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Adenosine; ZM 241385; Autoradiography; A_{2A} knockout; (mouse) (Kelly, M. (504) 55)

Adenosine A_{2B} receptor

Prejunctional adenosine receptor; Adenosine A_{2A} receptor; Immunohistochemistry; Noradrenaline release; Tail artery; rat (Diniz, C. (504) 17)

Adenosine receptor

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β-Adrenergic; PET radioligands (Elsinga, P.H. (499) 1)

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β₃-Adrenoceptor

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Oesophagus muscularis mucosae; β₂-Adrenoceptor; Protein kinase C; Receptor cross-talk (Oostendorp, J. (495) 75)

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Morphine withdrawal; Morphine tolerance; Analgesia; Prazosin; α_{2A}-Adrenoceptor (Özdoğan, Ü.K. (497) 161)

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α₁-Adrenoceptor subtype; B8805-033; Chloroethylclonidine; Noradrenaline; Tail artery, rat (Jähnichen, S. (488) 157)

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α₁-Adrenoceptor subtype

α₁-Adrenoceptor antagonist; B8805-033; Chloroethylclonidine; Noradrenaline; Tail artery, rat (Jähnichen, S. (488) 157)

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Alcohol dependence

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Allotetrahydrodeoxycorticosterone

Ethanol; Pregnenolone; Allopregnanolone; Endocrine response (O'Dell, L.E. (484) 241)

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 β -Amyloid-(1–40) protein

σ_1 Receptor; Neuro(active)steroid; Alzheimer's disease; Depression; Conditioned fear stress; (Rat) (Urani, A. (486) 151)

 β Amyloid

TAK-802; Acetylcholinesterase inhibitor; Bladder; Micturition; (Rat) (Nagabukuro, H. (485) 299)

Alzheimer's disease; Insulin; Insulin-like growth factor I; Blood–brain barrier; Tau (Carro, E. (490) 127)

Airway smooth muscle; β_2 -Adrenoceptor; cAMP; Salbutamol; SQ 22,536 (Koike, K. (492) 65)

[¹²⁵I]-A-312110

K_{ATP} channel; SUR2B; Cell linestable; Urinary bladder; K⁺ channel opener (Scott, V.E. (483) 195)

Amygdala

J-113397; Microdialysis; Orphanin FQ; Nociceptin; (Rat) (Kawahara, Y. (485) 197)

Conditioned fear; Selective serotonin reuptake inhibitor; Serotonin; Micro-injection; Anxiety (Inoue, T. (497) 311)

Allosteric mGlu₄ receptor modulator; mGlu₁ receptor antagonist; Anxiety (Stachowicz, K. (498) 153)

Amylase

Rebamipide; Cholecystokinin CCK₁ receptor; [Ca²⁺]_i oscillation (Moon, S.J. (505) 61)

Amylin

Atrial function; CGRP (Calcitonin gene-related peptide); Calcitonin; ANP (Atrial natriuretic peptide) (Piao, F.L. (483) 295)

Amyloid- β peptide

Oxidative injury; Garlic compound; Antioxidant defense; Learning; Memory; Alzheimer disease (Pérez-Severiano, F. (489) 197)

Analgesia

Locomotor activity; Sedation; Amitriptyline; α_{2A} -Adrenoceptor; Clonidine; (Mouse) (Özdoğan, Ü.K. (485) 193)

Pain; Development; Morphine; Uncoupling; Neuron (Liu, J.-G. (491) 127)

Metabotropic glutamate receptors; Opioid tolerance; Phosphatidylinositol cascade; (Mouse) (Smith, F.L. (492) 137)

Morphine tolerance; Phosphatidylinositol cascade; Adenylyl cyclase cascade; Hypothermia; (Mouse) (Javed, R.R. (492) 149)

Articular incapacitation; Hyperalgesia; Arthritic pain; IRL 1620; Endothelin receptor (Daher, J.B. (496) 77)

Morphine withdrawal; Morphine tolerance; Prazosin; α_2 -Adrenoceptor agonist; α_{2A} -Adrenoceptor (Özdoğan, Ü.K. (497) 161)

Analgesic

Animal model; Cannabinoid receptor; Drug discrimination (De Vry, J. (505) 127)

Analgesic effect

Somatostatin; Formalin test; Writhing test; Thermal nociception; Diabetic neuropathy (Szolcsányi, J. (498) 103)

Analgesics

Animal model; Chronic pain; Nociception; (Rat) (De Vry, J. (491) 137)

Anandamide

Uptake; Transporter; Cannabinoid; Cannabinoid receptor; Multiple sclerosis (de Lago, E. (484) 249)

Cholestasis; Cannabinoid system; Nitric oxide (NO); Opioid system; Mesenteric vessel; (Rat) (Moezi, L. (486) 53)

Cannabidiol; Vanilloid VR1 receptors; Blood pressure; Ventilation (McQueen, D.S. (491) 181)

17 β -Oestradiol; Vasorelaxation; Sex difference; (Sprague–Dawley rat) (Peroni, R.N. (493) 151)

Cannabinoid CB₁ receptor; Receptor binding assay; Glaucoma (Lograno, M.D. (494) 55)

Vehicle; Vasorelaxation; aorta (López-Miranda, V. (505) 151)

Anandamide uptake

Endocannabinoid; Fatty acid amide hydrolase; C6 glioma cell (Fowler, C.J. (492) 1)

Anaphylaxis

Bronchoconstriction; Lung; NO (Nitric oxide); Mast cell; Spontaneously hypertensive rat (Kwasniewski, F.H. (488) 181)

Andrenoceptor antagonist

Sympathetic nervous system; Spontaneously hypertensive rat (SHR) (Boesen, E.I. (486) 183)

Andrographolide

Chemotactic migration; MAPK; ERK1/2; Akt (Tsai, H.-R. (498) 45)

Anesthetic

Carotid body; Nicotine; Atracurium; Vecuronium; Acetylcholine receptor (Jonsson, M. (497) 173)

Angiogenesis

bFGF (basic fibroblast growth factor); Dexamethasone; Gastric ulcer; Prostaglandin E₂; VEGF (vascular endothelial growth factor) (Luo, J.C. (485) 275)

Cyclooxygenase-2 inhibitor; Prostaglandin E₂; Zymosan-injected mouse air pouch; Carrageenan-induced paw oedema (Devesa, I. (488) 225)

Anti-inflammatory; Genipin; Inducible nitric oxide synthase; Lipid peroxidation; NO (Nitric oxide) (Koo, H.-J. (495) 201)

SU5416; Gemcitabine; Pancreas cancer cell; Endothelial cell; VEGF (Bocci, G. (498) 9)

Dehydroepiandrosterone; Dehydroepiandrosterone sulphate; Endothelial cell; Tubulin; Glucose-6-phosphate dehydrogenase (Varet, J. (502) 21)

Angiogenesis inhibitor

Shraiachrome A; Arthritis; Receptor tyrosine kinase (Tong, Y. (494) 101)

Angiotensin

Adrenal medulla; Catecholamine; Canine; Candesartan; Ramipril (Critchley, L. (489) 67)

Vascular reactivity; (Rat); Portal vein; Hyperthermia; Acidosis; Norepinephrine (Pastor, C.M. (494) 191)

Angiotensin II

Trilinolein; Cardiomyocyte hypertrophy; Reactive oxygen species; MAP (mitogen-activated protein) kinase; β -myosin heavy chain (Liu, J.-C. (484) 1)

Protein kinase C- β (PKC- β) inhibitor; Protein kinase C (PKC); Endothelial permeability; Diabetic retinopathy (Idris, I. (485) 141)

Superoxide anion; Angiotensin AT_{1A} receptor; Angiotensin AT_{1B} receptor; Aorta; Heart (Rahman, M. (485) 243)

CGRP (calcitonin gene-related peptide); Smooth muscle cell, rat Vascular; Proliferation (Qin, X.-P. (488) 45)

Ferulic acid; Vascular smooth muscle cell; Proliferation; Mitogen-activated protein kinase; Cell cycle regulatory protein (Hou, Y.-Z. (499) 85)

Chymase; Inhibitor; Transforming growth factor- β (Takai, S. (501) 1)

Cardiovascular disease; Coronary artery; Gene expression; Receptor; Vasoconstriction (Wackenfors, A. (503) 147)

Angiotensin 1-converting enzyme

Bradykinin; Diabetes mellitus; Kinin B₁ receptor; Kinin B₂ receptor; Oxidative stress (Couture, R. (500) 467)

Angiotensin AT_{1A} receptor

Angiotensin II; Superoxide anion; Angiotensin AT_{1B} receptor; Aorta; Heart (Rahman, M. (485) 243)

Angiotensin AT_{1B} receptor

Angiotensin II; Superoxide anion; Angiotensin AT_{1A} receptor; Aorta; Heart (Rahman, M. (485) 243)

Angiotensin converting enzyme

Myocardial fibrosis; VIP (Vasopressin Intestinal Peptide); Vasopressinase inhibition; Neutral endopeptidase; Cardiac failure (Ye, V.Z.C. (485) 235)

Angiotensin-converting enzyme

ClC-5 Cl⁻ channel; Proteinuria; Hypertension; Perindopril (Tanaka, K. (501) 185)

Angiotensinogen-deficient mice

Renin angiotensin system; Cardiac function; Cardiomyopathy; Pressure-volume relation (Walther, T. (493) 161)

6-Anilino-5,8-quinolinedione

Polyethylene-glycol-superoxide dismutase; Cu/Zn superoxide dismutase; Diethyldithiocarbamate; Nitrogenic relaxation; Gastric fundus; (Pig) (De Backer, O. (486) 223)

Animal model

Analgesics; Chronic pain; Nociception; (Rat) (De Vry, J. (491) 137)

Dermatitis; Substance P; Scratching behaviour; NC/Nga mouse (Ohmura, T. (491) 191)

Physiology; Behavior; Flesinoxan; Repeated testing; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 35)

Physiology; Behavior; Anxiety; Flesinoxan; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 45)

Analgesic; Cannabinoid receptor; Drug discrimination (De Vry, J. (505) 127)

Aniracetam

Astrocyte; Ischemia; Apoptosis; Erk1/2; Akt (Gabryel, B. (494) 111)

Anococcygeus muscle, rat

Trachea-guinea-pig; (Ismailoglu, U.B. (487) 233)

ANP (Atrial natriuretic peptide)

Atrial function; CGRP (Calcitonin gene-related peptide); Calcitonin; Amylin (Piao, F.L. (483) 295)

Antagonism

FR190997; G-protein coupled receptor; Inositol phosphate; Non-peptide; Mutagenesis (Bellucci, F. (491) 121)

μ -opioid receptor; Agonism; Antinociception; (Mouse); (Monkey) (Neilan, C.L. (499) 107)

Antagonist

20-HETE; Agonist; Middle cerebral artery; Subarachnoid hemorrhage (Yu, M. (486) 297)

YM598; Endothelin ET_A receptor; Nociception; Prostate cancer (Yuyama, H. (492) 177)

YM598; Atrasentan; Bosentan; Endothelin receptor (Yuyama, H. (498) 171)

Bradykinin B₁ receptor; Radioligand (Ransom, R.W. (499) 77)

κ-Opioid receptor; JD_{Tic}; Antinociception; Tail-flick; Diuresis (Carroll, I. (501) 111)

Glucagon; Receptor; Binding; Occupancy (Dallas-Yang, Q. (501) 225)

Antagonist binding site

Histaprodifen; Mutational analysis; Histamine H₁ receptor; Agonist binding site (Bruysters, M. (487) 55)

Antalarmin

Corticotropin-releasing factor (CRF); Depression; Tail suspension test; Forced swim test; R 121919; DMP 696; DMP 904; (Mouse) (Nielsen, D.M. (499) 135)

Anthracene-9-carboxylic acid

(Guinea-pig); (Rabbit); Verapamil; Dideoxyforskolin; Stilbene disulphonate (Shuba, L.M. (491) 111)

Angiogenesis

Z24; Bcl-2; Antitumor; VEGF; bFGF (Wang, L.-I. (502) 1)

Antiarrhythmic agent

HERG; *I*_{Kr}; QT prolongation; Reverse frequency dependence (Tsujimae, K. (493) 29)

Antiarrhythmic drug

Amiodarone; Na⁺/Ca²⁺ exchange current; NCX1; CCL39 fibroblast (Watanabe, Y. (496) 49)

Organic cation transporter; Transport; Quinidine; Lidocaine (Hasannejad, H. (499) 45)

Antibacterial

Anti-inflammatory; MIC (Minimum inhibitory concentration); MBC (Minimum bactericidal concentration); Irritation (Park, J. (496) 189)

Anticancer

Hexadecylphosphocholine; Apoptosis (Duijsings, D. (502) 185)

Anticancer drug

RC-3095; Bombesin; Gastrin-releasing peptide; Behavior; Memory (Roesler, R. (486) 35)

Anticholinergic

Airway remodelling; Asthma; COPD; Acetylcholine; Airway smooth muscle (Gosens, R. (500) 193)

Anticonvulsant

Epilepsy; Kindling; AMPA receptor antagonist; YM928 (Yamashita, H. (494) 147)

GABA; Epilepsy; Transporter; Betaine transporter; Astrocyte; *exo*-THPO; Neuron; Astroglia; Seizure (Schousboe, A. (500) 281)

Anticonvulsant potency

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Felbamate; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Antidepressant

5-HT (5-hydroxytryptamine, serotonin); Fluoxetine; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Newman, M.E. (486) 25)

Allopregnanolone; Olfactory-bulbectomized rat (Uzunova, V. (486) 31)

Serotonin; Dopamine; Psychostimulant; Antipsychotic; Food intake; Obesity; Transgenic (Giorgetti, M. (488) 1)

Depression; Forced swimming test; Imipramine (D'Aquila, P.S. (492) 61)

5-HT autoreceptor; 5-HT_{1B} receptor; 5-HT_{1D} receptor; Neurotransmitter release; Selective serotonin re-uptake inhibitor (Pullar, I.A. (493) 85)

Arc (activity-regulated cytoskeletal associated protein); 5-hydroxytryptamine; SNRI (selective 5-HT/noradrenaline reuptake inhibitor); Neuroplasticity (Pei, Q. (495) 227)

Alzheimer's disease; Gene expression; Lymphocyte; Microarray; Mirtazapine (Palotás, A. (497) 247)

Hot-plate; Fluoxetine; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (497) 285)

Phosphodiesterase 4; Rolipram; Learned helplessness; cAMP response element; Brain-derived neurotrophic factor (Itoh, T. (498) 135)

Depression; Monoamine; Neurogenesis; SSRI; Tricyclic; Dopamine (Millan, M.J. (500) 371)

Bupropion; Nomifensine; Dopamine D1 receptor; Dopamine D2 receptor; Forced swimming test (Yamada, J. (504) 207)

Antidepressant drug

Tramadol; Morphine; Naloxone; Discrimination (Filip, M. (498) 143)

Bupropion; Seizure; Smoking cessation; Epilepsy (Tutka, P. (499) 117)

Antidiabetic

Hypolipidemic; Insulin sensitizer; Peroxisome proliferators-activated receptor (PPAR) (Chakrabarti, R. (491) 195)

Anti-epileptic drug

Parkinson disease; Dystonia; Synchronization (Bezard, E. (485) 159)

Antiepileptic drug

Epilepsy; Carbenoxolone; Gap junction; Carbamazepine; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, (mouse) (Gareri, P. (484) 49)

Antigen internalization

Syk; Bone marrow-derived dendritic cell; Immune complex; Fcγ receptor; Antigen presentation (Nakashima, K. (505) 223)

Antigen presentation

Syk; Bone marrow-derived dendritic cell; Immune complex; Fcγ receptor; Antigen internalization (Nakashima, K. (505) 223)

Antihistamine

Methamphetamine; Prepulse inhibition; Locomotor activity; Methamphetamine concentration (Okuda, T. (505) 135)

Anti-hyperalgesic effect

Adenosine A₁ receptor; Chronic constriction injury model; Neuropathic pain; Pharmacokinetic-pharmacodynamic modelling; Sparse data analysis; Anti-nociceptive effect (Schaddelee, M.P. (504) 7)

Antihyperglycemic effect

Dipeptidyl peptidase IV; GLP-1; Insulin; (Rat) (Takasaki, K. (486) 335)

Anti-inflammatory

Angiogenesis; Genipin; Inducible nitric oxide synthase; Lipid peroxidation; NO (Nitric oxide) (Koo, H.-J. (495) 201)

Antibacterial; MIC (Minimum inhibitory concentration); MBC (Minimum bactericidal concentration); Irritation (Park, J. (496) 189)

Antimalarial drug

hERG K⁺ channel; Electrophysiology; IC₅₀ (Traebert, M. (484) 41)

Antimigraine drug

BIBN4096BS; CGRP; Migraine (Arulmani, U. (500) 315)

Anti-nociception

Colorectal distension; Visceral pain; 5-HT_{1A} receptor; Buspirone (Sivarao, D.V. (494) 23)

Antinociception

S-(+)-ketoprofen; Tropisetron; Methiothepin; 5-HT receptor antagonist (Diaz-Reval, M.I. (483) 241)

(–)-Linalool; Cholinergic; Opioid; Dopamine; K⁺ channel; ATP-sensitive channel (Peana, A.T. (485) 165)

μ-Opioid receptor; Dermorphin; Tetrapeptide; Naloxonazine; Mouse (Mizoguchi, H. (486) 19)

Morphine; Tolerance; Sex; Estrous cycle (Shekunova, E.V. (486) 259)

Novel chimeric peptide; Opioids; Substance P; Neuropathic pain; (Rat) (Bonney, I.M. (488) 91)

db-cGMP; Diazoxide; K⁺ channel opener; Sodium nitroprusside (Alves, D.P. (489) 59)

α₂-Adrenoceptor; 5-HT₃ receptor; MD-354 (*m*-chlorophenylguanidine); In vitro and in vivo model (Wesolowska, A. (495) 129)

Dipyron; Serotonin; Methysergide; Yohimbine; Pyrazoline (Godoy, M.C.M. (496) 93)

Cannabinoid; Kinase; Tolerance (Bass, C.E. (496) 99)

mu-opioid receptor; Agonism; Antagonism; (Mouse); (Monkey) (Neilan, C.L. (499) 107)

K⁺ channels; G-protein-coupled receptor; Opioid; Nonsteroidal Anti-inflammatory drugs; Tricyclic antidepressant (Ocaña, M. (500) 203)

κ-Opioid receptor; Antagonist; JDTC; Tail-flick; Diuresis (Carroll, I. (501) 111)

Opioid; Metamizol; Potentiation; Tolerance; Cross-tolerance (Hernández-Delgadillo, G.P. (502) 67)

5-HT; 5-HT receptor subtype; Intrathecal; (Rat) (Jeong, C.Y. (502) 205)

PIFIR model; Indomethacin; Nitric oxide; (Rat) (Ventura-Martínez, R. (503) 43)

Anti-nociceptive effect

Adenosine A₁ receptor; Chronic constriction injury model; Neuropathic pain; Pharmacokinetic–pharmacodynamic modelling; Sparse data analysis; Anti-hyperalgesic effect (Schaddelee, M.P. (504) 7)

Antioesity

Histamine H₃ receptor antagonist; Magnetic resonance imaging (Hancock, A.A. (487) 183)

Anti-oncogene

Cancer gene therapy; Suicide gene; *p53* gene; DNA vaccine; Cytokine gene (El-Aneed, A. (498) 1)

Antioxidant

Vascular permeability; VEGF (Vascular endothelial cell growth factor); Diabetic retinopathy; Calcium dobesilate; Advanced glycation end product (Rota, R. (495) 217)

Antioxidant activity

Non-steroidal anti-inflammatory drug; Hydroxyl radical; Hydrogen peroxide; Hypochlorous acid (Van Antwerpen, P. (496) 55)

Antioxidant defense

Oxidative injury; Amyloid-β peptide; Garlic compound; Learning; Memory; Alzheimer disease (Pérez-Severiano, F. (489) 197)

Antioxidant defense system

Quercetin; Hepatocyte; Selective growth inhibition; Apoptosis (Son, Y.-O. (502) 195)

Anti-oxidant

Dopamine receptor; Neuroprotection; Oxygen–glucose deprivation; Stroke; Free radical (Miglio, G. (489) 157)

Antioxidant

Wogonin; Neuroprotection; Cortical neuron; Excitotoxicity; Oxidative damage (Cho, J. (485) 105)

Brain ischemia; Oxidative neuronal injury; KR-31378; Neuroprotection; K⁺ channel opener (Kim, S.-O. (487) 81)

Resveratrol; Cardiomyocyte; Reactive oxygen species; 4-Hydroxy-2-nonenal; Doxorubicin (Cao, Z. (489) 39)

Benidipine; Endothelium; VCAM-1; Atherosclerosis (Matsubara, M. (498) 303)

2-Biphenylmorpholine compound; Low-density lipoprotein; Atherosclerosis; Copper-mediated oxidation; (Rabbit) (Tavridou, A. (505) 213)

Antiplatelet

Phosphodiesterase inhibitor; Thromboxane; KW-7 (Wu, C.-C. (483) 187)

Anti-proliferation

Raxofelast; Reactive oxygen species; Smooth muscle cell (Lee, K.-H. (484) 119)

Antipsychotic

Prefrontal cortex; Striatum; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Schizophrenia (Jordan, S. (483) 45)

Dopamine; Dyskinesia; Extra-pyramidal symptom (Marchese, G. (483) 65)

Serotonin; Dopamine; Psychostimulant; Antidepressant; Food intake; Obesity; Transgenic (Giorgetti, M. (488) 1)

Aripiprazole; Dopamine; Serotonin; Prefrontal cortex; Hippocampus (Li, Z. (493) 75)

Weight gain; (Rat) (Kirk, S.L. (505) 253)

Antipyrine clearance

Endotoxin; CYP3A2; CYP2C11; Pioglitazone; PPAR- γ ; (Rat) (Ueyama, J. (498) 257)

Antisense oligonucleotide

Glucocorticoid receptor; Serotonin; Depression (Islam, A. (502) 213)

Antisense

GLUT1 (glucose transporter1); Endothelium (Park, J.L. (496) 213)

Antitumor

Z24; Bcl-2; Antiangiogenesis; VEGF; bFGF (Wang, L.-l. (502) 1)

Anti-tumour

Dehydrocrotonin; Tumour; Cytotoxicity; Natural killer cell (Melo, P.S. (487) 47)

Antitussive effect

Cyclooxygenase inhibitor; Cough reflex; NS-398; SC-560 (Kamei, J. (497) 233)

Anxiety

CRF (corticotropin-releasing factor); CRF₁ receptor; Depression; Stress-related behavior; R278995/CRA0450 (Chaki, S. (485) 145)

Physiology; Behavior; Animal model; Flesinoxan; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 45)

GABA_B; Anxiolytics (Mombereau, C. (497) 119)

Conditioned fear; Selective serotonin reuptake inhibitor; Amygdala; Serotonin; Microinjection (Inoue, T. (497) 311)

Allosteric mGlu₄ receptor modulator; mGlu₁ receptor antagonist; Amygdala (Stachowicz, K. (498) 153)

Adenosine; Ethanol; Elevated plus-maze; (Mouse) (Prediger, R.D.S. (499) 147)

4-Butyl- α -agarofuran (AF-5); Monoamine neurotransmitter; Behavior; Tissue concentration; Microdialysis (Zhang, Y. (504) 39)

5-HT_{1A}; Predator stress; SSRI; Vilazodone (Adamec, R. (504) 65)

5-HT_{2A} receptor antagonist; Predator stress (Adamec, R. (504) 79)

Fluvoxamine; Milnacipran; Risperidone; Conditioned fear stress; (mouse) (Miyamoto, J. (504) 97)

Anxiogenic effect

Nociceptin; Nocistatin; Anxiolytic effect; Hole-board; 5-HT_{1A} receptor (Kamei, J. (489) 77)

Anxiolytic

Benzodiazepine; γ -Aminobutyric acid_A (Basile, A.S. (500) 441)

Anxiolytic effect

Nociceptin; Nocistatin; Anxiogenic effect; Hole-board; 5-HT_{1A} receptor (Kamei, J. (489) 77)

Anxiolytics

Anxiety; GABA_B (Mombereau, C. (497) 119)

Aorta

Angiotensin II; Superoxide anion; Angiotensin AT_{1A} receptor; Angiotensin AT_{1B} receptor; Heart (Rahman, M. (485) 243)

Hypertension; Mesenteric vascular bed; Chelerythrine; Calphostin C (Fatchi-Hassanabad, Z. (494) 199)

Des-Arg⁹-bradykinin; Lipopolysaccharide; Rat, spontaneously hypertensive; K⁺ channel (Farias, N.C. (498) 163)

Acidosis; Tyrosine phosphorylation; Voltage-dependent calcium channel; Phosphatidylinositol 3 kinase; Spontaneously hypertensive (Rohra, D.K. (504) 105)

Anandamide; Vehicle; Vasorelaxation (López-Miranda, V. (505) 151)

Aorta rat

Endothelium; Glyceryl trinitrate metabolism; Glyceryl dinitrate; Artery relaxation; Toleranceex vivo; NO (nitric oxide) synthase inhibition (de la Lande, I.S. (486) 201)

Aorta, rat

Kaurenoic acid; Relaxation; K⁺ channel; Ca²⁺ influx (Tirapelli, C.R. (492) 233)

Urotensin-II; Urapidine; UT receptor; Ca²⁺; CHO cell (Camarda, V. (498) 83)

Aortic dissection

Aortic ring; Cocaine; Relaxation; Phosphatase; Ca²⁺ entry (Li, W. (496) 151)

Aortic ring

Cocaine; Relaxation; Phosphatase; Ca²⁺ entry; Aortic dissection (Li, W. (496) 151)

Hydroxyl radical; Contraction; Vascular smooth muscle; Signal transduction pathway (Li, J. (499) 171)

Aortic smooth muscle cell, rat

Quercetin; Mitogen-activated protein kinase; Extracellular signal-regulated kinase; c-Jun N-terminal kinase (Shih, C.-M. (496) 41)

Apamin

Gabapentin; K⁺ channel; Pinacidil; Charybdotoxin; Glibenclamide (Mix-coatl-Zecuatl, T. (484) 201)

Apomorphine

Eticlopride; Vesicular monoamine transporter; Redistribution; Neurodegeneration (Truong, J.G. (492) 143)

Apoptosis

Allicin; SiHa; HeLa; SW480; L-929; Garlic (Oommen, S. (485) 97)

Hydrogen peroxide; Ebselen; p38 MAP (mitogen-activated protein) kinase; HUVEC (human umbilical vein endothelial cell) (Ali, N. (485) 127)

Ca²⁺; Cytochrome c; Caspase-3; Hypoxia/re-oxygenation; Na⁺/H⁺ exchanger (Sun, H.-Y. (486) 121)

(1R,9S)- β -Hydrastine; L-DOPA (L-3,4-dihydroxyphenylalanine); Cytotoxicity; PC12 cell (Yin, S.Y. (488) 71)

Taxol-resistant cell; Polyploidization; PMA; bcl-2 (Zong, Z.-p. (489) 3)

Cynaropicrin; Sesquiterpene lactone; Cytotoxicity; Cell cycle arrest; PKC δ (Cho, J.Y. (492) 85)

Sigma receptor; Lipid raft; Sphingolipid; Liver, rat (Gebreselassie, D. (493) 19)

Aniracetam; Astrocyte; Ischemia; Erk1/2; Akt (Gabryel, B. (494) 111)

Apoptosis

Necrosis; Cyclosporin A; Permeability transition pore; Preservation solution; Rat, liver (Plin, C. (495) 111)

Terfenadine; Thymocyte; Mitochondria; Fexofenadine; Voltage-dependent K^+ channel (Enomoto, R. (496) 11)

Keloid; PKC412; Staurosporine; Caspase (Nakazono-Kusaba, A. (497) 155)

KR-31378; PTEN phosphorylation; Maxi-K channel; CREB; Akt (Kim, K.Y. (497) 267)

Melanoma; Betulinic acid derivative; Reactive oxidative species; Mitochondrial membrane potential (Liu, W.-K. (498) 71)

Prodelphinidin B-2 3; 3'-di-*O*-gallate; A549 cell; p53; Fas/APO-1; Fas ligand (Kuo, P.-L. (501) 41)

Pyrazole ligand; Palladium (II) complex; Platinum (II) complex; Alkylating activity; Cytotoxic effect (Budzisz, E. (502) 59)

Akt; Bcl-2; ERK; Gemcitabine; p53 (Chang, G.-C. (502) 169)

Hexadecylphosphocholine; Anticancer (Duijsings, D. (502) 185)

Quercetin; Hepatocyte; Selective growth inhibition; Antioxidant defense system (Son, Y.-O. (502) 195)

HMA (5-(*N,N*-hexamethylene)-amiloride); JNK; c-Jun; p53; p21^{WAF1/CIP1} (Suzuki, T. (503) 1)

Na^+ - H^+ exchange inhibitor; LVDP (Left ventricular developed pressure); ³¹P-NMR (nuclear magnetic resonance); EPR (Electron paramagnetic resonance) spectrometry; Ischemia-reperfusion injury; (Guinea pig) (Hotta, Y. (503) 109)

Echinacoside; TNF α ; Mitochondrial membrane potential; Reactive oxygen species; Caspase-3 (Deng, M. (505) 11)

NSAID; Rofecoxib; Ibuprofen; bFGF expression; VEGF expression; Proliferation (Sánchez-Fidalgo, S. (505) 187)

Appetite

Cannabinoid CB₁ receptor; Conditioned taste aversion; Ingestive behavior; Intracranial self-stimulation; Locomotor activity; Operant behavior; (Rat) (De Vry, J. (483) 55)

Benzodiazepine; Endocannabinoid; Obesity; Opioid; Palatability (Cooper, S.J. (500) 37)

Arachidonic acid

D-erythro-sphingosine; *D-erythro*-dihydrosphingosine; *D-erythro-N,N*-dimethylsphingosine; Phospholipase A₂; PC12 cell (Nakamura, H. (484) 9)

Human pulmonary arteries; Cyclooxygenase; Cytochrome P450; NO (Nitric oxide); K^+ channels (Guerard, P. (501) 127)

Arc (activity-regulated cytoskeletal associated protein)

Antidepressant; 5-hydroxytryptamine; SNRI (selective 5-HT/noradrenaline reuptake inhibitor); Neuroplasticity (Pei, Q. (495) 227)

ARF

PIP5K; PIP₂; Phosphoinositide metabolism; Rho (Oude Weernink, P.A. (500) 87)

L-arginine

Inducible nitric oxide synthase; L-NIL (*N*-iminoethyl-L-lysine); Atherosclerosis; (Rabbit); Superoxide anion (Simonet, S. (492) 211)

Aripiprazole

Antipsychotic; Dopamine; Serotonin; Prefrontal cortex; Hippocampus (Li, Z. (493) 75)

ARL 67156

Ecto-ATPase; Chromaffin cell; Inositol phosphate; P2Y receptor (Drakulich, D.A. (485) 137)

Arousal effect

Sleep latency; Chlorogenic acid; Caffeic acid; Dihydrocaffeic acid; Caffeine (Shinomiyama, K. (504) 185)

Arrhythmia

Fish oil; Polyunsaturated fatty acid; Adrenoceptor agonists; Eicosapentaenoic acid; Docosahexaenoic acid (Xiao, Y.-F. (485) 31)

Alternans; HERG; Torsade de Pointes; QT prolongation (Fossa, A.A. (486) 209)

Delayed preconditioning; Celecoxib (Nagy, O. (499) 197)

Carbachol; Infarct size; Preconditioning; Trimetazidine (Kara, A.F. (503) 135)

Arterial blood pressure

Dietary Ca; Amlodipine; α -Vascular reactivity (Civantos, B. (489) 101)

Tamsulosin; Intraurethral pressure (Ohtake, A. (497) 327)

Arterial hypertension

Tachykinin NK₃ receptor; Central autonomic regulation; Catecholamine; Vasopressin (Lessard, A. (486) 75)

Artery

Diabetes; Liposome; Superoxide dismutase; Vasodilation (Voinea, M. (484) 111)

Artery mesenteric

K^+ channel; Bisindolylmaleimide; PKC (protein kinase C); Smooth muscle; Patch-clamp; (Rat) (Kim, A. (483) 117)

Artery occlusion

5-Aminoisoquinolinone; Reperfusion (Di Paola, R. (492) 203)

Artery relaxation

Aortat; Endothelium; Glyceryl trinitrate metabolism; Glyceryl dinitrate; Tolerance *ex vivo*; NO (nitric oxide) synthase inhibition (de la Lande, I.S. (486) 201)

Arthritic pain

Articular incapacitation; Hyperalgesia; Analgesia; IRL 1620; Endothelin receptor (Daher, J.B. (496) 77)

Arthritis

Δ^9 -THC; Dynorphin A (Cox, M.L. (493) 65)

Shiraiachrome A; Angiogenesis inhibitor; Receptor tyrosine kinase (Tong, Y. (494) 101)

TNF- α ; Neutrophil; Immune inflammation; Pentoxifylline; Thalidomide (Bombini, G. (496) 197)

Leukotrienes; Zymosan; Neutrophils; Hyperalgesia; Pain (da Rocha, F.A.C. (497) 81)

G-protein; Inflammation; Complete Freund's adjuvant (Cichewicz, D.L. (504) 33)

Articular incapsulation

Hyperalgesia; Analgesia; Arthritic pain; IRL 1620; Endothelin receptor (Daher, J.B. (496) 77)

Arylacetamide

Benzomorphan; Nor-binaltorphimine; κ -Opioid receptor (Rusovici, D.E. (485) 119)

Arylalkylamine

Amino acid; Dipeptide; CGP7930; Allosteric modulation; GABA_B receptor (Urwiler, S. (483) 147)

Asimadoline

κ -Opiate receptor agonist; Epithelial transport; EMD 61753 (Schreiber, R. (503) 185)

