M.R. (454) 107)

Pervanadate

Smooth muscle, Arteriolar; Tyrosine phosphorylation; Ca²⁺; Nifedipine; Verapamil; Myosin light-chain kinase (Murphy, T.V. (442) 107)

PET (positron emission tomography)

[¹¹C]RN5; α_1 -Adrenoceptor antagonist; Biodistribution (Matarrese, M. (453) 231)

PF4

(*Ascaris*); Nematode; Cl[−] channel; FaRP (Purcell, J. (456) 11)

[(*pF*)Phe⁴]N/OFO-(1–13)NH₂

Nociceptin/orphanin FQ; GTP γ ³⁵S binding; cAMP formation; Recombinant, NOP receptor; NOP receptor antagonist (McDonald, J. (443) 7)

P-Glycoprotein

Active efflux; MRP (multidrug resistance-associated protein); Glutathione; Taxol; PSC-833; Verapamil; MDR1 (Crowe, A. (440) 7)

Endotoxin; Blood–brain barrier; Doxorubicin (Zhao, Y.L. (445) 115)

Pharmacogenetics

Depressive disorder; Bipolar mood disorder; Genetics (Serretti, A. (438) 117)

Angiotensin-converting enzyme; CYP11B2 (Ortlepp, J.R. (445) 151)

Pharmacokinetic

Growth hormone; (Monkey); IGF-1 (insulin-like-growth-factor) (Osborn, B.L. (456) 149)

Pharmacokinetic–pharmacodynamic modelling

Hypothermia; Corticosterone; 5-HT_{1A} receptor; Flesinoxan; Handling (Zuideveld, K.P. (445) 43)

Pharmacology

Molecular genetics; Voltage-dependent calcium channel (Jones, O.T. (447) 211)

Pharmacoresistance

Epilepsy; Multidrug resistance gene; Antiepileptic drug (Seegers, U. (451) 149)

Phendimetrazine

Phendimetrazine; Dopamine; Norepinephrine; Microdialysis (Rothman, R.B. (447) 51)

Phenmetrazine

Phendimetrazine; Dopamine; Norepinephrine; Microdialysis (Rothman, R.B. (447) 51)

Phentolamine

Laser–Doppler flowmetry; Ultrasonic flowmetry; α -Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Lingual artery; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Phenylpropanoid glucoside

Buddleja officinalis Maxim; Verbascoside; Oxidative stress; Apoptosis; Parkinson's disease (Sheng, G.-Q. (451) 119)

Phenylpropanolamine

Adrenoceptor; α_{1A} -Adrenoceptor agonist; $\alpha_{1B/D}$ -Adrenoceptor antagonist; Urethra; ABT-866; Midodrine; ST-1059 (Buckner, S.A. (449) 159)

Phloracetophenone

Bile acid; Cholesterol; Cholesterol 7 α -hydroxylase; (*Curcuma comosa*) (Piyachaturawat, P. (439) 141)

Phosphatidyl inositol-specific

S-carboxymethylcysteine; Neutrophil; FMLP (*N*-formyl-methionyl-leucyl-phenylalanine); Phospholipase C (Ishii, Y. (449) 183)

Phosphodiesterase

Cyclic nucleotide; Cognition; Hippocampus (Prickaerts, J. (436) 83)

ANP (atrial natriuretic peptide); Atrium; cAMP; ANP (atrial natriuretic peptide) secretion; ANP (atrial natriuretic peptide) release (Cui, X. (451) 295)

Phosphodiesterase inhibitor

Atrial cell, human; Atrial cell, rabbit; Ca²⁺ current, L-type; Levosimendan (Ajiro, Y. (435) 27)

Phosphodiesterase 4 inhibitor

Allergy; Dermatitis; AWD 12-281; SB 207499; Toluenediisocyanate (Bäumer, W. (446) 193)

Phosphodiesterase isozyme

T-0156; Phosphodiesterase type 5 inhibitor; Cyclic guanosine monophosphate; Corpus cavernosum; Tumescence (Mochida, H. (456) 91)

Phosphodiesterase type 5

Heart failure; Cardiomyopathic hamster; Survival (Inoue, H. (443) 179)

Phosphodiesterase type 5 inhibitor

Aorta, rat; Relaxation; Ca²⁺ channel antagonist; Cyclic nucleotide (Mochida, H. (440) 45)

T-0156; Phosphodiesterase isozyme; Cyclic guanosine monophosphate; Corpus cavernosum; Tumescence (Mochida, H. (456) 91)

Phospholipase A₂

Anandamide; Capsaicin; Arachidonic acid; Prostaglandin F_{2 α} ; PC12 cell (Someya, A. (450) 131)

Phospholipase C

Urotensin II, human; Aorta contraction, rat; Protein kinase C; Tyrosine kinase; Rho-kinase; Somatostatin; Somatostatin-receptor antagonist (Rosowski, W.J. (438) 159)

Adenosine derivative; Purine; cAMP; Guanine nucleotide (Gao, Z.-g. (443) 39)

S-carboxymethylcysteine; Neutrophil; FMLP (*N*-formyl-methionyl-leucyl-phenylalanine); Phosphatidyl inositol-specific (Ishii, Y. (449) 183)

Phospholipase D

DMDI (1-(3',4'-dimethoxybenzyl)-6,7-dichloroisoquinoline); Neutrophil; Respiratory burst; Signal transduction; MAP (Mitogen-activated protein) kinase; Ca²⁺ concentration, cellular-free (Wang, J.-P. (434) 9)

Phosphoramidon

Urinary bladder; Tachykinin; Neurokinin A; Neutral endopeptidase; Urothelium (Warner, F.J. (438) 171)

³¹Phosphorus magnetic resonance spectroscopy

Heart, isolated, working; Ischemia; Metabolism; Diabetes, type 2; Glibenclamide; K_{ATP} channel (Legtenberg, R.J. (434) 35)

Phosphorylation

Desensitization; Protein kinase C; Mutation (Liang, M. (437) 41)

5-HT (5-hydroxytryptamine, serotonin); Hippocampus; 5-HT_{1A} receptor; Erk1/2; MAP (mitogen-activated protein) kinase; Immunoblotting (Chen, J. (452) 155)

Photoisomerization

Antidepressant; Cell proliferation; Fluvoxamine; 5-HT (5-hydroxytryptamine, serotonin) uptake; 5-HT (5-hydroxytryptamine, serotonin) re-uptake inhibitor, selective (Miolo, G. (450) 223)

Photorelaxation

Gastric fundus; (Mouse); Nitric oxide (NO); S-nitrosothiol; Thiol modulator; Glutathione (Ögülcener, N. (450) 267)

Physostigmine

Acetylcholinesterase isoform; Huperzine A; Tacrine; Donepezil; Rivastigmine; Alzheimer's disease; (Rat) (Zhao, Q. (455) 101)

Pial arterioles

Hypercapnia; Cerebral circulation; Arteriolar diameter; Guanylate cyclase; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); ODQ; SIN-1 (3-morpholinylsydnnonimine) (Rosenblum, W.I. (448) 201)

Pica

Cisplatin; Kaolin; Emesis; Delayed (Rudd, J.A. (454) 47)

Picotamide

Thromboxane A₂; Prostacyclin; Platelet; Vascular tissue; (Rabbit) (Buccellati, C. (443) 133)

Pinacidil

Diclofenac; Apamin; Charybdotoxin; Glibenclamide; Morphine (Ortiz, M.I. (438) 85)

ATP-sensitive K⁺i channel; Antinociception; Opioid receptor; Diabetes (Zushida, K. (453) 209)

4-PIOL (5-(4-piperidyl)-3-isoxazolol)

GABA_A receptor; *Xenopus* oocyte; Partial agonist; Structure–activity; Lipophilicity (Mortensen, M. (451) 125)

Pirfenidone

Inflammation; Cytokine; TNF- α (tumor necrosis factor- α); Translation; MAPK2 (mitogen-activated protein) kinase 2 (Nakazato, H. (446) 175)

Pitavastatin

3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor; Model of postprandial lipemia; Lymph chylomicron; Microsomal triglyceride transfer protein (Aoki, T. (444) 107)

Pituicyte

Baclofen; Lipopolysaccharide; Interleukin-6; cAMP; GABA_B receptor antagonist; Neurohypophysis (Kjeldsen, T.H. (451) 209)

Pituitary hormone

Ghrelin; Growth hormone secretagogue; Food intake, control of; Metabolic fuel; Obesity (Muccioli, G. (440) 235)

PKA (protein kinase A)

Hypothalamus–pituitary–adrenocortical axis; Morphine withdrawal; PKC (protein kinase C); Corticosterone; Noradrenaline turnover; Dopamine turnover (Cerezo, M. (452) 57)

PKC (protein kinase C)

Hypothalamus–pituitary–adrenocortical axis; Morphine withdrawal; PKA (protein kinase A); Corticosterone; Noradrenaline turnover; Dopamine turnover (Cerezo, M. (452) 57)

Endothelin; Sarafotoxin 6c; Endothelin ET_B receptor; Ro31-7549; Staurosporine; K252a; H89 (Uddman, E. (452) 215)

PKR (RNA-dependent protein kinase)

RNA, regulatory; NF- κ B (nuclear factor- κ B); Lipopolysaccharide; Macrophage (De Lucca, F.L. (450) 85)

Place conditioning

μ -Opioid receptor; Heroin; Knockout mice; Locomotor activity (Contarino, A. (446) 103)

Plasma

Prostaglandin E₂; Thromboxane A₂; Brain; Noradrenaline; Adrenaline; Sympathetic outflow; Adrenomedullary outflow (Murakami, Y. (452) 289)

Noradrenaline; Interleukin-1 β ; Nitric oxide (NO) synthase, inducible; Brain (Murakami, Y. (455) 73)

Plasma glucose

5-HT₇ receptor; 5-HT (5-hydroxytryptamine, serotonin); Body temperature; Dopamine D2 receptor; 5-HT₇ receptor antagonist (Kogan, H.A. (449) 105)

Platelet

Thromboxane A₂; Prostacyclin; Vascular tissue; Picotamide; (Rabbit) (Buccellati, C. (443) 133)

Von Willebrand factor (vWF); Thrombosis; Bleeding time; AJW200 (Kageyama, S. (443) 143)

Platelet aggregation

Atisine-type diterpene alkaloid; Arachidonic acid; Adenosine-5'-diphosphate; PAF (platelet-activating factor); Structure–activity relationship (Li, L. (449) 23)

Genistein; Thrombosis; Soy; Isoflavone (Kondo, K. (455) 53)

Platelet glycoprotein IIb/IIIa

Pro-aggregatory activity; Antithrombotic agent (Moritani, Y. (439) 43)

Platelet swelling assay

Na⁺/H⁺ exchanger (Marala, R.B. (451) 37)

Pleura

Actin; Angiotensin II; Angiotensin AT₁ receptor; Mesothelial cell; Pertussis toxin; Protein kinase C; Tyrosine kinase (Kawahara, M. (436) 15)

p38 MAPK

Lipoteichoic acid; Cyclooxygenase-2; p44/42 mitogen-activated protein kinase (MAPK); A549 cell (Lin, C.-H. (450) 1)

p38 MAP Kinase

Neuronal injury, acute; Cell culture; Neuroprotection; Ischemic cell death; Excitotoxicity (Legos, J.J. (447) 37)

p38 MAP (mitogen activated protein) kinase

Glycosylation end product; Advanced; Cyclooxygenase-2; RAW 264.7 cell (Lin, C.-H. (438) 143)

iNOS (inducible nitric oxide synthase); Lipopolysaccharide (Lahti, A. (454) 115)

p38 MAP (mitogen-activated protein) kinase inhibitor

FR167653; Carrageenan; Paw edema; Lipopolysaccharide; Vascular permeability (Nishikori, T. (451) 327)

p38 mitogen-activated protein kinase

Cell proliferation; Extracellular signal-regulated kinase; Transmural pressure; Vascular smooth muscle cell; Signal transduction (Tsuda, Y. (446) 15)

p44/42 mitogen-activated protein kinase (MAPK)

Lipoteichoic acid; Cyclooxygenase-2; p38 MAPK; A549 cell (Lin, C.-H. (450) 1)

Polyamines

Acamprosate; Memory, Social; Ifenprodil (Mikolajczak, P. (444) 83)

Polyglutamation

MX-68; Antifolate; Methotrexate; Dihydrofolate reductase; Arthritis model (Urakawa, K. (435) 237)

Poly-L-glutamic acid

Bronchial asthma; Low-molecular-weight heparin; Poly-L-lysine; Cationic–anionic interaction (Yahata, T. (434) 71)

Poly-L-lysine

Bronchial asthma; Low-molecular-weight heparin; Poly-L-glutamic acid; Cationic–anionic interaction (Yahata, T. (434) 71)

Polymorphism PI^{A1/A2} (platelet-specific antigen)

GPIIb-IIIa antagonist; Disintegrin; Integrilin; Eptifibatide; GR144053F (Rozalski, M. (454) 1)

Polymorphonuclear leukocyte, human

Inflammation; 5-Lipoxygenase; Cyclooxygenase; Transcellular metabolism; Adhesive interaction (Rotondo, S. (453) 131)

Polyvalent cation

Ca²⁺; Ca²⁺-sensing receptor; Calcimimetic compound (McLamon, S.J. (447) 271)

POMC (proopiomelanocortin)

Melanocortins; Melanocortin receptor; Neuropeptide; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); Energy homeostasis; Obesity; Sexual function (MacNeil, D.J. (440) 141)

POMC (pro-opiomelanocortin)

GALP (galanin-like peptide); Galanin GAL1 receptor; Galanin gal2 receptor; Leptin; Insulin; GnRH (gonadotropin-releasing hormone); Hypothalamus; Reproduction (Gundlach, A.L. (440) 255)

Popping

Topiramate; Schizophrenia; NMDA receptor (Deutsch, S.I. (449) 121)

Positive modulator

Neocortex, rat; Baclofen; SKF 97541; Fendiline; Prenylamine (Kerr, D.I.B. (451) 69)

Positive righting reflex

5-HT_{1A} receptor knockout mice; GABA_A–benzodiazepine receptor; (In vivo); Pentylentetrazol; Stress-induced hyperthermia (Pattij, T. (447) 67)

Potency

Acetylcholine receptor; Muscle relaxant; Interaction; Isobologram; *Xenopus* oocyte (Paul, M. (438) 35)

Potentiation

K⁺ channel, inwardly rectifying; Kir2.3; Tenidap; Arachidonic acid; Opener (Liu, Y. (435) 153)

PPADS

P2X receptor; P2Y receptor; Temperature dependency (Ziganshin, A.U. (456) 107)

PPAR (Peroxisome proliferator-activated receptor)

Thiazolidinedione; KU812 cell; Cell growth; Histamine secretion (Abe, A. (436) 7)

PPAR (peroxisome proliferator-activated receptor)

Atherosclerosis; Inflammation; NF-κB (nuclear factor-κB); EAhy926 cell (Rival, Y. (435) 143)

PPAR (peroxisome proliferator activated receptor)

Fibrate; Thiazolidinedione; Steatosis; Adipogenesis; Lipogenesis; Nuclear hormone receptor; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

PPARα (peroxisome proliferator-activated receptor)

RANTES; Bile acid; Chenodeoxycholic acid; NF-κB (Nuclear factor-κB); Fibrate (Hirano, Y. (448) 19)

4P-PDOT (4-phenyl-2-propionamidotetraline)

Constitutive activity; Melatonin MT₁ receptor (Erşahin, Ç. (439) 171) 171)

Prazosin

Laser–Doppler flowmetry; Ultrasonic flowmetry; α-Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Lingual artery; Phentolamine; Rauwolscine (Koss, M.C. (440) 53)

Dopamine; Norepinephrine; α₁-Adrenoceptor; Cocaine; Hypophagia; Hyperlocomotion; (Rat) (Wellman, P. (455) 117)

P2 receptor

Vas deferens, rat; ATP; Adenosine; Smooth muscle relaxation; Adenosine A₂ receptor; *Ecto*-protein kinase (Bültmann, R. (436) 135)