Aspirin

Ticlopidine; Clopidogrel; Platelet; Nitric oxide (NO); Platelet–subendothelium interaction. (De La Cruz, J.P. (484) 19)

Asthma

Histone acetylation/deacetylation; Glucocorticoid resistance; Nuclear factor- κ B (Hayashi, R. (500) 51)

Airway remodelling; COPD; Acetylcholine; Airway smooth muscle; Anticholinergic (Gosens, R. (500) 193)

Airways; Inflammation; Neurotrophin; NGF (nerve growth factor); Lung (Frossard, N. (500) 453)

Leukotriene receptor antagonist; Leukotriene CysLT₁ receptor; Cysteinyl-leukotriene; Airway inflammation (Ferrari, F. (504) 223)

Asthmalike reaction

Pea seedling histaminase; Amine oxidase; Histamine; Mast cell; Leukocyte; Free radical (Masini, E. (502) 253)

Astrocyte

Aniracetam; Ischemia; Apoptosis; Erk1/2; Akt (Gabryel, B. (494) 111)

PARG; PARP; Gallotannin; GPI 16552; Cell death (Falsig, J. (497) 7)

GABA; Epilepsy; Transporter; Betaine transporter; *exo*-THPO; Neuron; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

Astroglia

GABA; Epilepsy; Transporter; Betaine transporter; Astrocyte; *exo*-THPO; Neuron; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

Atherosclerosis

Microcirculation; Reperfusion (Taylor, A.J. (486) 85)

Inducible nitric oxide synthase; L-NIL (*N*-iminoethyl-L-lysine); L-arginine; (Rabbit); Superoxide anion (Simonet, S. (492) 211)

Benidipine; Antioxidant; Endothelium; VCAM-1 (Matsubara, M. (498) 303)

Western-type diet; Orlistat; Fat absorption (Ueshima, K. (501) 137)

Antioxidant; 2-Biphenylmorpholine compound; Low-density lipoprotein; Copper-mediated oxidation; (Rabbit) (Tavridou, A. (505) 213)

Atipamezole

α_2 -Adrenoceptor knockout; Dexmedetomidine; ¹⁸FDG; Fluorodeoxyglucose (Fagerholm, V. (505) 243)

Atopic dermatitis

NC/Nga, mouse; Scratching behavior; Itching; MicroAct (Takano, N. (495) 159)

LFA-1 antibody; Allergy (Ohmura, T. (504) 113)

Prostaglandin D₂; Scratch; NC/Nga, mouse; Pruritus (Arai, I. (505) 229)

Atorvastatin

Nitric oxide; Phosphodiesterase-5 inhibitor; Sildenafil; Statins; Vascular reactivity (Castro, M.M. (498) 189)

ATP

Presynaptic; Postsynaptic; P2X receptor; P2Y receptor (Illes, P. (483) 5)

P2X receptor; Site-directed mutagenesis; *Xenopus* oocyte; Membrane current (Nakazawa, K. (483) 29)

Receptor subtype; Vascular relaxation; Cholinergic agonist; SIN-1 (Khurana, S. (493) 127)

Noradrenaline; Vas deferens; Synergism; PKC (Smith, N.C.E. (498) 241)

ATP and purinergic mechanism

Sympathetic neurotransmission; Co-transmission; Noradrenaline and vasoconstriction; Neuropeptide Y modulation; Human vascular neuroeffector junction (Pablo Huidobro-Toro, J. (500) 27)

ATP responsiveness

P2X₂ receptor; Channel pore mutant; Desensitization (Nakazawa, K. (495) 27)

ATP-P2X₇ receptor

Maitotoxin; Cytolytic pore; Cell death; Ca²⁺ (Lundy, P.M. (487) 17)

ATP-sensitive channel

(–)-Linalool; Antinociception; Cholinergic; Opioid; Dopamine; K⁺ channel (Peana, A.T. (485) 165)

ATP-sensitive K⁺ channel

HypoThalamus; Blood glucose; Hypoglycemic; Glibenclamide; Repaglinide (Zhang, Y. (492) 71)

Insulin secretion; Fluoroquinolone; Levofloxacin; Gatifloxacin; Temafloxacin (Saraya, A. (497) 111)

ATP-sensitive potassium channel

Basilar artery; Cromakalim; Diabetes; Insulin; Relaxation (Matsumoto, T. (504) 129)

Atracurium

Carotid body; Nicotine; Vecuronium; Acetylcholine receptor; Anesthetic (Jonsson, M. (497) 173)

Atrasentan

YM598; Bosentan; Antagonist; Endothelin receptor (Yuyama, H. (498) 171)

Atrial fibrillation

Action potential; Ethanol; Pulmonary vein (Chen, Y.-C. (483) 215)

Atrial function

CGRP (Calcitonin gene-related peptide); Calcitonin; ANP (Atrial natriuretic peptide); Amylin (Piao, F.L. (483) 295)

Atrioventricular block

Fluoroquinolone; Monophasic action potential; QT interval; Torsades de pointes; α_1 -Adrenoceptor stimulation (Chiba, K. (486) 189)

Attention

Haloperidol; Clozapine; Risperidone; Cognition; Signal detection task (Rezvani, A.H. (486) 175)

Glucose; Insulin; Glucose transporter; Memory; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Attention-deficit hyperactivity disorder

Spontaneous behaviour; Repetitive jaw movement; Striatum; Ventrolateral; Dopamine D1-like/D2-like receptor; Acetylcholine receptor; Spontaneously hypertensive rat (SHR) (Fujita, S. (484) 75)

Atypical antipsychotic drug

α_2 -Adrenoceptor antagonist; Microdialysis; Catecholamine; Caudate nucleus (Pira, L. (504) 61)

Atypical cannabinoid receptor

Vascular endothelium; Cell migration (Mo, F.M. (489) 21)

Audiogenic seizure

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; DBA/2, mouse (Gareri, P. (484) 49)

Autoimmune glomerulonephritis

Adrenomedullin; Mycophenolate mofetil; Brown Norway, rat; Mercuric chloride (Shi, Y. (489) 127)

Autonomic nervous system

Hypertension; Neonatal, rat; Spinal cord (Peng, S.-C. (492) 49)

Autoradiography

Adolescence; Dopamine; Nicotine; Serotonin (Collins, S.L. (502) 75)

Adenosine; Adenosine A_{2A} receptor; ZM 241385; A_{2A} knockout; (Mouse) (Kelly, M. (504) 55)

Avermectin

(Mouse); Tumor growth (Drinyaev, V.A. (501) 19)

Avermectins

Calcein; Multidrug resistance; Rhodamine 123; Tumor cells (Korystov, Y.N. (493) 57)

5-Aza-2'-deoxycytidine

Paclitaxel; Nitric oxide (NO); iNOS (nitric oxide (NO) synthase, inducible); L929; Fibrosarcoma (Miljkovic, D. (485) 81)

Azithromycin

P-glycoprotein; Multidrug resistance; Doxorubicin; Mrp2 (Multidrug resistance-associated protein 2); Biliary excretion; (Rat) (Asakura, E. (484) 333)

B vitamin

Riboflavin; Allodynia; Hyperalgesia (Granados-Soto, V. (492) 35)

B8805-033

α_1 -Adrenoceptor subtype; α_1 -Adrenoceptor antagonist; Chloroethylclonidine; Noradrenaline; Tail artery, rat (Jähnichen, S. (488) 157)

Baclofen

Alcohol intake; Morphine; WIN 55,212-2; Sardinian alcohol-preferring (sP), rat (Colombo, G. (492) 189)

Gabapentin; GABA (Parker, D.A.S. (495) 137)

L-NAME; Synergy (Rawls, S.M. (502) 271)

CGP35348; GABA_B receptor antagonist; Food intake; GABA_B (Patel, S.M. (503) 89)

CGP7930; Positive allosteric modulation of GABA_B receptor; γ -Hydroxybutyric acid (GHB); SCH 50911; DBA, mouse (Carai, M.A.M. (504) 213)

(±)-Baclofen

1,4-Butanediol; γ -GHB (γ -hydroxybutyrate); GABA_B receptor; Cross-tolerance (Eckermann, K.A. (484) 259)

Barbiturate

GABA_A receptor; Benzodiazepine; Inhibition; γ -aminobutyric acid; Spontaneous activity; Channel block; Tonic current (Lindquist, C.E.L. (496) 23)

Barostat

5-HT_{1F}; Proximal stomach; Sumatriptan; Retching (Janssen, P. (492) 259)

Basal entry

Calcium; Vascular smooth muscle (Poburko, D. (505) 19)

Basilar artery

Diabetes; Endothelin-1; Endothelium; NO (Nitric oxide); (Rabbit) (Alabadi, J.A. (486) 289)

Uridine 5'-triphosphate; α,β -Methyleneadenosine 5'-triphosphate; P2Y₄ receptor; Ectonucleotidase; Smooth muscle (Miyagi, Y. (488) 117)

Diabetes; Endothelium; Insulin; Oxidative stress; Relaxation (Matsumoto, T. (504) 119)

ATP-sensitive potassium channel; Cromakalim; Diabetes; Insulin; Relaxation (Matsumoto, T. (504) 129)

Bay K 8644

Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

bcl-2

Taxol-resistant cell; Polyploidization; PMA; Apoptosis (Zong, Z.-p. (489) 3)

Bcl-2

Z24; Antitumor; Antiangiogenesis; VEGF; bFGF (Wang, L.-l. (502) 1)

Akt; Apoptosis; ERK; Gemcitabine; p53 (Chang, G.-C. (502) 169)

Bcl-2 family member protein

Clerodane diterpene; *Casearia membranacea*; Caseamembrin; Caspase (Huang, D.-M. (503) 17)

BDNF

Zinc; Cortex; Hippocampus (Nowak, G. (492) 57)

Tramadol; α_1 -Adrenoceptors; Dopamine D2 and D3 receptors; TrkB; Brain, rat (Faron-Górecka, A. (501) 103)

BDNF (brain-derived neurotrophic factor)

Parkinson's disease; Neuroprotection; AMPA receptor potentiator; LY404187; 6-Hydroxydopamine; MPTP; GAP-43 (growth-associated protein-43); (Rat) (O'Neill, M.J. (486) 163)

Behavior

RC-3095; Bombesin; Gastrin-releasing peptide; Anticancer drug; Memory (Roesler, R. (486) 35)

Physiology; Animal model; Flesinoxan; Repeated testing; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 25)

Physiology; Anxiety; Animal model; Flesinoxan; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 45)

Dopamine; Dopamine receptor; *C. elegans*; Genetics (Suo, S. (500) 159)

4-Butyl- α -agarofuran (AF-5); Anxiety; Monoamine neurotransmitter; Tissue concentration; Microdialysis (Zhang, Y. (504) 39)

Behavioral sensitization

D-Amphetamine; DAT (dopamine transporter); GFAP (glial fibrillary acidic protein); GLT-1 (glutamate transporter-1) (Armstrong, V. (488) 111)

Behaviour

Maternal stress; Adolescence; MDMA; Pharmacokinetics; Individual variability (Morley-Fletcher, S. (489) 89)

Behavioural topography

Dopamine D1-like receptor; Adenylyl cyclase-coupled; Non-adenylyl cyclase-coupled; SK&F 83822; Dopamine D1-like: D2-like receptor interaction; (Mouse) (O'Sullivan, G.J. (486) 273)

Benazoline

Clonidine; Guanfacine; Visceral pain; Formalin; Imidazoline receptor (Sabetkasaie, M. (501) 95)

Benidipine

Antioxidant; Endothelium; VCAM-1; Atherosclerosis (Matsubara, M. (498) 303)

Benzenesulfonate

Familial combined hyperlipidemia; Hypercholesterolemia; Lipoprotein (Masana, L. (496) 205)

Benzodiazepine

GABA; 6-Methylflavone; Flavonoid; GABA_A receptor (Hall, B.J. (491) 1) Stress; Acetylcholine; Corticosterone; Buspirone; Hippocampus; Microdialysis (Degroot, A. (493) 103)

GABA; Flavonoid; Coumestan; Flunitrazepam (Lopes, D.V.S. (495) 87)

GABA_A receptor; Barbiturate; Inhibition; γ -aminobutyric acid; Spontaneous activity; Channel block; Tonic current (Lindquist, C.E.L. (496) 23)

Appetite; Endocannabinoid; Obesity; Opioid; Palatability (Cooper, S.J. (500) 37)

Anxiolytic; γ -Aminobutyric acid_A (Basile, A.S. (500) 441)

Benzomorphan

Arylacetamide; Nor-binaltorphimine; κ -Opioid receptor (Rusovici, D.E. (485) 119)

Betaine transporter

GABA; Epilepsy; Transporter; Astrocyte; *exo*-THPO; Neuron; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

Betulinic acid derivative

Melanoma; Apoptosis; Reactive oxidative species; Mitochondrial membrane potential (Liu, W.-K. (498) 71)

bFGF

Tranilast; Gingival fibroblast; Proliferation (Hattori, T. (498) 79)

Z24; Bcl-2; Antitumor; Antiangiogenesis; VEGF (Wang, L.-l. (502) 1)

bFGF (basic fibroblast growth factor)

Angiogenesis; Dexamethasone; Gastric ulcer; Prostaglandin E₂; VEGF (vascular endothelial growth factor) (Luo, J.C. (485) 275)

bFGF expression

NSAID; Rofecoxib; Ibuprofen; VEGF expression; Apoptosis; Proliferation (Sánchez-Fidalgo, S. (505) 187)

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Antimigraine drug; CGRP; Migraine (Arulmani, U. (500) 315)

Bicarbonate

Dystonia; GABA (γ -aminobutyric acid); Movement disorder (Richter, A. (502) 105)

Biguanide

Glucagon-like peptide 2; Dipeptidyl peptidase IV; Intestine (Yamazaki, K. (488) 213)

Bile

Dipeptidyl peptidase IV; Active metabolite; (Rat) (Takasaki, K. (505) 237)

Biliary excretion

Azithromycin; *P*-glycoprotein; Multidrug resistance; Doxorubicin; Mrp2 (Multidrug resistance-associated protein 2); (Rat) (Asakura, E. (484) 333)

Biliverdin

Carbon monoxide (CO); Endothelin-1; Heme oxygenase; Pulmonary artery smooth muscle cellhuman; Pulmonary hypertension (Stanford, S.J. (486) 349)

Binding

Glucagon; Receptor; Occupancy; Antagonist (Dallas-Yang, Q. (501) 225)

Binding activity

Chemical synthesis; CD (Circular dichroism); Helical structure; Relaxant activity; VIP (vasoactive intestinal peptide) derivative (Onoue, S. (485) 307)

Binding affinity

Opioid receptor; μ -Opioid receptor agonist; 14-*O*-methyloxymorphone; Vas deferens; Mouse (Spetea, M. (483) 301)

Binding assay

Second-generation histamine H₁ receptor antagonists; Ketotifen; Sleep-wakefulness cycle; Rat (Shigemoto, Y. (494) 161)

Binding site

G protein-coupled receptor; Molecular modelling; Nonpeptide antagonists; Site-directed mutagenesis (Meini, S. (488) 61)

Bisindolylmaleimide

K⁺ channel; PKC (protein kinase C); Artery mesenteric; Smooth muscle; Patch-clamp; (Rat) (Kim, A. (483) 117)

2-Biphenylmorpholine compound

Antioxidant; Low-density lipoprotein; Atherosclerosis; Copper-mediated oxidation; (Rabbit) (Tavridou, A. (505) 213)

Bladder

TAK-802; Acetylcholinesterase inhibitor; Micturition; (Rat); (Guinea pig) (Nagabukuro, H. (485) 299)

Female (mouse); Oestrogen; Muscarinic M₁, M₃ and M₅ receptors; Pregnancy (Ma, S. (487) 205)

TAK-802; Acetylcholinesterase inhibitor; Urodynamics; (Guinea pig) (Nagabukuro, H. (494) 225)

Long-chain fatty alcohol; (Rat); Bladder neck obstruction; Detrusor overactivity (Saito, M. (501) 143)

Bladder neck obstruction

Bladder; Long-chain fatty alcohol; (Rat); Detrusor overactivity (Saito, M. (501) 143)

Bladder selectivity

Solifenacin; Urinary bladder; Salivary gland (Ohtake, A. (492) 243)

Bleomycin

Erdosteine; Lung fibrosis; Myeloperoxidase; Hydroxyproline (Sogut, S. (494) 213)

Blood

Nitroparacetamol, Nitroflurbiprofen; Interleukin-1 β ; TNF- α (tumour necrosis factor- α); Lipopolysaccharide (Marshall, M. (483) 317)

Blood glucose

HypoThalamus; ATP-sensitive K⁺ channel; Hypoglycemic; Glibenclamide; Repaglinide (Zhang, Y. (492) 71)

Blood pressure

Cannabidiol; Anandamide; Vanilloid VR1 receptors; Ventilation (McQueen, D.S. (491) 181)

Opioids; Enkephalin analogue cUENK6; Naloxonazine; Diuresis; Natriuresis; Natriuretic peptides; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

Blood–brain barrier

SEA0400; Brain edema; Radiofrequency lesion; Na⁺–Ca²⁺ exchanger (Koyama, Y. (489) 193)

Insulin; Central nervous system; Transport; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

Alzheimer's disease; Insulin; Insulin-like growth factor I; β Amyloid; Tau (Carro, E. (490) 127)

Cyclosporine; Neurotoxicity; NO (nitric oxide); Permeability; P-glycoprotein (Dohgu, S. (505) 51)

Brain; Pharmacokinetics; Drug delivery; Erythropoietin; Stroke; Neuroprotection (Banks, W.A. (505) 93)

BLT₁

Leukotriene B₄; G-protein coupled receptor; Fura-2; Pharmacology; Calcium (Sabirsh, A. (499) 53)

Body temperature

3,4-Methylenedioxyamphetamine; Ecstasy; Hyperthermia; Neurotoxicity; Serotonin (Green, A.R. (500) 3)

Body weight

Opioid receptor antagonist; Nalmefene; Food intake (Chen, R.Z. (495) 63)

Bombesin

RC-3095; Gastrin-releasing peptide; Anticancer drug; Behavior; Memory (Roesler, R. (486) 35)

Bone marrow-derived dendritic cell

Syk; Immune complex; Fc γ receptor; Antigen internalization; Antigen presentation (Nakashima, K. (505) 223)

Bosentan

YM598; Atrasentan; Antagonist; Endothelin receptor (Yuyama, H. (498) 171)

Bradykinin

Serum-deprivation; Free radical scavenger; Endothelial dysfunction; p38 MAP kinase; Tyrosine kinase (Maeda, Y. (491) 53)

Hot-plate; Writhing test; Migraine-like model; Rat; Sumatriptan (Ottani, A. (497) 181)

Cyclooxygenase; Phospholipase A₂; Phospholipase C; Vanilloid receptor 1 (Tang, H.-B. (498) 37)

Angiotensin 1-converting enzyme; Diabetes mellitus; Kinin B₁ receptor; Kinin B₂ receptor; Oxidative stress (Couture, R. (500) 467)

Human, prostate; Prostate stromal cell; Prostate epithelial cell (Srinivasan, D. (504) 155)

Bradykinin B₁ and B₂ receptors

TNF- α ; Chronic airway inflammation; Airway hyperresponsiveness; MAPK pathway (Zhang, Y. (489) 117)

Bradykinin B₁ receptor

Antagonist; Radioligand (Ransom, R.W. (499) 77)

Brain

Adenosine receptor; Pharmacology; Mouse; cAMP assay (Wittendorp, M.C. (487) 73)

Insulin; Learning; Cognition; Dementia; Diabetes mellitus; Insulin signaling; Glucose metabolism (Biessels, G.J. (490) 1)

Glucose/energy metabolism; Alzheimer disease; Insulin; Insulin receptor; Glucose (Hoyer, S. (490) 115)

Adrenal medulla; Diacylglycerol lipase; Vasopressin; Phospholipase C (Shimizu, T. (499) 99)

Capsaicin; Primary sensory neuron; Viscera; Pain; Inflammation (Nagy, I. (500) 351)

Sickness behaviour; Cytokines; Inflammation; Afferent nerve; Pain; Sleep; Learning and memory (Dantzer, R. (500) 399)

Pharmacokinetics; Drug delivery; Blood–brain barrier; Erythropoietin; Stroke; Neuroprotection (Banks, W.A. (505) 93)

Brain edema

SEA0400; Radiofrequency lesion; Blood–brain barrier; Na⁺–Ca²⁺ exchanger (Koyama, Y. (489) 193)

Brain injury

Soman; Memory impairment; Prophylactic; Physostigmine; Procyclidine (Choi, E.-K. (505) 83)

Brain ischemia

Oxidative neuronal injury; KR-31378; Neuroprotection; Antioxidant; K⁺ channel opener (Kim, S.-O. (487) 81)

Cyclosporine A; mdr1a; (Knockout mouse); NeuN (Murozono, M. (498) 115)

Brain, rat

Fas receptor aggregate; Fas protein; Deglycosylation; Opiate drug; Morphine addiction; (García-Fuster, M.J. (496) 63)

Tramadol; α_1 -Adrenoceptors; Dopamine D2 and D3 receptors; BDNF; TrkB (Faron-Górecka, A. (501) 103)

Brain-derived neurotrophic factor

Phosphodiesterase 4; Rolipram; Antidepressant; Learned helplessness; cAMP response element (Itoh, T. (498) 135)

Brainstem

Stomach; Vagus; Enteric nervous system; Gastrin; Ghrelin; Leptin (Konturek, P.C. (499) 15)

Breath condensate

SCMC-Lys (Carbocysteine lysine salt monohydrate); COPD; 8-isoprostane; Interleukin-6 (Carpagnano, G.E. (505) 169)

Bremazocine

κ -opioid receptor; Potassium channel; Peripheral antinociception; Carra-genan (Amarante, L.H. (494) 155)

BRL44408

Dihydroergotamine; (Dog); Carotid vasoconstriction external; MK912; SB224289 (Villalón, C.M. (484) 287)

Bromocriptine

Cytochrome P450; Cyclosporine; Prolactin; Drug metabolism (Lu, S.K. (501) 215)

Bronchial smooth muscle

Growth factor; Rho-kinase (Gosens, R. (494) 73)

Capsaicin; Sensory neurotransmitter; Visceral smooth muscle; Gastrointestinal tract; Genitourinary tract (Barthó, L. (500) 143)

Bronchoalveolar lavage fluid

Inflammatory cytokine; Neutrophil; Pulmonary edema (Jian, M.-Y. (488) 231)

Bronchoconstriction

Lung; NO (Nitric oxide); Mast cell; Anaphylaxis; Spontaneously hypertensive rat (Kwasniewski, F.H. (488) 181)

Brown adipose tissue

Thermogenesis; Oxygen consumption; Bupropion; Brown fat (Liu, Y.-L. (498) 219)

Brown fat

Thermogenesis; Oxygen consumption; Bupropion; Brown adipose tissue (Liu, Y.-L. (498) 219)

Brown Norway, rat

Adrenomedullin; Mycophenolate mofetil; Mercuric chloride; Autoimmune glomerulonephritis (Shi, Y. (489) 127)

Bupropion

Thermogenesis; Oxygen consumption; Brown adipose tissue; Brown fat (Liu, Y.-L. (498) 219)

Seizure; Antidepressant drug; Smoking cessation; Epilepsy (Tutka, P. (499) 117)

Nomifensine; Dopamine D1 receptor; Dopamine D2 receptor; Antidepressant; Forced swimming test (Yamada, J. (504) 207)

Bupirone

Stress; Acetylcholine; Corticosterone; Benzodiazepine; Hippocampus; Microdialysis (Degroot, A. (493) 103)

Colorectal distension; Visceral pain; Anti-nociception; 5-HT_{1A} receptor (Sivarao, D.V. (494) 23)

1,4-Butanediol

($\pm$)-Baclofen; γ -GHB (γ -hydroxybutyrate); GABA_B receptor; Cross-tolerance (Eckermann, K.A. (484) 259)

4-Butyl- α -agarofuran (AF-5)

Anxiety; Monoamine neurotransmitter; Behavior; Tissue concentration; Microdialysis (Zhang, Y. (504) 39)

 γ -butyrobetaine

Mildronate; γ -butyrobetaine ester; NO (Nitric oxide); Nitric oxide synthase; Vasorelaxation (Sjakste, N. (495) 67)

 γ -butyrobetaine ester

Mildronate; γ -butyrobetaine; NO (Nitric oxide); Nitric oxide synthase; Vasorelaxation (Sjakste, N. (495) 67)

Butyrylcholinesterase

Alzheimer's disease; Cholinesterase inhibitor; Acetylcholinesterase (Liston, D.R. (486) 9)

BW723C86

Hypotension; 5-Hydroxytryptamine; 5-HT₇ receptor; 5-HT_{2B} receptor; SB-269970 (Centurión, D. (502) 239)

C. elegans

Dopamine; Dopamine receptor; Behavior; Genetics (Suo, S. (500) 159)

C6 glioma cell

Endocannabinoid; Anandamide uptake; Fatty acid amide hydrolase (Fowler, C.J. (492) 1)

Ca²⁺

Apoptosis; Cytochrome c; Caspase-3; Hypoxia/re-oxygenation; Na⁺/H⁺ exchanger (Sun, H.-Y. (486) 121)

ATP-P2X₇ receptor; Maitotoxin; Cytolytic pore; Cell death (Lundy, P.M. (487) 17)

Cyclooxygenase-2; Oxygen-glucose deprivation; NMDA; Primary cortical culture; Excitotoxicity (Gendron, T.F. (493) 45)

Urotensin-II; Urantide; UT receptor; CHO cell; Aorta, rat (Camarda, V. (498) 83)

Nicotine; Nonsynaptic; Transmitter release; Two-photon imaging (Sylvester Vizi, E. (500) 499)

Ca²⁺ channel

Estrogen; Tamoxifen; Ovariectomy; Gene expression; K⁺ channel; (Rat) (Tsang, S.Y. (483) 155)

Ca²⁺ entry, capacitative; Fura-2; Myosin light chain kinase; Smooth muscle, airway (Ito, S. (486) 325)

Nitrosourea; Glutathione; Oxidative stress; Intracellular Ca²⁺; Cl[−] channel (Doroshenko, N. (497) 17)

Ca²⁺ current

Cardiac cell; Phenol derivative; Electrophysiology; Myocytehuman (Magyar, J. (487) 29)

Ca²⁺ entry

Aortic ring; Cocaine; Relaxation; Phosphatase; Aortic dissection (Li, W. (496) 151)

Ca²⁺ entry, capacitative

Ca²⁺ channel; Fura-2; Myosin light chain kinase; Smooth muscle, airway (Ito, S. (486) 325)

Ca²⁺-activated K⁺ (BK_{Ca}) channel

Diosgenin; Porcine coronary artery; Oestrogen receptor; Iberiotoxin-sensitive (Au, A.L.S. (502) 123)

Ca²⁺ influx

Capsaicin; Capsazepine; Myosin light chain phosphorylation (Fujimoto, S. (487) 175)

Kaurenoic acid; Relaxation; Aorta, rat; K⁺ channel (Tirapelli, C.R. (492) 233)

Ca²⁺ intracellular

Celecoxib; Cyclooxygenase-2; Superoxide anion; Respiratory burst; Neutrophil; Protein kinase C (PKC); Genistein (Chang-Hui, L. (484) 29)

[Ca²⁺]_i oscillation

Rebamipide; Cholecystokinin CCK₁ receptor; Amylase (Moon, S.J. (505) 61)

Ca²⁺ overload

MCC-135; Cardioprotection; Ischemia; Reperfusion (Satoh, N. (499) 179)

Ca²⁺-sensitization

Phosphodiesterase inhibition; Phosphodiesterase subtype; Positive inotropy; Levosimendan; OR-1896 (Szilágyi, S. (486) 67)

Ca²⁺ transient

Bay K 8644; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

CACA

Hippocampus; mIPSC; GABA_A-receptor; Rho subunit; TPMPA (Hartmann, K. (497) 139)

CaCl₂-dependent [³H]glutamate uptake

Quisqualic acid; Quisqualate-effect; Quisqualate-priming; Cortical wedge preparation; 2-Amino-4-phosphonobutyric acid (Vestergaard, H.T. (488) 101)

Caffeic acid

Sleep latency; Chlorogenic acid; Dihydrocaffeic acid; Caffeine; Arousal effect (Shinomiya, K. (504) 185)

Caffeine

Human heart; Skinned fibre; Ouabain; Ryanodine channel (Hambarchian, N. (492) 225)

Sleep latency; Chlorogenic acid; Caffeic acid; Dihydrocaffeic acid; Arousal effect (Shinomiya, K. (504) 185)

Calcein

Avermectins; Multidrug resistance; Rhodamine 123; Tumor cells (Korystov, Y.N. (493) 57)

Calcitonin

Atrial function; CGRP (Calcitonin gene-related peptide); ANP (Atrial natriuretic peptide); Amylin (Piao, F.L. (483) 295)

Calcitonin gene-related peptide (CGRP)

Ischemic preconditioning; Ischemia–reperfusion; Capsaicin; Nitric oxide (NO) (Luo, D. (502) 135)

Calcium

NO (Nitric Oxide); cGMP (cyclic guanosine 3',5'-monophosphate); Aggregation; Platelet; SNAP (*S*-nitroso-*N*-acetyl-D,L-penicillamine); GEA 3175 (Asplund Persson, A.K. (496) 1)

Leukotriene B₄; G-protein coupled receptor; BLT₁; Fura-2; Pharmacology (Sabirsh, A. (499) 53)

Basal entry; Vascular smooth muscle (Poburko, D. (505) 19)

Calcium antagonist

Marrubenol; L-type Ca²⁺ channel; 1,4-Dihydropyridine; Phenylalkylamine (El Bardai, S. (492) 269)

Calcium channel

Endocannabinoid; Cannabinoid; Fatty acid; Skeletal muscle (Oz, M. (502) 47)

Calcium dobesilate

Advanced glycation end product; Antioxidant; Vascular permeability; VEGF (Vascular endothelial cell growth factor); Diabetic retinopathy (Rota, R. (495) 217)

Californine

Protopine; Metabolism; Cytochrome P450; Liver microsome, rat (Paul, L.D. (485) 69)

Calmodulin

Morphine; Conditioned place preference; Trifluoperazine (Ye, X.-F. (486) 265)

Calphostin C

Hypertension; Aorta; Mesenteric vascular bed; Chelerythrine (Fatehi-Hassanabad, Z. (494) 199)

Calreticulin

FR167653; Endoplasmic reticulum stress; p38 MAP kinase (Yamazaki, T. (484) 147)

CAM kinase

NMDA; Inflammation; Joint; Nitric oxide; CGRP (Lawand, N.B. (499) 155)

cAMP

Nitergic innervation; Mesenteric artery; PKA (protein kinase A); Forskolin (Ferrer, M. (487) 167)

Taste; Receptor; MAPK; G protein, inhibitory (Ozeck, M. (489) 139)

Airway smooth muscle; β₂-Adrenoceptor; (Guinea pig); Salbutamol; SQ 22,536 (Koike, K. (492) 65)

Endothelin; Mechanical hyperalgesia; Endothelin ET_B receptor; Protein kinase (da Cunha, J.M. (501) 87)

Agmatine; Morphine; Dependence; Withdrawal; Tyrosine hydroxylase (Aricioglul, F. (504) 191)

cAMP assay

Adenosine receptor; Pharmacology; Brain; Mouse (Wittendorp, M.C. (487) 73)

cAMP response element

Phosphodiesterase 4; Rolipram; Antidepressant; Learned helplessness; Brain-derived neurotrophic factor (Itoh, T. (498) 135)

Cancer gene therapy

Anti-oncogene; Suicide gene; *p53* gene; DNA vaccine; Cytokine gene (El-Aneed, A. (498) 1)

Candesartan

Adrenal medulla; Angiotensin; Catecholamine; Canine; Ramipril (Critchley, L. (489) 67)

Canine

Adrenal medulla; Angiotensin; Catecholamine; Candesartan; Ramipril (Critchley, L. (489) 67)

Cannabidiol

Abnormal-cannabidiol; WIN55212; Cannabinoid CB₁ receptor; Novel cannabinoid receptor antagonist; Mouse vas deferens (Thomas, A. (487) 213)

Anandamide; Vanilloid VR1 receptors; Blood pressure; Ventilation (McQueen, D.S. (491) 181)

Cannabinoid

Anandamide; Uptake; Transporter; Cannabinoid receptor; Multiple sclerosis (de Lago, E. (484) 249)

AM404; Excitatory synaptic transmission; *N*-acetyl ethanolamide; CB₁ receptor; Hippocampus (Kelley, B.G. (496) 33)

Kinase; Antinociception; Tolerance (Bass, C.E. (496) 99)

CB₁ receptor; Endocannabinoid-CB receptor system; Development; Failure-to-thrive; Implantation (Fride, E. (500) 289)

Calcium channel; Endocannabinoid; Fatty acid; Skeletal muscle (Oz, M. (502) 47)

GPCR; Cannabinoid CB₂ receptor; Species selectivity; Pharmacology (Mukherjee, S. (505) 1)

Cannabinoid CB₁ receptor

Appetite; Conditioned taste aversion; Ingestive behavior; Intracranial self-stimulation; Locomotor activity; Operant behavior; (Rat) (De Vry, J. (483) 55)

Cannabidiol; Abnormal-cannabidiol; WIN55212; Novel cannabinoid receptor antagonist; Mouse vas deferens (Thomas, A. (487) 213)

Delta-9-THC; 5-HTP; 5-HT; Carbidopa; SR 141716A; Head-twitch; Ear-scratch; Central; Peripheral (Darmani, N.A. (488) 201)

Anandamide; Receptor binding assay; Glaucoma (Lograno, M.D. (494) 55)

Cannabinoid CB₁ receptor antagonist

SR 141716 (Rimonabant); Intestinal motility; Chronic treatment and tolerance development; Mouse (Carai, M.A.M. (494) 221)

Cannabinoid CB₁ receptor antagonist, SR 141716

Extinction responding for alcohol; Sardinian alcohol-preferring (sP), rat (Colombo, G. (498) 119)

Cannabinoid CB₂ receptor

GPCR; Cannabinoid; Species selectivity; Pharmacology (Mukherjee, S. (505) 1)

Cannabinoid receptor

Anandamide; Uptake; Transporter; Cannabinoid; Multiple sclerosis (de Lago, E. (484) 249)

[³⁵S]GTPγS; 3-Alkyl-(5,5'-diphenyl)imidazolidinedione; Neutral antagonism; Inverse agonism (Govaerts, S.J. (495) 43)

Analgesic; Animal model; Drug discrimination (De Vry, J. (505) 127)

Cannabinoid receptor antagonist

Heroin self-administration; (Rat) (Navarro, M. (501) 235)

Cannabinoid system

Cholestasis; Anandamide; Nitric oxide (NO); Opioid system; Mesenteric vessel; (Rat) (Moezi, L. (486) 53)

Capacitance

Mean circulatory filling pressure; Noradrenaline; Vasoconstriction (Cheng, X. (484) 263)

Capsaicin

Capsazepine; Ca²⁺ influx; Myosin light chain phosphorylation (Fujimoto, S. (487) 175)

Sensory neurotransmitter; Visceral smooth muscle; Gastrointestinal tract; Bronchial smooth muscle; Genitourinary tract (Barthó, L. (500) 143)

Primary sensory neuron; Brain; Viscera; Pain; Inflammation (Nagy, I. (500) 351)

Calcitonin gene-related peptide (CGRP); Ischemic preconditioning; Ischemia-reperfusion; Nitric oxide (NO) (Luo, D. (502) 135)

Vascular; Remodeling; Hypertension; Salt; Heart (Zeng, Z.-h. (503) 129)

Capsazepine

Capsaicin; Ca²⁺ influx; Myosin light chain phosphorylation (Fujimoto, S. (487) 175)

Carbachol

Na⁺-K⁺-ATPase; Parotid gland (Busch, L. (486) 99)

Arrhythmias; Infarct size; Preconditioning; Trimetazidine (Kara, A.F. (503) 135)

Carbamazepine

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Kynurenic acid (Kocki, T. (498) 325)

Carbamoylcholine homolog

Nicotinic acetylcholine receptor; Acetylcholine; Agonist; Muscarinic (Jensen, A.A. (497) 125)

Carbenoxolone

Epilepsy; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Carbidopa

Delta-9-THC; 5-HTP; 5-HT; SR 141716A; Head-twitch; Ear-scratch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

Carbocisteine

Fucosidase; Sialidase; Fucosyltransferase; Sialyltransferase; Muc5ac (Ishibashi, Y. (487) 7)

β-Carboline

Imidazoline receptor; Ryanodine; KU14R; Insulin secretion; Islets of Langerhans (Squires, P.E. (501) 31)

Carbon monoxide (CO)

Biliverdin; Endothelin-1; Heme oxygenase; Pulmonary artery smooth muscle cellhuman; Pulmonary hypertension (Stanford, S.J. (486) 349)

5-Carboxamidotryptamine

5-HT; Zona incerta; 5-HT₇ receptor; Ritanserin; SB-269970-A (Siddiqui, A. (491) 77)

Cardiac cell

Ca²⁺ current; Phenol derivative; Electrophysiology; Myocytehuman (Magyar, J. (487) 29)

Cardiac failure

Myocardial fibrosis; VIP (Vasoepitidase Intestinal Peptide); Vasoepitidase inhibition; Angiotensin converting enzyme; Neutral endopeptidase (Ye, V.Z.C. (485) 235)

Cardiac function

Angiotensinogen-deficient mice; Renin angiotensin system; Cardiomyopathy; Pressure–volume relation (Walther, T. (493) 161)

MonoHER; Reperfusion; Oxidative stress; Necrosis; Neutrophil (De Celle, T. (494) 205)

Cardiac ischaemia

Nitric oxide synthase regulation; Oestrogen; Selective oestrogen-receptor modulator; Raloxifene; Heart (Nemcsik, J. (495) 179)

Cardiac output

Chronotropic; Flavonoid; Haemodynamics; N^ω-nitro-L-arginine; Nitric oxide; Regional blood flow (Wang, S. (491) 43)

Cardiac troponin C

Levosimendan; NMR (nuclear magnetic resonance); Drug interaction (Sorsa, T. (486) 1)

Cardiomyocyte

Resveratrol; Antioxidant; Reactive oxygen species; 4-Hydroxy-2-nonenal; Doxorubicin (Cao, Z. (489) 39)

Cardiomyocyte hypertrophy

Angiotensin II; Trilinolein; Reactive oxygen species; MAP (mitogen-activated protein) kinase; β-myosin heavy chain (Liu, J.-C. (484) 1)

Cardiomyocyte, rat

Gap junction; Connexin; TNFα; MAP-kinase (Salameh, A. (503) 9)

Cardiomyopathy

Angiotensinogen-deficient mice; Renin angiotensin system; Cardiac function; Pressure–volume relation (Walther, T. (493) 161)

Cardioprotection

MCC-135; Ischemia; Reperfusion; Ca²⁺ overload (Sato, N. (499) 179)

Cardiovascular

Adenosine A_{2A} receptor; Adenosine A₁ receptor; Dopamine D₂ receptor; Motor activity (Schindler, C.W. (484) 269)

Cardiovascular alteration

M40403; Glucose (Di Filippo, C. (497) 65)

Cardiovascular disease

Coronary artery; Endothelin; Gene expression; Endothelin receptor; Vasoconstriction (Wackenfors, A. (484) 103)

Coronary artery; Angiotensin II; Gene expression; Receptor; Vasoconstriction (Wackenfors, A. (503) 147)

Carotid artery

Diabetes; NO (Nitric oxide); Endothelin-1; Endothelin ET_A receptor; Endothelin ET_B receptor; Endothelium (Lloréns, S. (486) 43)

Carotid body

Nicotine; Atracurium; Vecuronium; Acetylcholine receptor; Anesthetic (Jonsson, M. (497) 173)

Carotid vasoconstriction external

BRL44408; Dihydroergotamine; (Dog); MK912; SB224289 (Villalón, C.M. (484) 287)

Carrageenan

Bremazocine; κ-opioid receptor; Potassium channel; Peripheral antinociception (Amarante, L.H. (494) 155)

(–)-Linalool; Hyperalgesia; L-glutamate; Prostaglandin E₂ (Peana, A.T. (497) 279)

Hyperalgesia; Inflammation; TENS; Opioid; Electrotherapy (Resende, M.A. (504) 217)

Carrageenan-induced inflammation

Methylguanidine; TNF-α (tumor necrosis factor-α); Reactive oxygen specie; iNOS (nitric oxide (NO) synthase, inducible); Cyclooxygenase-2 (Marzocco, S. (484) 341)

Carrageenan-induced paw oedema

Cyclooxygenase-2 inhibitor; Prostaglandin E₂; Zymosan-injected mouse air pouch; Angiogenesis (Devesa, I. (488) 225)

Carrier-mediated

Sibutramine; Dosulepin; Microdialysis; Dopamine release; 5-HT (5-hydroxytryptamine, serotonin) release (Ukai, K. (484) 209)

Caseamembrin

Clerodane diterpene; *Casearia membranacea*; Bcl-2 family member protein; Caspase (Huang, D.-M. (503) 17)

Casearia membranacea

Clerodane diterpene; Caseamembrin; Bcl-2 family member protein; Caspase (Huang, D.-M. (503) 17)

Caspase

Nitric oxide (NO); 7-Nitroindazole; Malonate; Oxidative stress (Paucard, A. (483) 259)

Keloid; Apoptosis; PKC412; Staurosporine (Nakazono-Kusaba, A. (497) 155)

Clorodane diterpene; *Casearia membranacea*; Caseamembrin; Bcl-2 family member protein (Huang, D.-M. (503) 17)

Renal/kidney; Ischemia; Reperfusion injury; Caspase inhibitor (Chatterjee, P.K. (503) 173)

Caspase inhibitor

Renal/kidney; Ischemia; Reperfusion injury; Caspase (Chatterjee, P.K. (503) 173)

Caspase-1

Interleukin-18; Interleukin-1 β ; Interleukin-18 binding protein; Inflammation (Mühl, H. (500) 63)

Caspase-3

Apoptosis; Ca²⁺; Cytochrome *c*; Hypoxia/re-oxygenation; Na⁺/H⁺ exchanger (Sun, H.-Y. (486) 121)

Echinacoside; Apoptosis; TNF α ; Mitochondrial membrane potential; Reactive oxygen species (Deng, M. (505) 11)

Catalepsy

GHB (γ -hydroxybutyrate); Haloperidol; Dizocilpine; Synergism (Sevak, R.J. (483) 289)

Catechin

Eggigallocatechin-3 gallate; VEGF (vascular endothelial growth factor); Endothelial cell; Cell proliferation (Neuhaus, T. (483) 223)

Green tea; Tea polyphenol; (–)-Epigallocatechin gallate; Gastrointestinal tract (Koo, M.W.L. (500) 177)

Catecholamine

β -Adrenoceptor; β -Adrenoceptor antagonist; Fibrosis (Brouiri, F. (485) 227)

Tachykinin NK₃ receptor; Arterial hypertension; Central autonomic regulation; Vasopressin (Lessard, A. (486) 75)

Adrenal medulla; Angiotensin; Canine; Candesartan; Ramipril (Critchley, L. (489) 67)

α_2 -Adrenoceptor antagonist; Atypical antipsychotic drug; Microdialysis; Caudate nucleus (Pira, L. (504) 61)

Caudate

Immediate early gene; c-fos; Striatum; Acetylcholine; Dopamine D1 receptor (Wirtshafter, D. (488) 85)

Caudate nucleus

α_2 -Adrenoceptor antagonist; Atypical antipsychotic drug; Microdialysis; Catecholamine (Pira, L. (504) 61)

Caudate–putamen

Nicotine; Epibatidine; Dopamine; Nucleus accumbens; In vivo microdialysis (Janhunen, S. (494) 167)

CB₁ receptor

AM404; Excitatory synaptic transmission; *N*-acetyl ethanolamide; Cannabinoid; Hippocampus (Kelley, B.G. (496) 33)

Cannabinoid; Endocannabinoid-CB receptor system; Development; Failure-to-thrive; Implantation (Fride, E. (500) 289)

CC chemokine

Neutrophil; Colitis; Inflammation; TNBS (Ajuebor, M.N. (497) 343)

CCL39 fibroblast

Antiarrhythmic drug; Amiodarone; Na⁺/Ca²⁺ exchange current; NCX1 (Watanabe, Y. (496) 49)

CCR5 chemokine receptor

μ -Opioid receptor; Heterodimer; Cross-desensitization (Chen, C. (483) 175)

CD (Circular dichroism)

Binding activity; Chemical synthesis; Helical structure; Relaxant activity; VIP (vasoactive intestinal peptide) derivative (Onoue, S. (485) 307)

Celecoxib

Cyclooxygenase-2; Superoxide anion; Respiratory burst; Neutrophil; Protein kinase C (PKC); Ca²⁺ intracellular; Genistein (Chang-Hui, L. (484) 29)

Cyclooxygenase-2; Prostaglandin E₂; Diabetic retinopathy; VEGF (Ayalasomayajula, S.P. (498) 275)

Delayed preconditioning; Arrhythmias (Nagy, O. (499) 197)

Cell culture

Neurosteroid; Ethanol; GABA_A receptor; Gene expression; Pregnancy (Follesa, P. (500) 413)

Neonatal asphyxia; α_2 -adrenoceptor antagonist; Neuronal injury; Neurological function (Ma, D. (502) 87)

Cell cycle

Quercetin; Flavonoid; Osteoblast; Proliferation; Differentiation (Notoya, M. (485) 89)

Leukemia; Proliferation; Cl[−] channel blocker; ClC-2 (Jiang, B. (488) 27)

Cell cycle analysis

Icariin; Icaritin; Desmethylicaritin; Phytoestrogen; Estrogenic activity; S phase; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)

Cell cycle arrest

Cynaropicrin; Sesquiterpene lactone; Cytotoxicity; Apoptosis; PKC δ (Cho, J.Y. (492) 85)

Cell cycle regulatory protein

Ferulic acid; Vascular smooth muscle cell; Proliferation; Mitogen-activated protein kinase; Angiotensin II (Hou, Y.-Z. (499) 85)

Cell death

ATP-P2X₇ receptor; Maitotoxin; Cytolytic pore; Ca²⁺ (Lundy, P.M. (487) 17)

PARG; PARP; Gallotannin; GPI 16552; Astrocyte (Falsig, J. (497) 7)

Cell line, stable

K_{ATP} channel; SUR2B; Urinary bladder; [¹²⁵I]-A-312110; K⁺ channel opener (Scott, V.E. (483) 195)

Cell migration

Vascular endothelium; Atypical cannabinoid receptor (Mo, F.M. (489) 21)

Cell proliferation

Catechin; Eggigallocatechin-3 gallate; VEGF (vascular endothelial growth factor); Endothelial cell (Neuhaus, T. (483) 223)

Opioid; Immune system; 4,5-Epoxy-morphinans; Structure–effect relationship (Hutchinson, M.R. (494) 251)

Cell shortening

Action potential; Estrogen receptor; Ca^{2+} current, L-type; Myocyte (Liew, R. (484) 141)

Cell size

U50,488H; Neonatal rat ventricular myocyte; Protein content; [^3H]Leucine; Adrenoceptor (Wang, G. (498) 53)

Central

Delta-9-THC; 5-HTP; 5-HT; Carbidopa; SR 141716A; Head-twitch; Ear-scratch; Peripheral; Cannabinoid CB_1 receptor (Darmani, N.A. (488) 201)

Central autonomic regulation

Tachykinin NK_3 receptor; Arterial hypertension; Catecholamine; Vasopressin (Lessard, A. (486) 75)

Central injection

Gastric acid secretion; Vanilloid VR_1 receptor; Tachykinin; CGRP (Calcitonin gene-related peptide); Glutamate; (Rat) (Minowa, S. (486) 317)

Central nervous system

Insulin; Blood–brain barrier; Transport; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

Central sensitisation

Fibromyalgia; GABA (gamma aminobutyric acid); Glutamate receptor antagonist; Muscle pain; Na^+ channel blockers (Nielsen, A.N. (487) 93)

Cerebral glucose metabolism

Diabetes mellitus; Hypoglycemia (McCall, A.L. (490) 147)

Cerebral infarct

Ebselen; Focal ischemia; Oxidative stress; (Rat) (Salom, J.B. (495) 55)

Cerebral ischemia

Dimaprit; Dopamine; Glutamate; Histamine; Striatum (Hamami, G. (484) 167)

GHB (γ -hydroxybutyrate); Immunohistochemistry; (Rat); Sensory-motor test; Spatial learning (Ottani, A. (485) 183)

Cerebral vasospasm

Subarachnoid haemorrhage; Phosphodiesterase inhibitor; Cilostazol; Endothelium (Birk, S. (489) 93)

Cerebrovascular alteration

Type 1 diabetes; Diabetic encephalopathy; Cognition; Insulin; Hypoglycaemia (Brands, A.M.A. (490) 159)

Cerivastatin

Mesangial cell, rat; Interleukin 1- β ; Statin; NO (nitric oxide); NO (nitric oxide) synthase, inducible; Cyclooxygenase-2 (Blume, C. (485) 1)

Cetiedil

RBL-2H3 cell; Mediator secretion; K^+ channel blocker; Charybdotoxin (Narenjkar, J. (483) 95)

RBL-2H3 cell; Mast cell; Mediator release; K^+ channels (Narenjkar, J. (483) 107)

C-fibre

Cytokine; Pain; Electrophysiology; Interleukin-6; Dorsal horn (Flatters, S.J.L. (484) 183)

c-fos

Immediate early gene; Striatum; Caudate; Acetylcholine; Dopamine D_1 receptor (Wirtshafter, D. (488) 85)

Lithium chloride; NO (Nitric oxide); Stress axis; Inducible cAMP early repressor (Jahng, J.W. (489) 111)

Nitrous oxide; Corticotropin releasing factor; Isoflurane; Propofol (Sawamura, S. (503) 49)

c-fos

Urotensin-II; UT receptor; GPR14 (Gartlon, J.E. (493) 95)

c-GMP

Nitric oxide; K_{ATP} ; PKG; Urinary bladder (Deka, D.K. (492) 13)

Serotonin; Transporter; PKG; Sildenafil; PDE5 (Zhu, C.-B. (504) 1)

cGMP (cyclic guanosine 3',5'-monophosphate)

NO (Nitric Oxide); Calcium; Aggregation; Platelet; SNAP (*S*-nitroso-*N*-acetyl-D,L-penicillamine); GEA 3175 (Asplund Persson, A.K. (496) 1)

CGP35348

GABA $_B$ receptor antagonist; Food intake; Baclofen; GABA $_B$ (Patel, S.M. (503) 89)

CGP7930

Arylalkylamine; Amino acid; Dipeptide; Allosteric modulation; GABA $_B$ receptor (Urwiler, S. (483) 147)

Positive allosteric modulation of GABA $_B$ receptor; Baclofen; γ -Hydroxybutyric acid (GHB); SCH 50911; DBA, mouse (Carai, M.A.M. (504) 213)

CGRP

NMDA; Inflammation; Joint; Nitric oxide; CAM kinase (Lawand, N.B. (499) 155)

Antimigraine drug; BIBN4096BS; Migraine (Arulmani, U. (500) 315)

CGRP (calcitonin gene-related peptide)

Atrial function; Calcitonin; ANP (Atrial natriuretic peptide); Amylin (Piao, F.L. (483) 295)

Gastric acid secretion; Vanilloid VR_1 receptor; Tachykinin; Glutamate; Central injection; (Rat) (Minowa, S. (486) 317)

Angiotensin II; Smooth muscle cell, rat Vascular; Proliferation (Qin, X.-P. (488) 45)

Channel block

Glycine receptor channel; Pentobarbital; Patch-clamp; Ultra-fast application (Mohammadi, B. (489) 151)

GABA $_A$ receptor; Benzodiazepine; Barbiturate; Inhibition; γ -aminobutyric acid; Spontaneous activity; Tonic current (Lindquist, C.E.L. (496) 23)

Vanilloid receptor; Methocramine; Dorsal root ganglion; Patch-clamp; Polyamine (Mellor, I.R. (505) 37)

Channel pore mutant

P2X $_2$ receptor; Desensitization; ATP responsiveness (Nakazawa, K. (495) 27)

Charybdotoxin

RBL-2H3 cell; Mediator secretion; K^+ channel blocker; Cetiedil (Narenjkar, J. (483) 95)

Gabapentin; K⁺ channel; Pinacidil; Apamin; Glibenclamide (Mixcoatl-Zecuatl, T. (484) 201)

Chelerythrine

Hypertension; Aorta; Mesenteric vascular bed; Calphostin C (Fatehi-Hassanabad, Z. (494) 199)

Chemical synthesis

Binding activity; CD (Circular dichroism); Helical structure; Relaxant activity; VIP (vasoactive intestinal peptide) derivative (Onoue, S. (485) 307)

Chemotactic migration

Andrographolide; MAPK; ERK1/2; Akt (Tsai, H.-R. (498) 45)

Chlorambucil

Collagen biosynthesis; Prolidase; β_1 -integrins; IGF-I receptor; MCF-7 (Sienkiewicz, P. (492) 95)

Chlormethiazole

Methamphetamine; Drug-discrimination; (Rat) (Gasior, M. (494) 183)

Chloroethylclonidine

α_1 -Adrenoceptor subtype; α_1 -Adrenoceptor antagonist; B8805-033; Noradrenaline; Tail artery, rat (Jähnichen, S. (488) 157)

Chlorogenic acid

Sleep latency; Caffeic acid; Dihydrocaffeic acid; Caffeine; Arousal effect (Shinomiya, K. (504) 185)

Chloroquine

Malaria; Pruritus; Kappa opioid receptors (Inan, S. (502) 233)

CHO cell

Urotensin-II; Urapidine; UT receptor; Ca²⁺; Aorta, rat (Camarda, V. (498) 83)

Chocolate

Polyphenol; Wine; Tea; Vascular protection (Stoclet, J.-C. (500) 299)

Cholecystokinin

Nociceptin/orphanin FQ; Spinal cord; Neuropathic; Electrophysiology; (Rat) (Maie, I.A. (484) 235)

Cholecystokinin CCK₁ receptor

Rebamipide; [Ca²⁺]_i oscillation; Amylase (Moon, S.J. (505) 61)

Cholestasis

Cannabinoid system; Anandamide; Nitric oxide (NO); Opioid system; Mesenteric vessel; (Rat) (Moezi, L. (486) 53)

Corpus cavernosum relaxation; Acetylcholine; Indomethacin; Nitric oxide; (Rat) (Dehghani, M. (496) 181)

Cholinergic

(–)-Linalool; Antinociception; Opioid; Dopamine; K⁺ channel; ATP-sensitive channel (Peana, A.T. (485) 165)

Intravital microscopy; Migraine (Kowacs, F. (493) 133)

Cholinergic agonist

Receptor subtype; Vascular relaxation; SIN-1; ATP (Khurana, S. (493) 127)

Cholinesterase inhibitor

Alzheimer's disease; Acetylcholinesterase; Butyrylcholinesterase (Liston, D.R. (486) 9)

Chromaffin cell

Ecto-ATPase; ARL 67156; Inositol phosphate; P2Y receptor (Drakulich, D.A. (485) 137)

Chronic airway inflammation

TNF- α ; Bradykinin B₁ and B₂ receptors; Airway hyperresponsiveness; MAPK pathway (Zhang, Y. (489) 117)

Chronic constriction injury model

Adenosine A₁ receptor; Neuropathic pain; Pharmacokinetic–pharmacodynamic modelling; Sparse data analysis; Anti-hyperalgesic effect; Anti-nociceptive effect (Schaddelee, M.P. (504) 7)

Chronic obesity

Spontaneous feeding; Diet-induced obese, rat; Locomotor activity (Kowalski, T.J. (497) 41)

Chronic pain

Analgesics; Animal model; Nociception; (Rat) (De Vry, J. (491) 137)

Chronic renal failure

Endothelin-1; ET_B receptor; Renal mass reduction; Hypertension (Okada, Y. (494) 63)

Chronic treatment and tolerance development

Cannabinoid CB₁ receptor antagonist; SR 141716 (Rimonabant); Intestinal motility; Mouse (Carai, M.A.M. (494) 221)

Chronotherapy

22-Oxalacitriol; Osteoporosis; Hypercalcemia (Tsuruoka, S. (488) 239)

Chronotropic

Cardiac output; Flavonoid; Haemodynamics; N^ω-nitro-L-arginine; Nitric oxide; Regional blood flow (Wang, S. (491) 43)

Chymase

Adhesion; Chymase inhibitor; Surgery (Okamoto, Y. (484) 357)

Angiotensin II; Inhibitor; Transforming growth factor- β (Takai, S. (501) 1)

Chymase inhibitor

Adhesion; Chymase; Surgery (Okamoto, Y. (484) 357)

Fibrosis; Lung; Transforming growth factor- β (Sakaguchi, M. (493) 173)

Cigarette smoke

Lung, mouse; Inflammation (Castro, P. (498) 279)

Cilostazol

Subarachnoid haemorrhage; Cerebral vasospasm; Phosphodiesterase inhibitor; Endothelium (Birk, S. (489) 93)

Cimetidine

Organic anion transporter; Organic cation transporter; Famotidine; Renal tubular secretion (Motohashi, H. (503) 25)

Circadian rhythm

Cocaine; Conditioned place preference; (mouse); Pinealectomy (Kurtuncu, M. (489) 203)

Cisapride

Z-338; Terfenadine; hERG; CYP inhibition (Furuta, S. (497) 223)

Cisplatin

Emesis; Dexamethasone; Indomethacin; (Pigeon) (Tanihata, S. (484) 311)

Citalopram

Imipramine; Desipramine; Moclobemide; 5-HT_{1A}/5-HT_{1B} receptor antagonist; Forced swimming test in rats (Tatarczyńska, E. (487) 133)

Flinders sensitive line rat model; Depression; CRF₁ receptor antagonist; Desipramine, forced swim test; Social interaction test (Overstreet, D.H. (492) 195)

c-Jun

HMA (5-(*N,N*-hexamethylene)-amiloride); Apoptosis; JNK; p53; p21^{WAF1/CIP1} (Suzuki, T. (503) 1)

c-Jun N-terminal kinase

Aortic smooth muscle cell; Quercetin; Mitogen-activated protein kinase; Extracellular signal-regulated kinase (Shih, C.-M. (496) 41)

Cl⁻ channel

Nitrosourea; Glutathione; Oxidative stress; Ca²⁺ channel; Intracellular Ca²⁺ (Doroshenko, N. (497) 17)

Cl⁻ channel blocker

Leukemia; Proliferation; Cell cycle; CIC-2 (Jiang, B. (488) 27)

Cl⁻ current

Intermediate-conductance Ca²⁺-activated K⁺ channel; NPPB; HL-60 cell; GL-15 cell; Patch clamp recording (Fioretti, B. (497) 1)

Cl⁻ secretion

Quercetin; Flavonoid; K⁺ conductance; Colon (Cermak, R. (503) 31)

(-)-Clausenamide

Natural product; Huperzine A; *s*-(*-*)-3-*n*-butylphthalide; *Ginkgo biloba* extract (Zhu, X.Z. (500) 221)

CIC-2

Leukemia; Proliferation; Cl⁻ channel blocker; Cell cycle (Jiang, B. (488) 27)

CIC-5 Cl⁻ channel

Proteinuria; Hypertension; Angiotensin-converting enzyme; Perindopril (Tanaka, K. (501) 185)

Clerodane diterpene

Casearia membranacea; Caseamembrin; Bcl-2 family member protein; Caspase (Huang, D.-M. (503) 17)

Cloned receptor

β₃-Adrenoceptor; Stereoselectivity; Ileum, mouse (Popp, B.D. (484) 323)

Clonidine

Locomotor activity; Analgesia; Sedation; Amitriptyline; α_{2A}-Adrenoceptor; (Mouse) (Özdoğan, Ü.K. (485) 193)

Guanfacine; Benazoline; Visceral pain; Formalin; Imidazoline receptor (Sabetkasaie, M. (501) 95)

Cloning

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1E} receptor; Phylogenetic analysis; (Guinea pig) (Bai, F. (484) 127)

5-HT_{5A} Receptor; Guinea pig; Transient expression (Thomas, D.R. (494) 91)

Clopidogrel

Aspirin; Ticlopidine; Platelet; Nitric oxide (NO); Platelet–subendothelium interaction. (De La Cruz, J.P. (484) 19)

Clozapine

Dopamine D1 receptor; G_s protein; Scintillation proximity assay; Haloperidol (Cussac, D. (485) 111)

Attention; Haloperidol; Risperidone; Cognition; Signal detection task (Rezvani, A.H. (486) 175)

Quinpirole; Vesicle; NGB2904; Eticlopride; Traffick (Truong, J.G. (504) 27)

CNS complication

Type 1 and type 2 diabetes; Insulin; C-peptide; Hyperglycemia (Sima, A.A.F. (490) 187)

Coaxial bioassay

Urinary bladder; Relaxation; (Rat) (Bozkurt, T.E. (495) 193)

Cocaine

Satiety threshold; Pharmacokinetics; Pharmacodynamics; WIN 35,428 (Norman, A.B. (483) 281)

Pharmacokinetics; Occupancy; Reinforcement; Self-administration; Rhesus monkey (Woolverton, W.L. (486) 251)

Conditioned place preference; (mouse); Circadian rhythm; Pinealectomy (Kurtuncu, M. (489) 203)

Convulsion; Lethality; σ Receptor; Toxicity (Matsumoto, R.R. (492) 21)

Aortic ring; Relaxation; Phosphatase; Ca²⁺ entry; Aortic dissection (Li, W. (496) 151)

Reinstatement; Relapse; External stimulus (Shelton, K.L. (497) 35)

Self-administration; Nicotine; Food; Metabotropic glutamate receptors; MPEP (Tessari, M. (499) 121)

Locomotor activity; Dopamine receptor; Serotonin receptor (Hanania, T. (502) 221)

Ondansetron; Self-administration; Withdrawal (Davidson, C. (503) 99)

Cocaine sensitization

Locomotor hyperactivity; Immunity; Cytokine; Splenocyte proliferation; Interferon-γ (Kubera, M. (483) 309)

Cochlear protection

Edaravone; Reactive oxygen species; Noise trauma (Takemoto, T. (487) 113)

Cognition

Attention; Haloperidol; Clozapine; Risperidone; Signal detection task (Rezvani, A.H. (486) 175)

Insulin; Brain; Learning; Dementia; Diabetes mellitus; Insulin signalling; Glucose metabolism (Biessels, G.J. (490) 1)

GLUT; Glucose; Insulin; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Insulin-like growth factor-I; Growth hormone; Aging (Sytze van Dam, P. (490) 87)

Type 1 diabetes; Diabetic encephalopathy; Insulin; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

Diabetes; Alzheimer's disease; Dementia (Allen, K.V. (490) 169)

Cognitive ageing

Alzheimer's disease; Cognitive impairment, vascular; Cognitive impairmentmild (Lindeboom, J. (490) 83)

Cognitive impairment

Nerve agent; Prophylactic; Physostigmine; Scopolamine; Procyclidine; (Rat) (Myhrer, T. (483) 271)

Cognitive impairment, mild

Cognitive ageing; Alzheimer's disease; Cognitive impairment, vascular; (Lindeboom, J. (490) 83)

Cognitive impairment, vascular

Cognitive ageing; Alzheimer's disease; Cognitive impairment, mild (Lindeboom, J. (490) 83)

Colitis

Neutrophil; CC chemokine; Inflammation; TNBS (Ajuebor, M.N. (497) 343)

Collagen biosynthesis

Chlorambucil; Prolidase; β_1 -integrins; IGF-I receptor; MCF-7 (Sienkiewicz, P. (492) 95)

Colon

Quercetin; Flavonoid; K^+ conductance; Cl^- secretion (Cermak, R. (503) 31)

Colorectal distension

Visceral pain; Anti-nociception; 5-HT_{1A} receptor; Buspirone (Sivarao, D.V. (494) 23)

Combination therapy

Y-40138; Methotrexate; Adjuvant-induced arthritis; Joint destruction (Hisadome, M. (497) 351)

Comparative pharmacology

Vasopressin receptor; Tissue, bovine (Andrés, M. (501) 59)

Complete Freund's adjuvant

G-protein; Inflammation; Arthritis (Cichewicz, D.L. (504) 33)

Compound 48/80

Gastric mucosal lesionrat; Teprenone; Gastric mucus; Neutrophil infiltration; Oxidative stress (Ohta, Y. (487) 223)

Adenosine; Airway hyperresponsiveness; Allergen challenge; Ovalbumin; Rat, Brown Norway; Lung parenchymal strip (Wolber, C. (498) 227)

Conditioned fear

Selective serotonin reuptake inhibitor; Amygdala; Serotonin; Microinjection; Anxiety (Inoue, T. (497) 311)

Conditioned fear stress

σ_1 Receptor; Neuro(active)steroid; β -Amyloid-(1–40) protein; Alzheimer's disease; Depression; (Rat) (Urani, A. (486) 151)

Fluvoxamine; Milnacipran; Risperidone; Anxiety; (Mouse) (Miyamoto, J. (504) 97)

Conditioned place aversion

Morphine dependence; Morphine withdrawal; Glutamate transporter; DL-threo- β -benzyloxyaspartate; Conditioned place preference (Sekiya, Y. (485) 201)

Conditioned place preference

Morphine dependence; Morphine withdrawal; Glutamate transporter; DL-threo- β -benzyloxyaspartate; Conditioned place aversion (Sekiya, Y. (485) 201)

Morphine; Calmodulin; Trifluoperazine (Ye, X.-F. (486) 265)

Cocaine; (mouse); Circadian rhythm; Pinealectomy (Kurtuncu, M. (489) 203)

Nitric oxide; Nicotine; (Mouse); L-arginine; L-NAME (Sahraei, H. (503) 81)

Conditioned taste aversion

Appetite; Cannabinoid CB₁ receptor; Ingestive behavior; Intracranial self-stimulation; Locomotor activity; Operant behavior; (Rat) (De Vry, J. (483) 55)

Conductance

Myocarditis; β -Adrenoceptor; Pressure–volume loops (Tschöpe, C. (491) 173)

Conformational energy

Ibotenic acid; Thioibotenic acid; Glutamate receptor; mGlu receptor; Group III agonist; Docking; Homology model (Hermit, M.B. (486) 241)

Connexin

Gap junction; Cardiomyocyte, rat; TNF α ; MAP-kinase (Salameh, A. (503) 9)

Constant-pressure perfusion

Mesenteric vascular bed; (Rat); Endothelium; NO (nitric oxide); K^+ channel, Ca^{2+} -dependent (Fujioka, H. (485) 219)

Constitutive activity

SB-2587 19; SB-259741; SB-269970; 5-HT₇ receptor; Inverse agonism (Mahé, C. (495) 97)

Inverse agonist; Receptor theory; Serotonin receptor; Up-regulation (Devlin, M.G. (498) 59)

Adenosine A₁ receptor; G protein; Fusion protein; Allosteric modulation; Inverse agonism (Klaasse, E. (499) 91)

Contextual fear conditioning

MS-153; Glutamate uptake and release; NMDA receptor antagonist; Fear and anxiety (Li, X. (505) 145)

Contractility

NO (Nitric oxide); Lipopolysaccharide; Excitation–contraction coupling; Neuromuscular junction; Skeletal muscle (Sara, Y. (505) 177)