Preconditioning

CGRP (calcitonin gene-related peptide); Monophosphoryl lipid A; Ischemia–reperfusion; Capsaicin; Nitric oxide (NO) (Peng, J. (436) 89)

Preconditioning, delay

Myocardial infarction; Adenosine; Nitric oxide (NO) donor (Lellouche, N. (450) 179)

Pregnane X receptor

Bosentan; Glibenclamide; Cytochrome P450 enzyme induction (van Giersbergen, P.L.M. (450) 115)

Pregnenolone sulfate

Neurosteroid; Nicotinic acetylcholine receptor; Catecholamine secretion; Adrenal chromaffin cell (Kudo, K. (456) 19)

Prejunctional

BIIE0246; Neuropeptide Y Y₂ receptor; Sympathetic transmission (Malmström, R.E. (439) 113)

Prejunctional interaction

Angiotensin II; Bradykinin; Newborn, rat; Protein kinase C (Mota, A. (453) 265)

Prenylamine

Neocortex, rat; Baclofen; SKF 97541; Positive modulator; Fendiline (Kerr, D.I.B. (451) 69)

Preprotachykinin A mRNA

In situ hybridization; MDMA (3,4-methylene dioxymethamphetamine); Ecstasy (Pompei, P. (450) 245)

Prepulse inhibition

Catalepsy; Locomotor activity; Amphetamine; Dopamine; Parkinson's disease; Progressive supranuclear palsy (Ross, B.M. (450) 141)

Pro-aggregatory activity

Platelet glycoprotein IIb/IIIa; Antithrombotic agent (Moritani, Y. (439) 43)

Proarrhythmia

QT interval; K⁺ channel blocker; Torsade de pointes; α₁-Adrenoceptor stimulation; Clofilium; Erythromycin; Terikalant (Farkas, A. (449) 143)

Progressive supranuclear palsy

Catalepsy; Locomotor activity; Prepulse inhibition; Amphetamine; Dopamine; Parkinson's disease (Ross, B.M. (450) 141)

Prolactin

Antipsychotic; Benzamide; Depression (Marchese, G. (447) 109)

Antipsychotic; Benzamide (Marchese, G. (448) 263)

Prolidase

Melanin; Collagen; Gentamicin; Fibroblast (Wrześniok, D. (446) 7)

Proliferation

Alcohol; Vascular smooth muscle; Cell cycle; Atherosclerosis (Sayeed, S. (445) 163)

Prophylactic drug

5-HT₇ receptor; Migraine pathogenesis; 5-HT (5-hydroxytryptamine, serotonin) (Terrón, J.A. (439) 1)

Propiverine

Detrusor smooth muscle; Electrical field stimulation; Atropine; Oxybutynin; Tolterodine (Wüst, M. (454) 59)

Propofol

Cocaine; Ketamine; Immediate early gene; *egr-1*; Dopamine; Forebrain, rat (Jouvert, P. (449) 239)

Cerebral ischemia; Dopamine; Infarct size; (Rat) (Wang, J. (452) 303)

Prostacyclin

Thromboxane A₂; Platelet; Vascular tissue; Picotamide; (Rabbit) (Buccellati, C. (443) 133)

Stroke; Cerebral ischemia, focal; Thrombosis, photochemically induced; Middle cerebral artery occlusion; SHR (Stroke-prone spontaneously hypertensive rat) (Karasawa, Y. (449) 127)

Beraprost sodium; Renal dysfunction; Nephritis; Anti-glomerular basement membrane; MCP-1 (monocyte chemoattractant protein-1); Collagen (Yamada, M. (449) 167)

Prostaglandin

Gastric ulcer; Ulcer healing, chronic; Nonsteroidal anti-inflammatory drugs; Myeloperoxidase activity; Immunohistochemistry (Berenguer, B. (442) 125)

Prostanoid receptor; Bell-shaped curve; G-protein; Pertussis toxin; Partial agonist (Accomazzo, M.R. (454) 107)

Prostaglandin E₂

Blood flow; Glutathione; Mucus; Nicotine; Gastric ulcer (Wong, D. (434) 81)

PAF (platelet-activating factor); Interleukin-6; Thapsigargin; SK&F 98625; Macrophage (Ichinowatari, G. (434) 187)

Azelastine; Itch; Leukotriene B₄; Antihistamine; Scratching (Andoh, T. (436) 235)

Rutin; Wogonin; Quercetin; Lipopolysaccharide; Nitric oxide (NO) (Shen, S.-C. (446) 185)

Thromboxane A₂; Brain; Noradrenaline; Adrenaline; Plasma; Sympathetic outflow; Adrenomedullary outflow (Murakami, Y. (452) 289)

Prostaglandin F_{2α}

Ovarin uterine segment; Cervical uterine segment; Serotonin; Oxytocin; Uterine contractility (Oropeza, M.V. (446) 159)

Anandamide; Capsaicin; Arachidonic acid; Phospholipase A₂; PC12 cell (Someya, A. (450) 131)

Prostaglandins

Non-steroidal anti-inflammatory drugs; Cyclooxygenase (Amann, R. (447) 1)

Prostanoid

Hepatobiliary; Endothelin; Eicosanoid; Oddi sphincter; Common bile duct; Choledochoduodenal junction (Koepp, J. (435) 103)

Bicarbonate-dependent secretion; Cannabinoid; Enkephalin; Inflammatory mediator (Green, B.T. (451) 185)

Emesis; Defecation (Kan, K.K.W. (453) 299)

Prostanoid receptor

Uterus, porcine; DP receptor; FP receptor; EP receptor; Smooth muscle contractility (Cao, J. (442) 155)

Prostaglandin; Bell-shaped curve; G-protein; Pertussis toxin; Partial agonist (Accomazzo, M.R. (454) 107)

Prostate

α-Adrenoceptor; Spare receptor; Receptor reserve; Benign prostate hyperplasia (Thiyagarajan, M. (453) 335)

Prostate gland

Diabetes mellitus, type I; Benign prostatic hyperplasia; Noradrenaline; Protein kinase C (Ramasamy, S. (434) 151)

Protease (proteinase)

PAR-2 (protease-activated receptor-2); Gastric acid secretion; Gastric mucosal cytoprotection (Nishikawa, H. (447) 87)

Protein kinase C

Diabetes mellitus, type I; Prostate gland; Benign prostatic hyperplasia; Noradrenaline (Ramasamy, S. (434) 151)

K⁺ channel; Small-cell lung cancer, human; Multidrug resistance protein (Sakai, H. (435) 125)

Actin; Angiotensin II; Angiotensin AT₁ receptor; Mesothelial cell; Pleura; Pertussis toxin; Tyrosine kinase (Kuwahara, M. (436) 15)

Desensitization; Phosphorylation; Mutation (Liang, M. (437) 41)

Urotensin II, human; Aorta contraction, rat; Phospholipase C; Tyrosine kinase; Rho-kinase; Somatostatin; Somatostatin-receptor antagonist (Rosowski, W.J. (438) 159)

Lithium chloride; Bipolar mood disorder; Down regulation; 1321N1 human astrocytoma cell; Ca²⁺ mobilization, intracellular (Kurita, M. (442) 17)

Prejunctional interaction; Angiotensin II; Bradykinin; Newborn, rat (Mota, A. (453) 265)

Protein kinase C inhibitor

Angiotensin II desensitization; Phorbol dibutyrate (PDB); Membrane repolarization; Maxi-K⁺ channel recruitment; Ileum, guinea pig (Aboulafia, J. (442) 29)

Protein synthase inhibition

Penile bulb; Nitric oxide (NO); L-Arginine; (Rat) (Burcin İsmailoglu, U. (435) 113)

Protein turnover

Neuropeptide Y; (Rat); Cardiomyocyte; Hypertrophy; Receptor subtype; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); Skeletal-α-actin; MHC-β (myosin heavy chain-β) (Nicholl, S.M. (441) 23)

Proximal tubular reabsorption

Amiloride; Li⁺ clearance; NHE3; Na⁺Fractional excretion (Thomsen, K. (437) 85)

Proximal tubule

rGLP-1 (glucagon-like peptide-1-(7-36)amide), recombinant; Kidney; Hemodynamics, renal (Moreno, C. (434) 163)

Organic anion transporter; Cephalosporin antibiotic; Interaction (Takeda, M. (438) 137)

Pruritus

Itch; κ-Opioid receptor agonist; TRK-820 (Togashi, Y. (435) 259)

PSC-833

Active efflux; P-glycoprotein; MRP (multidrug resistance-associated protein); Glutathione; Taxol; Verapamil; MDR1 (Crowe, A. (440) 7)

P-selectin

Allergic conjunctivitis; Eosinophil peroxidase activity; Late-phase reaction; Histamine H₁ receptor (Izushi, K. (440) 79)

Psoriasis

FK506 (tacrolimus hydrate); Animal model; Allergic contact dermatitis (Fujii, Y. (456) 115)

Pteropodine

Isoteropodine; Heteroyohimbine-type oxindole alkaloid; Muscarinic M₁ receptor; 5-HT₂ receptor; *Xenopus* oocyte (Kang, T.-H. (444) 39)

Pulmonary

Tachykinin; Tachykinin NK₁ receptor; Tachykinin NK₂ receptor; Tachykinin NK₃ receptor (Anthes, J.C. (450) 191)

Pulmonary artery, rat

β-Adrenoceptor M₃ receptor; Nitric oxide (NO); MAP (mitogen-activated protein) kinase (Choy, W.Y. (434) 55)

Pulmonary edema

Radiographic contrast media; Vascular permeability; Evans blue; Carbazochrome; Endothelial barrier function (Sendo, T. (450) 203)

Pulmonary vein

β-Adrenoceptor agonist; cAMP; Adenylyl cyclase; SQ 22536; Smooth muscle, vascular (Gao, Y. (436) 227)

Pulsed infusion

Oxytocin; Renin secretion; Oxytocin receptor; β-Adrenoceptor; Renal denervation (Loichot, C. (454) 241)

Pulse therapy weekly

Methotrexate; MRL/lpr mouse; Survival; Myelosuppression (Asanuma, Y. (435) 253)

Purine

Adenosine derivative; cAMP; Phospholipase C; Guanine nucleotide (Gao, Z.-g. (443) 39)

Purinergic receptor

Ca²⁺ channel, voltage-sensitive; Detrusor smooth muscle; G-protein; Muscarinic receptor; Dihydropyridine (Kajioka, S. (443) 19)

Purinoceptor

Diadenosine polyphosphate; ATP; P2X₃ receptor; Desensitization (McDonald, H.A. (435) 135)

Vasopressin; Collecting tubule; Water permeability (Edwards, R.M. (438) 179)

Purinoreceptor

Glia; Ca²⁺; ATP; Astrocyte; Oligodendrocyte; Microglia; Axon; Signalling (James, G. (447) 247)

Purkinje fiber, rabbit

APD (action potential duration); Triangulation; Afterdepolarization, early; Long QT syndrome (Lu, H.R. (452) 183)

P2X₂ receptor

Ion channel; Ca²⁺; Multivalent cation block; Site-directed mutagenesis; *Xenopus* oocyte (Nakazawa, K. (449) 207)

P2Y purinoceptor

Acid extrusion; Microphysiometer; Na⁺/H⁺ exchanger (Okada, Y. (455) 19)

Pyrazole

Lipopolysaccharide; Antipyresis; Fever; Hypothermia; Mouse (Souza, F.R. (451) 141)

P2Y receptor

2,2'-Pyridylisatogen; Imine oxide; Spin trap; Motoneuron; ATP receptor antagonist; Neuroprotection; AMPA receptor (Menton, K. (444) 53)

Dinucleoside polyphosphate; Coronary artery; Isolated; Perfused; P2X receptor (van der Giet, M. (448) 207)

P2X receptor; Temperature dependency; PPADS (Ziganshin, A.U. (456) 107)

Pyrilamine

2-Cl-IB-MECA; Histamine; Adenosine receptor; Cytokine modulation (Smith, S.R. (457) 57)

Pyroloquinazoline

Eicosanoid; Cyclo-oxygenase-2; Air pouch, mouse; Carrageenan paw oedema; Analgesia (Rioja, I. (434) 177)

Q/R editing

Freund's adjuvant; LY382884; NS-102; NBQX; (Rat); Kainate receptor; Hyperalgesia (Guo, W. (452) 309)

QT interval

K⁺ channel blocker; Proarrhythmia; Torsade de pointes; α₁-Adrenoceptor stimulation; Clofilium; Erythromycin; Terikalant (Farkas, A. (449) 143)

QT prolongation

HERG channel; Antipsychotic; Arrhythmia; K⁺ channel (Kongsamut, S. (450) 37)

Q–T syndrome, long

Voltage-clamp; Flufenamic acid; Niflumic acid; HERG (ether-a-go-go related gene) (Malykhina, A.P. (452) 269)

Quercetin

Rutin; Wogonin; Lipopolysaccharide; Nitric oxide (NO); Prostaglandin E₂ (Shen, S.-C. (446) 185)

Quinacrine

Electrode; Endothelial cell; Nitric oxide (NO); Superoxide anion; Superoxide dismutase (David-Dufilho, M. (436) 159)

Quinolinic acid

Kynurenine; Kynurenic acid; Glutamate; Neuroprotection; Neurodegeneration (Stone, T.W. (447) 285)

Striatum; Hippocampus; Adenosine A_{2A} receptor; Neuroprotection (Tebano, M.T. (450) 253)

Quinpirole

Dopamine; Tyrosine loading, local; PD 128907; Striatum, dorsal; Nucleus accumbens (Fusa, K. (448) 143)

R-102444

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{2A} receptor antagonist; R-96544 (Ogawa, T. (457) 107)

R-715

Insulin-dependent diabetes mellitus; Hyperalgesia; Kinin; Bradykinin B₁ receptor; Des-Arg⁹-bradykinin; Bradykinin B₁ receptor antagonist; R-954 (Gabra, B.H. (457) 115)

R-96544

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{2A} receptor antagonist; R-102444 (Ogawa, T. (457) 107)

R-954

Insulin-dependent diabetes mellitus; Hyperalgesia; Kinin; Bradykinin B₁ receptor; Des-Arg⁹-bradykinin; Bradykinin B₁ receptor antagonist; R-715 (Gabra, B.H. (457) 115)

Radical scavenger

Cisplatin; Renal toxicity; Blood urea nitrogen; Creatinine; Glutathione (Sueishi, K. (451) 203)

Radioautography

Histidine decarboxylase; Histamine H₃ receptor; Betahistidine dihydrochloride; In situ hybridization; Vestibular nuclei; Tuberomammillary nuclei (Tighilet, B. (446) 63)

Radiographic contrast media

Pulmonary edema; Vascular permeability; Evans blue; Carbazochrome; Endothelial barrier function (Sendo, T. (450) 203)

Radioligand

Oxytocin receptor antagonist; Oxytocin; Oxytocin receptor; Vasopressin (Lemaire, W. (450) 19)

Radioligand binding

Nitric oxide (NO) synthase, neuronal; Calmodulin; Ca²⁺ (Weissman, B.A. (435) 9)

Opioid receptor; Etorphine derivative; [³⁵S]GTPγS binding; Brain, rat (Biyashev, D. (442) 23)

Morphine; Cocaine; Dopamine; Conditioned place preference; 5-HT (5-hydroxytryptamine, serotonin) reuptake inhibitor, selective; HPLC (High performance liquid chromatography) (Deslandes, P.N. (453) 223)

β₂-Adrenoceptor; Molecular cloning; cAMP; Single nucleotide polymorphism (Oostendorp, J. (457) 1)

Bile acid; Inositol phosphate formation; MAP (mitogen activated protein) kinase (p44/p42) phosphorylation; Molecular modeling; Muscarinic receptor (Raufman, J.-P. (457) 77)

Radioligand binding study

(+)-Boldine; α₁-Adrenoceptor; α₂-Adrenoceptor; Subtype; Selectivity; Functional experiment; Ca²⁺ channel antagonism; Cardiac effect (Eltze, M. (443) 151)

Radiotelemetry

Ethanol; NECA (5'-N-ethylcarboxamidoadenosine); Nitric oxide (NO); Blood pressure; Aorta (Rekik, M. (452) 205)

Raf-1

Adenylyl cyclase superactivation; δ-Opioid receptor, human (Varga, E.V. (451) 101)

Raloxifene

Estrogen; Nitric oxide (NO); Nitric oxide (NO) synthase, endothelial (Rahimian, R. (434) 141)

1-R-aminoindan

Parkinson's disease; Rasagiline; Selegiline; L-methamphetamine; Neurotoxicity; Neuroprotection; Oxygen–glucose deprivation (Abu-Raya, S. (434) 109)

RAMP (Receptor activity-modifying protein)

Adrenomedullin; CGRP (calcitonin gene-related peptide); CRL (Calcitonin receptor-like) receptor; α-CGRP-(8–37); cAMP (Nagoshi, Y. (450) 237)

Ranitidine

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Histamine; Mast cell; Terfenadine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

RANTES

Bile acid; Chenodeoxycholic acid; NF-κB (Nuclear factor-κB); Fibrate; PPARα (peroxisome proliferator-activated receptor) (Hirano, Y. (448) 19)

Rapamycin

Bronchial hyperresponsiveness; Airway inflammation; IMM125; SAR943; Budesonide; Th1 cytokine; Th2 cytokine (Huang, T.-J. (437) 187)

Raphe

5-HT_{1A} receptor mutant mouse; Autoreceptor; Heteroreceptor; Cortex, frontal; Hippocampus (Richer, M. (435) 195)

Raphe nucleus

Vagus; Brain stem; Autonomic nervous system; 5-HT (5-hydroxytryptamine, serotonin) (Varanasi, S. (436) 67)

Rasagiline

Parkinson's disease; Selegiline; 1-R-aminoindan; L-methamphetamine; Neurotoxicity; Neuroprotection; Oxygen–glucose deprivation (Abu-Raya, S. (434) 109)

Rauwolfscine

Laser–Doppler flowmetry; Ultrasonic flowmetry; α-Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Lingual artery; Phentolamine; Prazosin (Koss, M.C. (440) 53)

RAW 264.7 cell

Glycosylation end product; Advanced; Cyclooxygenase-2; p38 MAP (mitogen activated protein) kinase (Lin, C.-H. (438) 143)

RB101

Neutral endopeptidase; Aminopeptidase N; Enkephalin; Analgesia; C-fibre reflex (Benoist, J.-M. (445) 201)

Reactive oxygen metabolite

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Histamine; Mast cell; Terfenadine; Ranitidine; Ketotifen; Neutrophil (Luk, H.H. (443) 197)

Reactive oxygen species

Inflammation; Catecholamine; 5-HT (5-hydroxytryptamine, serotonin); Peripheral resistance; Indole-2,3-dione (Tozawa, Y. (440) 37)

MGC-803 cell; Arsenite; α-tocopherol; Apoptosis; Ca²⁺, intracellular (Chen, A. (448) 11)

Haloperidol; Nicergoline; Metabolite; Glutathione (Vairetti, M. (453) 69)

Reactive oxygen species, Ca²⁺

Leukocytes; In vitro; Chemiluminescence; Hypoxia (Sanidas, D. (453) 183)

Rearing

Neonatal rat; NMDA receptor; D-cycloserine; (Adult rat); Discrimination task (Strømme Johannesen, T. (437) 73)

Reboxetine

Forced swim test; DSP-4; Ventral noradrenergic bundle; Antidepressant (Cryan, J.F. (436) 197)

Paroxetine; Moclobemide; μ-Opioid receptor; δ-Opioid receptor; Chronic treatment (Vilpoux, C. (443) 85)

Receptor

Cannabinoid; Anandamide; Tetrahydrocannabinol; Structure–activity relationship (Martin, B.R. (435) 35)

Glutamate; Transporter; Cell death; Oligodendrocyte; Demyelination (Matute, C. (447) 239)

σ Receptor

TNF- α (tumor necrosis factor); Interleukin-10; Autoimmune disease (Bourri , B. (456) 123)

SH-SY5Y neuroblastoma; Ca²⁺, intracellular; Muscarine; (+)-Pentazocine; Haloperidol (Hong, W. (436) 35)

Ceramide; Apoptosis (Crawford, K.W. (443) 207)

U-50,488H; (+)-SKF10,047; κ -Opioid receptor; Y-maze; Short-term memory (Hiramatsu, M. (453) 91)

 ω_1 receptor

Zaleplon; Nonbenzodiazepine; Hypnotic; Binding assay; EEG (electroencephalogram) (Noguchi, H. (434) 21)

 σ Receptor ligand

Chemical ischemia; Glutamate; Neurotoxicity; Cortical culture (Kume, T. (455) 91)

Receptor affinity

Buoyant density separation; Endocytosis rate; Endosomal sorting; Lysosomal sorting; Selective agonist endocytosis; Receptor conservation (Parker, M.S. (452) 279)

Receptor antagonist

(MCH) melanin-concentrating hormone; SLC-1 receptor; Food intake; Obesity (Takekawa, S. (438) 129)

Receptor autoradiography

Relaxin; (INSL3) Insulin-like peptide 3; Atria, rat; Chronotropic; Inotropic (Tan, Y.Y. (457) 153)

Receptor binding

Ca²⁺, intracellular; CCL18, I-TAC; vMIP; Small molecule antagonist; Constitutive activity (Wan, Y. (456) 1)

Receptor binding site

Scorpion neurotoxin; BmK abT; Na⁺ channel; BIAcore assay (Ji, Y.-H. (454) 25)

Receptor conservation

Buoyant density separation; Endocytosis rate; Endosomal sorting; Lysosomal sorting; Selective agonist endocytosis; Receptor affinity (Parker, M.S. (452) 279)

Receptor reserve

[³⁵S]GTP γ S binding; μ -Opioid receptor; G-protein; GABA_B receptor; Brain, human; Signal transduction (Gonz lez-Maeso, J. (452) 21)

α -Adrenoceptor; Spare receptor; Prostate; Benign prostate hyperplasia (Thiyagarajan, M. (453) 335)

Receptor subtype

Neuropeptide Y; (Rat); Cardiomyocyte; Hypertrophy; Protein turnover; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); Skeletal- α -actin; MHC- β (myosin heavy chain- β) (Nicholl, S.M. (441) 23)

Receptor trafficking

(SRIF) Somatostatin; Somatostatin sst₅ receptor, goldfish; Luciferase; (SRE) Serum responsive element; ([³⁵S]GTP γ S) (Nunn, C. (436) 173)

Receptor up-regulation

μ -Opioid receptor; Naltrexone; Constitutive internalization; Dynamin-2; G-protein receptor kinase-2 (Patel, M. (446) 37)

Recognition memory, rat

Nitric oxide (NO); L-NAME (N^o-nitro-L-argininemethylester); Molsidomine (Pitsikas, N. (452) 83)

Recombinant

Zaleplon; Zolpidem; Benzodiazepine; GABA_A receptor; Cl[−] current; *Xenopus* oocyte (Sanna, E. (451) 103)

Recombinant expression

Nicotinic acetylcholine receptor; α 7 Subunit; Perforated patch-clamp; PC12 cell; GH4C1 cell (Vir nio, C. (445) 153)

Reflex bradycardia

Aging; Angiotensin; Blood pressure; Heart rate; Ketanserin; Urapidil (Bu ag, R.D. (435) 85)

Relaxation

Phosphodiesterase type 5 inhibitor; Aorta, rat; Ca²⁺ channel antagonist; Cyclic nucleotide (Mochida, H. (440) 45)

Relaxin

(INSL3) Insulin-like peptide 3; Atria, rat; Chronotropic; Inotropic; Receptor autoradiography (Tan, Y.Y. (457) 153)

Remacemide

Desglyciny-remacemide; Antiepileptic drug; Na⁺ channel; Synaptosome, Rat (Santangeli, S. (438) 63)

Remodeling

Heart failure; Myocardial infarction; Vasopressin receptor antagonism (Van Kerckhoven, R. (449) 135)

REM (rapid eye movement) sleep

Animal model; Depression, endogenous; 5-HT (5-hydroxytryptamine, serotonin); Mianserin; mCPP (Mavanji, V. (455) 35)

Renal artery

Genistein; Estradiol-17 β ; SHR (Spontaneously hypertensive rat); Tyrosine phosphorylation (Nevala, R. (452) 87)

Renal artery, rabbit

Endothelium; Diabetes; Nitric oxide (NO); 5-HT (5-hydroxytryptamine, serotonin); Cyclooxygenase (Miranda, F.J. (439) 121)

Renal denervation

Oxytocin; Renin secretion; Oxytocin receptor; β -Adrenoceptor; Pulsed infusion (Loichot, C. (454) 241)

Renal dysfunction

Beraprost sodium; Prostacyclin; Nephritis; Anti-glomerular basement membrane; MCP-1 (monocyte chemoattractant protein-1); Collagen (Yamada, M. (449) 167)

Renal hemodynamics

DOI; 5-HT₂ receptor; Nitric oxide (NO); Sarpogrelate; Microdialysis (Tian, R.-X. (437) 79)

Renal interstitial fibrosis

Unilateral ureteral obstruction; Macrophage; Rho-kinase; Fasudil (Satoh, S.-i. (455) 169)

Renal toxicity

Cisplatin; Radical scavenger; Blood urea nitrogen; Creatinine; Glutathione (Sueishi, K. (451) 203)

Renin–angiotensin system

Affective disorder; Cognition; Memory (Gard, P.R. (438) 1)

Renin secretion

Oxytocin; Oxytocin receptor; β -Adrenoceptor; Renal denervation; Pulsed infusion (Loichot, C. (454) 241)

Repaglinide

S 21403; Glibenclamide; Pancreas, isolated, rat; Insulin release; Glucagon release (Gregorio, F. (456) 141)

Repair

Cholecystokinin-B/gastrin receptor antagonist; Chondrocyte; Articular cartilage; (Rabbit); Osteochondral defect (Nakanishi, T. (439) 135)

Reperfusion

Heat shock protein 70; Ischemia; Infarct size (Lubbers, N.L. (435) 79)

Apoptosis; Cardiomyocyte; Caspase; Infarct; Ischemia (Chapman, J.G. (456) 59)

Reperfusion arrhythmia

Nicorandil; Aprikalim; K_{ATP} channel, mitochondrial; Coronary occlusion; Myocardial ischemia (Das, B. (437) 165)

Reperfusion injury

Endothelial dysfunction; Neutrophil adhesion; Endothelium glycocalyx; Heart, guinea-pig, isolated; Oxygen free radical (Kurzelewski, M. (434) 95)

Reproduction

GALP (galanin-like peptide); Galanin GAL1 receptor; Galanin gal2 receptor; Leptin; Insulin; POMC (pro-opiomelanocortin); GnRH (gonadotropin-releasing hormone); Hypothalamus (Gundlach, A.L. (440) 255)

Reserpine

Dopamine transporter; VMAT-2 (vesicular monoamine transporter-2); Striatum (Metzger, R.R. (456) 39)

Respiration

Anti-ischemic molecule; Hypoxia; Mitochondrion; Complex I; Endothelial cell (Bouaziz, N. (441) 35)

Morphine; Naloxone; Naloxone methiodide; Withdrawal (Lewanowitsch, T. (445) 61)

Respiratory burst

DMDI (1-(3',4'-dimethoxybenzyl)-6,7-dichloroisoquinoline); Neutrophil; Signal transduction; Phospholipase D; MAP (Mitogen-activated protein) kinase; Ca^{2+} concentration, cellular-free (Wang, J.-P. (434) 9)

Respiratory distress syndrome, adult

Neutrophil elastase; Lung injury, acute; Permeability; Edema (Kawabata, K. (451) 1)

Retention

Passive avoidance; Histaminergic agent; Opioid; (Rat) (Zarrindast, M.-R. (452) 193)

Retractor penis muscle, bovine

Catalase; Nitric oxide (NO); Nitroxyl anion; Nitrovasodilator; Aorta, rat (Shahidullah, M. (435) 93)

Reuptake

4-MTA (4-methylthioamphetamine); 4-MTMA (4-methylthiomethamphetamine); MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Synaptosome; Aortic contraction (Murphy, J.E.J. (444) 61)

Reward

D-methamphetamine; Conditioned place preference; Nitric oxide (NO); 7-Nitroindazole (Li, S.-M. (435) 217)

rGLP-1 (glucagon-like peptide-1-(7-36)amide), recombinant

Kidney; Hemodynamics, renal; Proximal tubule (Moreno, C. (434) 163)

Rhein

Diacerein; Inflammation; Arthritis; Bone (Tamura, T. (448) 81)

(Rhesus monkey)

SR141716; Cocaine; Self-administration (Beardsley, P.M. (435) 209)

Rheumatoid arthritis

Peroxisome proliferator-activated receptor (PPAR γ); Nitrotyrosine; Inflammation; Temporomandibular joint (Shiojiri, T. (448) 231)

Benzodiazepine receptor, peripheral; SSR 180575; Mrl/lpr mouse; Chondrocyte (Bribes, E. (452) 111)

RhoA/Rho-kinase

Penile erection; Nitric oxide (NO) (Mills, T.M. (439) 173)

Rho-associated kinase

Cerebral artery; Hypertension; Nitric oxide (NO); K^+ channel; Y-27632 (Kitayama, J. (438) 153)

Rho-kinase

Urotensin II, human; Aorta contraction, rat; Phospholipase C; Protein kinase C; Tyrosine kinase; Somatostatin; Somatostatin-receptor antagonist (Rossowski, W.J. (438) 159)

Unilateral ureteral obstruction; Renal interstitial fibrosis; Macrophage; Fasudil (Satoh, S.-i. (455) 169)

Rho protein

HMG-CoA reductase inhibitor; Cardiac hypertrophy; Endothelin; Myocyte (Nishikimi, T. (453) 175)

Rhynchophylline

Isorhynchophylline; NMDA receptor; Glycine site (Kang, T.-H. (455) 27)

RIII threshold

Nimesulide; Cyclo-oxygenase; Nitric oxide (NO); Pain (Sandrini, G. (450) 259)

Risk factor

Antioxidant; Atherosclerosis; Cell proliferation; Green tea catechin; LDL (low-density lipoprotein); Mitogen-activated kinase; Smooth muscle cell, vascular (Locher, R. (434) 1)

Risperidone

Action potential; Transient outward current; Delayed rectifier current; Inward rectifier current; Heart, rabbit (Gluais, P. (444) 123)

Rivastigmine

Acetylcholinesterase isoform; Huperzine A; Tacrine; Donepezil; Physostigmine; Alzheimer's disease; (Rat) (Zhao, Q. (455) 101)

[^{11}C]RN5

α_1 -Adrenoceptor antagonist; PET (positron emission tomography); Biodistribution (Matarrese, M. (453) 231)

RNA, regulatory

PKR (RNA-dependent protein kinase); NF- κ B (nuclear factor- κ B); Lipopolysaccharide; Macrophage (De Lucca, F.L. (450) 85)

R-NCS-382

GHB (gamma-hydroxybutyrate) binding site; RS-NCS-382; S-NCS-382; Baclofen; GABA $_B$ receptor (Castelli, M.P. (446) 1)

Ro31-7549

PKC (protein kinase C); Endothelin; Sarafotoxin 6c; Endothelin ET_B receptor; Staurosporine; K252a; H89 (Uddman, E. (452) 215)

Rofecoxib

Endothelin ET_B receptor; Cyclooxygenase; Interleukin-1 β ; NSAID (non-steroidal anti-inflammatory drug); Glucocorticoid (White, L.R. (448) 51)

Rolipram

Penile artery; Penile vein; Milrinone; cAMP pathway (Segarra, G. (444) 103)

Ropivacaine

Lidocaine; Bupivacaine; Cholesterol; Membrane ionic permeability (Pardo, L. (455) 81)

Rosmarinic acid

Caffeic acid; Forced swimming test; Antidepressant; (Mouse) (Takeda, H. (449) 261)

Rostral ventrolateral medulla

α_2 -Adrenoceptor; Sympathetic nerve activity; Blood pressure; Clonidine; Methoxy-idazoxan (Vayssettes-Courchay, C. (453) 287)

RS-0466

β -Amyloid; Alzheimer's disease; MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide); Akt; Long-term potentiation; Hippocampus (Nakagami, Y. (457) 11)