Contractility spontaneous

U46619; Prostanoid TP receptor; Uterus, pig; Thromboxane A₂; (Cao, J. (485) 317)

Contraction

Hydroxyl radical; Aortic ring; Vascular smooth muscle; Signal transduction pathway (Li, J. (499) 171)

Contralateral treatment

Neuropathic pain; κ -Opioid receptor agonist; U-50,488H; Opioid receptor; (Rat) (Bileviciute-Ljungar, I. (494) 139)

Convulsion

Cocaine; Lethality; σ Receptor; Toxicity (Matsumoto, R.R. (492) 21)

COPD

Airway remodelling; Asthma; Acetylcholine; Airway smooth muscle; Anticholinergic (Gosens, R. (500) 193)

SCMC-Lys (Carbocysteine lysine salt monohydrate); Breath condensate; 8-isoprostane; Interleukin-6 (Carpagnano, G.E. (505) 169)

Copper-mediated oxidation

Antioxidant; 2-Biphenylmorpholine compound; Low-density lipoprotein; Atherosclerosis; (Rabbit) (Tavridou, A. (505) 213)

Coronary artery

Desensitization; CGRP (calcitonin gene-related peptide) (Sheykhzade, M. (484) 91)

Cardiovascular disease; Endothelin; Gene expression; Endothelin receptor; Vasoconstriction (Wackenfors, A. (484) 103)

Cardiovascular disease; Angiotensin II; Gene expression; Receptor; Vasoconstriction (Wackenfors, A. (503) 147)

Coronary artery, porcine

Genistein; Receptor-mediated contraction; Cyclic nucleotides (Lee, M.Y. (503) 165)

Coronary pressure

Amiodarone; Dronedarone; L-NOARG; Nitric oxide; (Guinea pig) (Guiraudou, P. (496) 119)

Corpus cavernosum relaxation

Cholestasis; Acetylcholine; Indomethacin; Nitric oxide; (Rat) (Dehghani, M. (496) 181)

Cortex

Tachykinin NK₁ receptor antagonist; GR205171; Immobilisation stress; Dopamine metabolism; Tachykinin NK₁ receptor occupancy; [¹²⁵I]Tyrosine–substance P ex vivo binding (Hutson, P.H. (484) 57)

Zinc; BDNF; Hippocampus (Nowak, G. (492) 57)

Cortical neuron

Wogonin; Neuroprotection; Antioxidant; Excitotoxicity; Oxidative damage (Cho, J. (485) 105)

Cortical wedge preparation

Quisqualic acid; Quisqualate-effect; Quisqualate-priming; CaCl₂-dependent [³H]glutamate uptake; 2-Amino-4-phosphonobutyric acid (Vestergaard, H.T. (488) 101)

Corticosteroid

Ecto-apyrase; Endothelium; Mesangium; Hemopexin; Nephrotic syndrome (Kapojs, J.J. (501) 191)

Corticosterone

Stress; Acetylcholine; Benzodiazepine; Buspirone; Hippocampus; Microdialysis (Degroot, A. (493) 103)

Corticotropin releasing factor

Nitrous oxide; Isoflurane; Propofol; c-Fos (Sawamura, S. (503) 49)

Corticotropin-releasing factor (CRF)

Depression; Tail suspension test; Forced swim test; R 121919; DMP 696; DMP 904; Antalarmin; (Mouse) (Nielsen, D.M. (499) 135)

Co-transmission

Sympathetic neurotransmission; ATP and purinergic mechanism; Noradrenaline and vasoconstriction; Neuropeptide Y modulation; Human vascular neuroeffector junction (Pablo Huidobro-Toro, J. (500) 27)

Cough

Tachykinin NK₁ receptor; CP-99994; (Dog) (Chapman, R.W. (485) 329)

Allergic, dog; Histamine (House, A. (492) 251)

Cough reflex

Cyclooxygenase inhibitor; Antitussive effect; NS-398; SC-560 (Kamei, J. (497) 233)

Coumestan

Benzodiazepine; GABA; Flavonoid; Flunitrazepam (Lopes, D.V.S. (495) 87)

COX (Cyclo-oxygenase)

NSAID; COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

COX-2 inhibitor

NSAID; COX (Cyclo-oxygenase); Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

Coxib

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

CP-101,606

Postoperative pain; NMDA receptor; (Knockout (mouse)) (Nishimura, W. (503) 71)

CP-99994

Cough; Tachykinin NK₁ receptor; (Dog) (Chapman, R.W. (485) 329)

C-peptide

CNS complication; Type 1 and type 2 diabetes; Insulin; Hyperglycemia (Sima, A.A.F. (490) 187)

CREB

KR-31378; PTEN phosphorylation; Maxi-K channel; Akt; Apoptosis (Kim, K.Y. (497) 267)

CRF (corticotropin-releasing factor)

CRF₁ receptor; Anxiety; Depression; Stress-related behavior; R278995/CRA0450 (Chaki, S. (485) 145)

CRF₁ receptor

CRF (corticotropin-releasing factor); Anxiety; Depression; Stress-related behavior; R278995/CRA0450 (Chaki, S. (485) 145)

CRF₁ receptor antagonist

Flinders sensitive line rat model; Depression; Citalopram; Desipramine, forced swim test; Social interaction test (Overstreet, D.H. (492) 195)

CRF₁ receptor antagonist SSR125543

Flinders Sensitive Line rat model; Depression; Fluoxetine; Desipramine; Social interaction test (Overstreet, D.H. (497) 49)

Cromakalim

ATP-sensitive potassium channel; Basilar artery; Diabetes; Insulin; Relaxation (Matsumoto, T. (504) 129)

Cross-desensitization

μ -Opioid receptor; CCR5 chemokine receptor; Heterodimer (Chen, C. (483) 175)

Cross-sensitization

THC; Psychostimulants; Locomotion; Microdialysis; (Rat) (Ellgren, M. (497) 205)

Cross-tolerance

1,4-Butanediol; ($\pm$)-Baclofen; γ -GHB (γ -hydroxybutyrate); GABA_B receptor (Eckermann, K.A. (484) 259)

Opioid; Metamizol; Antinociception; Potentiation; Tolerance (Hernández-Delgadillo, G.P. (502) 67)

CTGF (connective tissue growth factor)

Ribozyme; TGF- β 1 (targeting transforming growth factor- β 1); Smooth muscle cell, vascular (Ando, H. (483) 207)

Cu/Zn superoxide dismutase

Polyethylene-glycol-superoxide dismutase; Diethyldithiocarbamate; 6-Anilino-5,8-quinolinedione; Nitrgic relaxation; Gastric fundus; (Pig) (De Backer, O. (486) 223)

CuCl₂

Gastric fundus, mouse; Photorelaxation; Nitric oxide (NO); *S*-nitrosoglutathione; Neocuproine; Cuprizone (Ögülcener, N. (485) 269)

Cuprizone

Gastric fundus, mouse; Photorelaxation; Nitric oxide (NO); *S*-nitrosoglutathione; CuCl₂; Neocuproine (Ögülcener, N. (485) 269)

Curative analgesia

Serotonin; Neuropathic pain; F 13640 (Colpaert, F.C. (497) 29)

Cyclic ADP-ribose

NAD⁺; Liver perfusion; Hemodynamics; Metabolism (Broetto-Biazon, A.C. (484) 291)

Cyclic AMP

Midazolam; Platelet aggregation; Phospholipase C; Na⁺/H⁺ exchanger; Thrombosis (Hsiao, G. (487) 159)

Cyclic GMP

PC12h cell; Neurite outgrowth; Genipin; Nerve growth factor; Mitogen-activated protein kinase (Yamazaki, M. (488) 35)

Cyclic nucleotides

Genistein; Receptor-mediated contraction; Coronary artery, porcine (Lee, M.Y. (503) 165)

Cyclooxygenase

Inflammatory pain; Ketorolac; Tramadol; Synergism (López-Muñoz, F.J. (484) 157)

Rofecoxib; Nitric oxide (NO) (Déciga-Campos, M. (484) 193)

Bradykinin; Phospholipase A₂; Phospholipase C; Vanilloid receptor 1 (Tang, H.-B. (498) 37)

NSAID; Prostaglandin E₂; TNF α ; Glucocorticoid; Monocyte (Ulcar, R. (501) 9)

Human pulmonary arteries; Arachidonic acid; Cytochrome P450; NO (Nitric oxide); K⁺ channels (Guerard, P. (501) 127)

PPAR- γ ; Rosiglitazone; Ischemia–reperfusion; Reactive oxygen specie; Neutrophil (Villegas, I. (505) 195)

Cyclooxygenase inhibitor

Cough reflex; Antitussive effect; NS-398; SC-560 (Kamei, J. (497) 233)

Cyclooxygenase-2

PPAR (peroxisome proliferator-activated receptor); Rosiglitazone; Inflammation, acute; iNOS (nitric oxide synthase inducible); ICAM-1 (intercellular adhesion molecule-1) (Cuzzocrea, S. (483) 79)

Celecoxib; Superoxide anion; Respiratory burst; Neutrophil; Protein kinase C (PKC); Ca²⁺ intracellular; Genistein (Chang-Hui, L. (484) 29)

Methylguanidine; Carrageenan-induced inflammation; TNF- α (tumor necrosis factor- α); Reactive oxygen specie; iNOS (nitric oxide (NO) synthase, inducible) (Marzocco, S. (484) 341)

Mesangial cell, rat; Interleukin 1- β ; Statin; Cerivastatin; NO (nitric oxide); NO (nitric oxide) synthase, inducible (Blume, C. (485) 1)

Pancreatitis; HGF (hepatocyte growth factor); Interleukin-1 β ; Interleukin-10 (Warzecha, Z. (486) 107)

Oxygen-glucose deprivation; NMDA; Ca²⁺; Primary cortical culture; Excitotoxicity (Gendron, T.F. (493) 45)

Celecoxib; Prostaglandin E₂; Diabetic retinopathy; VEGF (Ayalasomayajula, S.P. (498) 275)

Cyclooxygenase-2 inhibitor

Prostaglandin E₂; Zymosan-injected (mouse) air pouch; Angiogenesis; Carrageenan-induced paw oedema (Devesa, I. (488) 225)

Cyclooxygenase isoform

Nonsteroidal anti-inflammatory drug; Parecoxib; Ketorolac; Hyperalgesia (Padi, S.S.V. (491) 69)

Cyclooxygenase-lipoxygenase inhibitor

Licofelone; Platelet aggregation, human; Thromboxane A₂ (Rotondo, S. (488) 79)

Cyclopiazonic acid

Portal vein, rat; Spontaneous contraction; Store-operated Ca²⁺ entry; Ryanodine; Protein kinase C (Burt, R.P. (496) 109)

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Cyclosporine A

Necrosis; Apoptosis; Permeability transition pore; Preservation solution; Rat, liver (Plin, C. (495) 111)

mdrla; (Knockout mouse); Brain ischemia; NeuN (Murozono, M. (498) 115)

Cyclosporine

Perfused kidney; Endothelium-derived relaxing factor; Acetylcholine; Isoprenaline (El-Mas, M.M. (487) 149)

Cytochrome P450; Prolactin; Bromocriptine; Drug metabolism (Lu, S.K. (501) 215)

Neurotoxicity; NO (nitric oxide); Blood–brain barrier; Permeability; P-glycoprotein (Dohgu, S. (505) 51)

Cynaropicrin

Sesquiterpene lactone; Cytotoxicity; Apoptosis; Cell cycle arrest; PKC δ (Cho, J.Y. (492) 85)

CYP inhibition

Z-338; Terfenadine; Cisapride; hERG (Furuta, S. (497) 223)

CYP2C11

Endotoxin; CYP3A2; Pioglitazone; PPAR- γ ; Antipyrine clearance; (Rat) (Ueyama, J. (498) 257)

CYP3A2

Endotoxin; CYP2C11; Pioglitazone; PPAR- γ ; Antipyrine clearance; (Rat) (Ueyama, J. (498) 257)

Cysteine

Prostacyclin; Prostanoid IP receptor; G-protein-coupled receptor; Dimerization; Oligomerization (Giguère, V. (494) 11)

Enkephalin; δ -Opioid receptor; Affinity; Efficacy (Pencheva, N. (498) 249)

Cysteinyl leukotriene

Disodium cromoglycate; Late asthmatic response; Thromboxane A₂; Eosinophil; (Guinea pig) (Nabe, T. (497) 97)

Cysteinyl-leukotriene

Leukotriene receptor antagonist; Leukotriene CysLT₁ receptor; Asthma; Airway inflammation (Ferrari, F. (504) 223)

Cytochrome c

Apoptosis; Ca²⁺; Caspase-3; Hypoxia/re-oxygenation; Na⁺/H⁺ exchanger (Sun, H.-Y. (486) 121)

Cytochrome CYP 3A4

P-glycoprotein; MRP (Multidrug resistance-related protein); LRP (Lung resistance-related protein); LLC-PK₁ renal cell line; Rifampicin (Magnarin, M. (483) 19)

Cytochrome P450

Californine; Protopine; Metabolism; Liver microsome, rat (Paul, L.D. (485) 69)

Human pulmonary arteries; Arachidonic acid; Cyclooxygenase; NO (Nitric oxide); K⁺ channels (Guerard, P. (501) 127)

Cyclosporine; Prolactin; Bromocriptine; Drug metabolism (Lu, S.K. (501) 215)

Cytokine

Cocaine sensitization; Locomotor hyperactivity; Immunity; Splenocyte proliferation; Interferon- γ (Kubera, M. (483) 309)

C-fibre; Pain; Electrophysiology; Interleukin-6; Dorsal horn (Flatters, S.J.L. (484) 183)

Titanocene; Ehrlich ascites (Valadares, M.C. (503) 203)

Cytokine gene

Cancer gene therapy; Anti-oncogene; Suicide gene; p53 gene; DNA vaccine (El-Aneel, A. (498) 1)

Cytokine stimulation

Airway smooth muscle; Microarray; Growth factor; Airway remodelling (Jaraí, G. (497) 255)

Cytokines

Sickness behaviour; Inflammation; Brain; Afferent nerve; Pain; Sleep; Learning and memory (Dantzer, R. (500) 399)

Cytolytic pore

ATP-P2X₇ receptor; Maitotoxin; Cell death; Ca²⁺ (Lundy, P.M. (487) 17)

Cytotoxic effect

Pyrazole ligand; Palladium (II) complex; Platinum (II) complex; Alkylating activity; Apoptosis (Budzisz, E. (502) 59)

Cytotoxicity

Dehydrocrotonin; Tumour; Natural killer cell; Anti-tumour (Melo, P.S. (487) 47)

(1R,9S)- β -Hydrastine; L-DOPA (L-3,4-dihydroxyphenylalanine); PC12 cell; Apoptosis (Yin, S.Y. (488) 71)

Cynaropicrin; Sesquiterpene lactone; Apoptosis; Cell cycle arrest; PKC δ (Cho, J.Y. (492) 85)

D₄ receptor

Dopamine; Spiperone; A-369508 (Moreland, R.B. (497) 147)

4-DAMP

Prepulse inhibition; Scopolamine; AF-DX116; Tropicamide; Pirenzepine; Muscarinic receptor; (Mouse) (Ukai, M. (492) 183)

DAT (dopamine transporter)

D-Amphetamine; Behavioral sensitization; GFAP (glial fibrillary acidic protein); GLT-1 (glutamate transporter-1) (Armstrong, V. (488) 111)

DBA, mouse

γ -Hydroxybutyric acid-induced mortality; GABA_B receptor antagonist; SCH 50911 (Carai, M.A. (503) 77)

DBA/2, mouse

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure (Gareri, P. (484) 49)

db/db, mouse

FK614; Nonthiazolidinedione; Insulin sensitizer; *ob/ob*, mouse; Peroxisome proliferator-activated receptor (PPAR) γ (Minoura, H. (494) 273)

db-cGMP

Diazoxide; K⁺ channel opener; Sodium nitroprusside; Antinociception (Alves, D.P. (489) 59)

DCPIB

Volume-sensitive anion channel; K_{ATP} channel; Islet; Pancreatic β -cell; Insulin release (Best, L. (489) 13)

Deglycosylation

Fas receptor aggregate; Fas protein; Opiate drug; Morphine addiction; Brain, rat (García-Fuster, M.J. (496) 63)

Dehydrocrotonin

Tumour; Cytotoxicity; Natural killer cell; Anti-tumour (Melo, P.S. (487) 47)

Dehydroepiandrosterone

Dehydroepiandrosterone sulphate; Angiogenesis; Endothelial cell; Tubulin; Glucose-6-phosphate dehydrogenase (Varet, J. (502) 21)

Dehydroepiandrosterone sulphate

Dehydroepiandrosterone; Angiogenesis; Endothelial cell; Tubulin; Glucose-6-phosphate dehydrogenase (Varet, J. (502) 21)

Delayed preconditioning

Arrhythmias; Celecoxib (Nagy, O. (499) 197)

Delta opioid receptor

Mu opioid receptor; Kappa opioid receptor; Inverse agonist (Emmerson, P.J. (494) 121)

Delta-9-THC

5-HTP; 5-HT; Carbidopa; SR 141716A; Head-twitch; Ear-scratch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

Deltorphin II

Extracellular dopamine; Opioid receptor; Tetrodotoxin; Nucleus accumbens (Murakawa, K. (491) 31)

Dementia

Insulin; Brain; Learning; Cognition; Diabetes mellitus; Insulin signalling; Glucose metabolism (Biessels, G.J. (490) 1)

Diabetes; Alzheimer's disease; Cognition (Allen, K.V. (490) 169)

***Dendroaspis angusticeps* toxins**

Muscarinic M₁ receptor; [³⁵S]GTPγS binding; Phosphoinositide hydrolysis; [³H]Acetylcholine binding; [³H]N-Methyl-scopolamine binding (Olianas, M.C. (487) 65)

Dictyostelium

DIF-1 (differentiation-inducing factor-1); K562; ERK (extracellular signal-regulated kinase); Akt (Akaishi, E. (485) 21)

5'-Deoxyfluorouridine

Thymidine phosphorylase; Trifluorothymidine; Thymidine phosphorylase inhibitor (De Bruin, M. (491) 93)

Deoxyglucose uptake

PTP-1B (protein tyrosine phosphatase-1B); 1,2-Naphthoquinone; Glycogen incorporation; ob/ob mouse (Cheon, H.G. (485) 333)

Dependence

Miltirone; GABA_A receptor; Ethanol withdrawal (Mostallino, M.C. (494) 83)

NMDA receptor antagonist; Neramexane; Ethanol; Reinforcement (Kotlinska, J. (503) 95)

Agmatine; Morphine; Withdrawal; cAMP; Tyrosine hydroxylase (Aricio-glu, F. (504) 191)

Depolarization

Vagus; Prostanoid; Prostaglandin; DP receptor; 5-HT₃ receptor; Neurone; Nervous; (Ferret) (Kan, K.K.W. (491) 37)

Depression

CRF (corticotropin-releasing factor); CRF₁ receptor; Anxiety; Stress-related behavior; R278995/CRA0450 (Chaki, S. (485) 145)

σ₁ Receptor; Neuro(active)steroid; β-Amyloid-(1–40) protein; Alzheimer's disease; Conditioned fear stress; (Rat) (Urani, A. (486) 151)

Antidepressant; Forced swimming test; Imipramine (D'Aquila, P.S. (492) 61)

Flinders sensitive line rat model; CRF₁ receptor antagonist; Citalopram; Desipramine, forced swim test; Social interaction test (Overstreet, D.H. (492) 195)

Flinders Sensitive Line rat model; CRF₁ receptor antagonist SSR125543; Fluoxetine; Desipramine; Social interaction test (Overstreet, D.H. (497) 49)

Corticotropin-releasing factor (CRF); Tail suspension test; Forced swim test; R 121919; DMP 696; DMP 904; Antalarmin; (mouse) (Nielsen, D.M. (499) 135)

Antidepressant; Monoamine; Neurogenesis; SSRI; Tricyclic; Dopamine (Millan, M.J. (500) 371)

Glucocorticoid receptor; Serotonin; Antisense oligonucleotide (Islam, A. (502) 213)

Dermatitis

Animal model; Substance P; Scratching behaviour; NC/Nga mouse (Ohmura, T. (491) 191)

Dermorphin

μ-Opioid receptor; Tetrapeptide; Naloxonazine; Antinociception; Mouse (Mizoguchi, H. (486) 19)

Des-acyl ghrelin

Ghrelin; Growth hormone secretagogue receptor; Rat adipocyte; Isoproterenol-induced lipolysis (Muccioli, G. (498) 27)

Des-Arg⁹-bradykinin

Lipopolysaccharide; Rat, spontaneously hypertensive; Aorta; K⁺ channel (Farias, N.C. (498) 163)

Desensitization

CGRP (calcitonin gene-related peptide); Coronary artery (Sheykhzade, M. (484) 91)

P2X₂ receptor; Channel pore mutant; ATP responsiveness (Nakazawa, K. (495) 27)

Desipramine

α₂-Adrenoceptor antagonist; DOPAC; HPLC; Microdialysis; (Rat) (Devoto, P. (487) 105)

Citalopram; Imipramine; Moclobemide; 5-HT_{1A}/5-HT_{1B} receptor antagonist; Forced swimming test in rats (Tatarczyńska, E. (487) 133)

Desipramine, Forced swim test

Flinders Sensitive Line rat model; Depression; CRF₁ receptor antagonist SSR125543; Fluoxetine; Social interaction test (Overstreet, D.H. (497) 49)

Desipramine, forced swim test

Flinders sensitive line rat model; Depression; CRF₁ receptor antagonist; Citalopram; Social interaction test (Overstreet, D.H. (492) 195)

Desmethylicaritin

Icariin; Icaritin; Phytoestrogen; Estrogenic activity; Cell cycle analysis; S phase; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)

Detrusor overactivity

Bladder; Long-chain fatty alcohol; (Rat); Bladder neck obstruction (Saito, M. (501) 143)

Development

Pain; Morphine; Analgesia; Uncoupling; Neuron (Liu, J.-G. (491) 127)

Cannabinoid; CB₁ receptor; Endocannabinoid-CB receptor system; Failure-to-thrive; Implantation (Fride, E. (500) 289)

Dexamethasone

Emesis; Cisplatin; Indomethacin; (Pigeon) (Tanihata, S. (484) 311)

Angiogenesis; bFGF (basic fibroblast growth factor); Gastric ulcer; Prostaglandin E₂; VEGF (vascular endothelial growth factor) (Luo, J.C. (485) 275)

Human monocyte; Tumor necrosis factor- α ; Nuclear factor- κ B; Rofecoxib; Indomethacin (Lavagno, L. (501) 199)

Dexmedetomidine

α_2 -Adrenoceptor knockout; Atipamezole; ¹⁸FDG; Fluorodeoxyglucose (Fagerholm, V. (505) 243)

Dextromethorphan

Morphine; Synergism; Mesenteric artery (Inan, S. (486) 61)

Opioid dependence; Opioid withdrawal; Naloxone; (Human); Isradipine; Drug discrimination (Oliveto, A. (491) 157)

DFU

Nimesulide; Indomethacin; Myometrium; Ductus arteriosus (Karadas, B. (485) 289)

Diabetes

Artery; Liposome; Superoxide dismutase; Vasodilation (Voinea, M. (484) 111)

NO (Nitric oxide); Endothelin-1; Endothelin ET_A receptor; Endothelin ET_B receptor; Endothelium; Carotid artery (Lloréns, S. (486) 43)

Endothelin-1; Endothelium; NO (Nitric oxide); Basilar artery; (Rabbit) (Alabadi, J.A. (486) 289)

GLUT; Glucose; Insulin; Cognition; Hippocampus (McEwen, B.S. (490) 13)

Glucose; Insulin; Glucose transporter; Memory; Attention; Aging; Glucose tolerance; Vagus (Messier, C. (490) 33)

Alzheimer's disease; Cognition; Dementia (Allen, K.V. (490) 169)

Glucagon like peptide 1; Dipeptidyl peptidase IV; Transgenic animal model (Rolin, B. (494) 283)

Isoproterenol; Phenylephrine; Prazosin; Propranolol (Colivicchi, M.A. (495) 209)

Peroxynitrite; FeTMPyP (Nangle, M.R. (502) 143)

Basilar artery; Endothelium; Insulin; Oxidative stress; Relaxation (Matsumoto, T. (504) 119)

ATP-sensitive potassium channel; Basilar artery; Cromakalim; Insulin; Relaxation (Matsumoto, T. (504) 129)

Allodynia; Muscarinic receptor; α_2 -Adrenoreceptor; Spinal cord (Koga, K. (505) 75)

Diabetes mellitus

Insulin; Brain; Learning; Cognition; Dementia; Insulin signalling; Glucose metabolism (Biessels, G.J. (490) 1)

Insulin; Central nervous system; Blood-brain barrier; Transport; Leptin; Lipopolysaccharide (Banks, W.A. (490) 5)

Insulin receptor; Learning and memory; Signal transduction; Receptor trafficking; Alzheimer's disease (Zhao, W.-Q. (490) 71)

Insulin; Obesity (Lebovitz, H.E. (490) 135)

Cerebral glucose metabolism; Hypoglycemia (McCall, A.L. (490) 147)

Synaptic plasticity; Long-term potentiation; Glutamate receptor (Trudeau, F. (490) 177)

Angiotensin 1-converting enzyme; Bradykinin; Kinin B₁ receptor; Kinin B₂ receptor; Oxidative stress (Couture, R. (500) 467)

Diabetic encephalopathy

Type 1 diabetes; Cognition; Insulin; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

Diabetic neuropathy

Somatostatin; Analgesic effect; Formalin test; Writhing test; Thermal nociception (Szolcsányi, J. (498) 103)

Diabetic retinopathy

Protein kinase C- β (PKC- β) inhibitor; Protein kinase C (PKC); Endothelial permeability; Angiotensin II (Idris, I. (485) 141)

Calcium dobesilate; Advanced glycation end product; Antioxidant; Vascular permeability; VEGF (Vascular endothelial cell growth factor) (Rota, R. (495) 217)

Cyclooxygenase-2; Celecoxib; Prostaglandin E₂; VEGF (Ayalasomayajula, S.P. (498) 275)

Diabetic vasculopathy

Zucker diabetic fatty rat; Vasopeptidase inhibition (Schäfer, S. (484) 361)

Diacylglycerol lipase

Adrenal medulla; Brain; Vasopressin; Phospholipase C (Shimizu, T. (499) 99)

Diazoxide

db-cGMP; K⁺ channel opener; Sodium nitroprusside; Antinociception (Alves, D.P. (489) 59)

Dideoxyforskolin

(Guinea-pig); (Rabbit); Verapamil; Anthracene-9-carboxylic acid; Stilbene disulphonate (Shuba, L.M. (491) 111)

Dietary Ca

Amlodipine; Arterial blood pressure; α -Vascular reactivity (Civantos, B. (489) 101)

Diethyldithiocarbamate

Polyethylene-glycol-superoxide dismutase; Cu/Zn superoxide dismutase; 6-Anilino-5,8-quinolinedione; Nitrgic relaxation; Gastric fundus; (Pig) (De Backer, O. (486) 223)

Diet-induced obese, rat

Spontaneous feeding; Chronic obesity; Locomotor activity (Kowalski, T.J. (497) 41)

DIF-1 (differentiation-inducing factor-1)

Dictyostelium; K562; ERK (extracellular signal-regulated kinase); Akt (Akaishi, E. (485) 21)

Differentiation

Quercetin; Flavonoid; Osteoblast; Proliferation; Cell cycle (Notoya, M. (485) 89)

Dihydrocaffeic acid

Sleep latency; Chlorogenic acid; Caffeic acid; Caffeine; Arousal effect (Shinomiya, K. (504) 185)

Dihydroergotamine

BRL44408; (Dog); Carotid vasoconstriction external; MK912; SB224289 (Villalón, C.M. (484) 287)

1,4-Dihydropyridine

Marrubenol; Calcium antagonist; L-type Ca^{2+} channel; Phenylalkylamine (El Bardai, S. (492) 269)

3,5-Dihydroxyphenylglycine

Long-term potentiation; $\text{K}_{\text{ATP}}^{+}$ channel; Hippocampal slice; HMR-1372; Glibenclamide (Schröder, U.H. (502) 99)

3,4-Dihydroxyphenylacetic acid

Nucleus accumbens; Homovanillic acid; Ventral tegmental area (Yang, S.-C. (494) 179)

Dimaprit

Cerebral ischemia; Dopamine; Glutamate; Histamine; Striatum (Hamami, G. (484) 167)

Dimerization

Prostacyclin; Prostanoid IP receptor; G-protein-coupled receptor; Oligomerization; Cysteine (Giguère/Giguère, V. (494) 11)

3'-di-O-gallate

Prodelphinidin B-2 3; A549 cell; p53; Fas/APO-1; Fas ligand; Apoptosis (Kuo, P.-L. (501) 41)

Diosgenin

Porcine coronary artery; Oestrogen receptor; Iberitoxin-sensitive; Ca^{2+} -activated K^{+} (BK_{Ca}) channel (Au, A.L.S. (502) 123)

Dipeptide

Arylalkylamine; Amino acid; CGP7930; Allosteric modulation; GABA_B receptor (Urwyler, S. (483) 147)

Dipeptidyl peptidase IV

Antihyperglycemic effect; GLP-1; Insulin; (Rat) (Takasaki, K. (486) 335)

Biguanide; Glucagon-like peptide 2; Intestine (Yamazaki, K. (488) 213)

Glucagon like peptide 1; Transgenic animal model; Diabetes (Rolin, B. (494) 283)

Active metabolite; Bile; (Rat) (Takasaki, K. (505) 237)

Dipyridamole

Adenosine; Drafazine; Nitrobenzylthioinosine; Transporter (Hammond, J.R. (491) 9)

Dipyrene

Antinociception; Serotonin; Methysergide; Yohimbine; Pyrazoline (Godoy, M.C.M. (496) 93)

Discrimination

Tramadol; Morphine; Naloxone; Antidepressant drug (Filip, M. (498) 143)

Discriminative stimulus effect

Morphine; Histamine; H_2 -receptor (Mori, T. (491) 169)

Disodium cromoglycate

Late asthmatic response; Cysteinyl leukotriene; Thromboxane A₂; Eosinophil; (Guinea pig) (Nabe, T. (497) 97)

Diuresis

Opioids; Enkephalin analogue cUENK6; Naloxonazine; Natriuresis; Blood pressure; Natriuretic peptides; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

κ -Opioid receptor; Antagonist; JD1c; Antinociception; Tail-flick (Carroll, I. (501) 111)

diuresis

Adrenomedullin2; Renal hemodynamics; Vasodilation; Natriuresis (Fujisawa, Y. (497) 75)

Dizocilpine

GHB (γ -hydroxybutyrate); Haloperidol; Catalepsy; Synergism (Sevak, R.J. (483) 289)

DMP 696

Corticotropin-releasing factor (CRF); Depression; Tail suspension test; Forced swim test; R 121919; DMP 904; Antalarmin; (Mouse) (Nielsen, D.M. (499) 135)

DMP 904

Corticotropin-releasing factor (CRF); Depression; Tail suspension test; Forced swim test; R 121919; DMP 696; Antalarmin; (Mouse) (Nielsen, D.M. (499) 135)

DNA vaccine

Cancer gene therapy; Anti-oncogene; Suicide gene; *p53* gene; Cytokine gene (El-Aneel, A. (498) 1)

Docking

Ibotenic acid; Thioibotenic acid; Glutamate receptor; mGlu receptor; Group III agonist; Homology model; Conformational energy (Hermit, M.B. (486) 241)

Ibotenic acid; Glutamate receptor; Metabotropic glutamate receptor; *N*-Hydroxypyrazole; Partial agonism (Clausen, R.P. (499) 35)

Docosahexaenoic acid

Fish oil; Polyunsaturated fatty acid; Arrhythmias; Adrenoceptor agonists; Eicosapentaenoic acid (Xiao, Y.-F. (485) 31)

dog

Histamine; Cough; Allergic (House, A. (492) 251)

(Dog)

BRL44408; Dihydroergotamine; Carotid vasoconstriction external; MK912; SB224289 (Villalón, C.M. (484) 287)

Cough; Tachykinin NK₁ receptor; CP-99994 (Chapman, R.W. (485) 329)

L-DOPA (L-3,4-dihydroxyphenylalanine)

(1*R*,9*S*)- β -Hydrastine; Cytotoxicity; PC12 cell; Apoptosis (Yin, S.Y. (488) 71)

L-DOPA-induced dyskinesia

mGlu5 receptor; Adenosine receptor; Dopamine receptor; Parkinson's disease; Locomotion (Ismayilova, N. (497) 187)

DOPAC

α_2 -Adrenoceptor antagonist; Desipramine; HPLC; Microdialysis; (Rat) (Devoto, P. (487) 105)

Dopamine

Prefrontal cortex; Striatum; 5-HT (5-hydroxytryptamine, serotonin); Anti-psychotic; Schizophrenia (Jordan, S. (483) 45)

Antipsychotic; Dyskinesia; Extra-pyramidal symptom (Marchese, G. (483) 65)

Cerebral ischemia; Dimaprit; Glutamate; Histamine; Striatum (Hamami, G. (484) 167)

Phosphatidylserine; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Memory; (Rat); Parkinson's disease (Perry, J.C. (484) 225)

(–)-Linalool; Antinociception; Cholinergic; Opioid; K⁺ channel; ATP-sensitive channel (Peana, A.T. (485) 165)

Striatum; Motor control; Glutamate (Del Bel, E.A. (485) 175)

Serotonin; Psychostimulant; Antidepressant; Antipsychotic; Food intake; Obesity; Transgenic (Giorgetti, M. (488) 1)

Serotonin; Noradrenaline; Reboxetine; Lithium carbonate; In vivo microdialysis (Kitaichi, Y. (489) 187)