RS-NCS-382

GHB (gamma-hydroxybutyrate) binding site; R-NCS-382; S-NCS-382; Baclofen; GABA_B receptor (Castelli, M.P. (446) 1)

RTI 113

Cocaine; Discriminative stimulus effect; Drug discrimination; (Rat); (Squirrel monkey) (Cook, C.D. (442) 93)

RT-PCR (reverse transcriptase–polymerase chain reaction)

Cyclophosphamide; HL-60; CYP1B1; PCR (polymerase chain reaction), real-time; β -Actin; Cytotoxicity; Multidrug resistance (Xie, H.-J. (449) 197)

RU28318

Mineralocorticoid hypertension; Brain; Diuresis; Angiotensinogen (Rahmouni, K. (436) 207)

Rutin

Wogonin; Quercetin; Lipopolysaccharide; Nitric oxide (NO); Prostaglandin E₂ (Shen, S.-C. (446) 185)

Ryanodine

Caffeine; Thapsigargin; Aging; Excitotoxicity; Endoplasmic reticulum; Ca²⁺ imaging (Clodfelter, G.V. (447) 189)

S12911-2

Osteoclast; Bone resorption; Differentiation (Baron, R. (450) 11)

S 21403

Repaglinide; Glibenclamide; Pancreas, isolated, rat; Insulin release; Glucagon release (Gregorio, F. (456) 141)

Salivation

Muscarinic receptor antagonist; Urinary bladder; Micturition reflex; Bradycardia (Hirose, H. (452) 245)

SAR943

Bronchial hyperresponsiveness; Airway inflammation; Rapamycin; IMM125; Budesonide; Th1 cytokine; Th2 cytokine (Huang, T.-J. (437) 187)

Sarafotoxin 6c

PKC (protein kinase C); Endothelin; Endothelin ET_B receptor; Ro31-7549; Staurosporine; K252a; H89 (Uddman, E. (452) 215)

Sardinian alcohol-preferring (sP) rat

Cannabinoid CB₁ receptor antagonist, SR 141716; Alcohol deprivation effect (Serra, S. (443) 95)

Morphine; Naloxone; Cannabinoid; SR 141716; Alcohol intake (Vacca, G. (445) 55)

Sarpogrelate

DOI; 5-HT₂ receptor; Renal hemodynamics; Nitric oxide (NO); Microdialysis (Tian, R.-X. (437) 79)

Satiety

Adipostat; Leptin; Hypothalamus; Obesity; Appetite (Larsen, P.J. (440) 159)

GLP-1 (glucagon-like peptide 1); Obesity; Food intake (Meier, J.J. (440) 269)

Saturation binding

Sterptozotocin-induced diabetes; Morphine; Tail-flick; antinociception; Nimodipine; [³H]PN200-110; $B_{\max}$ (Gullapalli, S. (435) 187)

SB-334867

Orexin; Hypocretin; Feeding; Narcolepsy; Sleep–wake cycle (Smart, D. (440) 199)

SB 207499

Allergy; Dermatitis; Phosphodiesterase 4 inhibitor; AWD 12-281; Toluenedisocyanate (Bäumer, W. (446) 193)

SB-334867-A

Orexin-A; Orexin-1 receptor; Acetylcholine release; Tetrodotoxin (Matsuo, K. (452) 105)

SC-51

Nitric oxide (NO); Nitric oxide (NO) synthase 2; Bronchial hyperresponsiveness; Airway inflammation (Eynott, P.R. (452) 123)

S-carboxymethylcysteine

Neutrophil; FMLP (*N*-formyl-methionyl-leucyl-phenylalanine); Phospholipase C; Phosphatidyl inositol-specific (Ishii, Y. (449) 183)

Schizophrenia

Locomotion; Open field; Nucleus accumbens; Startle; Ventral tegmental area (Schwienbacher, I. (444) 161)

Extrapyramidal side-effect; Catalepsy; Neuroleptic; Antipsychotic; Dopamine D2 receptor; 5-HT_{1A} receptor; Intrinsic activity (Prinssen, E.P.M. (453) 217)

Topiramate; NMDA receptor; Popping (Deutsch, S.I. (449) 121)

Schultz–Dale reaction

Bronchus; Ovalbumin; Histamine; Leukotriene D₄; Arachidonic acid (Seow, C.-J. (443) 189)

Sciatic nerve

Lidocaine; Tramadol; Sucrose-gap; Compound action potential (Mert, T. (439) 77)

Morphine; Opioid; Spinal cord (Kouya, P.F. (450) 49)

Scopolamine

EEG (electroencephalogram); Neocortex; Acetylcholinesterase inhibitor; Monoamine oxidase inhibitor; 5-HT receptor agonist; Forebrain basal; (Rat) (Dringenberg, H.C. (447) 43)

Scorpion neurotoxin

BmK abT; Na⁺ channel; Receptor binding site; BIAcore assay (Ji, Y.-H. (454) 25)

Scratching

Azelastine; Itch; Leukotriene B₄; Antihistamine; Prostaglandin E₂ (Andoh, T. (436) 235)

Scratching behavior

Compound 48/80; Histamine; 5-HT (5-hydroxytryptamine, serotonin); Mast cell; MicroAct (Inagaki, N. (448) 175)

Secretagogue

Hexarelin; Ghrelin; GHRH (growth hormone-releasing hormone); Cardiac performance; Coronary artery disease (Broglio, F. (448) 193)

Seizure

Nitric oxide (NO); 4-Aminopyridine; N^G-nitro-L-arginine; Molsidomine; Epilepsy (Tutka, P. (437) 47)

Epilepsy; Electroshock, maximal; Cannabinoid; Cannabinoid CB₁ receptor; Anandamide; O-1812 (Wallace, M.J. (452) 295)

Seizures

GABA_B receptor antagonist, SCH 50911; Ethanol withdrawal syndrome; (Rat) (Carai, M.A.M. (445) 195)

Selectin

Partial liquid ventilation; Acute respiratory distress syndrome; Aerosol; ICAM-1 (intercellular adhesion molecule-1) (Schoof, E. (457) 195)

Selective agonist endocytosis

Buoyant density separation; Endocytosis rate; Endosomal sorting; Lysosomal sorting; Receptor affinity; Receptor conservation (Parker, M.S. (452) 279)

Selectivity

(+)-Boldine; α₁-Adrenoceptor; α₂-Adrenoceptor; Subtype; Functional experiment; Radioligand binding study; Ca²⁺ channel antagonism; Cardiac effect (Eltze, M. (443) 151)

Selegiline

Parkinson's disease; Rasagiline; 1-*R*-aminoindan; L-methamphetamine; Neurotoxicity; Neuroprotection; Oxygen–glucose deprivation (Abu-Raya, S. (434) 109)

Self-administration

SR141716; Cocaine; (Rhesus monkey) (Beardsley, P.M. (435) 209)

Sensitization

Conditioned fear stress; Amygdala; Dopamine; Methamphetamine (Suzuki, T. (435) 59)

Cocaine; Dosing regimen; Locomotion (Davidson, C. (441) 75)

5-HT₃ receptor; Cocaine; Tropicisetron; LY 278,584; Tolerance; (Rat) (King, G.R. (449) 253)

Cocaine; 5-HT₂ receptor; Withdrawal; Locomotion; Behavioral rating (Davidson, C. (453) 255)

Sensory nerve

Cannabinoid; Sympathetic neurotransmission; Mesenteric arterial bed, rat; Capsaicin; Methanandamide (Ralevic, V. (444) 171)

Sensory neurons

Ginseng; Ginsenoside; Antinociception; Patch-clamp; Ca²⁺ channel current; Pertussis toxin (Rhim, H. (436) 151)

Sephadex

Airway hyperreactivity; Neurokinin A; Substance P; Tachykinin receptor; Nepadutant; MEN 11467; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Septide

Spinal analgesia; Biting, scratching, licking (BSL); NMDA; [Nphe¹]nociceptin-(1-13)-NH₂ (Villanueva, N. (445) 83)

Septum

GABA_A receptor; Malnutrition (Steiger, J.L. (446) 199)

Sequencing

5-HT_{1F} receptor; Cloning; 5-HT (5-hydroxytryptamine, serotonin); Ligand binding; Migraine, (Pig); Trigeminal ganglion (Bhalla, P. (436) 23)

Serotonin–norepinephrine reuptake inhibitor

Obesity; Sibutramine; Thermogenesis; Weight loss (Luque, C.A. (440) 119)

Serotonin transporter

MDMA; *p*-Chlorophenylalanine; 5-HT; Neuroadaptation (Boot, B.P. (453) 239)

Serotonin uptake inhibitor

5-Hydroxytryptamine (5-HT, serotonin); Microdialysis; Anti-obesity agent; Amphetamine; Fenfluramine (Tao, R. (445) 69)

Serum response element (SRE)

Ca²⁺; Transcription; cAMP response element binding protein (CREB); CREB binding protein (CBP) (Chawla, S. (447) 131)

Sex difference

μ-Opioid receptor agonist; κ-Opioids receptor agonist; Antinociception; Mechanical; (Rat) (Barrett, A.C. (452) 163)

Sexual function

Melanocortins; Melanocortin receptor; Neuropeptide; ACTH (adrenocorticotrophic hormone); AgRP (agouti-related protein); POMC (proopiomelanocortin); Energy homeostasis; Obesity (MacNeil, D.J. (440) 141)

SGLT1

Acarbose; Intestinal glucose transport; GLUT1; GLUT2; Diabetes mellitus (Paiva, L. (434) 197)

Short-term memory

Adenosine A₁ receptor; Cortex, posterior cingulate; Long-term memory (Pereira, G.S. (437) 151)

U-50,488H; (+)-SKF10,047; κ-Opioid receptor; σ Receptor; Y-maze (Hiramatsu, M. (453) 91)

SHR (Spontaneously hypertensive rat)

Genistein; Estradiol-17β; Renal artery; Tyrosine phosphorylation (Nevala, R. (452) 87)

SHR (Stroke-prone spontaneously hypertensive rat)

Stroke; Cerebral ischemia, focal; Thrombosis, photochemically induced; Middle cerebral artery occlusion; Prostacyclin (Karasawa, Y. (449) 127)

SH-SY5Y neuroblastoma

σ Receptor; Ca²⁺, intracellular; Muscarine; (+)-Pentazocine; Haloperidol (Hong, W. (436) 35)

Sibutramine

Obesity; Serotonin–norepinephrine reuptake inhibitor; Thermogenesis; Weight loss (Luque, C.A. (440) 119)

BTS 54 505; Duloxetine; Bupropion; Thermogenesis; Food intake (Liu, Y.-L. (452) 49)

Signalling

Glia; Ca^{2+} ; ATP; Purinoreceptor; Astrocyte; Oligodendrocyte; Microglia; Axon (James, G. (447) 247)

Signal transduction

DMDI (1-(3',4'-dimethoxybenzyl)-6,7-dichloroisoquinoline); Neutrophil; Respiratory burst; Phospholipase D; MAP (Mitogen-activated protein) kinase; Ca^{2+} concentration, cellular-free (Wang, J.-P. (434) 9)

Cell proliferation; Extracellular signal-regulated kinase; p38 mitogen-activated protein kinase; Transmural pressure; Vascular smooth muscle cell (Tsuda, Y. (446) 15)

[^{35}S]GTP γS binding; μ -Opioid receptor; G-protein; GABA $_B$ receptor; Brain, human; Receptor reserve (González-Maeso, J. (452) 21)

β -Adrenoceptor antagonist; Endothelin-1; TGF- β_1 (transforming growth factor- β_1) (Tsubokou, Y. (457) 85)

Sildenafil

Nitric oxide (NO) donor; Non-nitric oxide (NO) donor; Vasodilation; cGMP; Coronary artery, porcine (Sakuma, I. (437) 155)

Silymarin

Asthma; Hyperreactivity (Breschi, M.C. (437) 91)

Simulated ischemia-reperfusion

Cardiomyocyte; Cell culture; Electrophysiology; Cell contraction; Adenosine receptor; (Rat) (Bès, S. (452) 145)

Single-nucleotide polymorphism

Coronary heart disease; Chinese population study; Dyslipidemia; Lipoprotein lipase gene; High-density lipoprotein; Triglyceride (Su, Z.G. (454) 9)

Single nucleotide polymorphism

β_2 -Adrenoceptor; Molecular cloning; Radioligand binding; cAMP (Oostendorp, J. (457) 1)

SIN-1 (3-morpholinomethylsulfonamide)

Hypercapnia; Cerebral circulation; Arteriolar diameter; Pial arterioles; Guanylate cyclase; Nitric oxide (NO); NMDA (*N*-methyl-D-aspartate); ODQ (Rosenblum, W.I. (448) 201)

Site-directed mutagenesis

Melatonin MT $_2$ receptor, human; Melatonin MT $_1$ receptor, human; Cysteine; Thiol agents; HEK-293 cell (Msee, F. (449) 29)

P2X $_2$ receptor; Ion channel; Ca^{2+} ; Multivalent cation block; *Xenopus* oocyte (Nakazawa, K. (449) 207)

SK channel

K^+ channel; Ca^{2+} ; Dequalinium; Afterhyperpolarization; Neuron (Cao, Y.-J. (449) 47)

SK3 channel

TE671 cell line; Antidepressant, tricyclic; Desipramine; Imipramine (Carignani, C. (448) 139)

Skeletal- α -actin

Neuropeptide Y; (Rat); Cardiomyocyte; Hypertrophy; Protein turnover; Receptor subtype; MLC-2 (myosin light chain-2); ANP (atrial natriuretic peptide); MHC- β (myosin heavy chain- β) (Nicholl, S.M. (441) 23)

SK&F 98625

PAF (platelet-activating factor); Interleukin-6; Prostaglandin E $_2$; Thapsigargin; Macrophage (Ichinowatari, G. (434) 187)

SKF 81297

Dopamine; Dopamine D1 receptor; Motor activity; Grooming; Attention-deficit hyperactivity disorder (Heijtz, R.D. (445) 97)

SKF 97541

Neocortex, rat; Baclofen; Positive modulator; Fendiline; Prenylamine (Kerr, D.I.B. (451) 69)

(+)-SKF10,047

U-50,488H; κ -Opioid receptor; σ Receptor; Y-maze; Short-term memory (Hiramatsu, M. (453) 91)

SLC-1 receptor

(MCH) melanin-concentrating hormone; Receptor antagonist; Food intake; Obesity (Takekawa, S. (438) 129)

Sleep–wake cycle

Orexin; Hypocretin; SB-334867; Feeding; Narcolepsy (Smart, D. (440) 199)

Small-cell lung cancer, human

K^+ channel; Protein kinase C; Multidrug resistance protein (Sakai, H. (435) 125)

Small-conductance Ca^{2+} -activated K^+ (SK_{Ca}) channel

PACAP (pituitary adenylate cyclase-activating polypeptide); Large-conductance Ca^{2+} -activated K^+ (SK_{Ca}) channel; Adrenal gland, rat; Catecholamine secretion (Fukushima, Y. (437) 69)

Small molecule antagonist

Receptor binding; Ca^{2+} , intracellular; CCL18, I-TAC; vMIP; Constitutive activity (Wan, Y. (456) 1)

Smoke

Hyperreactivity; Nasal irritation; Tachykinin; Cholinergic reflex (Ho, C.-Y. (436) 127)

Smoking

Mecamylamine; Stimulant; Depression (Young, R. (443) 113)

Smooth muscle

Ca^{2+} channel; Nifedipine; Contraction; Binding; Vas deferens, rat (Verde, L.F. (443) 13)

Smooth muscle, Arteriolar

β -Adrenoreceptor agonist; Adenylyl cyclase; cAMP; SQ22536; Smooth muscle; Vascular; Pulmonary vein (Gao, V.A. (436) 227)

Pervanadate; Tyrosine phosphorylation; Ca^{2+} ; Nifedipine; Verapamil; Myosin light-chain kinase (Murphy, T.V. (442) 107)

Smooth muscle cell

Bradykinin; Bradykinin receptor; T-kinin; Des-Arg 11 -T-kinin; Bladder, rat (Davis, C. (450) 123)

Smooth muscle cell line

Angiotensin II; [Lys 2]angiotensin II; Angiotensin AT $_1$ receptor, recombinant; Tachyphylaxis; CHO cell line (França, L.P. (439) 13)

Smooth muscle cell, vascular

Antioxidant; Atherosclerosis; Cell proliferation; Green tea catechin; LDL (low-density lipoprotein); Mitogen-activated kinase; Risk factor (Locher, R. (434) 1)

Interleukin-4; Interferon- γ ; Interleukin-10; Interleukin-13; Colony-stimulating factor (Stanford, S.J. (436) 241)

Angiotensin II; Cyclosporin A; *c-Jun* NH₂-terminal kinase (Saito, S. (443) 47)

Smooth muscle contractility

Prostanoid receptor; Uterus, porcine; DP receptor; FP receptor; EP receptor (Cao, J. (442) 115)

Smooth muscle relaxation

Vas deferens, rat; ATP; Adenosine; P₂ receptor; Adenosine A₂ receptor; *Ecto*-protein kinase (Bültmann, R. (436) 135)

Smooth muscle, vascular

β -Adrenoceptor agonist; cAMP; Adenylyl cyclase; SQ 22536; Pulmonary vein (Gao, Y. (436) 227)

SNAP (*S*-nitroso-*N*-acetylpenicillamine)

Pain; Incision pain; Allodynia; Isosorbide; Nitric oxide (NO); ODQ (1*H*-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one) (Prado, W.A. (441) 57)

S-NCS-382

GHB (gamma-hydroxybutyrate) binding site; *RS*-NCS-382; *R*-NCS-382; Baclofen; GABA_B receptor (Castelli, M.P. (446) 1)

S-nitrosothiol

Gastric fundus; (Mouse); Photorelaxation; Nitric oxide (NO); Thiol modulator; Glutathione (Ögülene, N. (450) 267)

S-nitrosylation

Nipradilol; PC12 cell; Apoptosis; Nitric oxide (NO) (Tomita, H. (452) 263)

Sodium nitroprusside

Hyperglycemia; Microcirculation; Streptozotocin; Acetylcholine; Nitric oxide; Diabetes mellitus (van Dam, B. (455) 43)

Sodium salicylate

Cyclooxygenase-2; Gastric mucosal damage; Ischaemia–reperfusion; Adaptive gastroprotection; Nitric oxide (NO) (Peskar, B.M. (434) 65)

Somatostatin

Somatostatin sst₅ receptor, goldfish; Luciferase; (SRE) Serum responsive element; ([³⁵S]GTP γ S); Receptor trafficking (Nunn, C. (436) 173)

Urotensin II, human; Aorta contraction, rat; Phospholipase C; Protein kinase C; Tyrosine kinase; Rho-kinase; Somatostatin-receptor antagonist (Rossowski, W.J. (438) 159)

Gastric acid secretion; Histamine release; Gastric parietal cell; Enterochromaffin-like cell; Muscarinic acetylcholine receptor agonist; Stomach, isolated, mouse (Komasaka, M. (452) 235)

Somatostatin-receptor antagonist

Urotensin II, human; Aorta contraction, rat; Phospholipase C; Protein kinase C; Tyrosine kinase; Rho-kinase; Somatostatin (Rossowski, W.J. (438) 159)

Somatostatin receptor subtype

Cancer; Octreotide; Peptide; Peptide receptor targeting (Reubi, J.C. (456) 45)

Somatostatin sst₅ receptor, goldfish

(SRIF) Somatostatin; Luciferase; (SRE) Serum responsive element; ([³⁵S]GTP γ S); Receptor trafficking (Nunn, C. (436) 173)

Soy

Genistein; Thrombosis; Isoflavone; Platelet aggregation (Kondo, K. (455) 53)

Sp-1

Penta-*O*-galloyl- β -D-glucose; Metastasis; Invasion; MMP-9 (matrix metalloproteinase-9); AP-1 (activator protein-1) (Ho, L.-L. (453) 149)

Spare receptor

α -Adrenoceptor; Receptor reserve; Prostate; Benign prostate hyperplasia (Thiyagarajan, M. (453) 335)

Spasmolytic effect

Tamoxifen; Tamoxifen metabolite; Non-genomic; Intestinal muscle; Ca²⁺ channel (Diaz, M. (445) 257)

Spasticity

Clonidine; Flexor reflex; Tail-flick; Antinociception (Advokat, C. (437) 63)

Spatial memory

Δ^9 -Tetrahydrocannabinol; 5-HT (5-hydroxytryptamine, serotonin); Hippocampus; DOI (Egashira, N. (445) 221)

Spatial memory function

Embolism, microsphere; GABA (γ -aminobutyric acid); Glutamic acid decarboxylase (Fukatsu, T. (453) 59)

Spermatogenic cell, mouse

Gossypol; Antifertility; Whole-cell recording; Ca²⁺ channel, T-type; Cl[−] channel (Bai, J. (440) 1)

Sphincter

Nitric oxide (NO); Nitrergic nerve; Trigone; Urethra (Noda, K. (456) 81)

Sphingolipid

Ca²⁺, intracellular; Thyroid; Current-clamp; Cl[−] channel (Törnquist, K. (453) 1)

Spinal analgesia

Biting, scratching, licking (BSL); Septide; NMDA; [Np^{he}]¹nociceptin-(1-13)-NH₂ (Villanueva, N. (445) 83)

Spinal cord

Pain; Inflammation; Histamine; Histamine H₁ receptor (Olsen, U.B. (435) 43)

Adenosine receptor; K⁺-evoked release; Substance P; CGRP (calcitonin gene-related peptide); Cholecystokinin; Rat (Mauborgne, A. (441) 47)

Paracetamol; Tropisetron; 5-HT₃ receptor; Inflammation; (Rat) (Alloui, A. (443) 71)

Morphine; Opioid; Sciatic nerve (Kouya, P.F. (450) 49)

FR143166; Antinociception; Descending serotonergic system; 5-HT_{2A} receptor; 5-HT₃ receptor (Ochi, T. (452) 319)

Spinal dorsal horn

c-Fos; Formol; Nefopam; Noxious heat (Buritova, J. (441) 67)

Endomorphin-1; Endomorphin-2; c-Fos; Zif/268; Formalin (Tateyama, S. (451) 79)

Spinal microdialysis

Spinal nociception; Formalin test; Inflammation; Heat hyperalgesia; Nitric oxide (Gühring, H. (454) 153)

Spinal nociception

Formalin test; Inflammation; Heat hyperalgesia; Spinal microdialysis; Nitric oxide (Gühring, H. (454) 153)

Spinal reflex

Imidazoline receptor; Tizanidine; Muscle relaxation (Honda, M. (445) 187)

Spin trap

2,2'-Pyridylisatogen; Immine oxide; Motoneuron; ATP receptor antagonist; P2Y receptor; Neuroprotection; AMPA receptor (Menton, K. (444) 53)

Spiroazabicyclic

$\alpha 7$ Nicotinic receptor; 5-HT₃ receptor; Cross-reactivity (Broad, L.M. (452) 137)

Spontaneously hypertensive rat

Acidic pH-induced contraction; Acidic pH; Wistar Kyoto rat; Cl⁻ channel; Ca²⁺ channel, voltage-dependent (Rohra, D.K. (453) 279)

Spontaneously hypertensive rat (SHR)

GABA (γ -amino butyric acid); Noradrenaline; Blood pressure; Mesenteric arterial bed; Perivascular nerve stimulation (Hayakawa, K. (438) 107)

SQ 22536

β -Adrenoceptor agonist; cAMP; Adenylyl cyclase; Smooth muscle, vascular; Pulmonary vein (Gao, Y. (436) 227)

SQ-22,536

β -Adrenoceptor, atypical; β_3 -Adrenoceptor; Gastric fundus, guinea pig; Duodenum, guinea pig; cAMP (Horinouchi, T. (442) 137)

(Squirrel monkey)

Cocaine; RTI 113; Discriminative stimulus effect; Drug discrimination; (Rat) (Cook, C.D. (442) 93)

SR141716

Cocaine; Self-administration; (Rhesus monkey) (Beardsley, P.M. (435) 209)

SR 141716

Morphine; Naloxone; Cannabinoid; Alcohol intake; Sardinian alcohol-preferring (sP) rat (Vacca, G. (445) 55)

SR141716A

Inverse agonism; Cannabinoid system; Adenylate cyclase (Mato, S. (443) 43)

SR 141716A

Δ^9 -Tetrahydrocannabinol; Ethanol intake; Cannabinoid CB₁ receptor; Object recognition task; Alcohol-preferring rat (Ciccocioppo, R. (449) 245)

SRE, serum responsive element

(SRIF) Somatostatin; Somatostatin sst₅ receptor, goldfish; Luciferase; ([³⁵S]GTP γ S); Receptor trafficking (Nunn, C. (436) 173)

SSR 180575

Benzodiazepine receptor, peripheral; Rheumatoid arthritis; Mrl/lpr mouse; Chondrocyte (Bribes, E. (452) 111)

ST-1059

Adrenoceptor; α_{1A} -Adrenoceptor agonist; $\alpha_{1B/D}$ -Adrenoceptor antagonist; Urethra; ABT-866; Phenylpropanolamine; Midodrine (Buckner, S.A. (449) 159)

Startle

Locomotion; Open field; Nucleus accumbens; Schizophrenia; Ventral tegmental area (Schwienbacher, I. (444) 161)

Staurosporine

Conantokin-G; Neuronal culture (Williams, A.J. (452) 135)

PKC (protein kinase C); Endothelin; Sarafotoxin 6c; Endothelin ET_B receptor; Ro31-7549; K252a; H89 (Uddman, E. (452) 215)

Steatosis

PPAR (peroxisome proliferator activated receptor); Fibrate; Thiazolidinedione; Adipogenesis; Lipogenesis; Nuclear hormone receptor; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

Stellate cell

Pepstatin A; *N*-acetyl-L-cysteine; Cathepsin D; IGF-I (insulin-like growth factor-I); PDGF (platelet-derived growth factor) (Takashima, T. (451) 265)

Steroid conformation

Mineralocorticoid receptor; Natriuresis; Aldosterone (Piwien-Pilipuk, G. (454) 131)

Sterptozotocin-induced diabetes

Morphine; Tail-flick; antinociception; Nimodipine; [³H]PN200-110; *B*_{max}; Saturation binding (Gullapalli, S. (435) 187)

Stimulant

Mecamylamine; Smoking; Depression (Young, R. (443) 113)

Stomach, isolated, mouse

Somatostatin; Gastric acid secretion; Histamine release; Gastric parietal cell; Enterochromaffin-like cell; Muscarinic acetylcholine receptor agonist (Komasaka, M. (452) 235)

Streptomycin sulphate

Cardiac myocyte; Ion channel (Belus, A. (445) 171)

Streptozotocin

Streptozotocin; Diabetes; Heart, ex vivo; Hypothyroidism; Ischaemia–reperfusion, rat (Zhang, L. (435) 269)

Hyperglycemia; Microcirculation; Acetylcholine; Sodium nitroprusside; Nitric oxide; Diabetes mellitus (van Dam, B. (455) 43)

H₂O₂; Diabetes; Contraction; Catalase; Nitric oxide (NO) (Kobayashi, T. (441) 83)

Streptozotocin-induced diabetes

Diazoxide; Beta-cell damage; Diabetes, Rat (Matsuda, M. (453) 141)

Stress

DOI; 5-HT_{2A} receptor; Head shake; 5-HT (5-hydroxytryptamine, serotonin) (Izumi, T. (452) 199)

Tree shrew; Behavior; Corticosteroid; Glucocorticoid receptor; 5-HT_{1A} receptor (Van Kampen, M. (457) 207)

Stress-induced hyperthermia

Anxiolytic; Benzodiazepine; Buspirone; Tachykinin; mGlu₅ receptor antagonist; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone); Corticosterone (Spooren, W.P.J.M. (435) 161)

5-HT_{1A} receptor knockout mice; GABA_A–benzodiazepine receptor; (In vivo); Pentylentetrazol; Positive righting reflex (Pattij, T. (447) 67)

Striatal collateralised output pathway

Jaw movement; Ventrolateral striatum; Dopamine receptor; Acetylcholine receptor; GABA_A receptor; (Rat) (Adachi, K. (442) 81)

Striatum

Muscarinic receptor antagonist; Antipsychotic drug; Muscle rigidity; (EMG) Electromyogram (Hemsley, K.M. (434) 117)

Methamphetamine; Aging; Tolerance; Hyperthermia; Dopamine transporter (Riddle, E.L. (435) 181)

c-GMP; Dopamine; L-DOPA (L-3,4-dihydroxyphenylalanine); Nitric oxide (NO); Peroxynitrite (Sanchez, J.J. (438) 79)

Basal ganglion; Dyskinesia; Movement disorder (Hamann, M. (443) 59)

Adenosine, extracellular level; 6-Hydroxydopamine-lesion; Microdialysis; Adenosine A_{2A} receptor mRNA (Pinna, A. (446) 75)

Hippocampus; Quinolinic acid; Adenosine A_{2A} receptor; Neuroprotection (Tebano, M.T. (450) 253)

Patch-clamp, whole-cell; Adenosine A_{2A} receptor; NMDA receptor (Gerevich, Z. (451) 161)

Allosteric modulation; PD 81,723; Acetylcholine release; Adenosine A₁ receptor; Microdialysis (Bueters, T.J.H. (454) 177)

Reserpine; Dopamine transporter; VMAT-2 (vesicular monoamine transporter-2) (Metzger, R.R. (456) 39)

Striatum, dorsal

Dopamine; Tyrosine loading, local; Quinpirole; PD 128907; Nucleus accumbens (Fusa, K. (448) 143)

Stroke

Magnesium; Alcohol; Cerebral microcirculation; Cytochrome oxidase; Hemoglobin; Optical spectroscopy (Barbour, R.L. (447) 79)

Cerebral ischemia, focal; Thrombosis, photochemically induced; Middle cerebral artery occlusion; SHR (Stroke-prone spontaneously hypertensive rat); Prostacyclin (Karasawa, Y. (449) 127)

Structure–activity

GABA_A receptor; *Xenopus* oocyte; 4-PIOL (5-(4-piperidyl)-3-isoxazolol); Partial agonist; Lipophilicity (Mortensen, M. (451) 125)

Structure–activity relationship

Cannabinoid; Anandamide; Tetrahydrocannabinol; Receptor (Martin, B.R. (435) 35)

Atisine-type diterpene alkaloid; Platelet aggregation; Arachidonic acid; Adenosine-5'-diphosphate; PAF (platelet-activating factor) (Li, L. (449) 23)

Structure–function relationship

Xanthine oxidase; Flavonoid; Inhibition; IC₅₀ (Van Hoon, D.E.C. (451) 111)

Subarachnoid hemorrhage

PAF (platelet-activating factor); Cerebral vasospasm; Intra-arterial digital subtraction angiography; Cerebral circulation time (canine model) (Abe, Y. (455) 127)

Substance P

Sephadex; Airway hyperreactivity; Neurokinin A; Tachykinin receptor; Nepadutant; MEN 11467; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Adenosine receptor; K⁺-evoked release; (CGRP) calcitonin gene-related peptide; Cholecystokinin; Spinal cord; Rat (Mauborgne, A. (441) 47)

Subtype

(+)-Boldine; α₁-Adrenoceptor; α₂-Adrenoceptor; Selectivity; Functional experiment; Radioligand binding study; Ca²⁺ channel antagonism; Cardiac effect (Eltze, M. (443) 151)

α7 Subunit

Nicotinic acetylcholine receptor; Perforated patch-clamp; PC12 cell; GH4C1 cell; Recombinant expression (Virginio, C. (445) 153)

Sucrose-gap

Lidocaine; Tramadol; Compound action potential; Sciatic nerve (Mert, T. (439) 77)

Sulfasalazine

Nitric oxide (NO); iNOS (inducible nitric oxide (NO) synthase); Cyclosporin A; Tacrolimus; Colitis (Hämäläinen, M. (448) 239)

Sumatriptan

Coronary artery; Donitriptan; Human pharmacology; Middle meningeal artery; Migraine (van den Broek, R.W.M. (443) 125)