Adiponectin; Resistin; Hypothalamus; Norepinephrine; Serotonin (Brunetti, L. (493) 41)

Aripiprazole; Antipsychotic; Serotonin; Prefrontal cortex; Hippocampus (Li, Z. (493) 75)

Nicotine; Epibatidine; Caudate-putamen; Nucleus accumbens; In vivo microdialysis (Janhunen, S. (494) 167)

D₄ receptor; Spiperone; A-369508 (Moreland, R.B. (497) 147)

Dopamine receptor; *C. elegans*; Behavior; Genetics (Suo, S. (500) 159)

Depression; Antidepressant; Monoamine; Neurogenesis; SSRI; Tricyclic (Millan, M.J. (500) 371)

Adolescence; Autoradiography; Nicotine; Serotonin (Collins, S.L. (502) 75)

Dopamine autoreceptor

Nicotine; Dopamine release; Ventral tegmental area; Nucleus accumbens; In vivo microdialysis (Rahman, S. (494) 31)

Dopamine D1 receptor

G_s protein; Scintillation proximity assay; Clozapine; Haloperidol (Cussac, D. (485) 111)

Immediate early gene; c-fos; Striatum; Caudate; Acetylcholine (Wirtshafter, D. (488) 85)

Bupropion; Nomifensine; Dopamine D2 receptor; Antidepressant; Forced swimming test (Yamada, J. (504) 207)

Dopamine D2 receptor

Bupropion; Nomifensine; Dopamine D1 receptor; Antidepressant; Forced swimming test (Yamada, J. (504) 207)

Dopamine D1-like receptor

Adenylyl cyclase-coupled; Non-adenylyl cyclase-coupled; SK&F 83822; Behavioural topography; Dopamine D1-like: D2-like receptor interaction; (Mouse) (O'Sullivan, G.J. (486) 273)

Dopamine D₁-like receptor

Na⁺/H⁺ exchanger; Protein kinase; OK cell (Gomes, P. (488) 51)

Dopamine D1-like/D2-like receptor

Attention-deficit hyperactivity disorder; Spontaneous behaviour; Repetitive jaw movement; Striatum; Ventrolateral; Acetylcholine receptor; Spontaneously hypertensive rat (SHR) (Fujita, S. (484) 75)

Dopamine D1-like: D2-like receptor interaction

Dopamine D1-like receptor; Adenylyl cyclase-coupled; Non-adenylyl cyclase-coupled; SK&F 83822; Behavioural topography; (Mouse) (O'Sullivan, G.J. (486) 273)

Dopamine D2 and D3 receptors

Tramadol; α₁-Adrenoceptors; BDNF; TrkB; Brain, rat (Faron-Górecka, A. (501) 103)

Dopamine D2 receptor

Adenosine A_{2A} receptor; Adenosine A₁ receptor; Cardiovascular; Motor activity (Schindler, C.W. (484) 269)

Positron emission tomography; Pain; Striatum (Hagelberg, N. (500) 187)

Dopamine metabolism

Tachykinin NK₁ receptor antagonist; GR205171; Immobilisation stress; Cortex; Tachykinin NK₁ receptor occupancy; [¹²⁵I]Tyrosine–substance P ex vivo binding (Hutson, P.H. (484) 57)

Dopamine receptor

Neuroprotection; Oxygen–glucose deprivation; Stroke; Free radical; Anti-oxidant (Miglio, G. (489) 157)

mGlu5 receptor; Adenosine receptor; Parkinson's disease; L-DOPA-induced dyskinesia; Locomotion (Ismayilova, N. (497) 187)

GABA transmission; Hyperactivity disorder (Floran, B. (498) 97)

Dopamine; *C. elegans*; Behavior; Genetics (Suo, S. (500) 159)

Cocaine; Locomotor activity; Serotonin receptor (Hanania, T. (502) 221)

Dopamine receptor agonists and antagonists

Morphine; Naloxone; Sensitization; (Mouse) (Zarrindast, M.-R. (497) 197)

Dopamine release

Sibutramine; Dosulepin; Microdialysis; 5-HT (5-hydroxytryptamine, serotonin) release; Carrier-mediated (Ukai, K. (484) 209)

Nicotine; Dopamine autoreceptor; Ventral tegmental area; Nucleus accumbens; In vivo microdialysis (Rahman, S. (494) 31)

Dopamine transporters

Self-administration; (Rhesus monkey); Ephedrine; Pseudoephedrine (Wee, S. (493) 117)

Dorsal horn

Cytokine; C-fibre; Pain; Electrophysiology; Interleukin-6 (Flatters, S.J.L. (484) 183)

Dorsal raphe

mGlu₅; MPEP; Serotonin; Microdialysis; Thermal nociception (Palazzo, E. (492) 169)

Dorsal root ganglion

Yohimbine; Na⁺ channel; Vanilloid VR1 receptor; Action potential; Firing activity (Dessaint, J. (485) 11)

Vanilloid receptor; Methocitramine; Channel block; Patch-clamp; Polyamine (Mellor, I.R. (505) 37)

Dosulepin

Sibutramine; Microdialysis; Dopamine release; 5-HT (5-hydroxytryptamine, serotonin) release; Carrier-mediated (Ukai, K. (484) 209)

Double-null

G protein; Histamine H₂ (Fukushima, Y. (502) 243)

Down-regulation

δ-Opioid receptor; Trafficking, agonist-directed (Navratilova, E. (485) 341)

μ-Opioid receptor; Up-regulation; Intermittent and continuous dosing (Yoburn, B.C. (498) 87)

Doxorubicin

Azithromycin; *P*-glycoprotein; Multidrug resistance; Mrp2 (Multidrug resistance-associated protein 2); Biliary excretion; (Rat) (Asakura, E. (484) 333)

Resveratrol; Antioxidant; Cardiomyocyte; Reactive oxygen species; 4-Hydroxy-2-nonenal (Cao, Z. (489) 39)

DP receptor

Vagus; Prostanoid; Prostaglandin; 5-HT₃ receptor; Depolarization; Neurone; Nervous; (Ferret) (Kan, K.K.W. (491) 37)

Draflazine

Adenosine; Dipyrindamole; Nitrobenzylthioinosine; Transporter (Hammond, J.R. (491) 9)

Dronedarone

Amiodarone; L-NOARG; Nitric oxide; (Guinea pig); Coronary pressure (Guiraudou, P. (496) 119)

Drug delivery

Brain; Pharmacokinetics; Blood–brain barrier; Erythropoietin; Stroke; Neuroprotection (Banks, W.A. (505) 93)

Drug discovery

Long QT syndrome; Iatrogenic disease; HERG protein; Torsades de Pointes; High-throughput screening (Finlayson, K. (500) 129)

Drug discrimination

Opioid dependence; Opioid withdrawal; Naloxone; (Human); Isradipine; Dextromethorphan (Oliveto, A. (491) 157)

Sensitization; Methamphetamine (Suzuki, T. (498) 157)

Analgesic; Animal model; Cannabinoid receptor (De Vry, J. (505) 127)

Drug interaction

Cardiac troponin C; Levosimendan; NMR (nuclear magnetic resonance) (Sorsa, T. (486) 1)

Drug metabolism

Cytochrome *P*450; Cyclosporine; Prolactin; Bromocriptine (Lu, S.K. (501) 215)

Drug therapy

Pharmacogenomics; Gene (Nebert, D.W. (500) 267)

Drug-discrimination

Chlormethiazole; Methamphetamine; (Rat) (Gasior, M. (494) 183)

Dual agonist

TAK-559; Peroxisome proliferator-activated receptor; Partial agonist (Sakamoto, J. (495) 17)

Ductus arteriosus

DFU; Nimesulide; Indomethacin; Myometrium (Karadas, B. (485) 289)

Dynorphin A

Arthritis; Δ⁹-THC (Cox, M.L. (493) 65)

Dynorphin A_{1–17}

Endomorphin-2; Spinal cord (Leitermann, R.J. (504) 177)

Dyskinesia

Antipsychotic; Dopamine; Extra-pyramidal symptom (Marchese, G. (483) 65)

Dystonia

Parkinson disease; Synchronization; Anti-epileptic drug (Bezard, E. (485) 159)

Bicarbonate; GABA (γ-aminobutyric acid); Movement disorder (Richter, A. (502) 105)

Ear-scratch

Delta-9-THC; 5-HTP; 5-HT; Carbidopa; SR 141716A; Head-twitch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

Ebselen

Hydrogen peroxide; p38 MAP (mitogen-activated protein) kinase; Apoptosis; HUVEC (human umbilical vein endothelial cell) (Ali, N. (485) 127)

Focal ischemia; Oxidative stress; Cerebral infarct; (Rat) (Salom, J.B. (495) 55)

Eburnamonine

Muscarinic M₁–M₄ receptor; [³H]*N*-methylscopolamine binding, kinetics of; Acetylcholine (Maksay, G. (483) 229)

Echinacoside

Apoptosis; TNFα; Mitochondrial membrane potential; Reactive oxygen species; Caspase-3 (Deng, M. (505) 11)

Ecstasy

3,4-Methylenedioxymethamphetamine; Hyperthermia; Neurotoxicity; Serotonin; Body temperature (Green, A.R. (500) 3)

Ecto-apyrase

Corticosteroid; Endothelium; Mesangium; Hemopexin; Nephrotic syndrome (Kajojos, J.J. (501) 191)

Ecto-ATPase

Chromaffin cell; ARL 67156; Inositol phosphate; P2Y receptor (Drakulich, D.A. (485) 137)

Ectonucleotidase

Uridine 5'-triphosphate; α,β-Methyleneadenosine 5'-triphosphate; P2Y₄ receptor; Basilar artery; Smooth muscle (Miyagi, Y. (488) 117)

Edaravone

Reactive oxygen species; Cochlear protection; Noise trauma (Takemoto, T. (487) 113)

EDHF (endothelium-derived hyperpolarizing factor)

Gender; NO (Nitric oxide); Vasoconstriction; Vasodilatation (Wangenstein, R. (486) 281)

EEG

Polytherapy; GABA; Isobolic analysis; (Rat) (Bouwman, B.M. (495) 119)

Efficacy

Enkephalin; Cysteine; δ -Opioid receptor; Affinity (Pencheva, N. (498) 249)

EGCG ((-)-epigallocatechin-3-gallate)

uPA (urokinase-type plasminogen activator); Erk-1/2; P38 MAPK; Transcription; mRNA stability (Kim, M.H. (487) 1)

Egpgalocatechin-3 gallate

Catechin; VEGF (vascular endothelial growth factor); Endothelial cell; Cell proliferation (Neuhaus, T. (483) 223)

Ehrlich ascites

Titanocene; Cytokine (Valadares, M.C. (503) 203)

Eicosapentaenoic acid

Fish oil; Polyunsaturated fatty acid; Arrhythmias; Adrenoceptor agonists; Docosahexaenoic acid (Xiao, Y.-F. (485) 31)

Electrical field stimulation

α_1 -Adrenoceptor; Noradrenaline; Femoral small artery (Zacharia, J. (503) 155)

Electrically vulnerable period

Fluoroquinolone; Interventricular dispersion of repolarization; Phase 3 repolarization (Chiba, K. (502) 117)

Electrophysiology

hERG K⁺ channel; Antimalarial drug; IC₅₀ (Traebert, M. (484) 41)

Cytokine; C-fibre; Pain; Interleukin-6; Dorsal horn (Flatters, S.J.L. (484) 183)

Cholecystokinin; Nociceptin/orphanin FQ; Spinal cord; Neuropathic; (Rat) (Maie, I.A. (484) 235)

Cardiac cell; Ca²⁺ current; Phenol derivative; Myocytehuman (Magyar, J. (487) 29)

Electroretinogram

T-0156; Sildenafil; Phosphodiesterase type 5 inhibitor; Phosphodiesterase type 6; Penile tumescence (Mochida, H. (485) 283)

Electrotherapy

Hyperalgesia; Inflammation; TENS; Carrageenan; Opioid (Resende, M.A. (504) 217)

Elevated plus maze

Stress; NO (Nitric oxide); Adaptation (Masood, A. (493) 111)

Adenosine; Ethanol; Anxiety; (Mouse) (Prediger, R.D.S. (499) 147)

EMD 61753

Asimadoline; κ -Opiate receptor agonist; Epithelial transport (Schreiber, R. (503) 185)

Emesis

Cisplatin; Dexamethasone; Indomethacin; (Pigeon) (Tanihata, S. (484) 311)

Endocannabinoid

Anandamide uptake; Fatty acid amide hydrolase; C6 glioma cell (Fowler, C.J. (492) 1)

Appetite; Benzodiazepine; Obesity; Opioid; Palatability (Cooper, S.J. (500) 37)

Calcium channel; Cannabinoid; Fatty acid; Skeletal muscle (Oz, M. (502) 47)

Endocannabinoid-CB receptor system

Cannabinoid; CB₁ receptor; Development; Failure-to-thrive; Implantation (Fride, E. (500) 289)

Endocrine response

Ethanol; Pregnenolone; Allopregnanolone; Allotetrahydrodeoxycorticosterone (O'Dell, L.E. (484) 241)

Endocytosis

Intestinal absorption; Protein drug; Lysozyme; Megalin (Takano, M. (502) 149)

Endomorphin-2

Dynorphin A₁₋₁₇; Spinal cord (Leitermann, R.J. (504) 177)

Endoplasmic reticulum stress

FR167653; Calreticulin; p38 MAP kinase (Yamazaki, T. (484) 147)

Endothelial cell

Vasorelaxation; Mesaconitine; Na⁺/Ca²⁺ exchanger; Na⁺ channel (Ogura, J. (483) 139)

Catechin; Egpgalocatechin-3 gallate; VEGF (vascular endothelial growth factor); Cell proliferation (Neuhaus, T. (483) 223)

Sphingosine 1-phosphate; Histamine; Protein kinase C; p38 MAPK; Adhesion molecule; (Human) (Shimamura, K. (486) 141)

SU5416; Gemcitabine; Pancreas cancer cell; VEGF; Angiogenesis (Bocci, G. (498) 9)

Dehydroepiandrosterone; Dehydroepiandrosterone sulphate; Angiogenesis; Tubulin; Glucose-6-phosphate dehydrogenase (Varet, J. (502) 21)

Endothelial dysfunction

Serum-deprivation; Free radical scavenger; Bradykinin; p38 MAP kinase; Tyrosine kinase (Maeda, Y. (491) 53)

Coronary vasoconstriction; Coronary vasodilatation; Vasoconstrictor prostanoid (Diéguez, G. (495) 171)

Endothelial function

Simvastatin; Fenofibrate; Type 2 diabetes; Oxidative stress (Škrha, J. (493) 183)

Endothelial permeability

Protein kinase C- β (PKC- β) inhibitor; Protein kinase C (PKC); Angiotensin II; Diabetic retinopathy (Idris, I. (485) 141)

Endothelin

Cardiovascular disease; Coronary artery; Gene expression; Endothelin receptor; Vasoconstriction (Wackenfors, A. (484) 103)

Thapsigargin; Saphenous vein, human; Sympathetic vascular tone; Thromboxane A₂; Verapamil (Fabi, F. (484) 277)

Heart failure; Hypertension; Hypoxia (Yuyama, H. (496) 129)

Mechanical hyperalgesia; Endothelin ET_B receptor; cAMP; Protein kinase (da Cunha, J.M. (501) 87)

Endothelin-1

Mesenteric artery; Rho-kinase; Saponin; Y-27632 (Büyükaşar, K. (485) 263)

Diabetes; NO (Nitric oxide); Endothelin ET_A receptor; Endothelin ET_B receptor; Endothelium; Carotid artery (Lloréns, S. (486) 43)

Diabetes; Endothelium; NO (Nitric oxide); Basilar artery; (Rabbit) (Alabadi, J.A. (486) 289)

Biliverdin; Carbon monoxide (CO); Heme oxygenase; Pulmonary artery smooth muscle cellhuman; Pulmonary hypertension (Stanford, S.J. (486) 349)

ET_B receptor; Chronic renal failure; Renal mass reduction; Hypertension (Okada, Y. (494) 63)

Lipopolysaccharide; Mesenteric artery; Nitric oxide; Rho-kinase; Y-27632 (Büyükaşar, K. (498) 211)

Ursodeoxycholic acid; Human endothelial cell; Nitric oxide; Real-time RT-PCR (Ma, J. (505) 67)

Endothelin ET_A receptor

Diabetes; NO (Nitric oxide); Endothelin-1; Endothelin ET_B receptor; Endothelium; Carotid artery (Lloréns, S. (486) 43)

YM598; Antagonist; Nociception; Prostate cancer (Yuyama, H. (492) 177)

Endothelin ET_B receptor

Diabetes; NO (Nitric oxide); Endothelin-1; Endothelin ET_A receptor; Endothelium; Carotid artery (Lloréns, S. (486) 43)

Endothelin; Mechanical hyperalgesia; cAMP; Protein kinase (da Cunha, J.M. (501) 87)

Endothelin receptor

Cardiovascular disease; Coronary artery; Endothelin; Gene expression; Vasoconstriction (Wackenfors, A. (484) 103)

Positive inotropic effect; (Rabbit); Endothelin receptor antagonist; TAK-044; FR139317 (Yomogida, S.-i. (492) 217)

Articular incapacitation; Hyperalgesia; Analgesia; Arthritic pain; IRL 1620 (Daher, J.B. (496) 77)

YM598; Atrasentan; Bosentan; Antagonist (Yuyama, H. (498) 171)

Endothelin receptor antagonist

Positive inotropic effect; (Rabbit); Endothelin receptor; TAK-044; FR139317 (Yomogida, S.-i. (492) 217)

Endothelium

Constant-pressure perfusion; Mesenteric vascular bed; (Rat); NO (nitric oxide); K⁺ channel, Ca²⁺-dependent (Fujioka, H. (485) 219)

Diabetes; NO (Nitric oxide); Endothelin-1; Endothelin ET_A receptor; Endothelin ET_B receptor; Carotid artery (Lloréns, S. (486) 43)

Aorta, rat; Glyceryl trinitrate metabolism; Glyceryl dinitrate; Artery relaxation; Toleranceex vivo; NO (nitric oxide) synthase inhibition (de la Lande, I.S. (486) 201)

Diabetes; Endothelin-1; NO (Nitric oxide); Basilar artery; (Rabbit) (Alabadi, J.A. (486) 289)

Subarachnoid haemorrhage; Cerebral vasospasm; Phosphodiesterase inhibitor; Cilostazol (Birk, S. (489) 93)

GLUT1 (glucose transporter1); Antisense (Park, J.L. (496) 213)

Benidipine; Antioxidant; VCAM-1; Atherosclerosis (Matsubara, M. (498) 303)

Corticosteroid; Ecto-apyrase; Mesangium; Hemopexin; Nephrotic syndrome (Kapojs, J.J. (501) 191)

Basilar artery; Diabetes; Insulin; Oxidative stress; Relaxation (Matsumoto, T. (504) 119)

Endothelium-derived hyperpolarizing factor

Hypercholesterolemia; Renal artery; Pioglitazone (Moroe, H. (497) 317)

Endothelium-derived relaxing factor

Cyclosporine; Perfused kidney; Acetylcholine; Isoprenaline (El-Mas, M.M. (487) 149)

Endothlin-1

ET_A receptor; ET_B receptor; ET_B receptor-deficient rat; Pulmonary hypertension; Monocrotaline (Nishida, M. (496) 159)

Endotoxin

CYP3A2; CYP2C11; Pioglitazone; PPAR-γ; Antipyrine clearance; (Rat) (Ueyama, J. (498) 257)

Energy homeostasis

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypo-Thalamus; Hippocampus; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Enkephalin

Cysteine; δ-Opioid receptor; Affinity; Efficacy (Pencheva, N. (498) 249)

Enkephalin analogue cUENK6

Opioids; Naloxonazine; Diuresis; Natriuresis; Blood pressure; Natriuretic peptides; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

Enteral bacteria

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

Enteric nervous system

Stomach; Vagus; Brainstem; Gastrin; Ghrelin; Leptin (Konturek, P.C. (499) 15)

Enteropathy

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

Eosinophil

Disodium cromoglycate; Late asthmatic response; Cysteinyl leukotriene; Thromboxane A₂; (Guinea pig) (Nabe, T. (497) 97)

Eotaxin

Lung granuloma; Nuclear factor-κB; Sephadex bead; Tumor necrosis factor-α; Vitamin A (Torii, A. (497) 335)

EP₂

Prostaglandin; Receptor; Agonist; EP₄ (Wilson, R.J. (501) 49)

- EP₄**
Prostaglandin; Receptor; Agonist; EP₂ (Wilson, R.J. (501) 49)
- Ephedrine**
Self-administration; (Rhesus monkey); Pseudoephedrine; Dopamine transporters (Wee, S. (493) 117)
- Epibatidine**
Nicotine; Dopamine; Caudate–putamen; Nucleus accumbens; In vivo microdialysis (Janhunen, S. (494) 167)
- Epidermal growth factor receptor**
MAP kinase; Opioid; Human embryonic kidney 293 cell; Extracellular signal-regulated kinase; G protein-coupled receptor (Schulz, R. (500) 487)
- Epidermoid carcinoma A431 cell, human**
Amlodipine; Proliferation; Uridine 5'-triphosphate; Intracellular Ca²⁺; A431 xenograft (Yoshida, J. (492) 103)
- (–)-Epigallocatechin gallate**
Green tea; Tea polyphenol; Catechin; Gastrointestinal tract (Koo, M.W.L. (500) 177)
- Epilepsy**
Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)
- Anticonvulsant; Kindling; AMPA receptor antagonist; YM928 (Yamashita, H. (494) 147)
- Bupropion; Seizure; Antidepressant drug; Smoking cessation (Tutka, P. (499) 117)
- GABA; Transporter; Betaine transporter; Astrocyte; *exo*-THPO; Neuron; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)
- Epithelial transport**
Asimadoline; κ -Opiate receptor agonist; EMD 61753 (Schreiber, R. (503) 185)
- 4,5-Epoxy-morphinans**
Opioid; Immune system; Cell proliferation; Structure–effect relationship (Hutchinson, M.R. (494) 251)
- EPR (Electron paramagnetic resonance) spectrometry**
Na⁺–H⁺ exchange inhibitor; LVDP (Left ventricular developed pressure); ³¹P-NMR (nuclear magnetic resonance); Ischemia–reperfusion injury; Apoptosis; (Guinea pig) (Hotta, Y. (503) 109)
- Epsilon receptor**
Opioid receptor; Knockout mice; [³⁵S]GTP γ S binding assay (Contet, C. (492) 131)
- Erdosteine**
Bleomycin; Lung fibrosis; Myeloperoxidase; Hydroxyproline (Sogut, S. (494) 213)
- ERK**
Akt; Apoptosis; Bcl-2; Gemcitabine; p53 (Chang, G.-C. (502) 169)
- Erk-1/2**
EGCG ((–)-epigallocatechin-3-gallate); uPA (urokinase-type plasminogen activator); P38 MAPK; Transcription; mRNA stability (Kim, M.H. (487) 1)
- Erk1/2**
Aniracetam; Astrocyte; Ischemia; Apoptosis; Akt (Gabryel, B. (494) 111)
- ERK1/2**
Andrographolide; Chemotactic migration; MAPK; Akt (Tsai, H.-R. (498) 45)
- ERK (extracellular signal-regulated kinase)**
Dictyostelium; DIF-1 (differentiation-inducing factor-1); K562; Akt (Akaishi, E. (485) 21)
- Erythropoietin**
Brain; Pharmacokinetics; Drug delivery; Blood–brain barrier; Stroke; Neuroprotection (Banks, W.A. (505) 93)
- D-erythro-dihydrosphingosine**
D-erythro-sphingosine; D-erythro-N,N-dimethylsphingosine; Arachidonic acid; Phospholipase A₂; PC12 cell (Nakamura, H. (484) 9)
- D-erythro-N,N-dimethylsphingosine**
D-erythro-sphingosine; D-erythro-dihydrosphingosine; Arachidonic acid; Phospholipase A₂; PC12 cell (Nakamura, H. (484) 9)
- D-erythro-sphingosine**
D-erythro-dihydrosphingosine; D-erythro-N,N-dimethylsphingosine; Arachidonic acid; Phospholipase A₂; PC12 cell (Nakamura, H. (484) 9)
- Estrogen**
Tamoxifen; Ovariectomy; Gene expression; K⁺ channel; Ca²⁺ channel; (Rat) (Tsang, S.Y. (483) 155)
- Low-dose; Neointimal formation (Watanabe, T. (502) 265)
- Estrogen receptor**
Action potential; Cell shortening; Ca²⁺ current, L-type; Myocyte (Liew, R. (484) 141)
- Estrogenic activity**
Icariin; Icaritin; Desmethylicaritin; Phytoestrogen; Cell cycle analysis; S phase; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)
- Estrous cycle**
Morphine; Antinociception; Tolerance; Sex (Shekunova, E.V. (486) 259)
- Hypothyroidism; Thyroid hormone; Thyroxine; Ovarian hormone; Gonadotropin (Hatsuta, M. (486) 343)
- ET_A receptor**
Endothelin-1; ET_B receptor; ET_B receptor-deficient rat; Pulmonary hypertension; Monocrotaline (Nishida, M. (496) 159)
- ET_B receptor**
Endothelin-1; Chronic renal failure; Renal mass reduction; Hypertension (Okada, Y. (494) 63)
- Endothelin-1; ET_A receptor; ET_B receptor-deficient rat; Pulmonary hypertension; Monocrotaline (Nishida, M. (496) 159)
- ET_B receptor-deficient rat**
Endothelin-1; ET_A receptor; ET_B receptor; Pulmonary hypertension; Monocrotaline (Nishida, M. (496) 159)

Ethanol

Action potential; Atrial fibrillation; Pulmonary vein (Chen, Y.-C. (483) 215)

Pregnenolone; Allopregnanolone; Allotetrahydrodeoxycorticosterone; Endocrine response (O'Dell, L.E. (484) 241)

Self-administration intravenous; (Mouse) (Blokina, E.A. (485) 211)

Rilmidenine; α -Methyldopa; Hypotension; Hemodynamic variability; Time-domain analysis (El-Mas, M.M. (485) 251)

Adenosine; Anxiety; Elevated plus-maze; (Mouse) (Prediger, R.D.S. (499) 147)

Neurosteroid; GABA_A receptor; Gene expression; Pregnancy; Cell culture (Follesa, P. (500) 413)

NMDA receptor antagonist; Neramexane; Reinforcement; Dependence (Kotlinska, J. (503) 95)

Ethanol withdrawal

Miltirone; GABA_A receptor; Dependence (Mostallino, M.C. (494) 83)

Eticlopride

Apomorphine; Vesicular monoamine transporter; Redistribution; Neurodegeneration (Truong, J.G. (492) 143)

Quinpirole; Vesicle; NGB2904; Clozapine; Traffick (Truong, J.G. (504) 27)

Excitation–contraction coupling

NO (Nitric oxide); Lipopolysaccharide; Contractility; Neuromuscular junction; Skeletal muscle (Sara, Y. (505) 177)

Excitatory amino acid

Morphine dependence; Glutamate; Nucleus accumbens; Neurotransmitter; Acamprosate; Riluzole (Sepúlveda, J. (483) 249)

Excitatory synaptic transmission

AM404; *N*-acetyl ethanolamide; CB₁ receptor; Cannabinoid; Hippocampus (Kelley, B.G. (496) 33)

Excitotoxicity

Wogonin; Neuroprotection; Cortical neuron; Antioxidant; Oxidative damage (Cho, J. (485) 105)

Cyclooxygenase-2; Oxygen-glucose deprivation; NMDA; Ca²⁺; Primary cortical culture (Gendron, T.F. (493) 45)

Exercise-induced cardiac ischemia

Serotonin; 5-HT_{1B} receptor; 5-HT_{2A} receptor; SL65.0472; Ketanserin (Guilbert, F. (497) 55)

exo-THPO

GABA; Epilepsy; Transporter; Betaine transporter; Astrocyte; Neuron; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

Exocytosis

Mast cell; Substance P; Neurogenic inflammation; Allergy (Karimi, K. (489) 49)

Experimental angina

Platelet-activating factor; Vasopressin; Synergistic interaction; Pathogenesis of myocardial ischaemia (Nemesik, J. (498) 195)

Expression

iNOS (inducible nitric oxide synthase); Signal transduction; Pathway; Promoter; Transcription factor; mRNA stability; RNA binding; Protein (Kleinert, H. (500) 255)

External stimulus

Cocaine; Reinstatement; Relapse (Shelton, K.L. (497) 35)

Extinction responding for alcohol

Cannabinoid CB₁ receptor antagonist, SR 141716; Sardinian alcohol-preferring (sP), rat (Colombo, G. (498) 119)

Extracellular dopamine

Deltorphin II; Opioid receptor; Tetrodotoxin; Nucleus accumbens (Murakawa, K. (491) 31)

Extracellular signal-regulated kinase

Aortic smooth muscle cell, rat; Quercetin; Mitogen-activated protein kinase; c-Jun N-terminal kinase (Shih, C.-M. (496) 41)

MAP kinase; Opioid; Epidermal growth factor receptor; Human embryonic kidney 293 cell; G protein-coupled receptor (Schulz, R. (500) 487)

Extra-pyramidal symptom

Antipsychotic; Dopamine; Dyskinesia (Marchese, G. (483) 65)

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Serotonin; Curative analgesia; Neuropathic pain (Colpaert, F.C. (497) 29)

Failing human heart

Aging human heart; α -Adrenoceptor; β -Adrenoceptor; Muscarinic receptor; Sympathetic activity (Brodde, O.-E. (500) 167)

Failure-to-thrive

Cannabinoid; CB₁ receptor; Endocannabinoid-CB receptor system; Development; Implantation (Fride, E. (500) 289)

Familial combined hyperlipidemia

Benzenesulfonate; Hypercholesterolemia; Lipoprotein (Masana, L. (496) 205)

Famotidine

Organic anion transporter; Organic cation transporter; Cimetidine; Renal tubular secretion (Motohashi, H. (503) 25)

Fas ligand

Prodelphinidin B-2 3; 3'-di-*O*-gallate; A549 cell; p53; Fas/APO-1; Apoptosis (Kuo, P.-L. (501) 41)

Fas protein

Fas receptor aggregate; Deglycosylation; Opiate drug; Morphine addiction; Brain, rat (García-Fuster, M.J. (496) 63)

Fas receptor aggregate

Fas protein; Deglycosylation; Opiate drug; Morphine addiction; Brain, rat (García-Fuster, M.J. (496) 63)

Fas/APO-1

Prodelphinidin B-2 3; 3'-di-*O*-gallate; A549 cell; p53; Fas ligand; Apoptosis (Kuo, P.-L. (501) 41)

Fat absorption

Western-type diet; Orlistat; Atherosclerosis (Ueshima, K. (501) 137)

Fatty acid

Calcium channel; Endocannabinoid; Cannabinoid; Skeletal muscle (Oz, M. (502) 47)

Fatty acid amide hydrolase

Endocannabinoid; Anandamide uptake; C6 glioma cell (Fowler, C.J. (492) 1)

Fcy receptor

Syk; Bone marrow-derived dendritic cell; Immune complex; Antigen internalization; Antigen presentation (Nakashima, K. (505) 223)

¹⁸FDG

α_2 -Adrenoceptor knockout; Atipamezole; Dexmedetomidine; Fluorodeoxyglucose (Fagerholm, V. (505) 243)

Fear and anxiety

MS-153; Contextual fear conditioning; Glutamate uptake and release; NMDA receptor antagonist (Li, X. (505) 145)

Feeding

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; HypoThalamus; Hippocampus; Energy homeostasis; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Ghrelin; Orexin/hypocretin; Melanin-concentrating hormone; Neuropeptide B; Neuropeptide W (Xu, Y.-L. (500) 243)

Felbamate

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Female mouse

Bladder; Oestrogen; Muscarinic M₁, M₃ and M₅ receptors; Pregnancy (Ma, S. (487) 205)

Femoral artery

Hyperthyroidism, acute; Adrenoceptor; Muscarinic receptor; Renal artery (Iwata, T. (493) 191)

Femoral small artery

α_1 -Adrenoceptor; Noradrenaline; Electrical field stimulation (Zacharia, J. (503) 155)

Fenofibrate

Simvastatin; Type 2 diabetes; Oxidative stress; Endothelial function (Škrha, J. (493) 183)

(Ferret)

Vagus; Prostanoid; Prostaglandin; DP receptor; 5-HT₃ receptor; Depolarization; Neurone; Nervous (Kan, K.K.W. (491) 37)

Ferulic acid

Vascular smooth muscle cell; Proliferation; Mitogen-activated protein kinase; Cell cycle regulatory protein; Angiotensin II (Hou, Y.-Z. (499) 85)

FeTMPyP

Peroxonitrite; Diabetes (Nangle, M.R. (502) 143)

Fexofenadine

Terfenadine; Apoptosis; Thymocyte; Mitochondria; Voltage-dependent K⁺ channel (Enomoto, R. (496) 11)

Fibromyalgia

Central sensitisation; GABA (gamma aminobutyric acid); Glutamate receptor antagonist; Muscle pain; Na⁺ channel blockers (Nielsen, A.N. (487) 93)

Fibrosarcoma

5-Aza-2'-deoxycytidine; Paclitaxel; Nitric oxide (NO); iNOS (nitric oxide (NO) synthase, inducible); L929 (Miljkovic, D. (485) 81)

Fibrosis

β -Adrenoceptor; β -Adrenoceptor antagonist; Catecholamine (Brouri, F. (485) 227)

Chymase inhibitor; Lung; Transforming growth factor- β (Sakaguchi, M. (493) 173)

Firing activity

Yohimbine; Na⁺ channel; Vanilloid VR1 receptor; Dorsal root ganglion; Action potential (Dessaint, J. (485) 11)