(*Suncus murinus*)

Autonomic neuromuscular transmission; Nongenomic steroid receptor; (Rat); Testosterone; Urinary bladder (Hall, R. (449) 301)

Superoxide

Diabetes; Endothelial dysfunction; Nitric oxide (NO); Superoxide dismutase; Tempol (Nassar, T. (436) 111)

Mesangial cell; Hep G2 cell; Cell death; Nitric Oxide (NO); Glutathione (Sumbayev, V.V. (444) 1)

Superoxide anion

Electrode; Endothelial cell; Nitric oxide (NO); Quinacrine; Superoxide dismutase (David-Dufilho, M. (436) 159)

Gentamicin; Superoxide dismutase mimetic; Compound M40403 (Cuzzocrea, S. (450) 67)

Superoxide dismutase

Diabetes; Endothelial dysfunction; Nitric oxide (NO); Superoxide; Tempol (Nassar, T. (436) 111)

Electrode; Endothelial cell; Nitric oxide (NO); Superoxide anion; Quinacrine (David-Dufilho, M. (436) 159)

Superoxide dismutase mimetic

Gentamicin; Superoxide anion; Compound M40403 (Cuzzocrea, S. (450) 67)

Supersensitivity

Tail-flick test; Analgesia; Naloxone; Morphine; Nimodipine; B_{max}; [³H]PN200-110 binding (Gullapalli, S. (451) 271)

Survival

Methotrexate; MRL/lpr mouse; Pulse therapy weekly; Myelosuppression (Asanuma, Y. (435) 253)

Phosphodiesterase type 5; Heart failure; Cardiomyopathic hamster (Inoue, H. (443) 179)

Leukaemia; Chemotherapy; GST (glutathione S-transferase) (Astrup, J.L. (438) 15)

Swallowing

GABA_B receptor; Esophageal sphincter relaxation, transient, lower; Baclofen (Lehmann, A. (448) 67)

Sympathetic

Neuropeptide Y; Neuropeptide Y Y₁ receptor antagonist; Neuropeptide Y Y₂ receptor antagonist; BIBP3226; BIIE0246; Vasoconstriction (Malmström, R.E. (447) 11)

Histamine H₃ receptor; Nasal mucosa; Porcine; Thioperamide (Varty, L.M. (452) 339)

Sympathetic nerve

Cilnidipine; ω -Conotoxin MVIIA; Ca²⁺ channel, N-type (Takahara, A. (434) 43)

Sympathetic nerve activity

α_2 -Adrenoceptor; Blood pressure; Rostral ventrolateral medulla; Clonidine; Methoxy-idazoxan (Vayssettes-Courchay, C. (453) 287)

Sympathetic nerve stimulation

Laser–Doppler flowmetry; Ultrasonic flowmetry; α -Adrenoceptor subtype; Tongue circulation; Gingival circulation; Lingual artery; Phentolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Sympathetic neurotransmission

Cannabinoid; Sensory nerve; Mesenteric arterial bed, rat; Capsaicin; Methanandamide (Ralevic, V. (444) 171)

Sympathetic outflow

Prostaglandin E₂; Thromboxane A₂; Brain; Noradrenaline; Adrenaline; Plasma; Adrenomedullary outflow (Murakami, Y. (452) 289)

Sympathetic tone

Dopamine D1-like receptor; Ganglion; Fenoldopam (Vernejoul, F. (444) 197)

Sympathetic transmission

BIIE0246; Neuropeptide Y Y₂ receptor; Prejunctional (Malmström, R.E. (439) 113)

Sympathoadrenal activity

Choline; Hyperglycemia; Glucoregulation; Cholinergic activity, rat (Gürin, M.S. (438) 197)

Sympathoadrenomedullary outflow

Vasopressin; Cyclooxygenase, brain; Vasopressin V_{1A} receptor, brain; Adrenaline, plasma; Noradrenaline, plasma (Okada, S. (457) 29)

Synaptic terminal

Synaptic transmission; Ca²⁺ influx; Neurotransmitter release (Fedulova, S.A. (447) 163)

Synaptic transmission

Synaptic terminal; Ca²⁺ influx; Neurotransmitter release (Fedulova, S.A. (447) 163)

Synaptosome

4-MTA (4-methylthioamphetamine); 4-MTMA (4-methylthiomethamphetamine); MDMA (3,4-methylenedioxymethamphetamine); 5-HT (5-hydroxytryptamine, serotonin); Reuptake; Aortic contraction (Murphy, J.E.J. (444) 61)

Adenosine; A_{2A} receptor; Hippocampus; Acetylcholine release; Nerve terminal (Rebola, N. (454) 31)

Synaptosome, Rat

Remacemide; Desglycyl-remacemide; Antiepileptic drug; Na⁺ channel (Santangeli, S. (438) 63)

T-0156

Phosphodiesterase isozyme; Phosphodiesterase type 5 inhibitor; Cyclic guanosine monophosphate; Corpus cavernosum; Tumescence (Mochida, H. (456) 91)

Tachykinin

Stress-induced hyperthermia; Anxiolytic; Benzodiazepine; Buspirone; mGlu₅ receptor antagonist; mGlu₂ receptor agonist; ACTH (adrenocorticotrophic hormone); Corticosterone; (Mouse) (Spooren, W.P.J.M. (435) 161)

Smoke; Hyperreactivity; Nasal irritation; Cholinergic reflex (Ho, C.-Y. (436) 127)

Urinary bladder; Neurokinin A; Phosphoramidon; Neutral endopeptidase; Urothelium (Warner, F.J. (438) 171)

Pulmonary; Tachykinin NK₁ receptor; Tachykinin NK₂ receptor; Tachykinin NK₃ receptor (Anthes, J.C. (450) 191)

Airway reactivity; Chemiluminescence count; Inflammatory cell (Lai, Y.-L. (452) 229)

Tachykinin receptor

Sephadex; Airway hyperreactivity; Neurokinin A; Substance P; Nepadutant; MEN 11467; Acetylcholine; Inflammatory cell (Tramontana, M. (439) 149)

Tachykinin NK₁ receptor

Histamine H₁ receptor; NMDA receptor; Nitric oxide (NO); Hyperalgesia (Sakurada, S. (434) 29)

Tachykinin; Pulmonary; Tachykinin NK₂ receptor; Tachykinin NK₃ receptor (Anthes, J.C. (450) 191)

Tachykinin NK₂ receptor

Tachykinin; Pulmonary; Tachykinin NK₁ receptor; Tachykinin NK₃ receptor (Anthes, J.C. (450) 191)

Tachykinin NK₃ receptor

Tachykinin; Pulmonary; Tachykinin NK₁ receptor; Tachykinin NK₂ receptor (Anthes, J.C. (450) 191)

Tachykinin NK₄ receptor

Neurokinin B; Tachykinin NK₁ receptor, short; Tachykinin NK₁ receptor, long (Page, N.M. (437) 27)

Tachykinin NK₁ receptor, long

Neurokinin B; Tachykinin NK₁ receptor, short; Tachykinin NK₄ receptor (Page, N.M. (437) 27)

Tachykinin NK₁ receptor, short

Neurokinin B; Tachykinin NK₁ receptor, long; Tachykinin NK₄ receptor (Page, N.M. (437) 27)

Tachyphylaxis

Angiotensin II; [Lys²]angiotensin II; Angiotensin AT₁ receptor, recombinant; CHO cell line; Smooth muscle cell line (França, L.P. (439) 13)

(TaClo) 1-Trichloromethyl-1,2,3,4-tetrahydro- β -carboline

Neurotoxin; Carboline; Parkinson's disease; (MPTP) 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Riederer, P. (442) 1)

t-ACPD (*trans*-[1S,3R]-1-Amino-cyclopentane-1,3-dicarboxylic acid)

NAAG (*N*-acetylaspartylglutamate); Glutamate receptor metabotropic; Neonatal hypoxia-ischemia; cAMP; L-AP4 (L-(+)-2-amino-4-phosphonobutyric acid) (Cai, Z. (437) 139)

Tacrine

Acetylcholinesterase isoform; Huperzine A; Donepezil; Rivastigmine; Physostigmine; Alzheimer's disease; (Rat) (Zhao, Q. (455) 101)

Tacrolimus

Calcineurin; Dopamine D1 receptor; Dopamine D2 receptor; Dopamine D3 receptor; Locomotor activity (Sakanoue, M. (438) 93)

Nitric oxide (NO); iNOS (inducible nitric oxide (NO) synthase); Cyclosporin A; Sulfasalazine; Colitis (Hämäläinen, M. (448) 239)

Tail-flick

Sterptozotocin-induced diabetes; Morphine; antinociception; Nimodipine; [^3H]PN200-110; B_{max} ; Saturation binding (Gullapalli, S. (435) 187)

Spasticity; Clonidine; Flexor reflex; Antinociception (Advokat, C. (437) 63)

Tail flick

Neuropeptide FF; 1DMe ([D-Tyr¹, (NMe)Phe³]NPFF); Morphine; Analgesia; (Mouse) (Quelven, I. (449) 91)

Tail-flick test

Antinociception; Endomorphin-1; Endomorphin-2; Tolerance; Cross-tolerance (Hung, K.-c. (448) 169)

Analgesia; Naloxone; Morphine; Supersensitivity; Nimodipine; B_{max} ; [^3H]PN200-110 binding (Gullapalli, S. (451) 271)

Tail immersion

Formalin test; Hot plate; Morphine; Nociception; Buprenorphine (Gilbert, A.-K. (449) 75)

TAK-778

Osteoblast differentiation; Alkaline phosphatase; Growth factor; Msx2 (Gotoh, M. (451) 19)

Tamoxifen

Tamoxifen metabolite; Non-genomic; Intestinal muscle; Spasmolytic effect; Ca^{2+} channel (Díaz, M. (445) 257)

Tamoxifen metabolite

Tamoxifen; Non-genomic; Intestinal muscle; Spasmolytic effect; Ca^{2+} channel (Díaz, M. (445) 257)

Tau

Alzheimer's disease; Heparin; Certoparin; Glycosaminoglycan (Walzer, M. (445) 211)

Taurine

Ethanol; Glutamate; Microdialysis; Alcohol sensitivity, high; Alcohol sensitivity, low (Quertemont, E. (444) 143)

Taxol

Active efflux; P-glycoprotein; MRP (multidrug resistance-associated protein); Glutathione; PSC-833; Verapamil; MDR1 (Crowe, A. (440) 7)

TE671 cell line

SK3 channel; Antidepressant, tricyclic; Desipramine; Imipramine (Carignani, C. (448) 139)

Temperature

WIN55,212-2; Cannabinoid; Hippocampus; GABA (γ -aminobutyric acid), uptake (Al-Hayani, A. (442) 47)

Temperature dependence

Adenosine A_1 receptor; Adenosine A_1 receptor agonist; Allosteric; Modulation; Binding thermodynamics (Dalpiaz, A. (448) 123)

Temperature dependency

P2X receptor; P2Y receptor; PPADS (Ziganshin, A.U. (456) 107)

Temperature (mouse)

Theophylline; Nitric oxide (NO); L-Arginine; N^G -nitro-L-arginine methyl-ester (L-NAME); N^{ω} -nitro-L-arginine (L-NA) (Zarrindast, M.-R. (451) 63)

Tempol

Diabetes; Endothelial dysfunction; Nitric oxide (NO); Superoxide; Superoxide dismutase (Nassar, T. (436) 111)

Temporomandibular joint

Peroxisome proliferator-activated receptor (PPAR γ); Nitrotyrosine; Inflammation; Rheumatoid arthritis (Shiojiri, T. (448) 231)

Tenidap

K^+ channel, inwardly rectifying; Kir2.3; Arachidonic acid; Potentiation; Opener (Liu, Y. (435) 153)

Terfenadine

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Zinc sulfate; Histamine; Mast cell; Ranitidine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

Terikalant

QT interval; K^+ channel blocker; Proarrhythmia; Torsade de pointes; α_1 -Adrenoceptor stimulation; Clofilium; Erythromycin (Farkas, A. (449) 143)

Testosterone

Autonomic neuromuscular transmission; Nongenomic steroid receptor; (Rat); (*Suncus murinus*); Urinary bladder (Hall, R. (449) 301)

Tetrahydrocannabinol

Cannabinoid; Anandamide; Structure–activity relationship; Receptor (Martin, B.R. (435) 35)

Δ^9 -Tetrahydrocannabinol

5-HT (5-hydroxytryptamine, serotonin); Hippocampus; Spatial memory; DOI (Egashira, N. (445) 221)

Ethanol intake; Cannabinoid CB_1 receptor; SR 141716A; Object recognition task; Alcohol-preferring rat (Ciccocioppo, R. (449) 245)

Tetrandrine

Nicotinic receptor; Ca^{2+} channel ligand, L-type; *Xenopus* oocyte (Slater, Y. (450) 213)

Tetrodotoxin

Orexin-A; Orexin-1 receptor; SB-334867-A; Acetylcholine release (Matsuo, K. (452) 105)

TGF- β (transformation growth factor- β)

Endotoxic shock; Inflammatory cytokine; TNF- α (tumor necrosis factor- α); Interleukin-10; Apoptosis; Fibrosis (Oku, H. (446) 165)

TGF- β_1 (transforming growth factor- β_1)

Adrenomedullin; Aerosol; Lung fibrosis; Interleukin-1 β (von der Hardt, K. (457) 71)

β -Adrenoceptor antagonist; Endothelin-1; Signal transduction (Tsubokou, Y. (457) 85)

Thalidomide analogue

Cytokine modulation; Liver injury, suppression (Thiele, A. (453) 325)

Thapsigargin

PAF (platelet-activating factor); Interleukin-6; Prostaglandin E_2 ; SK&F 98625; Macrophage (Ichinowatari, G. (434) 187)

Lignan; Ca^{2+} ; Ca^{2+} store; Fura-2; MDCK cell (Chao, Y.-Y. (443) 31)

Caffeine; Ryanodine; Aging; Excitotoxicity; Endoplasmic reticulum; Ca^{2+} imaging (Clodfelter, G.V. (447) 189)

Th1 cytokine

Bronchial hyperresponsiveness; Airway inflammation; Rapamycin; IMM125; SAR943; Budesonide; Th2 cytokine (Huang, T.-J. (437) 187)

Th2 cytokine

Bronchial hyperresponsiveness; Airway inflammation; Rapamycin; IMM125; SAR943; Budesonide; Th1 cytokine (Huang, T.-J. (437) 187)

Theophylline

Nitric oxide (NO); L-Arginine; *N*^G-nitro-L-arginine methylester (L-NAME); *N*^ω-nitro-L-arginine (L-NA); Temperature (mouse) (Zarrindast, M.-R. (451) 63)

Thermogenesis

Thyroid hormones; Obesity; Treatment; UCP (Uncoupling protein); Deiodinase (Krotkiewski, M. (440) 85)

β₃-Adrenoceptor; β₄-Adrenoceptor; β₃-Adrenoceptor agonist; Obesity; Diabetes (Arch, J.R.S. (440) 99)

Obesity; Sibutramine; Serotonin–norepinephrine reuptake inhibitor; Weight loss (Luque, C.A. (440) 119)

Sibutramine; BTS 54 505; Duloxetine; Bupropion; Food intake (Liu, Y.-L. (452) 49)

Thiazolidinedione

PPAR (Peroxisome proliferator-activated receptor); KU812 cell; Cell growth; Histamine secretion (Abe, A. (436) 7)

PPAR (peroxisome proliferator activated receptor); Fibrate; Steatosis; Adipogenesis; Lipogenesis; Nuclear hormone receptor; Fatty acid oxidation; Fasting (Kersten, S. (440) 223)

Thiol agents

Melatonin MT₂ receptor, human; Melatonin MT₁ receptor, human; Cysteine; Site-directed mutagenesis; HEK-293 cell (Mseeh, F. (449) 29)

Thiol modulator

Gastric fundus; (Mouse); Photorelaxation; Nitric oxide (NO); *S*-nitrosothiol; Glutathione (Ögülcener, N. (450) 267)

Thioperamide

Histamine H₃ receptor; Nasal mucosa; Porcine; Sympathetic (Varty, L.M. (452) 339)

Thrombopoietin

Amifostine; Hematopoietic stem cell; CD34 antigen; Colony-forming units assay; X-ray (Kashiwakura, I. (437) 19)

Thrombosis

Von Willebrand factor (vWF); Platelet; Bleeding time; AJW200 (Kageyama, S. (443) 143)

Genistein; Soy; Isoflavone; Platelet aggregation (Kondo, K. (455) 53)

Thrombosis, photochemically induced

Stroke; Cerebral ischemia, focal; Middle cerebral artery occlusion; SHR (Stroke-prone spontaneously hypertensive rat); Prostacyclin (Karasawa, Y. (449) 127)

Thromboxane A₂

Prostacyclin; Platelet; Vascular tissue; Picotamide; (Rabbit) (Buccellati, C. (443) 133)

Nasal allergic sign; Histamine H₁ receptor; Leukotriene (Kayasuga, R. (449) 287)

Prostaglandin E₂; Brain; Noradrenaline; Adrenaline; Plasma; Sympathetic outflow; Adrenomedullary outflow (Murakami, Y. (452) 289)

Thyroid

Ca²⁺, intracellular; Sphingolipid; Current-clamp; Cl[−] channel (Törnquist, K. (453) 1)

Thyroid hormone

Amiodarone; Dronedarone; Ischemia; Heart, isolated; rat (Pantos, C. (444) 191)

Thyroid hormones

Obesity; Treatment; UCP (Uncoupling protein); Deiodinase; Thermogenesis (Krotkiewski, M. (440) 85)

Tight junction

Gossypol; Colon; Cl[−] secretion; Mucus (Kuhn, G. (457) 187)

Tight junctions

Inflammation; Pain; Occludin; Zonula occludens-1; Blood–brain barrier (Huber, J.D. (450) 297)

Tissue culture

Diacetylmorphine degradation; Heroin; Morphine; 6-Monoacetylmorphine (Hutchinson, M.R. (453) 27)

Titanocene Dichloride

Ehrlich ascites tumour; Metallocene; Myelopoiesis; Bis-cyclopentadienyl-dithiocyanatetitanium (IV) (Valadares, M.C. (439) 35)

Tizanidine

Spinal reflex; Imidazoline receptor; Muscle relaxation (Honda, M. (445) 187)

T-kinin

Bradykinin; Bradykinin receptor; Des-Arg¹¹-T-kinin; Bladder, rat; Smooth muscle cell (Davis, C. (450) 123)

T lymphocyte activation

Cordycepin; Interleukin-10; Interleukin-2 (Zhou, X. (453) 309)

TNF-α (tumor necrosis factor-α)

Diabetes; Pentoxifylline; Interleukin-10; BB, rat (Visser, J. (445) 133)

Endotoxic shock; Inflammatory cytokine; Interleukin-10; Apoptosis; Fibrosis; TGF-β (transformation growth factor-β) (Oku, H. (446) 165)

Pirfenidone; Inflammation; Cytokine; Translation; MAPK2 (mitogen-activated protein) kinase 2 (Nakazato, H. (446) 175)

KF24345; Adenosine; Uptake inhibition; Pancreatitis, acute; Mortality (Noji, T. (454) 85)

Fenfluramine; Lipopolysaccharide; Interleukin-1β; Interleukin-10, glucocorticoid; Catecholamine (Connor, T.J. (455) 175)

Interleukin-10; σ Receptor; Autoimmune disease (Bourrié, B. (456) 123)

α-Tocopherol

LDL (low-density lipoprotein), oxidized; Apoptosis (Uemura, M. (456) 29)

Erythrocyte membrane; Diabetes; Free radical; Insulin (Shinozaki, K. (456) 133)

α-tocopherol

MGC-803 cell; Arsenite; Reactive oxygen species; Apoptosis; Ca²⁺, intracellular (Chen, A. (448) 11)

Tolcapone

COMT inhibitor; Entacapone; Uncoupling; Parkinson's disease (Haasio, K. (453) 21)

Tolerance

Methamphetamine; Aging; Hyperthermia; Striatum; Dopamine transporter (Riddle, E.L. (435) 181)

Nitroglycerin; CGRP (calcitonin gene-related peptide); *N*-acetylcysteine; Captopril (Zhou, Z.-H. (439) 129)

Penile erection; Penile diameter; Cavernous nerve; Electrical stimulation; Nitrate (Adachi, H. (445) 267)

Antinociception; Tail-flick test; Endomorphin-1; Endomorphin-2; Cross-tolerance (Hung, K.-c. (448) 169)

Cannabinoid; Anandamide; Cytochrome *P*450; Liver, rat; Brain, rat (Costa, B. (449) 61)

5-HT₃ receptor; Cocaine; Tropisetron; LY 278,584; Sensitization; (Rat) King, G.R. (449) 253)

Tolterodine

Detrusor smooth muscle; Electrical field stimulation; Atropine; Propiverine; Oxybutynin (Wüst, M. (454) 59)

Toluenediisocyanate

Allergy; Dermatitis; Phosphodiesterase 4 inhibitor; AWD 12-281; SB 207499 (Bäumer, W. (446) 193)

Tongue circulation

Laser–Doppler flowmetry; Ultrasonic flowmetry; α -Adrenoceptor subtype; Sympathetic nerve stimulation; Gingival circulation; Lingual artery; Phenolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Topiramate

Schizophrenia; NMDA receptor; Popping (Deutsch, S.I. (449) 121)

Tormentic acid

Triterpene pentacyclic; Neuropathic pain; Inflammatory pain; Allodynia (Bortalanza, L.B. (453) 203)

Torsade de pointes

QT interval; K⁺ channel blocker; Proarrhythmia; α_1 -Adrenoceptor stimulation; Clofilium; Erythromycin; Terikalant (Farkas, A. (449) 143)

Trachea

Asthma; Glutamate (Coşkun, U. (437) 97)

Trafficking

VMAT-2 (vesicular monoamine transporter-2); Cocaine; Methamphetamine; (Rat) (Riddle, E.L. (449) 71)

Tramadol

Lidocaine; Sucrose-gap; Compound action potential; Sciatic nerve (Mert, T. (439) 77)

Formalin test; 5-HT (5-hydroxytryptamine, serotonin); Norepinephrine; Opioid (Oliva, P. (445) 179)

Transcellular metabolism

Inflammation; Polymorphonuclear leukocyte, human; 5-Lipoxygenase; Cyclooxygenase; Adhesive interaction (Rotondo, S. (453) 131)

Transcription

Ca²⁺; cAMP response element binding protein (CREB); CREB binding protein (CBP); Serum response element (SRE) (Chawla, S. (447) 131)

Transfection

GABA_B receptor; Ca²⁺ current; Ca²⁺ channel subtype; NG108-15 cell; Antisense (Easter, A. (440) 17)

Transient outward current

Risperidone; Action potential; Delayed rectifier current; Inward rectifier current; Heart, rabbit (Gluais, P. (444) 123)

Translation

Pirfenidone; Inflammation; Cytokine; TNF- α (tumor necrosis factor- α); MAPK2 (mitogen-activated protein) kinase 2 (Nakazato, H. (446) 175)

Transmural pressure

Cell proliferation; Extracellular signal-regulated kinase; p38 mitogen-activated protein kinase; Vascular smooth muscle cell; Signal transduction (Tsuda, Y. (446) 15)

Transporter

Glutamate; Receptor; Cell death; Oligodendrocyte; Demyelination (Matute, C. (447) 239)

Treatment

Thyroid hormones; Obesity; UCP (Uncoupling protein); Deiodinase; Thermogenesis (Krotkiewski, M. (440) 85)

Diabetes mellitus; Nerve; Brain; Neuron; Ca²⁺; Pathogenesis; Encephalopathy; Neuropathy (Biessels, G.J. (447) 201)

Tree shrew

Stress; Behavior; Corticosteroid; Glucocorticoid receptor; 5-HT_{1A} receptor (Van Kampen, M. (457) 207)

TRFK5

Allergic rhinitis; Interleukin-5; Eosinophil (Yamasaki, M. (439) 159)

Triangulation

APD (action potential duration); Afterdepolarization, early; Purkinje fiber; Rabbit; Long QT syndrome (Lu, H.R. (452) 183)

Trigeminal

Migraine; Nitric oxide (NO); Meningeal artery, middle; Intravital microscopy (Akerman, S. (452) 223)

Trigeminal ganglion

5-HT_{1F} receptor; Cloning; 5-HT (5-hydroxytryptamine, serotonin); Ligand binding; Migraine, (Pig); Sequencing (Bhalla, P. (436) 23)

Triglyceride

Single-nucleotide polymorphism; Coronary heart disease; Chinese population study; Dyslipidemia; Lipoprotein lipase gene; High-density lipoprotein (Su, Z.G. (454) 9)

Atorvastatin; BMS-201038; Beta-oxidation; (Rat) (Funatsu, T. (455) 161)

Trigone

Nitric oxide (NO); Sphincter; Nitrergic nerve; Urethra (Noda, K. (456) 81)

Triiodothyronine

5-HT (5-hydroxytryptamine, serotonin); Antidepressant; 5-HT_{1A} receptor; 5-HT_{1B} receptor (Gur, E. (457) 37)

Triterpene pentacyclic

Tormentic acid; Neuropathic pain; Inflammatory pain; Allodynia (Bortalanza, L.B. (453) 203)

TRK-820

Pruritus; Itch; κ -Opioid receptor agonist (Togashi, Y. (435) 259)

Trophic effect

Adenosine receptor antagonist; Hypertension; 6-Hydroxydopamine; Angiotensin converting enzyme inhibition (Sousa, T. (441) 99)

Tropisetron

Paracetamol; 5-HT₃ receptor; Spinal cord; Inflammation; (Rat) (Alloui, A. (443) 71)

5-HT₃ receptor; Cocaine; LY 278,584; Sensitization; Tolerance; (Rat) (King, G.R. (449) 253)

Tuberomammillary nuclei

Histidine decarboxylase; Histamine H₃ receptor; Betahistine dihydrochloride; In situ hybridization; Radioautography; Vestibular nuclei (Tighilet, B. (446) 63)

Tumescence

T-0156; Phosphodiesterase isozyme; Phosphodiesterase type 5 inhibitor; Cyclic guanosine monophosphate; Corpus cavernosum (Mochida, H. (456) 91)

Two-photon

Ca²⁺; Ca²⁺ indicator; Fluorescence; Neocortex; Dendrite; In vivo; Olfactory bulb (Helmchen, F. (447) 119)

Tyrosine kinase

Actin; Angiotensin II; Angiotensin AT₁ receptor; Mesothelial cell; Pleura; Pertussis toxin; Protein kinase C (Kuwahara, M. (436) 15)

Urotensin II, human; Aorta contraction, rat; Phospholipase C; Protein kinase C; Rho-kinase; Somatostatin; Somatostatin-receptor antagonist (Rossowski, W.J. (438) 159)

Tyrosine loading, local

Dopamine; Quinpirole; PD 128907; Striatum, dorsal; Nucleus accumbens (Fusa, K. (448) 143)

Tyrosine phosphorylation

Smooth muscle, Arterioles; Pervanadate; Ca²⁺; Nifedipine; Verapamil; Myosin light-chain kinase (Murphy, T.V. (442) 107)

Genistein; Estradiol-17 β ; SHR (Spontaneously hypertensive rat); Renal artery (Nevala, R. (452) 87)

U0126

MAP kinase; PD98059; Angiotensin II; Endothelin-1; Contraction (Ishihata, A. (445) 247)

UCM707

Endocannabinoid; Uptake inhibition (de Lago, E. (449) 99)

UCP (Uncoupling protein)

Thyroid hormones; Obesity; Treatment; Deiodinase; Thermogenesis (Krotkiewski, M. (440) 85)

U-50,488H

(+)-SKF10,047; κ -Opioid receptor; σ Receptor; Y-maze; Short-term memory (Hiramatsu, M. (453) 91)

Ulcerative colitis

DNBS (2,4-dinitrobenzene sulfonic acid); Zinc sulfate; Histamine; Mast cell; Terfenadine; Ranitidine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

Ulcer healing

Aspirin; *Helicobacter pylori*; Gastric secretion; Gastric blood flow; Cyclooxygenase; Growth factor (Konturek, P.C. (451) 191)

Ulcer healing, chronic

Gastric ulcer; Nonsteroidal anti-inflammatory drugs; Prostaglandin; Myeloperoxidase activity; Immunohistochemistry (Berenguer, B. (442) 125)

Ultrasonic flowmetry

Laser-Doppler flowmetry; α -Adrenoceptor subtype; Sympathetic nerve stimulation; Tongue circulation; Gingival circulation; Lingual artery; Phentolamine; Prazosin; Rauwolscine (Koss, M.C. (440) 53)

Uncoupling

COMT inhibitor; Entacapone; Tolcapone; Parkinson's disease (Haasio, K. (453) 21)

Unfolded protein response

Endoplasmic reticulum; Ca²⁺ signalling; Ca²⁺ binding protein; Endoplasmic reticulum overload response; Neuronal survival; Chaperone (Verkhratsky, A. (447) 141)

Unilateral ureteral obstruction

Renal interstitial fibrosis; Macrophage; Rho-kinase; Fasudil (Satoh, S.-i. (455) 169)

Upregulation

Expression; Induction; Operational model (Möller, S. (454) 209)

Uptake inhibition

Endocannabinoid; UCM707 (de Lago, E. (449) 99)

KF24345; Adenosine; Pancreatitis, acute; Mortality; TNF- α (tumor necrosis factor- α) (Noji, T. (454) 85)

Uracil derivative

Antioxidant; Hydroxyl radical; Peroxynitrite; Lipid peroxidation (Goto, Y. (438) 189)

Urapidil

Aging; Angiotensin; Blood pressure; Heart rate; Ketanserin; Reflex bradycardia (Buñag, R.D. (435) 85)

Urate

Meningitis; Oxidative stress; Peroxynitrite; MnTBAP; Ascorbate (Kastner, S. (449) 177)

Urethra

Adrenoceptor; α_{1A} -Adrenoceptor agonist; $\alpha_{1B/D}$ -Adrenoceptor antagonist; ABT-866; Phenylpropanolamine; Midodrine; ST-1059 (Buckner, S.A. (449) 159)

Nitric oxide (NO); Sphincter; Nitrergic nerve; Trigone (Noda, K. (456) 81)

Urinary bladder

Tachykinin; Neurokinin A; Phosphoramidon; Neutral endopeptidase; Urothelium (Warner, F.J. (438) 171)

Epithelial Na⁺ channel; Vesicular transport; Endocytosis (Burton, T.J. (448) 215)

Autonomic neuromuscular transmission; Nongenomic steroid receptor; (Rat); (*Suncus murinus*); Testosterone (Hall, R. (449) 301)

Bladder, overactive; Irritable bowel syndrome; Ileum (Modiri, A.-R. (451) 171)

Muscarinic receptor antagonist; Micturition reflex; Bradycardia; Salivation (Hirose, H. (452) 245)

Urotensin II, human

Aorta contraction, rat; Phospholipase C; Protein kinase C; Tyrosine kinase; Rho-kinase; Somatostatin; Somatostatin-receptor antagonist (Rossowski, W.J. (438) 159)

Urothelium

Urinary bladder; Tachykinin; Neurokinin A; Phosphoramidon; Neutral endopeptidase (Warner, F.J. (438) 171)

Uterine contractility

Ovarin uterine segment; Cervical uterine segment; Serotonin; Prostaglandin F_{2α}; Oxytocin (Oropeza, M.V. (446) 159)

Uterus

Ca²⁺ channel; Mibefradil (Asokan, K.T. (455) 65)

Uterus, porcine

Prostanoid receptor; DP receptor; FP receptor; EP receptor; Smooth muscle contractility (Cao, J. (442) 115)

Uterus, pregnant rat

Ca²⁺ channel, L-type; [³H]Nitrendipine; [³H]Diltiazem; Drotaverine Tömösközi, Z. (449) 55)

V₂ receptor

Conivaptan; Vasopressin; V_{1A} receptor; Nonpeptide antagonist; Congestive heart failure (Wada, K.-i. (450) 169)