Fish oil

Polyunsaturated fatty acid; Arrhythmias; Adrenoceptor agonists; Eicosapentaenoic acid; Docosahexaenoic acid (Xiao, Y.-F. (485) 31)

FK419

Platelet glycoprotein IIb/IIIa; Stroke; (Guinea pig); Thrombolysis (Moriguchi, A. (498) 179)

FK614

Nonthiazolidinedione; Insulin sensitizer; *db/db*, mouse; *ob/ob*, mouse; Peroxisome proliferator-activated receptor (PPAR) γ (Minoura, H. (494) 273)

Flavonoid

Quercetin; Osteoblast; Proliferation; Differentiation; Cell cycle (Notoya, M. (485) 89)

GABA; 6-Methylflavone; Benzodiazepine; GABA_A receptor (Hall, B.J. (491) 1)

Cardiac output; Chronotropic; Haemodynamics; N^ω-nitro-L-arginine; Nitric oxide; Regional blood flow (Wang, S. (491) 43)

Benzodiazepine; GABA; Coumestan; Flunitrazepam (Lopes, D.V.S.. (495) 87)

GABAA receptors; NMDA receptors; Patch clamp; Neurotoxicity (Losi, G. (502) 41)

Quercetin; K⁺ conductance; Cl[−] secretion; Colon (Cermak, R. (503) 31)

Flesinoxan

Physiology; Behavior; Animal model; Repeated testing; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 35)

Physiology; Behavior; Anxiety; Animal model; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 45)

Flinders sensitive line rat model

Depression; CRF₁ receptor antagonist; Citalopram; Desipramine, forced swim test; Social interaction test (Overstreet, D.H. (492) 195)

Depression; CRF₁ receptor antagonist SSR125543; Fluoxetine; Desipramine; Social interaction test (Overstreet, D.H. (497) 49)

Flunitrazepam

Benzodiazepine; GABA; Flavonoid; Coumestan (Lopes, D.V.S. (495) 87)

Fluorodeoxyglucose

α_2 -Adrenoceptor knockout; Atipamezole; Dexmedetomidine; ^{18}F FDG (Fagerholm, V. (505) 243)

Fluoroquinolone

Monophasic action potential; QT interval; Torsades de pointes; Atrioventricular block; α_1 -Adrenoceptor stimulation (Chiba, K. (486) 189)

ATP-sensitive K^+ channel; Insulin secretion; Levofloxacin; Gatifloxacin; Temafloxacin (Saraya, A. (497) 111)

Interventricular dispersion of repolarization; Electrically vulnerable period; Phase 3 repolarization (Chiba, K. (502) 117)

Fluoxetine

5-HT (5-hydroxytryptamine, serotonin); Antidepressant; 5-HT $_{1A}$ receptor; 5-HT $_{1B}$ receptor; Microdialysis (Newman, M.E. (486) 25)

Flinders Sensitive Line rat model; Depression; CRF $_1$ receptor antagonist SSR125543; Desipramine; Social interaction test (Overstreet, D.H. (497) 49)

Antidepressant; Hot-plate; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (497) 285)

Perinatal protein malnutrition; Locus coeruleus activity; Prefrontal cortex noradrenaline; Panic disorder (Sodero, A.O. (503) 35)

Fluvoxamine

Milnacipran; Risperidone; Anxiety; Conditioned fear stress; (Mouse) (Miyamoto, J. (504) 97)

Focal adhesion kinase

Lidocaine; Protein kinase C; Hippocampus; (Rat) (Dahmani, S. (489) 55)

Focal ischemia

Ebselen; Oxidative stress; Cerebral infarct; (Rat) (Salom, J.B. (495) 55)

Food

Self-administration; Nicotine; Cocaine; Metabotropic glutamate receptors; MPEP (Tessari, M. (499) 121)

Food intake

Serotonin; Dopamine; Psychostimulant; Antidepressant; Antipsychotic; Obesity; Transgenic (Giorgetti, M. (488) 1)

Opioid receptor antagonist; Nalmefene; Body weight (Chen, R.Z. (495) 63)

CGP35348; GABA $_B$ receptor antagonist; Baclofen; GABA $_B$ (Patel, S.M. (503) 89)

Force–frequency relationship (FFR)

Bay K 8644; Ca^{2+} transient; Intracellular Ca^{2+} concentration; Cyclopiazonic acid; Forskolin; Gingerol; Intracellular Na^+ concentration; L-type Ca^{2+} channel; Na^+ – Ca^{2+} exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Forced swim test

Corticotropin-releasing factor (CRF); Depression; Tail suspension test; R 121919; DMP 696; DMP 904; Antalarmin; (Mouse) (Nielsen, D.M. (499) 135)

Forced swimming test

Antidepressant; Depression; Imipramine (D'Aquila, P.S. (492) 61)

Bupropion; Nomifensine; Dopamine D1 receptor; Dopamine D2 receptor; Antidepressant (Yamada, J. (504) 207)

Forced swimming test in rats

Citalopram; Imipramine; Desipramine; Moclobemide; 5-HT $_{1A}$ /5-HT $_{1B}$ receptor antagonist (Tatarczyńska, E. (487) 133)

Formalin

Clonidine; Guanfacine; Benazoline; Visceral pain; Imidazoline receptor (Sabetkasaie, M. (501) 95)

Nefopam; Histamine; Nociception; Writhing (Girard, Ph. (503) 63)

Formalin test

N^G -nitro-L-arginine methyl ester; d-Phe–Cys–Tyr–d-Trp–Orn–Thr–NH $_2$; Lactoferrin (Hayashida, K.-i. (484) 175)

Synergism; (Mouse); Rofecoxib; Aminoguanidine hydrochloride (Dudhgaonkar, S.P. (492) 117)

Somatostatin; Analgesic effect; Writhing test; Thermal nociception; Diabetic neuropathy (Szolcsányi, J. (498) 103)

Forskolin

Nitrogenic innervation; Mesenteric artery; cAMP; PKA (protein kinase A) (Ferrer, M. (487) 167)

Bay K 8644; Ca^{2+} transient; Intracellular Ca^{2+} concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Gingerol; Intracellular Na^+ concentration; L-type Ca^{2+} channel; Na^+ – Ca^{2+} exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Fos

Morphine withdrawal; Heart; Hypothalamic paraventricular nucleus; Naloxone; Naloxone methiodide (González-Cuello, A. (487) 117)

FR139317

Positive inotropic effect; (Rabbit); Endothelin receptor; Endothelin receptor antagonist; TAK-044 (Yomogida, S.-i. (492) 217)

FR167653

Calreticulin; Endoplasmic reticulum stress; p38 MAP kinase (Yamazaki, T. (484) 147)

FR190997

Antagonism; G-protein coupled receptor; Inositol phosphate; Non-peptide; Mutagenesis (Bellucci, F. (491) 121)

Free radical

Dopamine receptor; Neuroprotection; Oxygen–glucose deprivation; Stroke; Anti-oxidant (Miglio, G. (489) 157)

Pea seedling histaminase; Amine oxidase; Asthmalike reaction; Histamine; Mast cell; Leukocyte (Masini, E. (502) 253)

Free radical scavenger

Serum-deprivation; Endothelial dysfunction; Bradykinin; p38 MAP kinase; Tyrosine kinase (Maeda, Y. (491) 53)

Fruit fly

Pain; Nociception (Manev, H. (491) 207)

Fucosidase

Carbocysteine; Sialidase; Fucosyltransferase; Sialyltransferase; Muc5ac (Ishibashi, Y. (487) 7)

Fucosyltransferase

Carbocisteine; Fucosidase; Sialidase; Sialyltransferase; Muc5ac (Ishibashi, Y. (487) 7)

Fura-2

Ca²⁺ channel; Ca²⁺ entry, capacitative; Myosin light chain kinase; Smooth muscle, airway (Ito, S. (486) 325)

Leukotriene B₄; G-protein coupled receptor; BLT₁; Pharmacology; Calcium (Sabirsh, A. (499) 53)

Fusion protein

Adenosine A₁ receptor; G protein; Allosteric modulation; Constitutive activity; Inverse agonism (Klaasse, E. (499) 91)

G protein

Adenosine A₁ receptor; Fusion protein; Allosteric modulation; Constitutive activity; Inverse agonism (Klaasse, E. (499) 91)

Histamine H₂; Double-null (Fukushima, Y. (502) 243)

G protein, inhibitory

Taste; Receptor; cAMP; MAPK (Ozeck, M. (489) 139)

G protein-coupled receptor

Binding site; Molecular modelling; Nonpeptide antagonists; Site-directed mutagenesis (Meini, S. (488) 61)

MAP kinase; Opioid; Epidermal growth factor receptor; Human embryonic kidney 293 cell; Extracellular signal-regulated kinase (Schulz, R. (500) 487)

G protein-coupled receptor kinase

Adenylyl cyclase; β -Adrenoceptor; Protein kinase; Human myocardial tissue; Hemodynamic load; Left ventricular volume overload (Dzimiri, N. (489) 167)

G-protein

Inflammation; Arthritis; Complete Freund's adjuvant (Cichewicz, D.L. (504) 33)

G_s protein

Dopamine D₁ receptor; Scintillation proximity assay; Clozapine; Haloperidol (Cussac, D. (485) 111)

GABA

6-Methylflavone; Benzodiazepine; Flavonoid; GABA_A receptor (Hall, B.J. (491) 1)

Benzodiazepine; Flavonoid; Coumestan; Flunitrazepam (Lopes, D.V.S. (495) 87)

Polytherapy; Isobolic analysis; EEG; (Rat) (Bouwman, B.M. (495) 119)

Baclofen; Gabapentin (Parker, D.A.S. (495) 137)

Epilepsy; Transporter; Betaine transporter; Astrocyte; *exo*-THPO; Neuron; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

GABA (γ -aminobutyric acid)

Bicarbonate; Dystonia; Movement disorder (Richter, A. (502) 105)

GABA (gamma aminobutyric acid)

Central sensitisation; Fibromyalgia; Glutamate receptor antagonist; Muscle pain; Na⁺ channel blockers (Nielsen, A.N. (487) 93)

GABA receptor

Hippocampus; mIPSC; Rho subunit; TPMPA; CACA (Hartmann, K. (497) 139)

GABA_A receptor

Hyperalgesia, secondary; Gabapentin; Phenobarbital (da Motta, P.G. (483) 233)

GABA; 6-Methylflavone; Benzodiazepine; Flavonoid (Hall, B.J. (491) 1)

Benzodiazepine; Barbiturate; Inhibition; γ -aminobutyric acid; Spontaneous activity; Channel block; Tonic current (Lindquist, C.E.L. (496) 23)

GABA_A receptor complex

TBOB; Neuroactive steroid; Retigabine; Synergy; Isobole method; Molecular model (van Rijn, C.M. (485) 43)

Miltirone; Ethanol withdrawal; Dependence (Mostallino, M.C. (494) 83)

Noncompetitive; Ginkgolide; Picrotoxinin; Two-electrode voltage clamp; *Xenopus* oocyte (Huang, S.H. (494) 131)

Neurosteroid; Ethanol; Gene expression; Pregnancy; Cell culture (Follesa, P. (500) 413)

GABA_B

Anxiety; Anxiolytics (Mombereau, C. (497) 119)

CGP35348; GABA_B receptor antagonist; Food intake; Baclofen (Patel, S.M. (503) 89)

GABA_B receptor

Arylalkylamine; Amino acid; Dipeptide; CGP7930; Allosteric modulation (Urwyler, S. (483) 147)

1,4-Butanediol; ($\pm$)-Baclofen; γ -GHB (γ -hydroxybutyrate); Cross-tolerance (Eckermann, K.A. (484) 259)

GABAA receptors

Flavonoid; NMDA receptors; Patch clamp; Neurotoxicity (Losi, G. (502) 41)

GABA_B receptor antagonist

γ -Hydroxybutyric acid-induced mortality; SCH 50911; DBA (mouse) (Carai, M.A. (503) 77)

CGP35348; Food intake; Baclofen; GABA_B (Patel, S.M. (503) 89)

GABA transmission

Dopamine receptor; Hyperactivity disorder (Floran, B. (498) 97)

GABAergic neuron

Spinal trigeminal nucleus; Microdialysis (Viggiano, A. (496) 87)

Gabapentin

Hyperalgesia, secondary; GABA_A receptor; Phenobarbital (da Motta, P.G. (483) 233)

K⁺ channel; Pinacidil; Apamin; Charybdotoxin; Glibenclamide (Mixcoatl-Zecuatl, T. (484) 201)

GABA; Baclofen (Parker, D.A.S. (495) 137)

Galantamine

Gastrointestinal tract; Acetylcholine; Acetylcholine receptor (Turiiski, V.I. (498) 233)

Purinergic neurotransmission; Vas deferens (Caricati-Neto, A. (503) 191)

Gallotannin

PARG; PARP; GPI 16552; Astrocyte; Cell death (Falsig, J. (497) 7)

Gap junction

Epilepsy; Carbenoxolone; Antiepileptic drug; Carbamazepine; Phenytoin; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Connexin; Cardiomyocyte, rat; TNF α ; MAP-kinase (Salameh, A. (503) 9)

GAP-43 (growth-associated protein-43)

Parkinson's disease; Neuroprotection; AMPA receptor potentiator; LY404187; 6-Hydroxydopamine; MPTP; BDNF (brain-derived neurotrophic factor); (Rat) (O'Neill, M.J. (486) 163)

Garlic

Allicin; Apoptosis; SiHa; HeLa; SW480; L-929 (Oommen, S. (485) 97)

Garlic compound

Oxidative injury; Amyloid- β peptide; Antioxidant defense; Learning; Memory; Alzheimer disease (Pérez-Severiano, F. (489) 197)

Gastric acid secretion

Vanilloid VR1 receptor; Tachykinin; CGRP (Calcitonin gene-related peptide); Glutamate; Central injection; (Rat) (Minowa, S. (486) 317)

Gastric blood flow

Gastric preconditioning; Ischemia–reperfusion; Remote preconditioning; Prostaglandin; Sensory nerve (Brzozowski, T. (499) 201)

Gastric fundus

Polyethylene-glycol-superoxide dismutase; Cu/Zn superoxide dismutase; Diethyldithiocarbamate; 6-Anilino-5,8-quinolinedione; Nitroergic relaxation; (Pig) (De Backer, O. (486) 223)

Gastric fundus, mouse

Photorelaxation; Nitric oxide (NO); *S*-nitrosoglutathione; CuCl₂; Neocuproine; Cuprizone (Ögülcener, N. (485) 269)

Gastric hemorrhage

Salmonella typhi; Mucosal ulceration; Oxyradical; Glutathione; Ofloxacin (Hung, C.-R. (491) 61)

Gastric mucosal lesion, rat

Compound 48/80; Teprenone; Gastric mucus; Neutrophil infiltration; Oxidative stress (Ohta, Y. (487) 223)

Gastric mucus

Compound 48/80; Gastric mucosal lesionrat; Teprenone; Neutrophil infiltration; Oxidative stress (Ohta, Y. (487) 223)

Gastric preconditioning

Ischemia–reperfusion; Gastric blood flow; Remote preconditioning; Prostaglandin; Sensory nerve (Brzozowski, T. (499) 201)

Gastric ulcer

Angiogenesis; bFGF (basic fibroblast growth factor); Dexamethasone; Prostaglandin E₂; VEGF (vascular endothelial growth factor) (Luo, J.C. (485) 275)

Gastrin

Stomach; Vagus; Enteric nervous system; Brainstem; Ghrelin; Leptin (Konturek, P.C. (499) 15)

Gastrin-releasing peptide

RC-3095; Bombesin; Anticancer drug; Behavior; Memory (Roesler, R. (486) 35)

Gastrointestinal tract

Galantamine; Acetylcholine; Acetylcholine receptor (Turiiski, V.I. (498) 233)

Capsaicin; Sensory neurotransmitter; Visceral smooth muscle; Bronchial smooth muscle; Genitourinary tract (Barthó, L. (500) 143)

Green tea; Tea polyphenol; Catechin; (–)-Epigallocatechin gallate (Koo, M.W.L. (500) 177)

Gastrokinetic agent

Muscarinic receptor; Z-338 (Doi, Y. (505) 31)

Gastroprotection

Ulcer; Adrenomedullin; Hepatocyte growth factor; Receptor (Martinez, G. (488) 219)

Gatifloxacin

ATP-sensitive K⁺ channel; Insulin secretion; Fluoroquinolone; Levofloxacin; Temafloxacin (Saraya, A. (497) 111)

GEA 3175

NO (Nitric Oxide); cGMP (cyclic guanosine 3',5'-monophosphate); Calcium; Aggregation; Platelet; SNAP (*S*-nitroso-*N*-acetyl-D,L-penicillamine) (Asplund Persson, A.K. (496) 1)

Gemcitabine

SU5416; Pancreas cancer cell; Endothelial cell; VEGF; Angiogenesis (Bocci, G. (498) 9)

Akt; Apoptosis; Bcl-2; ERK; p53 (Chang, G.-C. (502) 169)

Gender

EDHF (endothelium-derived hyperpolarizing factor); NO (Nitric oxide); Vasoconstriction; Vasodilatation (Wangenstein, R. (486) 281)

Gene

Pharmacogenomics; Drug therapy (Nebert, D.W. (500) 267)

Gene expression

Estrogen; Tamoxifen; Ovariectomy; K⁺ channel; Ca²⁺ channel; (Rat) (Tsang, S.Y. (483) 155)

Cardiovascular disease; Coronary artery; Endothelin; Endothelin receptor; Vasoconstriction (Wackenfors, A. (484) 103)

Alzheimer's disease; Antidepressant; Lymphocyte; Microarray; Mirtazapine (Palotás, A. (497) 247)

Opioid addiction; Opioid peptide; Opioid receptor; Transcription factor (Przewlocki, R. (500) 331)

Neurosteroid; Ethanol; GABA_A receptor; Pregnancy; Cell culture (Follesa, P. (500) 413)

Cardiovascular disease; Coronary artery; Angiotensin II; Receptor; Vasoconstriction (Wackenfors, A. (503) 147)

General anesthetic

Inhalation; Monosynaptic reflex; Nociceptive reflex; Slow ventral root potential; Neonatal spinal cord (Watanabe, I. (496) 71)

Genetic difference

Opioid; Pharmacokinetic; Pharmacodynamic (Bulka, A. (492) 27)

Genetics

Dopamine; Dopamine receptor; *C. elegans*; Behavior (Suo, S. (500) 159)

Genipin

PC12h cell; Neurite outgrowth; Nerve growth factor; Cyclic GMP; Mitogen-activated protein kinase (Yamazaki, M. (488) 35)

Angiogenesis; Antiinflammatory; Inducible nitric oxide synthase; Lipid peroxidation; NO (Nitric oxide) (Koo, H.-J. (495) 201)

Genistein

Celecoxib; Cyclooxygenase-2; Superoxide anion; Respiratory burst; Neutrophil; Protein kinase C (PKC); Ca^{2+} intracellular (Chang-Hui, L. (484) 29)

Receptor-mediated contraction; Cyclic nucleotides; Coronary artery, porcine (Lee, M.Y. (503) 165)

Genitourinary tract

Capsaicin; Sensory neurotransmitter; Visceral smooth muscle; Gastrointestinal tract; Bronchial smooth muscle (Barthó, L. (500) 143)

GFAP (glial fibrillary acidic protein)

D-Amphetamine; Behavioral sensitization; DAT (dopamine transporter); GLT-1 (glutamate transporter-1) (Armstrong, V. (488) 111)

 γ -GHB (γ -hydroxybutyrate)

1,4-Butanediol; ($\pm$)-Baclofen; GABA_B receptor; Cross-tolerance (Eckermann, K.A. (484) 259)

GHB (γ -hydroxybutyrate)

Haloperidol; Dizocilpine; Catalepsy; Synergism (Sevak, R.J. (483) 289)

Cerebral ischemia; Immunohistochemistry; (Rat); Sensory-motor test; Spatial learning (Ottani, A. (485) 183)

Ghrelin

Des-acyl ghrelin; Growth hormone secretagogue receptor; Rat adipocyte; Isoproterenol-induced lipolysis (Muccioli, G. (498) 27)

Stomach; Vagus; Enteric nervous system; Brainstem; Gastrin; Leptin (Konturek, P.C. (499) 15)

Feeding; Orexin/hypocretin; Melanin-concentrating hormone; Neuropeptide B; Neuropeptide W (Xu, Y.-L. (500) 243)

Gingerol

Bay K 8644; Ca^{2+} transient; Intracellular Ca^{2+} concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Intracellular Na^{+} concentration; L-type Ca^{2+} channel; Na^{+} – Ca^{2+} exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Gingival fibroblast

Tranilast; bFGF; Proliferation (Hattori, T. (498) 79)

Ginkgo biloba extract

Natural product; Huperzine A; *s*-(–)-3-*n*-butylphthalide; (–)-Clausenamide (Zhu, X.Z. (500) 221)

Ginkgolide

GABA_A receptor; Noncompetitive; Picrotoxinin; Two-electrode voltage clamp; *Xenopus* oocyte (Huang, S.H. (494) 131)

GL-15 cell

Intermediate-conductance Ca^{2+} -activated K^{+} channel; NPPB; Cl^{-} current; HL-60 cell; Patch clamp recording (Fioretti, B. (497) 1)

Glaucoma

Cannabinoid CB₁ receptor; Anandamide; Receptor binding assay (Lograno, M.D. (494) 55)

Glibenclamide

Gabapentin; K^{+} channel; Pinacidil; Apamin; Charybdotoxin (Mixcoatl-Zecuatl, T. (484) 201)

HypoThalamus; Blood glucose; ATP-sensitive K^{+} channel; Hypoglycemic; Repaglinide (Zhang, Y. (492) 71)

Long-term potentiation; $\text{K}_{\text{ATP}}^{+}$ channel; Hippocampal slice; HMR-1372; 3,5-Dihydroxyphenylglycine (Schröder, U.H. (502) 99)

GLP-1

Antihyperglycemic effect; Dipeptidyl peptidase IV; Insulin; (Rat) (Takasaki, K. (486) 335)

GLT-1 (glutamate transporter-1)

D-Amphetamine; Behavioral sensitization; DAT (dopamine transporter); GFAP (glial fibrillary acidic protein) (Armstrong, V. (488) 111)

Glucagon

Receptor; Binding; Occupancy; Antagonist (Dallas-Yang, Q. (501) 225)

Glucagon like peptide 1

Dipeptidyl peptidase IV; Transgenic animal model; Diabetes (Rolin, B. (494) 283)

Glucagon-like peptide-1

Phosphodiesterase; Type 2 diabetes; Milrinone; Insulin secretion (Degerman, E. (498) 319)

Glucagon-like peptide 2

Biguanide; Dipeptidyl peptidase IV; Intestine (Yamazaki, K. (488) 213)

Glucocorticoid

3-Nitropropionic acid; Huntington's disease; Oxidative stress (Montilla, P. (488) 19)

NSAID; Prostaglandin E₂; TNF α ; Cyclooxygenase; Monocyte (Ulcár, R. (501) 9)

Glucocorticoid receptor

Mood stabilizer; Glucocorticoid receptor-mediated gene transcription; Protein kinase; Inositol; LMCAT cell; Amphetamine (Basta-Kaim, A. (495) 103)

Serotonin; Antisense oligonucleotide; Depression (Islam, A. (502) 213)

Glucocorticoid receptor-mediated gene transcription

Mood stabilizer; Glucocorticoid receptor; Protein kinase; Inositol; LMCAT cell; Amphetamine (Basta-Kaim, A. (495) 103)

Glucocorticoid resistance

Asthma; Histone acetylation/deacetylation; Nuclear factor- κ B (Hayashi, R. (500) 51)

Glucose

GLUT; Insulin; Cognition; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

Insulin; Glucose transporter; Memory; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Nutrient; HypoThalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Alzheimer's disease; Memory; Insulin (Watson, G.S. (490) 97)

Brain; Glucose/energy metabolism; Alzheimer disease; Insulin; Insulin receptor (Hoyer, S. (490) 115)

M40403; Cardiovascular alteration (Di Filippo, C. (497) 65)

Ischemia; Mitochondrion; Trimetazidine; Perfusion (Monteiro, P. (503) 123)

Glucose metabolism

Insulin; Brain; Learning; Cognition; Dementia; Diabetes mellitus; Insulin signalling (Biessels, G.J. (490) 1)

Glucose tolerance

Glucose; Insulin; Glucose transporter; Memory; Attention; Aging; Diabetes; Vagus (Messier, C. (490) 33)

Glucose transporter

Glucose; Insulin; Memory; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Glucose/energy metabolism

Brain; Alzheimer disease; Insulin; Insulin receptor; Glucose (Hoyer, S. (490) 115)

Glucose-6-phosphate dehydrogenase

Dehydroepiandrosterone; Dehydroepiandrosterone sulphate; Angiogenesis; Endothelial cell; Tubulin (Varet, J. (502) 21)

GLUT

Glucose; Insulin; Cognition; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

GLUT1 (glucose transporter1)

Endothelium; Antisense (Park, J.L. (496) 213)

L-glutamate

(–)-Linalool; Hyperalgesia; Carrageenan; Prostaglandin E₂ (Pena, A.T. (497) 279)

Glutamate

Morphine dependence; Excitatory amino acid; Nucleus accumbens; Neurotransmitter; Acamprosate; Riluzole (Sepúlveda, J. (483) 249)

Cerebral ischemia; Dimaprit; Dopamine; Histamine; Striatum (Hamami, G. (484) 167)

Striatum; Motor control; Dopamine (Del Bel, E.A. (485) 175)

Gastric acid secretion; Vanilloid VR1 receptor; Tachykinin; CGRP (Calcitonin gene-related peptide); Central injection; (Rat) (Minowa, S. (486) 317)

MGS0039; Obsessive-compulsive disorder; Marble-burying behavior test (Shimazaki, T. (501) 121)

Glutamate receptor

Ibotenic acid; Thioibotenic acid; mGlu receptor; Group III agonist; Docking; Homology model; Conformational energy (Hermit, M.B. (486) 241)

Diabetes mellitus; Synaptic plasticity; Long-term potentiation (Trudeau, F. (490) 177)

Ibotenic acid; Metabotropic glutamate receptor; Docking; *N*-Hydroxypyrrolazole; Partial agonism (Clausen, R.P. (499) 35)

Glutamate receptor antagonist

Central sensitisation; Fibromyalgia; GABA (gamma aminobutyric acid); Muscle pain; Na⁺ channel blockers (Nielsen, A.N. (487) 93)

Glutamate transporter

Morphine dependence; Morphine withdrawal; dl-threo-β-benzoyloxyaspartate; Conditioned place aversion; Conditioned place preference (Sekiya, Y. (485) 201)

Glutamate uptake and release

MS-153; Contextual fear conditioning; NMDA receptor antagonist; Fear and anxiety (Li, X. (505) 145)

Glutathione

Salmonella typhi; Gastric hemorrhage; Mucosal ulceration; Oxyradical; Ofloxacin (Hung, C.-R. (491) 61)

Nitrosourea; Oxidative stress; Ca²⁺ channel; Intracellular Ca²⁺; Cl[−] channel (Doroshenko, N. (497) 17)

Glutathione peroxidase

Haloperidol; Nicergoline; Glutathione reductase; Superoxide dismutase (Vairetti, M. (505) 121)

Glutathione reductase

Haloperidol; Nicergoline; Glutathione peroxidase; Superoxide dismutase (Vairetti, M. (505) 121)

Glyceryl dinitrate

Aortarot; Endothelium; Glyceryl trinitrate metabolism; Artery relaxation; Tolerance *ex vivo*; NO (nitric oxide) synthase inhibition (de la Lande, I.S. (486) 201)

Glyceryl trinitrate

Tolerance, *ex vivo*; Aldehyde dehydrogenase; Superoxide; Nitric oxide synthase (de la Lande, I.S. (496) 141)

Glyceryl trinitrate metabolism

Aortarot; Endothelium; Glyceryl dinitrate; Artery relaxation; Tolerance *ex vivo*; NO (nitric oxide) synthase inhibition (de la Lande, I.S. (486) 201)

Glycine site

D-Amino acid oxidase; *N*-Methyl-D-aspartate receptor; D-Serine; L-Serine; Serine racemase (Hashimoto, A. (495) 153)

Glycine receptor channel

Pentobarbital; Channel block; Patch-clamp; Ultra-fast application (Mohammadi, B. (489) 151)

Glycogen incorporation

PTP-1B (protein tyrosine phosphatase-1B); 1,2-Naphthoquinone; Deoxyglucose uptake; ob/ob mouse (Cheon, H.G. (485) 333)

Gonadotropin

Hypothyroidism; Thyroid hormone; Thyroxine; Ovarian hormone; Estrous cycle (Hatsuta, M. (486) 343)

GPCR

Cannabinoid; Cannabinoid CB₂ receptor; Species selectivity; Pharmacology (Mukherjee, S. (505) 1)

GPI 16552

PARG; PARP; Gallotannin; Astrocyte; Cell death (Falsig, J. (497) 7)

GPR14

Urotensin-II; UT receptor; SB-710411; Somatostatin (Behm, D.J. (492) 113)

Urotensin-II; UT receptor; *c-fos* (Gartlon, J.E. (493) 95)

G-protein

Inflammation; Arthritis; Complete Freund's adjuvant (Cichewicz, D.L. (504) 33)

G-protein coupled receptor

Antagonism; FR190997; Inositol phosphate; Non-peptide; Mutagenesis (Bellucci, F. (491) 121)

Prostacyclin; Prostanoid IP receptor; Dimerization; Oligomerization; Cysteine (GiguereGiguère, V. (494) 11)

Leukotriene B₄; BLT₁; Fura-2; Pharmacology; Calcium (Sabirsh, A. (499) 53)

K⁺ channels; Antinociception; Opioid; Nonsteroidal Anti-inflammatory drugs; Tricyclic antidepressant (Ocaña, M. (500) 203)

GR125743

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1B} receptor; 5-HT_{1B} antagonist (Ahlgren, C. (499) 67)

GR205171

Tachykinin NK₁ receptor antagonist; Immobilisation stress; Cortex; Dopamine metabolism; Tachykinin NK₁ receptor occupancy; [¹²⁵I]Tyrosine–substance P ex vivo binding (Hutson, P.H. (484) 57)

Green tea

Tea polyphenol; Catechin; (–)-Epigallocatechin gallate; Gastrointestinal tract (Koo, M.W.L. (500) 177)

Group III agonist

Ibotenic acid; Thioibotenic acid; Glutamate receptor; mGlu receptor; Docking; Homology model; Conformational energy (Hermit, M.B. (486) 241)

Growth factor

Bronchial smooth muscle; Rho-kinase (Gosens, R. (494) 73)

Airway smooth muscle; Cytokine stimulation; Microarray; Airway remodelling (Jarai, G. (497) 255)

Growth hormone

Insulin-like growth factor-I; Aging; Cognition (Sytze van Dam, P. (490) 87)

Growth hormone secretagogue receptor

Des-acyl ghrelin; Ghrelin; Rat adipocyte; Isoproterenol-induced lipolysis (Muccioli, G. (498) 27)

GSK3β (Glycogen synthase kinase 3β)

Insulin; Metabolism; Akt; Tau; Ketogenic diet (Bondy, C.A. (490) 25)

Guanfacine

Clonidine; Benazoline; Visceral pain; Formalin; Imidazoline receptor (Sabetkasaie, M. (501) 95)

Guanylate cyclase

Nitric oxide; Paw oedema; Potassium channel; Plasma leakage; Inflammation (Fernandes, D. (501) 209)

Guanylyl cyclase

Nitric oxide (NO); Streptonigrin (Severina, I.S. (483) 127)

(Guinea pig)

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1E} receptor; Cloning; Phylogenetic analysis (Bai, F. (484) 127)

(Rabbit); Verapamil; Dideoxyforskolin; Anthracene-9-carboxylic acid; Stilbene disulphonate (Shuba, L.M. (491) 111)

Amiodarone; Dronedarone; L-NOARG; Nitric oxide; Coronary pressure (Guiraudou, P. (496) 119)

Disodium cromoglycate; Late asthmatic response; Cysteinyl leukotriene; Thromboxane A₂; Eosinophil (Nabe, T. (497) 97)

FK419; Platelet glycoprotein IIb/IIIa; Stroke; Thrombolysis (Moriguchi, A. (498) 179)

Airway hyperresponsiveness; Severe asthma model; Neurokinin NK₃ receptor (Mukaiyama, O. (498) 287)

Na⁺–H⁺ exchange inhibitor; LVDP (Left ventricular developed pressure); ³¹P-NMR (nuclear magnetic resonance); EPR (Electron paramagnetic resonance) spectrometry; Ischemia–reperfusion injury; Apoptosis (Hotta, Y. (503) 109)

Guinea pig

5-HT_{5A} Receptor; Cloning; Transient expression (Thomas, D.R. (494) 91)

TAK-802; Acetylcholinesterase inhibitor; Urodynamics; Bladder (Nagabukuro, H. (494) 225)

GW9662

Shock; PPAR (peroxisome proliferator-activated receptor) (Collin, M. (486) 233)

Peroxisome-proliferator activated receptor-γ; Lipopolysaccharide; Peptidoglycan; (Rat) (Dugo, L. (498) 295)

[³H]Acetylcholine binding

Dendroaspis angusticeps toxins; Muscarinic M₁ receptor; [³⁵S]GTPγS binding; Phosphoinositide hydrolysis; [³H]N-Methyl-scopolamine binding (Olianas, M.C. (487) 65)

[³H]Leucine

U50,488H; Neonatal rat ventricular myocyte; Protein content; Cell size; Adrenoceptor (Wang, G. (498) 53)

[³H]N-Methyl-scopolamine binding

Dendroaspis angusticeps toxins; Muscarinic M₁ receptor; [³⁵S]GTPγS binding; Phosphoinositide hydrolysis; [³H]Acetylcholine binding (Olianas, M.C. (487) 65)