Vagus

Raphe nucleus; Brain stem; Autonomic nervous system; 5-HT (5-hydroxytryptamine, serotonin) (Varanasi, S. (436) 67)

Vagus nerve

Leptin; Afferent fibre; Cholecystokinin; Pancreatic secretion (Guilmeau, S. (447) 99)

Valproate

Lamotrigine; Pentylentetrazole; 4-Aminopyridine; Anticonvulsant; Drug interactions (Cuadrado, A. (453) 43)

Vanilloid

Cannabinoid; Vanilloid VR1 receptor; Anandamide; Arvanil (Brooks, J.W. (439) 83)

Vanilloid VR1 receptor

Cannabinoid; Vanilloid; Anandamide; Arvanil (Brooks, J.W. (439) 83)

Vascular

Adenylyl; cAMP; SQ22536; Smooth muscle; Pulmonary vein (Gao, V.A. (436) 227)

Vascular conductance

Mesenteric blood vessel; Blood flow; Ca²⁺-activated, Cl[−] channel; α₁-Adrenoceptor (Parai, K. (448) 59)

Vascular permeability

Radiographic contrast media; Pulmonary edema; Evans blue; Carbazochrome; Endothelial barrier function (Sendo, T. (450) 203)

FR167653; p38 MAP (mitogen-activated protein) kinase inhibitor; Carrageenan; Paw edema; Lipopolysaccharide (Nishikori, T. (451) 327)

Vascular reactivity

Adenosine receptors blockade; Hypertension; Angiotensin II (Morato, M. (455) 135)

Vascular smooth muscle

Alcohol; Proliferation; Cell cycle; Atherosclerosis (Sayeed, S. (445) 163)

Vascular smooth muscle cell

Iso-S-Petasin; L-type Ca²⁺ channel; Intracellular Ca²⁺ concentration; Hypotension (Wang, G.-J. (445) 239)

Cell proliferation; Extracellular signal-regulated kinase; p38 mitogen-activated protein kinase; Transmural pressure; Signal transduction (Tsuda, Y. (446) 15)

Vascular tension

Blood pressure; K⁺ channel; 4-Aminopyridine; Adrenergic system (Berg, T. (452) 325)

Vascular tissue

Thromboxane A₂; Prostacyclin; Platelet; Picotamide; (Rabbit) (Buccellati, C. (443) 133)

Vasculature

Benzodiazepine; Kidney; (Rat) (Monasterolo, L.A. (449) 155)

Vas deferens, mouse

Cannabidiol; CP55940; WIN55212; Drug interaction; Cannabinoid CB₁ receptor (Pertwee, R.G. (456) 99)

Vas deferens, rat

ATP; Adenosine; Smooth muscle relaxation; P2 receptor; Adenosine A₂ receptor; *Ecto*-protein kinase (Bültmann, R. (436) 135)

Ca²⁺ channel; Nifedipine; Smooth muscle; Contraction; Binding (Verde, L.F. (443) 13)

Adenosine A₁ receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Noradrenaline; Distribution; Differential (Queiroz, G. (448) 45)

Vasoconstriction

Neuropeptide Y; Neuropeptide Y Y₁ receptor antagonist; Neuropeptide Y Y₂ receptor antagonist; BIBP3226; BIIE0246; Sympathetic (Malmström, R.E. (447) 11)

Vasodilation

Sildenafil; Nitric oxide (NO) donor; Non-nitric oxide (NO) donor; cGMP; Coronary artery, porcine (Sakuma, I. (437) 155)

Kidney, rat; Adrenomedullin; Nitric oxide (NO); EDHF (endothelium-derived hyperpolarizing factor) (Wangenstein, R. (444) 97)

Vasodilator

Nitroglycerin; Nitric oxide (NO); Metal nitrosyl complex; Capacitance vessel; MCFP (Poon, K.S. (436) 107)

Vasopressin

Purinoreceptor; Collecting tubule; Water permeability (Edwards, R.M. (438) 179)

Oxytocin receptor antagonist; Oxytocin; Radioligand; Oxytocin receptor (Lemaire, W. (450) 19)

Conivaptan; V_{1A} receptor; V₂ receptor; Nonpeptide antagonist; Congestive heart failure (Wada, K.-i. (450) 169)

Cyclooxygenase, brain; Vasopressin V_{1A} receptor, brain; Adrenaline, plasma; Noradrenaline, plasma; Sympatho-adrenomedullary outflow (Okada, S. (457) 29)

Vasopressin V_{1A} receptor

YM471; Vasopressin V₂ receptor; Nonpeptide antagonist (Tsukada, J. (446) 127)

Heart failure; Myocardial infarction; Remodeling (Van Kerckhoven, R. (449) 135)

Conivaptan; Vasopressin; V₂ receptor; Nonpeptide antagonist; Congestive heart failure (Wada, K.-i. (450) 169)

Vasopressin; Cyclooxygenase, brain; Adrenaline, plasma; Noradrenaline, plasma; Sympatho-adrenomedullary outflow (Okada, S. (457) 29)

Vasorelaxation

Mesaconitine; Aorta; Nitric oxide (NO); Aconiti tuber; (*Aconitum japonicum*); (Rat) (Mitamura, M. (436) 217)

Ca²⁺ channel; Endothelium; Geissoschizine methyl ether; Nitric oxide (NO); Aorta, rat (Yuzurihara, M. (444) 183)

VEGF (Vascular endothelial growth factor)

ARPE-19 cell; GSH precursor; 4-Hydroxynonenal; Oxidative stress (Ayalasomayajula, S.P. (449) 213)

Venlafaxine

5-HT (5-hydroxytryptamine, serotonin); Antidepressant; Hippocampus; Hypothalamus; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Gur, E. (436) 57)

Venous tone

Nociceptin; ORL1 receptor; Arterial pressure, mean; Circulatory filling pressure, mean; Capacitance vessel; Ganglionic blockade (Abdelrahman, A.M. (455) 143)

Ventral noradrenergic bundle

Forced swim test; Reboxetine; DSP-4; Antidepressant (Cryan, J.F. (436) 197)

Ventral tegmental area

Locomotion; Open field; Nucleus accumbens; Schizophrenia; Startle (Schwienbacher, I. (444) 161)

Ventricle, human

Electrophysiology; Contractile force; Acidosis, intracellular; Fluorescent; Oxygen free radical; Antioxidant; Cardioprotective agent (Loh, S.-H. (443) 169)

Ventricular strip, rat

MDMA (3,4-methylenedioxymethamphetamine); MDEA (3,4-methylenedioxymethylamphetamine); MDA (3,4-methylenedioxymethylamphetamine); Cathinone; Cocaine; Contraction (Cleary, L. (451) 303)

Ventrolateral striatum

Jaw movement; Striatal collateralised output pathway; Dopamine receptor; Acetylcholine receptor; GABA_A receptor; (Rat) (Adachi, K. (442) 81)

Verapamil

Active efflux; P-glycoprotein; MRP (multidrug resistance-associated protein); Glutathione; Taxol; PSC-833; MDR1 (Crowe, A. (440) 7)

Smooth muscle, Arteriolar; Pervanadate; Tyrosine phosphorylation; Ca²⁺; Nifedipine; Myosin light-chain kinase (Murphy, T.V. (442) 107)

Verbascoside

Buddleja officinalis Maxim; Phenylpropanoid glucoside; Oxidative stress; Apoptosis; Parkinson's disease (Sheng, G.-Q. (451) 119)

Vesicular monoamine transporter

Dopamine D2 receptor; NMDA receptor (Crosby, M.J. (438) 75)

Vesicular transport

Urinary bladder; Epithelial Na⁺ channel; Endocytosis (Burton, T.J. (448) 215)

Vestibular nuclei

Histidine decarboxylase; Histamine H₃ receptor; Betahistine dihydrochloride; In situ hybridization; Radioautography; Tuberomammillary nuclei (Tighilet, B. (446) 63)

Vestibular nucleus

Barrel rotation; c-Fos; Endothelin-1; (Rat) (Kozako, T. (454) 199)

Vitamin C

Melatonin; N1E-115 cell; Okadaic acid; Oxidative stress; Antioxidant enzyme (Montilla-López, P. (451) 237)

VMAT-2 (vesicular monoamine transporter-2)

Cocaine; Methamphetamine; Trafficking; (Rat) (Riddle, E.L. (449) 71)

Reserpine; Dopamine transporter; Striatum (Metzger, R.R. (456) 39)

vMIP

Receptor binding; Ca²⁺, intracellular; CCL18, I-TAC; Small molecule antagonist; Constitutive activity (Wan, Y. (456) 1)

Voltage-activated

Fluoxetine; Outer hair cell; K⁺ current; Cochlea; Antidepressant (Bian, J.-T. (453) 159)

Voltage-clamp

Flufenamic acid; Niflumic acid; HERG (ether-a-go-go related gene); Q–T syndrome, long (Malykhina, A.P. (452) 269)

Voltage dependence

Antiarrhythmic agent; Ion channel; Frequency dependence (Kushida, S. (457) 19)

Voltage-dependent calcium channel

Molecular genetics; Pharmacology (Jones, O.T. (447) 211)

Von Willebrand factor (vWF)

Platelet; Thrombosis; Bleeding time; AJW200 (Kageyama, S. (443) 143)

1400 W

Allergic rhinitis; Eosinophil; Nitric oxide (NO) synthase; Eotaxin; Chemotaxis (Ferreira, H.H.A. (442) 155)

Water permeability

Purinoreceptor; Vasopressin; Collecting tubule (Edwards, R.M. (438) 179)

WAY 100635

c-fos; Antidepressant; Citalopram; 5-HT_{1A} receptor; Hypothalamic–pituitary–adrenal axis (Jongsma, M.E. (455) 109)

Weight loss

Obesity; Orlistat; Lipase inhibitor; Weight maintenance; Cardiovascular risk (Ballinger, A. (440) 109)

Obesity; Sibutramine; Serotonin–norepinephrine reuptake inhibitor; Thermogenesis (Luque, C.A. (440) 119)

Weight maintenance

Obesity; Orlistat; Lipase inhibitor; Weight loss; Cardiovascular risk (Ballinger, A. (440) 109)

WHHL rabbit

Fluvastatin; Antioxidant effect; Cigarette smoke extract; LDL (low-density lipoprotein); Oxidatively modified (Yamaguchi, Y. (436) 97)

Whole-cell patch recording

Ca²⁺ channel, high-threshold; Neomycin; Na⁺ channel, tetrodotoxin-resistant; Pain (Zhou, Y. (450) 29)

Whole-cell recording

Gossypol; Antifertility; Spermatogenic cell, mouse; Ca²⁺ channel, T-type; Cl[−] channel (Bai, J. (440) 1)

WIN55,212-2

Cannabinoid; Hippocampus; Temperature; GABA (γ -aminobutyric acid), uptake (Al-Hayani, A. (442) 47)

WIN55212

Cannabidiol; CP55940; Drug interaction; Cannabinoid CB₁ receptor; Vas deferens, mouse (Pertwee, R.G. (456) 99)

Wistar Kyoto rat

Acidic pH-induced contraction; Acidic pH; Spontaneously hypertensive rat; Cl[−] channel; Ca²⁺ channel, voltage-dependent (Rohra, D.K. (453) 279)

Withdrawal

Antiepileptic drug; Anxiety; Benzodiazepine; Keppra[™]; Levetiracetam (Lamberty, Y. (439) 101)

Cocaine; Sensitization; 5-HT₂ receptor; Locomotion; Behavioral rating (Davidson, C. (453) 255)

Morphine; Naloxone; Naloxone methiodide; Respiration (Lewanowitsch, T. (445) 61)

Withdrawal time

Nisoxetine; Norepinephrine transporter; Intermittent; Nerve growth factor; Dopamine uptake (Kantor, L. (451) 27)

Wogonin

Rutin; Quercetin; Lipopolysaccharide; Nitric oxide (NO); Prostaglandin E₂ (Shen, S.-C. (446) 185)

Wound healing

Nicotine; Cell migration; Cell proliferation; Ornithine decarboxylase; K⁺ channel; Nicotine receptor (Shin, V.Y. (444) 115)

Xanthine oxidase

Flavonoid; Structure–function relationship; Inhibition; IC₅₀ (Van Hoorn, D.E.C. (451) 111)

XE 991

M channel; Linopirdine; M current (Dupuis, D.S. (437) 129)

Xenopus oocyte

Acetylcholine receptor; Muscle relaxant; Interaction; Isobologram; Potency (Paul, M. (438) 35)

Noncompetitive inhibition; Nicotinic receptor modulation; Metal ion (Rangel-González, F.J. (441) 15)

Ginseng; Ginsenoside; Nicotinic acetylcholine receptor channel (Choi, S. (442) 37)

Clomipramine; Cholinergic–serotonergic interaction; Nicotinic receptor modulation; Mental depression (López-Valdés, H.E. (444) 13)

Pteropodine; Isopteropodine; Heteroyohimbine-type oxindole alkaloid; Muscarinic M₁ receptor; 5-HT₂ receptor (Kang, T.-H. (444) 39)

P2X₂ receptor; Ion channel; Ca²⁺; Multivalent cation block; Site-directed mutagenesis (Nakazawa, K. (449) 207)

Tetrandrine; Nicotinic receptor; Ca²⁺ channel ligand, L-type (Slater, Y. (450) 213)

Zaleplon; Zolpidem; Benzodiazepine; GABA_A receptor; Recombinant; Cl[−] current (Sanna, E. (451) 103)

GABA_A receptor; 4-PIOL (5-(4-piperidyl)-3-isoxazolol); Partial agonist; Structure–activity; Lipophilicity (Mortensen, M. (451) 125)

X-ray

Amifostine; Hematopoietic stem cell; CD34 antigen; Colony-forming units assay; Thrombopoietin (Kashiwakura, I. (437) 19)

Y-27632

Cerebral artery; Hypertension; Nitric oxide (NO); K⁺ channel; Rho-associated kinase (Kitayama, J. (438) 153)

YM471

Vasopressin V_{1A} receptor; Vasopressin V₂ receptor; Nonpeptide antagonist (Tsukada, J. (446) 127)

Y-maze

U-50,488H; (+)-SKF10,047; κ -Opioid receptor; σ Receptor; Short-term memory (Hiramatsu, M. (453) 91)

[¹²⁵I]Y¹⁴N/OFQ binding

Nociceptin/orphanin FQ; [Nphe¹]N/OFQ (1–13)NH₂; Desensitization; cAMP formation (Hashimoto, Y. (449) 17)

Zaleplon

Nonbenzodiazepine; Hypnotic; ω_1 receptor; Binding assay; EEG (electroencephalogram) (Noguchi, H. (434) 21)

Zolpidem; Benzodiazepine; GABA_A receptor; Recombinant; Cl[−] current; *Xenopus* oocyte (Sanna, E. (451) 103)

Zif/268

Endomorphin-1; Endomorphin-2; c-Fos; Formalin; Spinal dorsal horn (Tateyama, S. (451) 79)

Zinc sulfate

DNBS (2,4-dinitrobenzene sulfonic acid); Ulcerative colitis; Histamine; Mast cell; Terfenadine; Ranitidine; Ketotifen; Reactive oxygen metabolite; Neutrophil (Luk, H.H. (443) 197)

ZM 243185

Allergic pulmonary inflammation; Brown Norway rat; Ovalbumin; Adenosine A_{2A} receptor; CGS 21680 (Fozard, J.R. (438) 183)

Zn²⁺ level

Endotoxin; Oxidative stress; Metallothionein; Ca²⁺; Nitric oxide (NO) (Sakaguchi, S. (451) 309)

Zolpidem

Zaleplon; Benzodiazepine; GABA_A receptor; Recombinant; Cl[−] current; *Xenopus* oocyte (Sanna, E. (451) 103)

Zonula occludens-1

Inflammation; Tight junctions; Pain; Occludin; Blood–brain barrier (Huber, J.D. (450) 297)

Zotepine

Atypical antipsychotic drug; Perforant path–dentate gyrus pathway; Long-term potentiation (Kubota, T. (453) 245)

Zucker rat

Acarbose; GLUT4 trafficking; Insulin resistance (Ledwig, D. (445) 141)