[³H]N-methylscopolamine binding, kinetics of

Muscarinic M₁–M₄ receptor; Eburnamonine; Acetylcholine (Maksay, G. (483) 229)

H₂-receptor

Discriminative stimulus effect; Morphine; Histamine (Mori, T. (491) 169)

HaCaT human keratinocyte

Rutaecarpine; Reactive oxygen species; Matrix metalloproteinase (Beak, S.-M. (498) 19)

Haemodynamics

Cardiac output; Chronotropic; Flavonoid; N^{G} -nitro-L-arginine; Nitric oxide; Regional blood flow (Wang, S. (491) 43)

Haloperidol

GHB (γ -hydroxybutyrate); Dizocilpine; Catalepsy; Synergism (Sevak, R.J. (483) 289)

Dopamine D1 receptor; G_s protein; Scintillation proximity assay; Clozapine (Cussac, D. (485) 111)

Attention; Clozapine; Risperidone; Cognition; Signal detection task (Rezvani, A.H. (486) 175)

Tryptophan depletion; Serotonin; (Rat); Schizophrenia; MK-801 (Bubeniková, V. (502) 109)

Nicergoline; Glutathione reductase; Glutathione peroxidase; Superoxide dismutase (Vairetti, M. (505) 121)

Halothane

Sevoflurane; Nitric oxide (NO); Renal blood flow; Microdialysis (Kusudo, K. (498) 267)

Head-twitch

Delta-9-THC; 5-HTP; 5-HT; Carbidopa; SR 141716A; Ear-scratch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

Heart

Angiotensin II; Superoxide anion; Angiotensin AT_{1A} receptor; Angiotensin AT_{1B} receptor; Aorta (Rahman, M. (485) 243)

Morphine withdrawal; Fos; Hypothalamic paraventricular nucleus; Naloxone; Naloxone methiodide (González-Cuello, A. (487) 117)

Nitric oxide synthase regulation; Oestrogen; Selective oestrogen-receptor modulator; Raloxifene; Cardiac ischaemia (Nemcsik, J. (495) 179)

Heart failure

Endothelin; Hypertension; Hypoxia (Yuyama, H. (496) 129)

Heart, human

Risperidone; Outward potassium current; Action potential (Gluais, P. (497) 215)

Vascular; Remodeling; Capsaicin; Hypertension; Salt (Zeng, Z.-h. (503) 129)

Heat shock protein 70

Prostate; Ischemia–reperfusion injury; Real-time PCR; (Rat) (Saito, M. (487) 199)

HEK-293 cells

Nicotinic acetylcholine receptor; $\alpha 7$ subunit; $\alpha 7/5$ -HT₃ chimera; (Human) (Craig, P.J. (502) 31)

HeLa

Allicin; Apoptosis; SiHa; SW480; L-929; Garlic (Oommen, S. (485) 97)

Helical structure

Binding activity; Chemical synthesis; CD (Circular dichroism); Relaxant activity; VIP (vasoactive intestinal peptide) derivative (Onoue, S. (485) 307)

Heme oxygenase

Biliverdin; Carbon monoxide (CO); Endothelin-1; Pulmonary artery smooth muscle cellhuman; Pulmonary hypertension (Stanford, S.J. (486) 349)

Hemodynamic load

G protein-coupled receptor kinase; Adenylyl cyclase; β -Adrenoceptor; Protein kinase; Human myocardial tissue; Left ventricular volume overload (Dzimiri, N. (489) 167)

Hemodynamic variability

Ethanol; Rilmenidine; α -Methyldopa; Hypotension; Time-domain analysis (El-Mas, M.M. (485) 251)

Hemodynamics

NAD^+ ; Cyclic ADP-ribose; Liver perfusion; Metabolism (Broetto-Biazon, A.C. (484) 291)

Hemopexin

Corticosteroid; Ecto-apyrase; Endothelium; Mesangium; Nephrotic syndrome (Kapoos, J.J. (501) 191)

Hepatic ischemia–reperfusion

Polymorphonuclear leukocyte; Rho kinase inhibitor; Tumor necrosis factor- α ; Interleukin-6 (Kawaguchi, A. (493) 167)

Hepatocyte

Quercetin; Selective growth inhibition; Apoptosis; Antioxidant defense system (Son, Y.-O. (502) 195)

Hepatocyte growth factor

Ulcer; Adrenomedullin; Gastroprotection; Receptor (Martinez, G. (488) 219)

HEP, rat

Alcohol dependence; Alcohol abuse; Saccharin; Taste preference (Terenina-Rigaldie, F. (504) 199)

hERG

Z-338; Terfenadine; Cisapride; CYP inhibition (Furuta, S. (497) 223)

HERG

Alternans; Torsade de Pointes; QT prolongation; Arrhythmia (Fossa, A.A. (486) 209)

Antiarrhythmic agent; I_{Kr} ; QT prolongation; Reverse frequency dependence (Tsujimae, K. (493) 29)

HERG channel

Phosphodiesterase 5; Potassium channel; Sildenafil; Tadalafil; Vardenafil (Dustan Sarazan, R. (502) 163)

hERG K⁺ channel

Electrophysiology; Antimalarial drug; IC₅₀ (Traebert, M. (484) 41)

HERG protein

Long QT syndrome; Iatrogenic disease; Torsades de Pointes; Drug discovery; High-throughput screening (Finlayson, K. (500) 129)

Heroin

Mu-opioid; Morphine; Mu-opioid receptor; MOR-1; MOP (Gilbert, A.-K. (492) 123)

Heroin self-administration

Cannabinoid receptor antagonist; (Rat) (Navarro, M. (501) 235)

20-HETE

Agonist; Antagonist; Middle cerebral artery; Subarachnoid hemorrhage (Yu, M. (486) 297)

Heterodimer

μ -Opioid receptor; CCR5 chemokine receptor; Cross-desensitization (Chen, C. (483) 175)

Hexadecylphosphocholine

Apoptosis; Anticancer (Duijsings, D. (502) 185)

HGF (hepatocyte growth factor)

Pancreatitis; Cyclooxygenase-2; Interleukin-1 β ; Interleukin-10 (Warzecha, Z. (486) 107)

High-throughput screening

Long QT syndrome; Iatrogenic disease; HERG protein; Torsades de Pointes; Drug discovery (Finlayson, K. (500) 129)

Hippocampal slice

Long-term potentiation; K_{ATP}^+ channel; HMR-1372; 3,5-Dihydroxyphenylglycine; Glibenclamide (Schröder, U.H. (502) 99)

Hippocampal slice culture

Wogonin; Oxygen and glucose deprivation; Neuroprotection (Son, D. (493) 99)

Hippocampus

Focal adhesion kinase; Lidocaine; Protein kinase C; (Rat) (Dahmani, S. (489) 55)

GLUT; Glucose; Insulin; Cognition; Diabetes (McEwen, B.S. (490) 13)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Zinc; BDNF; Cortex (Nowak, G. (492) 57)

Aripiprazole; Antipsychotic; Dopamine; Serotonin; Prefrontal cortex (Li, Z. (493) 75)

Stress; Acetylcholine; Corticosterone; Benzodiazepine; Buspirone; Microdialysis (Degroot, A. (493) 103)

AM404; Excitatory synaptic transmission; *N*-acetyl ethanolamide; CB $_1$ receptor; Cannabinoid (Kelley, B.G. (496) 33)

mIPSC; GABA receptor; Rho subunit; TPMPA; CACA (Hartmann, K. (497) 139)

Histamine

Cerebral ischemia; Dimaprit; Dopamine; Glutamate; Striatum (Hamami, G. (484) 167)

Sphingosine 1-phosphate; Protein kinase C; p38 MAPK; Adhesion molecule; Endothelial cell; (Human) (Shimamura, K. (486) 141)

Discriminative stimulus effect; Morphine; H $_2$ -receptor (Mori, T. (491) 169)

Cough; Allergic, dog (House, A. (492) 251)

Pea seedling histaminase; Amine oxidase; Asthmalike reaction; Mast cell; Leukocyte; Free radical (Masini, E. (502) 253)

Nefopam; Nociception; Writhing; Formalin (Girard, P. (503) 63)

Histamine H $_1$ receptor

Histaprodifen; Mutational analysis; Agonist binding site; Antagonist binding site (Bruysters, M. (487) 55)

Histamine H $_2$

G protein; Double-null (Fukushima, Y. (502) 243)

Histamine H $_3$ receptor

Nasal mucosa, human; Sympathetic; Taqman (Varty, L.M. (484) 83)

Histamine H $_3$ receptor antagonist

Antiobesity; Magnetic resonance imaging (Hancock, A.A. (487) 183)

Histamine sensitisation

Pertussis toxin; Trachea; Small mesenteric resistance arteries; (Rat); (Mouse) (van Meijeren, C.E. (488) 127)

Pertussis toxin; Small mesenteric resistance artery; Nitric oxide synthase (van Meijeren, C.E. (493) 139)

Histaprodifen

Mutational analysis; Histamine H $_1$ receptor; Agonist binding site; Antagonist binding site (Bruysters, M. (487) 55)

Histone acetylation/deacetylation

Asthma; Glucocorticoid resistance; Nuclear factor- κ B (Hayashi, R. (500) 51)

HL-60 cell

Intermediate-conductance Ca^{2+} -activated K^+ channel; NPPB; Cl^- current; GL-15 cell; Patch clamp recording (Fioretti, B. (497) 1)

HMA (5-(*N,N*-hexamethylene)-amiloride)

Apoptosis; JNK; c-Jun; p53; p21^{*WAF1/CIP1*} (Suzuki, T. (503) 1)

HMG-CoA reductase

Organic anion transporter; Skeletal muscle; Rhabdomyolysis; Transport (Takeda, M. (483) 133)

HMR-1372

Long-term potentiation; K_{ATP}^+ channel; Hippocampal slice; 3,5-Dihydroxyphenylglycine; Glibenclamide (Schröder, U.H. (502) 99)

Hole-board

Nociceptin; Nocistatin; Anxiogenic effect; Anxiolytic effect; 5-HT $_{1A}$ receptor (Kamei, J. (489) 77)

Homology model

Ibotenic acid; Thioibotenic acid; Glutamate receptor; mGlu receptor; Group III agonist; Docking; Conformational energy (Hermit, M.B. (486) 241)

Homovanillic acid

Nucleus accumbens; 3,4-Dihydroxyphenylacetic acid; Ventral tegmental area (Yang, S.-C. (494) 179)

Host response

Meningitis; *Streptococcus pneumoniae*; NF-kappaB1; NF-kappaB p50 subunit (Kastenbauer, S. (498) 315)

Hot-plate

Writhing test; Migraine-like model; Bradykinin; Rat; Sumatriptan (Ottani, A. (497) 181)

Antidepressant; Fluoxetine; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (497) 285)

HPLC

α_2 -Adrenoceptor antagonist; Desipramine; DOPAC; Microdialysis; (Rat) (Devoto, P. (487) 105)

Insulin; Tryptophan; (Mouse); β -Adrenoceptor (Lenard, N.R. (497) 105)

5-HT

Delta-9-THC; 5-HTP; Carbidopa; SR 141716A; Head-twitch; Ear-scratch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

Zona incerta; 5-HT₇ receptor; 5-Carboxamidotryptamine; Ritanserin; SB-269970-A (Siddiqui, A. (491) 77)

Antinociception; 5-HT receptor subtype; Intrathecal; (Rat) (Jeong, C.Y. (502) 205)

 $\alpha 7/5$ -HT3 chimera

Nicotinic acetylcholine receptor; $\alpha 7$ subunit; HEK-293 cells; (Human) (Craig, P.J. (502) 31)

5-HT (5-hydroxytryptamine, serotonin)

Prefrontal cortex; Striatum; Dopamine; Antipsychotic; Schizophrenia (Jordan, S. (483) 45)

5-HT₃ receptor; 2-Methylserotonin; Writhing; Pain; Sensitization (Giordano, J. (483) 267)

5-HT_{1E} receptor; Cloning; Phylogenetic analysis; (Guinea pig) (Bai, F. (484) 127)

Monoamine; Microdialysis; Morphine; Neuropathic pain (Sounvoravong, S. (484) 217)

Antidepressant; Fluoxetine; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Microdialysis (Newman, M.E. (486) 25)

Insulin; Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

5-HT_{1B} receptor; 5-HT_{1B} antagonist; GR125743 (Ahlgren, C. (499) 67)

5-HT (5-hydroxytryptamine, serotonin) release

Sibutramine; Dosulepin; Microdialysis; Dopamine release; Carrier-mediated (Ukai, K. (484) 209)

5-HT autoreceptor

5-HT_{1B} receptor; 5-HT_{1D} receptor; Neurotransmitter release; Selective serotonin re-uptake inhibitor; Antidepressant (Pullar, I.A. (493) 85)

5-HT₇ receptor

Inverse agonism; Constitutive activity; SB-2587 19; SB-259741; SB-269970 (Mahé, C. (495) 97)

5-HT receptor antagonist

S-(+)-ketoprofen; Antinociception; Tropicisetron; Methiothepin (Díaz-Reval, M.I. (483) 241)

5-HT receptor subtype

Antinociception; 5-HT; Intrathecal; (Rat) (Jeong, C.Y. (502) 205)

Serotonin; Spinal reflex (Honda, M. (503) 55)

5-HT_{1A}

Anxiety; Predator stress; SSRI; Vilazodone (Adamec, R. (504) 65)

5-HT_{1A} receptor

5-HT (5-hydroxytryptamine, serotonin); Antidepressant; Fluoxetine; 5-HT_{1B} receptor; Microdialysis (Newman, M.E. (486) 25)

Nociceptin; Nocistatin; Anxiogenic effect; Anxiolytic effect; Hole-board (Kamei, J. (489) 77)

Serotonin; α_2 -Adrenoceptor; Mydriasis; Miosis; Pupil (Yu, Y. (489) 207)

Colorectal distension; Visceral pain; Anti-nociception; Buspirone (Sivarao, D.V. (494) 23)

Physiology; Behavior; Animal model; Flesinoxan; Repeated testing (Bouwknicht, J.A. (494) 35)

Physiology; Behavior; Anxiety; Animal model; Flesinoxan (Bouwknicht, J.A. (494) 45)

Guinea pig; Cloning; Transient expression (Thomas, D.R. (494) 91)

5-HT_{1A}/5-HT_{1B} receptor antagonist

Citalopram; Imipramine; Desipramine; Moclobemide; Forced swimming test in rats (Tatarczyńska, E. (487) 133)

5-HT_{1B} antagonist

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1B} receptor; GR125743 (Ahlgren, C. (499) 67)

5-HT_{1B} receptor

5-HT (5-hydroxytryptamine, serotonin); Antidepressant; Fluoxetine; 5-HT_{1A} receptor; Microdialysis (Newman, M.E. (486) 25)

5-HT autoreceptor; 5-HT_{1D} receptor; Neurotransmitter release; Selective serotonin re-uptake inhibitor; Antidepressant (Pullar, I.A. (493) 85)

Serotonin; Exercise-induced cardiac ischemia; 5-HT_{2A} receptor; SL65.0472; Ketanserin (Guilbert, F. (497) 55)

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1B} antagonist; GR125743 (Ahlgren, C. (499) 67)

5-HT_{1D} receptor

5-HT autoreceptor; 5-HT_{1B} receptor; Neurotransmitter release; Selective serotonin re-uptake inhibitor; Antidepressant (Pullar, I.A. (493) 85)

5-HT_{1E} receptor

5-HT (5-hydroxytryptamine, serotonin); Cloning; Phylogenetic analysis; (Guinea pig) (Bai, F. (484) 127)

5-HT_{1F}

Barostat; Proximal stomach; Sumatriptan; Retching (Janssen, P. (492) 259)

5-HT_{2A} receptor

Serotonin; Exercise-induced cardiac ischemia; 5-HT_{1B} receptor; SL65.0472; Ketanserin (Guilbert, F. (497) 55)

5-HT_{2A} receptor antagonist

Anxiety; Predator stress (Adamec, R. (504) 79)

5-HT₃ receptor

5-HT (5-hydroxytryptamine, serotonin); 2-Methylserotonin; Writhing; Pain; Sensitization (Giordano, J. (483) 267)

Vagus; Prostanoid; Prostaglandin; DP receptor; Depolarization; Neurone; Nervous; (Ferret) (Kan, K.K.W. (491) 37)

Alcoholism; Naltrexone; Opioid receptor (Mhatre, M. (491) 149)

α_2 -Adrenoceptor; MD-354 (*m*-chlorophenylguanidine); Antinociception; In vitro and in vivo model (Wesolowska, A. (495) 129)

5-HT₇ receptor

Hypotension; 5-Hydroxytryptamine; 5-HT_{2B} receptor; BW723C86; SB-269970 (Centuri n, D. (502) 239)

5-HT₇ receptor

5-HT; Zona incerta; 5-Carboxamidotryptamine; Ritanserin; SB-269970-A (Siddiqui, A. (491) 77)

5-HT_{1A}

Anxiety; Predator stress; SSRI; Vilazodone (Adamec, R. (504) 65)

5-HT_{2B} receptor

Hypotension; 5-Hydroxytryptamine; 5-HT₇ receptor; BW723C86; SB-269970 (Centuri n, D. (502) 239)

5-HTP

Delta-9-THC; 5-HT; Carbidopa; SR 141716A; Head-twitch; Ear-scratch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

5-hydroxytryptamine

Antidepressant; *Arc* (activity-regulated cytoskeletal associated protein); SNRI (selective 5-HT/noradrenaline reuptake inhibitor); Neuroplasticity (Pei, Q. (495) 227)

Hypotension; 5-HT₇ receptor; 5-HT_{2B} receptor; BW723C86; SB-269970 (Centuri n, D. (502) 239)

(Human)

Sphingosine 1-phosphate; Histamine; Protein kinase C; p38 MAPK; Adhesion molecule; Endothelial cell (Shimamura, K. (486) 141)

Opioid dependence; Opioid withdrawal; Naloxone; Isradipine; Dextromethorphan; Drug discrimination (Oliveto, A. (491) 157)

Tachykinins; Tachykinin receptors; mRNA expression; Peripheral airways (Pinto, F.M. (494) 233)

Nicotinic acetylcholine receptor; $\alpha 7$ subunit; $\alpha 7/5$ -HT₃ chimera; HEK-293 cells (Craig, P.J. (502) 31)

Human β -cell

Y-26763; K_{ATP} channel; Insulin secretion; NES2Y (Cosgrove, K.E. (486) 133)

Human embryonic kidney 293 cell

MAP kinase; Opioid; Epidermal growth factor receptor; Extracellular signal-regulated kinase; G protein-coupled receptor (Schulz, R. (500) 487)

Human endothelial cell

Ursodeoxycholic acid; Endothelin-1; Nitric oxide; Real-time RT-PCR (Ma, J. (505) 67)

Human heart

Skinned fibre; Ouabain; Caffeine; Ryanodine channel (Hambarchian, N. (492) 225)

Human monocyte

Tumor necrosis factor- α ; Nuclear factor- κ B; Rofecoxib; Indomethacin; Dexamethasone (Lavagno, L. (501) 199)

Human myocardial tissue

G protein-coupled receptor kinase; Adenylyl cyclase; β -Adrenoceptor; Protein kinase; Hemodynamic load; Left ventricular volume overload (Dzimiri, N. (489) 167)

Human, prostate

Bradykinin; Prostate stromal cell; Prostate epithelial cell (Srinivasan, D. (504) 155)

Human Proteome Organization

Proteomics; Neuroscience; Neuropharmacology; Alzheimer's disease; Schizophrenia (Vercauteren, F.G.G. (500) 385)

Human pulmonary arteries

Arachidonic acid; Cyclooxygenase; Cytochrome P450; NO (Nitric oxide); K⁺ channels (Guerard, P. (501) 127)

Human umbilical vein

Isoprostane; Prostanoid TP receptor; Vasoconstriction (Daray, F.M. (499) 189)

Human vascular neuroeffector junction

Sympathetic neurotransmission; Co-transmission; ATP and purinergic mechanism; Noradrenaline and vasoconstriction; Neuropeptide Y modulation (Pablo Huidobro-Toro, J. (500) 27)

Huntington's disease

3-Nitropropionic acid; Oxidative stress; Glucocorticoid (Montilla, P. (488) 19)

Nicotine; 3-Nitropropionic acid; Oxidative stress (T nez, I. (504) 169)

Huperzine A

Natural product; *s*-($-$)-3-*n*-butylphthalide; ($-$)-Clausenamide; *Ginkgo biloba* extract (Zhu, X.Z. (500) 221)

HUVEC (human umbilical vein endothelial cell)

Hydrogen peroxide; Ebselen; p38 MAP (mitogen-activated protein) kinase; Apoptosis (Ali, N. (485) 127)

(1*R*,9*S*)- β -Hydrastine

l-DOPA (l-3,4-dihydroxyphenylalanine); Cytotoxicity; PC12 cell; Apoptosis (Yin, S.Y. (488) 71)

Hydrogen peroxide

Neuroblastoma cell; Protein kinase B; MAP (mitogen-activated protein) kinase (Ruffels, J. (483) 163)

Ebselen; p38 MAP (mitogen-activated protein) kinase; Apoptosis; HUVEC (human umbilical vein endothelial cell) (Ali, N. (485) 127)

Antioxidant activity; Non-steroidal anti-inflammatory drug; Hydroxyl radical; Hypochlorous acid (Van Antwerpen, P. (496) 55)

γ -Hydroxybutyric acid (GHB)

CGP7930; Positive allosteric modulation of GABA_B receptor; Baclofen; SCH 50911; DBA, mouse (Carai, M.A.M. (504) 213)

γ -Hydroxybutyric acid-induced mortality

GABAB receptor antagonist; SCH 50911; DBA (mouse) (Carai, M.A. (503) 77)

6-Hydroxydopamine

Parkinson's disease; Neuroprotection; AMPA receptor potentiator; LY404187; MPTP; GAP-43 (growth-associated protein-43); BDNF (brain-derived neurotrophic factor); (Rat) (O'Neill, M.J. (486) 163)

Hydroxyl radical

Antioxidant activity; Non-steroidal anti-inflammatory drug; Hydrogen peroxide; Hypochlorous acid (Van Antwerpen, P. (496) 55)

Aortic ring; Contraction; Vascular smooth muscle; Signal transduction pathway (Li, J. (499) 171)

11 β -Hydroxylase activity

Zona fasciculata-reticularis cells; *S*-petasin; P450sec activity; Steroidogenic acute regulatory protein expression (Chang, L.-L. (489) 29)

4-Hydroxy-2-nonenal

Resveratrol; Antioxidant; Cardiomyocyte; Reactive oxygen species; Doxorubicin (Cao, Z. (489) 39)

Hydroxyproline

Erdosteine; Bleomycin; Lung fibrosis; Myeloperoxidase (Sogut, S. (494) 213)

Hyperactivity disorder

Dopamine receptor; GABA transmission (Floran, B. (498) 97)

Hyperalgesia

Lipoxygenase; Opioid tolerance; Spinal, rat (Trang, T. (491) 21)

Cyclooxygenase isoform; Nonsteroidal anti-inflammatory drug; Parecoxib; Ketorolac (Padi, S.S.V. (491) 69)

Riboflavin; Allodynia; B vitamin (Granados-Soto, V. (492) 35)

Articular incapacitation; Analgesia; Arthritic pain; IRL 1620; Endothelin receptor (Daher, J.B. (496) 77)

Leukotrienes; Arthritis; Zymosan; Neutrophils; Pain (da Rocha, F.A.C. (497) 81)

(–)-Linalool; Carrageenan; L-glutamate; Prostaglandin E₂ (Peana, A.T. (497) 279)

TRPV1; Vanilloid (Holzer, P. (500) 231)

P2X receptors; Pain; Inflammation; Peripheral sensitization; Mechanosensitivity (Wu, G. (504) 45)

Inflammation; TENS; Carrageenan; Opioid; Electrotherapy (Resende, M.A. (504) 217)

Hyperalgesia, secondary

GABA_A receptor; Gabapentin; Phenobarbital (da Motta, P.G. (483) 233)

Hypercalcemia

22-Oxacalcitriol; Osteoporosis; Chronotherapy (Tsuruoka, S. (488) 239)

Hypercholesterolemia

Benzenesulfonate; Familial combined hyperlipidemia; Lipoprotein (Masana, L. (496) 205)

Renal artery; Endothelium-derived hyperpolarizing factor; Pioglitazone (Moroe, H. (497) 317)

Hyperglycemia

CNS complication; Type 1 and type 2 diabetes; Insulin; C-peptide (Sima, A.A.F. (490) 187)

Hypertension

Autonomic nervous system; Neonatal, rat; Spinal cord (Peng, S.-C. (492) 49)

Endothelin-1; ET_B receptor; Chronic renal failure; Renal mass reduction (Okada, Y. (494) 63)

Aorta; Mesenteric vascular bed; Chelerythrine; Calphostin C (Fatehi-Hassanabad, Z. (494) 199)

Endothelin; Heart failure; Hypoxia (Yuyama, H. (496) 129)

α_{1D} -Adrenoceptor; Receptor phosphorylation; Vascular tone (García-Sáinz, J.A. (500) 113)

ClC-5 Cl[–] channel; Proteinuria; Angiotensin-converting enzyme; Perindopril (Tanaka, K. (501) 185)

Vascular; Remodeling; Capsaicin; Salt; Heart (Zeng, Z.-h. (503) 129)

Hyperthermia

Vascular reactivity; (Rat); Portal vein; Acidosis; Norepinephrine; Angiotensin (Pastor, C.M. (494) 191)

3,4-Methylenedioxymethamphetamine; Ecstasy; Neurotoxicity; Serotonin; Body temperature (Green, A.R. (500) 3)

Hyperthyroidism, acute

Adrenoceptor; Muscarinic receptor; Renal artery; Femoral artery (Iwata, T. (493) 191)

Hypochlorous acid

Antioxidant activity; Non-steroidal anti-inflammatory drug; Hydroxyl radical; Hydrogen peroxide (Van Antwerpen, P. (496) 55)

Hypoglycaemia

Type 1 diabetes; Diabetic encephalopathy; Cognition; Insulin; Cerebrovascular alteration (Brands, A.M.A. (490) 159)

Hypoglycemia

Cerebral glucose metabolism; Diabetes mellitus (McCall, A.L. (490) 147)

Hypoglycemic

HypoThalamus; Blood glucose; ATP-sensitive K⁺ channel; Glibenclamide; Repaglinide (Zhang, Y. (492) 71)

Hypolipidemic

Antidiabetic; Insulin sensitizer; Peroxisome proliferators-activated receptor (PPAR) (Chakrabarti, R. (491) 195)

Hypotension

Ethanol; Rilmenidine; α -Methyldopa; Hemodynamic variability; Time-domain analysis (El-Mas, M.M. (485) 251)

5-Hydroxytryptamine; 5-HT₇ receptor; 5-HT_{2B} receptor; BW723C86; SB-269970 (Centurión, D. (502) 239)

Hypothalamic paraventricular nucleus

Morphine withdrawal; Fos; Heart; Naloxone; Naloxone methiodide (González-Cuello, A. (487) 117)

HypoThalamus

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Blood glucose; ATP-sensitive K⁺ channel; Hypoglycemic; Glibenclamide; Repaglinide (Zhang, Y. (492) 71)

Adiponectin; Resistin; Dopamine; Norepinephrine; Serotonin (Brunetti, L. (493) 41)

Hypothermia

Thermoregulation; Serotonin; In vivo; Knockout, mouse (Hedlund, P.B. (487) 125)

Morphine tolerance; Phosphatidylinositol cascade; Adenylyl cyclase cascade; Analgesia; (Mouse) (Javed, R.R. (492) 149)

Hypothyroidism

Thyroid hormone; Thyroxine; Ovarian hormone; Gonadotropin; Estrous cycle (Hatsuta, M. (486) 343)

Hypoxia

Endothelin; Heart failure; Hypertension (Yuyama, H. (496) 129)

mGlu5 knockout; Reactive oxygen species (Storto, M. (497) 25)

Hypoxia/re-oxygenation

Apoptosis; Ca^{2+} ; Cytochrome *c*; Caspase-3; Na^+/H^+ exchanger (Sun, H.-Y. (486) 121)

I.v. infusion

Vitamin B₂; Proinflammatory cytokine; Nitric oxide (Toyosawa, T. (492) 273)

I_{Kr}

Antiarrhythmic agent; HERG; QT prolongation; Reverse frequency dependence (Tsujimae, K. (493) 29)

[¹²⁵I]-A-312110

K_{ATP} channel; SUR2B; Cell line, stable; Urinary bladder; K⁺ channel opener (Scott, V.E. (483) 195)

Iatrogenic disease

Long QT syndrome; HERG protein; Torsades de Pointes; Drug discovery; High-throughput screening (Finlayson, K. (500) 129)

Iberiotoxin-sensitive

Diosgenin; Porcine coronary artery; Oestrogen receptor; Ca^{2+} -activated K⁺ (BK_{Ca}) channel (Au, A.L.S. (502) 123)

Ibogaine

18-Methoxycoronaridine; Nicotinic receptor; N-methyl-d-aspartate receptor; Addiction (Pace, C.J. (492) 159)

Ibotenic acid

Thioibotenic acid; Glutamate receptor; mGlu receptor; Group III agonist; Docking; Homology model; Conformational energy (Hermit, M.B. (486) 241)

Glutamate receptor; Metabotropic glutamate receptor; Docking; *N*-Hydroxypyrazole; Partial agonism (Clausen, R.P. (499) 35)

Ibuprofen

NSAID; Rofecoxib; bFGF expression; VEGF expression; Apoptosis; Proliferation (Sánchez-Fidalgo, S. (505) 187)

IC₅₀

hERG K⁺ channel; Electrophysiology; Antimalarial drug (Traebert, M. (484) 41)

ICAM-1 (intercellular adhesion molecule-1)

PPAR (peroxisome proliferator-activated receptor); Rosiglitazone; Inflammation, acute; iNOS (nitric oxide synthase inducible); Cyclooxygenase-2 (Cuzzocrea, S. (483) 79)

Icariin

Icaritin; Desmethylicaritin; Phytoestrogen; Estrogenic activity; Cell cycle analysis; S phase; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)

Icaritin

Icariin; Desmethylicaritin; Phytoestrogen; Estrogenic activity; Cell cycle analysis; S phase; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)

Ifenprodil

N-Methyl-D-aspartate receptor; Amino terminal domain; Modulation; Polyamine; Zinc (Herin, G.A. (500) 101)

IGF-I receptor

Chlorambucil; Collagen biosynthesis; Prolidase; β_1 -integrins; MCF-7 (Sienkiewicz, P. (492) 95)

Ileum mouse

β_3 -Adrenoceptor; Stereoselectivity; Cloned receptor; (Popp, B.D. (484) 323)

Imidazoline receptor

Ryanodine; KU14R; β -Carboline; Insulin secretion; Islets of Langerhans (Squires, P.E. (501) 31)

Clonidine; Guanfacine; Benazoline; Visceral pain; Formalin (Sabetkasaie, M. (501) 95)

Imipramine

Citalopram; Desipramine; Moclobemide; 5-HT_{1A}/5-HT_{1B} receptor antagonist; Forced swimming test in rats (Tatarczyńska, E. (487) 133)

Antidepressant; Depression; Forced swimming test (D'Aquila, P.S. (492) 61)

Immediate early gene

c-fos; Striatum; Caudate; Acetylcholine; Dopamine D1 receptor (Wirtshafter, D. (488) 85)

Immobilisation stress

Tachykinin NK₁ receptor antagonist; GR205171; Cortex; Dopamine metabolism; Tachykinin NK₁ receptor occupancy; [¹²⁵I]Tyrosine–substance P ex vivo binding (Hutson, P.H. (484) 57)

Immune complex

Syk; Bone marrow-derived dendritic cell; Fc γ receptor; Antigen internalization; Antigen presentation (Nakashima, K. (505) 223)

Immune inflammation

TNF- α ; Arthritis; Neutrophil; Pentoxifylline; Thalidomide (Bombini, G. (496) 197)

Immune system

Opioid; 4,5-Epoxy-morphinans; Cell proliferation; Structure–effect relationship (Hutchinson, M.R. (494) 251)

Immunity

Cocaine sensitization; Locomotor hyperactivity; Cytokine; Splenocyte proliferation; Interferon- γ (Kubera, M. (483) 309)

Immunohistochemistry

Cerebral ischemia; GHB (γ -hydroxybutyrate); (Rat); Sensory-motor test; Spatial learning (Ottani, A. (485) 183)

Prejunctional adenosine receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Noradrenaline release; Tail artery; rat (Diniz, C. (504) 17)

Implantation

Cannabinoid; CB₁ receptor; Endocannabinoid-CB receptor system; Development; Failure-to-thrive (Fride, E. (500) 289)

In vivo

Thermoregulation; Hypothermia; Serotonin; Knockout(mouse) (Hedlund, P.B. (487) 125)

In vivo intracerebral microdialysis

Substance P (neurokinin 1) receptor; Serotonin (5-HT) transporter; Knock-out, mice (David, D.J. (492) 41)

In vivo microdialysis

Serotonin; Noradrenaline; Dopamine; Reboxetine; Lithium carbonate (Kitaichi, Y. (489) 187)

Nicotine; Dopamine release; Dopamine autoreceptor; Ventral tegmental area; Nucleus accumbens (Rahman, S. (494) 31)

Nicotine; Epibatidine; Dopamine; Caudate-putamen; Nucleus accumbens (Janhunen, S. (494) 167)

In vitro and in vivo model

α_2 -Adrenoceptor; 5-HT₃ receptor; MD-354 (*m*-chlorophenylguanidine); Antinociception (Wesolowska, A. (495) 129)

Individual variability

Maternal stress; Adolescence; MDMA; Pharmacokinetics; Behaviour (Morley-Fletcher, S. (489) 89)

Indomethacin

Emesis; Cisplatin; Dexamethasone; (Pigeon) (Tanihata, S. (484) 311)

DFU; Nimesulide; Myometrium; Ductus arteriosus (Karadas, B. (485) 289)

Corpus cavernosum relaxation; Cholestasis; Acetylcholine; Nitric oxide; (Rat) (Dehghani, M. (496) 181)

Human monocyte; Tumor necrosis factor- α ; Nuclear factor- κ B; Rofecoxib; Dexamethasone (Lavagno, L. (501) 199)

PIFIR model; Antinociception; Nitric oxide; (Rat) (Ventura-Martínez, R. (503) 43)

Inducible cAMP early repressor

Lithium chloride; NO (Nitric oxide); Stress axis; c-Fos (Jahng, J.W. (489) 111)

Inducible nitric oxide synthase

L-NIL (*N*-iminoethyl-L-lysine); L-arginine; Atherosclerosis; (Rabbit); Superoxide anion (Simonet, S. (492) 211)

Angiogenesis; Antiinflammatory; Genipin; Lipid peroxidation; NO (Nitric oxide) (Koo, H.-J. (495) 201)

Melatonin; Macrophage; Nitric oxide; Nuclear factor κ B (Zhang, S. (501) 25)

Infarct size

Arrhythmias; Carbachol; Preconditioning; Trimetazidine (Kara, A.F. (503) 135)

Infarction

β -Adrenoreceptor antagonists; Preconditioning (Iliodromitis, E.K. (499) 163)

Inflammation

Interleukin-1; Vasopressin; Prostaglandin (Sigal, F.-B. (485) 53)

Neutrophil; CC chemokine; Colitis; TNBS (Ajuebor, M.N. (497) 343)

Cigarette smoke; Lung, mouse (Castro, P. (498) 279)

NMDA; Joint; Nitric oxide; CGRP; CAM kinase (Lawand, N.B. (499) 155)

Interleukin-18; Interleukin-1 β ; Interleukin-18 binding protein; Caspase-1 (Mühl, H. (500) 63)

Capsaicin; Primary sensory neuron; Brain; Viscera; Pain (Nagy, I. (500) 351)

Sickness behaviour; Cytokines; Brain; Afferent nerve; Pain; Sleep; Learning and memory (Dantzer, R. (500) 399)

Airways; Asthma; Neurotrophin; NGF (nerve growth factor); Lung (Frossard, N. (500) 453)

Nitric oxide; Paw oedema; Potassium channel; Guanylate cyclase; Plasma leakage (Fernandes, D. (501) 209)

G-protein; Arthritis; Complete Freund's adjuvant (Cichewicz, D.L. (504) 33)

P2X receptors; Pain; Hyperalgesia; Peripheral sensitization; Mechanosensitivity (Wu, G. (504) 45)

Hyperalgesia; TENS; Carrageenan; Opioid; Electrotherapy (Resende, M.A. (504) 217)

Minocycline; Neuroprotection; Mitochondria (Cornet, S. (505) 111)

Inflammation, acute

PPAR (peroxisome proliferator-activated receptor); Rosiglitazone; iNOS (nitric oxide synthase inducible); Cyclooxygenase-2; ICAM-1 (intercellular adhesion molecule-1) (Cuzzocrea, S. (483) 79)

Inflammatory bowel disease

TNBS; Tumour necrosis factor- α ; Interferon- γ ; Interleukin-10; Myeloperoxidase (Stasi, M.A. (494) 263)

Inflammatory cytokine

Neutrophil; Pulmonary edema; Bronchoalveolar lavage fluid (Jian, M.-Y. (488) 231)

Inflammatory pain

Cyclooxygenase; Ketorolac; Tramadol; Synergism (López-Muñoz, F.J. (484) 157)

Ingestive behavior

Appetite; Cannabinoid CB₁ receptor; Conditioned taste aversion; Intracranial self-stimulation; Locomotor activity; Operant behavior; (Rat) (De Vry, J. (483) 55)

Inhalation

General anesthetic; Monosynaptic reflex; Nociceptive reflex; Slow ventral root potential; Neonatal spinal cord (Watanabe, I. (496) 71)

Inhibition

GABA_A receptor; Benzodiazepine; Barbiturate; γ -aminobutyric acid; Spontaneous activity; Channel block; Tonic current (Lindquist, C.E.L. (496) 23)

Inhibitor

Angiotensin II; Chymase; Transforming growth factor- β (Takai, S. (501) 1)

iNOS

Triptolide; NO (Nitric oxide); NF- κ B; JNK (Kim, Y.-H. (494) 1)

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; Peroxynitrite (Whittle, B.J.R. (500) 427)

iNOS (inducible nitric oxide synthase)

Expression; Signal transduction; Pathway; Promoter; Transcription factor; mRNA stability; RNA binding; Protein (Kleinert, H. (500) 255)

iNOS (nitric oxide (NO) synthase, inducible)

Methylguanidine; Carrageenan-induced inflammation; TNF- α (tumor necrosis factor- α); Reactive oxygen specie; Cyclooxygenase-2 (Marzocco, S. (484) 341)

5-Aza-2'-deoxycytidine; Paclitaxel; Nitric oxide (NO); L929; Fibrosarcoma (Miljkovic, D. (485) 81)

iNOS (nitric oxide synthase inducible)

PPAR (peroxisome proliferator-activated receptor); Rosiglitazone; Inflammation, acute; Cyclooxygenase-2; ICAM-1 (intercellular adhesion molecule-1) (Cuzzocrea, S. (483) 79)

Inositol

Mood stabilizer; Glucocorticoid receptor-mediated gene transcription; Glucocorticoid receptor; Protein kinase; LMCAT cell; Amphetamine (Basta-Kaim, A. (495) 103)

Inositol phosphate

Ecto-ATPase; Chromaffin cell; ARL 67156; P2Y receptor (Drakulich, D.A. (485) 137)

Antagonism; FR190997; G-protein coupled receptor; Non-peptide; Mutagenesis (Bellucci, F. (491) 121)

Insulin

Antihyperglycemic effect; Dipeptidyl peptidase IV; GLP-1; (Rat) (Takasaki, K. (486) 335)

Brain; Learning; Cognition; Dementia; Diabetes mellitus; Insulin signaling; Glucose metabolism (Biessels, G.J. (490) 1)

Central nervous system; Blood-brain barrier; Transport; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

GLUT; Glucose; Cognition; Hippocampus; Diabetes (McEwen, B.S. (490) 13)

Metabolism; Akt; GSK3 β (Glycogen synthase kinase 3 β); Tau; Ketogenic diet (Bondy, C.A. (490) 25)

Glucose; Glucose transporter; Memory; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Alzheimer's disease; Memory; Glucose (Watson, G.S. (490) 97)

Brain; Glucose/energy metabolism; Alzheimer disease; Insulin receptor; Glucose (Hoyer, S. (490) 115)

Alzheimer's disease; Insulin-like growth factor I; β Amyloid; Blood-brain barrier; Tau (Carro, E. (490) 127)

Diabetes mellitus; Obesity (Lebovitz, H.E. (490) 135)

Type 1 diabetes; Diabetic encephalopathy; Cognition; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

CNS complication; Type 1 and type 2 diabetes; C-peptide; Hyperglycemia (Sima, A.A.F. (490) 187)

Tryptophan; (Mouse); HPLC; β -Adrenoceptor (Lenard, N.R. (497) 105)

Basilar artery; Diabetes; Endothelium; Oxidative stress; Relaxation (Matsumoto, T. (504) 119)

ATP-sensitive potassium channel; Basilar artery; Cromakalim; Diabetes; Relaxation (Matsumoto, T. (504) 129)

Insulin receptor

Learning and memory; Signal transduction; Receptor trafficking; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

Brain; Glucose/energy metabolism; Alzheimer disease; Insulin; Glucose (Hoyer, S. (490) 115)

Insulin release

DCPIB; Volume-sensitive anion channel; K_{ATP} channel; Islet; Pancreatic β -cell (Best, L. (489) 13)

Insulin secretion

Y-26763; K_{ATP} channel; Human β -cell; NES2Y (Cosgrove, K.E. (486) 133)

ATP-sensitive K^+ channel; Fluoroquinolone; Levofloxacin; Gatifloxacin; Temafloxacin (Saraya, A. (497) 111)

Phosphodiesterase; Type 2 diabetes; Milrinone; Glucagon-like peptide-1 (Degerman, E. (498) 319)

Imidazoline receptor; Ryanodine; KU14R; β -Carboline; Islets of Langerhans (Squires, P.E. (501) 31)

Quinolizidine alkaloid; Islet; *Lupinus*; K_{ATP} channel (García López, P.M. (504) 139)

Insulin sensitizer

Antidiabetic; Hypolipidemic; Peroxisome proliferators-activated receptor (PPAR) (Chakrabarti, R. (491) 195)

FK614; Nonthiazolidinedione; *db/db*, mouse; *ob/ob*, mouse; Peroxisome proliferator-activated receptor (PPAR) γ (Minoura, H. (494) 273))

Insulin signalling

Insulin; Brain; Learning; Cognition; Dementia; Diabetes mellitus; Glucose metabolism (Biessels, G.J. (490) 1)

Insulin-like growth factor-I

Growth hormone; Aging; Cognition (Sytze van Dam, P. (490) 87)

Alzheimer's disease; Insulin; β Amyloid; Blood-brain barrier; Tau (Carro, E. (490) 127)

 β_1 -integrins

Chlorambucil; Collagen biosynthesis; Prolidase; IGF-I receptor; MCF-7 (Sienkiewicz, P. (492) 95)

Interferon- γ

Cocaine sensitization; Locomotor hyperactivity; Immunity; Cytokine; Splenocyte proliferation (Kubera, M. (483) 309)

Inflammatory bowel disease; TNBS; Tumour necrosis factor- α ; Interleukin-10; Myeloperoxidase (Stasi, M.A. (494) 263)

Interleukin-1

Vasopressin; Prostaglandin; Inflammation (Sigal, F.-B. (485) 53)

Interleukin 1- β

Nitroacetamol, Nitroflurbiprofen; TNF- α (tumour necrosis factor- α); Lipopolysaccharide; Blood (Marshall, M. (483) 317)

Mesangial cell, rat; Statin; Cerivastatin; NO (nitric oxide); NO (nitric oxide) synthase, inducible; Cyclooxygenase-2 (Blume, C. (485) 1)

Pancreatitis; HGF (hepatocyte growth factor); Cyclooxygenase-2; Interleukin-10 (Warzecha, Z. (486) 107)

Interleukin-18; Interleukin-18 binding protein; Caspase-1; Inflammation (Mühl, H. (500) 63)

Interleukin-6

Cytokine; C-fibre; Pain; Electrophysiology; Dorsal horn (Flatters, S.J.L. (484) 183)

Hepatic ischemia–reperfusion; Polymorphonuclear leukocyte; Rho kinase inhibitor; Tumor necrosis factor- α (Kawaguchi, A. (493) 167)

SCMC-Lys (Carbocysteine lysine salt monohydrate); COPD; Breath condensate; 8-isoprostane (Carpagnano, G.E. (505) 169)

Interleukin-10

Pancreatitis; HGF (hepatocyte growth factor); Cyclooxygenase-2; Interleukin-1 β (Warzecha, Z. (486) 107)

Inflammatory bowel disease; TNBS; Tumour necrosis factor- α ; Interferon- γ ; Myeloperoxidase (Stasi, M.A. (494) 263)

Interleukin-18

Interleukin-1 β ; Interleukin-18 binding protein; Caspase-1; Inflammation (Mühl, H. (500) 63)

Interleukin-18 binding protein

Interleukin-18; Interleukin-1 β ; Caspase-1; Inflammation (Mühl, H. (500) 63)

Intermediate-conductance Ca^{2+} -activated K^{+} channel

NPPB; Cl^{-} current; HL-60 cell; GL-15 cell; Patch clamp recording (Fioretti, B. (497) 1)

Intermittent and continuous dosing

μ -Opioid receptor; Up-regulation; Down-regulation (Yoburn, B.C. (498) 87)

Interstitial cell of Cajal

Pacemaker current; Neurokinin receptor1; Substance P; Small intestine (Jun, J.Y. (495) 35)

Interventricular dispersion of repolarization

Fluoroquinolone; Electrically vulnerable period; Phase 3 repolarization (Chiba, K. (502) 117)

Intestinal absorption

Protein drug; Lysozyme; Megalin; Endocytosis (Takano, M. (502) 149)

Intestinal ischemia/reperfusion

Lung inflammation; Neutrophil accumulation; Adult respiratory distress syndrome; Vascular permeability; NO(Nitric oxide) (Cavriani, G. (494) 241)

Intestinal motility

Cannabinoid CB_1 receptor antagonist; SR 141716 (Rimonabant); Chronic treatment and tolerance development; Mouse (Carai, M.A.M. (494) 221)

Intestinal permeability

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Enteral bacteria; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

Intestinal smooth muscle

Rapid estrogen effect; K^{+} channel; Voltage-dependent Ca^{2+} channel; Spontaneous activity (Diaz, M. (501) 161)

Intestine

Biguanide; Glucagon-like peptide 2; Dipeptidyl peptidase IV (Yamazaki, K. (488) 213)

Intracellular Ca^{2+}

Amlodipine; Proliferation; Epidermoid carcinoma A431 cell, human; Uridine 5'-triphosphate; A431 xenograft (Yoshida, J. (492) 103)

Nitrosourea; Glutathione; Oxidative stress; Ca^{2+} channel; Cl^{-} channel (Doroshenko, N. (497) 17)

Intracellular Ca^{2+} concentration

Bay K 8644; Ca^{2+} transient; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na^{+} concentration; L-type Ca^{2+} channel; Na^{+} – Ca^{2+} exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Intracellular Na^{+} concentration

Bay K 8644; Ca^{2+} transient; Intracellular Ca^{2+} concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; L-type Ca^{2+} channel; Na^{+} – Ca^{2+} exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Intracerebroventricular

Morphine; Memory; Passive avoidance; K_{ATP} channel modulators; Scopolamine; (Mouse) (Zarrindast, M.R. (487) 143)

Intracranial self-stimulation

Appetite; Cannabinoid CB_1 receptor; Conditioned taste aversion; Ingestive behavior; Locomotor activity; Operant behavior; (Rat) (De Vry, J. (483) 55)

Intraocular pressure

2-Alkynyladenosine derivative; Adenosine A_2 receptor; Outflow facility (Konno, T. (486) 307)

Intrathecal

Antinociception; 5-HT; 5-HT receptor subtype; (Rat) (Jeong, C.Y. (502) 205)

Intraurethral pressure

Tamsulosin; Arterial blood pressure (Ohtake, A. (497) 327)

Intrauterine stress

α -Adrenoceptor; β -Adrenoceptor; Sympathetic innervation; Renal artery; (Rat) (Sanders, M. (488) 147)

intravenous

(Mouse); Ethanol; Self-administration (Blokhina, E.A. (485) 211)

Intravital microscopy

Migraine; Cholinergic (Kowacs, F. (493) 133)

Inverse agonism

Cannabinoid receptor; [³⁵S]GTPγS; 3-Alkyl-(5,5'-diphenyl)imidazolidine-dione; Neutral antagonism (Govaerts, S.J. (495) 43)

Constitutive activity; SB-2587 19; SB-259741; SB-269970; 5-HT₇ receptor (Mahé, C. (495) 97)

Adenosine A₁ receptor; G protein; Fusion protein; Allosteric modulation; Constitutive activity (Klaasse, E. (499) 91)

Inverse agonist

Delta opioid receptor; Mu opioid receptor; Kappa opioid receptor (Emmerson, P.J. (494) 121)

Constitutive activity; Receptor theory; Serotonin receptor; Up-regulation (Devlin, M.G. (498) 59)

Ion channel

Spider; Wasp; Neurotoxin; Receptor; Transporter and Neurotransmitter release (Beleboni, R.d.O. (493) 1)

κ-Opioid receptor

Antagonist; JDTic; Antinociception; Tail-flick; Diuresis (Carroll, I. (501) 111)

κ-Opiate receptor agonist

Asimadoline; Epithelial transport; EMD 61753 (Schreiber, R. (503) 185)

IRL 1620

Articular incapacitation; Hyperalgesia; Analgesia; Arthritic pain; Endothelin receptor (Daher, J.B. (496) 77)

Irritation

Antibacterial; Anti-inflammatory; MIC (Minimum inhibitory concentration); MBC (Minimum bactericidal concentration) (Park, J. (496) 189)

Ischemia

Aniracetam; Astrocyte; Apoptosis; Erk1/2; Akt (Gabryel, B. (494) 111)

β-adrenoceptor; Adenylyl cyclase; Reperfusion; Catecholamine; Regional myocardial blood flow (Boucher, M. (495) 185)

MCC-135; Cardioprotection; Reperfusion; Ca²⁺ overload (Satoh, N. (499) 179)

Mitochondrion; Trimetazidine; Perfusion; Glucose (Monteiro, P. (503) 123)

Renal/kidney; Reperfusion injury; Caspase; Caspase inhibitor (Chatterjee, P.K. (503) 173)

Reperfusion; Acute renal failure; Rho-kinase (Teraishi, K. (505) 205)

Ischemia–reperfusion

Gastric preconditioning; Gastric blood flow; Remote preconditioning; Prostaglandin; Sensory nerve (Brzozowski, T. (499) 201)

Calcitonin gene-related peptide (CGRP); Ischemic preconditioning; Capsaicin; Nitric oxide (NO) (Luo, D. (502) 135)

PPAR-γ; Rosiglitazone; Reactive oxygen specie; Neutrophil; Cyclooxygenase (Villegas, I. (505) 195)

Ischemia–reperfusion injury

Prostate; Heat shock protein 70; Real-time PCR; (Rat) (Saito, M. (487) 199)

Na⁺–H⁺ exchange inhibitor; LVDP (Left ventricular developed pressure); ³¹P-NMR (nuclear magnetic resonance); EPR (Electron paramagnetic resonance) spectrometry; Apoptosis; (Guinea pig) (Hotta, Y. (503) 109)

Ischemic preconditioning

Calcitonin gene-related peptide (CGRP); Ischemia–reperfusion; Capsaicin; Nitric oxide (NO) (Luo, D. (502) 135)

Ischemic–reperfusion injury

Acute renal failure; Mibefradil; Verapamil; Isolated, guinea pig (Grašič Kuhar, C. (488) 137)

Islet

DCPIB; Volume-sensitive anion channel; K_{ATP} channel; Pancreatic β-cell; Insulin release (Best, L. (489) 13)

Insulin secretion; Quinolidine alkaloid; *Lupinus*; K_{ATP} channel (García López, P.M. (504) 139)

Islets of Langerhans

Imidazoline receptor; Ryanodine; KU14R; β-Carboline; Insulin secretion (Squires, P.E. (501) 31)

Isobole method

GABA_A receptor complex; TBOB; Neuroactive steroid; Retigabine; Synergy; Molecular model (van Rijn, C.M. (485) 43)

Isobolic analysis

Polytherapy; GABA; EEG; (Rat) (Bouwman, B.M. (495) 119)

Isoflurane

Nitrous oxide; Corticotropin releasing factor; Propofol; c-Fos (Sawamura, S. (503) 49)

Isoform

Protein kinase C; Phorbol ester; Yeast phenotypic assay (Saraiva, L. (491) 101)

Isolated, guinea pig

Ischemic–reperfusion injury; Acute renal failure; Mibefradil; Verapamil; (Grašič Kuhar, C. (488) 137)

Isoprenaline

Cyclosporine; Perfused kidney; Endothelium-derived relaxing factor; Acetylcholine (El-Mas, M.M. (487) 149)

8-isoprostane

SCMC-Lys (Carbocysteine lysine salt monohydrate); COPD; Breath condensate; Interleukin-6 (Carpagnano, G.E. (505) 169)

Isoprostane

Human umbilical vein; Prostanoid TP receptor; Vasoconstriction (Daray, F.M. (499) 189)

Airway smooth muscle; Relaxation; K⁺ current (Helli, P.B. (501) 179)

Isoproterenol-induced lipolysis

Des-acyl ghrelin; Ghrelin; Growth hormone secretagogue receptor; Rat adipocyte (Muccioli, G. (498) 27)

Isradipine

Opioid dependence; Opioid withdrawal; Naloxone; (Human); Dextromethorphan; Drug discrimination (Oliveto, A. (491) 157)

Itching

Atopic dermatitis; NC/Nga, mouse; Scratching behavior; MicroAct (Takano, N. (495) 159)

[¹²⁵I]Tyrosine–substance P ex vivo binding

Tachykinin NK₁ receptor antagonist; GR205171; Immobilisation stress; Cortex; Dopamine metabolism; Tachykinin NK₁ receptor occupancy (Hutson, P.H. (484) 57)

J-113397

Microdialysis; Orphanin FQ; Nociceptin; Amygdala; (Rat) (Kawahara, Y. (485) 197)

JDTic

κ-Opioid receptor; Antagonist; Antinociception; Tail-flick; Diuresis (Carroll, I. (501) 111)

JNK

Triptolide; NO (Nitric oxide); iNOS; NF-κB (Kim, Y.-H. (494) 1)

HMA (5-(*N,N*-hexamethylene)-amiloride); Apoptosis; c-Jun; p53; p21^{WAF1/CIP1} (Suzuki, T. (503) 1)

Joint

NMDA; Inflammation; Nitric oxide; CGRP; CAM kinase (Lawand, N.B. (499) 155)

Joint destruction

Y-40138; Methotrexate; Combination therapy; Adjuvant-induced arthritis (Hisadome, M. (497) 351)

K⁺ conductance

Quercetin; Flavonoid; Cl[−] secretion; Colon (Cermak, R. (503) 31)

K_{ATP}

Nitric oxide; c-GMP; PKG; Urinary bladder (Deka, D.K. (492) 13)

K_{ATP} channel

SUR2B; Cell line, stable; Urinary bladder; [¹²⁵I]-A-312110; K⁺ channel opener (Scott, V.E. (483) 195)

Y-26763; Insulin secretion; Human β-cell; NES2Y (Cosgrove, K.E. (486) 133)

DCPIB; Volume-sensitive anion channel; Islet; Pancreatic β-cell; Insulin release (Best, L. (489) 13)

Insulin secretion; Quinolizidine alkaloid; Islet; *Lupinus* (García López, P.M. (504) 139)

K_{ATP} channel modulators

Morphine; Memory; Passive avoidance; Intracerebroventricular; Scopolamine; (Mouse) (Zarrindast, M.R. (487) 143)

K⁺ channel

Bisindolylmaleimide; PKC (protein kinase C); Artery mesenteric; Smooth muscle; Patch-clamp; (Rat) (Kim, A. (483) 117)

Estrogen; Tamoxifen; Ovariectomy; Gene expression; Ca²⁺ channel; (Rat) (Tsang, S.Y. (483) 155)

Gabapentin; Pinacidil; Apamin; Charybdotoxin; Glibenclamide (Mixcoatl-Zecuatl, T. (484) 201)

(−)-Linalool; Antinociception; Cholinergic; Opioid; Dopamine; ATP-sensitive channel (Peana, A.T. (485) 165)

Kaurenoic acid; Relaxation; Aorta, rat; Ca²⁺ influx (Tirapelli, C.R. (492) 233)

Des-Arg⁹-bradykinin; Lipopolysaccharide; Rat, spontaneously hypertensive; Aorta (Farias, N.C. (498) 163)

Rapid estrogen effect; Intestinal smooth muscle; Voltage-dependent Ca²⁺ channel; Spontaneous activity (Díaz, M. (501) 161)

K⁺ channel blocker

RBL-2H3 cell; Mediator secretion; Charybdotoxin; Cetiedil (Narenjkar, J. (483) 95)

K⁺ channel opener

K_{ATP} channel; SUR2B; Cell linestable; Urinary bladder; [¹²⁵I]-A-312110 (Scott, V.E. (483) 195)

Brain ischemia; Oxidative neuronal injury; KR-31378; Neuroprotection; Antioxidant (Kim, S.-O. (487) 81)

db-cGMP; Diazoxide; Sodium nitroprusside; Antinociception (Alves, D.P. (489) 59)

K⁺ channels

RBL-2H3 cell; Mast cell; Mediator release; Cetiedil (Narenjkar, J. (483) 107)

Antinociception; G-protein-coupled receptor; Opioid; Nonsteroidal Anti-inflammatory drugs; Tricyclic antidepressant (Ocaña, M. (500) 203)

Human pulmonary arteries; Arachidonic acid; Cyclooxygenase; Cytochrome P450; NO (Nitric oxide) (Guerard, P. (501) 127)

K⁺ channel, Ca²⁺-dependent

Constant-pressure perfusion; Mesenteric vascular bed; (Rat); Endothelium; NO (nitric oxide) (Fujioka, H. (485) 219)

K⁺ current

Isopropane; Airway smooth muscle; Relaxation (Helli, P.B. (501) 179)

K562

Dictyostelium; DIF-1 (differentiation-inducing factor-1); ERK (extracellular signal-regulated kinase); Akt (Akaishi, E. (485) 21)

Kappa opioid receptor

Delta opioid receptor; Mu opioid receptor; Inverse agonist (Emmerson, P.J. (494) 121)

Kappa opioid receptors

Chloroquine; Malaria; Pruritus (Inan, S. (502) 233)

KATP+ channel

Long-term potentiation; Hippocampal slice; HMR-1372; 3,5-Dihydroxy-phenylglycine; Glibenclamide (Schröder, U.H. (502) 99)

Kaurenoic acid

Relaxation; Aorta, rat; K⁺ channel; Ca²⁺ influx (Tirapelli, C.R. (492) 233)

Keloid

Apoptosis; PKC412; Staurosporine; Caspase (Nakazono-Kusaba, A. (497) 155)

Ketanserin

Serotonin; Exercise-induced cardiac ischemia; 5-HT_{1B} receptor; 5-HT_{2A} receptor; SL65.0472 (Guilbert, F. (497) 55)

Ketogenic diet

Insulin; Metabolism; Akt; GSK3 β (Glycogen synthase kinase 3 β); Tau (Bondy, C.A. (490) 25)

Ketorolac

Inflammatory pain; Cyclooxygenase; Tramadol; Synergism (López-Muñoz, F.J. (484) 157)

Cyclooxygenase isoform; Nonsteroidal anti-inflammatory drug; Parecoxib; Hyperalgesia (Padi, S.S.V. (491) 69)

Ketotifen

Second-generation histamine H₁ receptor antagonists; Sleep–wakefulness cycle; Binding assay; Rat (Shigemoto, Y. (494) 161)

Kidney

Reperfusion-injury; Renal dysfunction; Urocortin (Patel, N.S.A. (496) 175)

Kinase

Cannabinoid; Antinociception; Tolerance (Bass, C.E. (496) 99)

Kindling

Epilepsy; Anticonvulsant; AMPA receptor antagonist; YM928 (Yamashita, H. (494) 147)

Kinin B₁ receptor

Angiotensin 1-converting enzyme; Bradykinin; Diabetes mellitus; Kinin B₂ receptor; Oxidative stress (Couture, R. (500) 467)

Kinin B₂ receptor

Angiotensin 1-converting enzyme; Bradykinin; Diabetes mellitus; Kinin B₁ receptor; Oxidative stress (Couture, R. (500) 467)

 α_2 A-Knockout

Receptor autoradiography; α_2 ABC-Knockout; RX821002; Rauwolscine (Fagerholm, V. (497) 301)

 α_2 ABC-Knockout

Receptor autoradiography; α_2 A-Knockout; RX821002; Rauwolscine (Fagerholm, V. (497) 301)

Knockout mice

Epsilon receptor; Opioid receptor; [³⁵S]GTP γ S binding assay (Contet, C. (492) 131)

Knock-out, mice

Substance P (neurokinin 1) receptor; Serotonin (5-HT) transporter; In vivo intracerebral microdialysis (David, D.J. (492) 41)

Knockout mouse

Thermoregulation; Hypothermia; Serotonin; In vivo; (Hedlund, P.B. (487) 125)

(Knockout mouse)

Cyclosporine A; mdr1a; Brain ischemia; NeuN (Murozono, M. (498) 115)

Postoperative pain; CP-101,606; NMDA receptor (Nishimura, W. (503) 71)

KR-31378

Brain ischemia; Oxidative neuronal injury; Neuroprotection; Antioxidant; K⁺ channel opener (Kim, S.-O. (487) 81)

PTEN phosphorylation; Maxi-K channel; CREB; Akt; Apoptosis (Kim, K.Y. (497) 267)

KU14R

Imidazoline receptor; Ryanodine; β -Carboline; Insulin secretion; Islets of Langerhans (Squires, P.E. (501) 31)

KW-7

Antiplatelet; Phosphodiesterase inhibitor; Thromboxane (Wu, C.-C. (483) 187)

Kynurenic acid

Carbamazepine (Kocki, T. (498) 325)

L929

5-Aza-2'-deoxycytidine; Paclitaxel; Nitric oxide (NO); iNOS (nitric oxide (NO) synthase, inducible); Fibrosarcoma (Miljkovic, D. (485) 81)

L-929

Allicin; Apoptosis; SiHa; HeLa; SW480; Garlic (Oommen, S. (485) 97)

Lactoferrin

Formalin test; N^G-nitro-L-arginine methyl ester; D-Phe-Cys-Tyr-D-Trp-Orn-Thr-NH₂ (Hayashida, K.-i. (484) 175)

Laser Doppler

Migraine; Nitric oxide; Trigeminovascular system; Middle meningeal artery (Peitl, B. (497) 293)

Late asthmatic response

Disodium cromoglycate; Cysteinyl leukotriene; Thromboxane A₂; Eosinophil; (Guinea pig) (Nabe, T. (497) 97)

L-NIL (N-iminoethyl-L-lysine)

Inducible nitric oxide synthase; L-arginine; Atherosclerosis; (Rabbit); Superoxide anion (Simonet, S. (492) 211)

Learning

Oxidative injury; Amyloid- β peptide; Garlic compound; Antioxidant defense; Memory; Alzheimer disease (Pérez-Severiano, F. (489) 197)

Learned helplessness

Phosphodiesterase 4; Rolipram; Antidepressant; cAMP response element; Brain-derived neurotrophic factor (Itoh, T. (498) 135)

Learning and memory

Insulin; Brain; Cognition; Dementia; Diabetes mellitus; Insulin signalling; Glucose metabolism (Biessels, G.J. (490) 1)

Insulin receptor; Signal transduction; Receptor trafficking; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

Sickness behaviour; Cytokines; Inflammation; Brain; Afferent nerve; Pain; Sleep (Dantzer, R. (500) 399)

Left ventricular volume overload

G protein-coupled receptor kinase; Adenylyl cyclase; β -Adrenoceptor; Protein kinase; Human myocardial tissue; Hemodynamic load (Dzimiri, N. (489) 167)

Leptin

Insulin; Central nervous system; Blood–brain barrier; Transport; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

Stomach; Vagus; Enteric nervous system; Brainstem; Gastrin; Ghrelin (Konturek, P.C. (499) 15)

Lethality

Cocaine; Convulsion; σ Receptor; Toxicity (Matsumoto, R.R. (492) 21)

Leukemia

Proliferation; Cl^- channel blocker; Cell cycle; ClC-2 (Jiang, B. (488) 27)

Leukocyte

Pea seedling histaminase; Amine oxidase; Asthmalike reaction; Histamine; Mast cell; Free radical (Masini, E. (502) 253)

Leukotriene B_4

G-protein coupled receptor; BLT_1 ; Fura-2; Pharmacology; Calcium (Sabirsh, A. (499) 53)

Leukotriene CysLT_1 receptor

Leukotriene receptor antagonist; Cysteinyl-leukotriene; Asthma; Airway inflammation (Ferrari, F. (504) 223)

Leukotriene receptor antagonist

Leukotriene CysLT_1 receptor; Cysteinyl-leukotriene; Asthma; Airway inflammation (Ferrari, F. (504) 223)

Leukotrienes

Arthritis; Zymosan; Neutrophils; Hyperalgesia; Pain (da Rocha, F.A.C. (497) 81)

Levofloxacin

ATP-sensitive K^+ channel; Insulin secretion; Fluoroquinolone; Gatifloxacin; Temafloxacin (Saraya, A. (497) 111)

Levosimendan

Cardiac troponin C; NMR (nuclear magnetic resonance); Drug interaction (Sorsa, T. (486) 1)

Ca^{2+} -sensitization; Phosphodiesterase inhibition; Phosphodiesterase subtype; Positive inotropy; OR-1896 (Szilágyi, S. (486) 67)

LFA-1 antibody

Allergy; Atopic dermatitis (Ohmura, T. (504) 113)

Licofelone

Cyclooxygenase-lipoxygenase inhibitor; Platelet aggregation, human; Thromboxane A_2 (Rotondo, S. (488) 79)

Lidocaine

Focal adhesion kinase; Protein kinase C; Hippocampus; (Rat) (Dahmani, S. (489) 55)

Antiarrhythmic drug; Organic cation transporter; Transport; Quinidine (Hasannejad, H. (499) 45)

(–)-Linalool

Antinociception; Cholinergic; Opioid; Dopamine; K^+ channel; ATP-sensitive channel (Peana, A.T. (485) 165)

Hyperalgesia; Carrageenan; L-glutamate ; Prostaglandin E_2 (Peana, A.T. (497) 279)

Lipid peroxidation

Angiogenesis; Antiinflammatory; Genipin; Inducible nitric oxide synthase; NO (Nitric oxide) (Koo, H.-J. (495) 201)

Lipid raft

Sigma receptor; Sphingolipid; Apoptosis; Liver, rat (Gebreselassie, D. (493) 19)

Lipopolysaccharide

Nitroparacetamol; Nitroflurbiprofen; Interleukin- 1β ; TNF- α (tumour necrosis factor- α); Blood (Marshall, M. (483) 317)

Insulin; Central nervous system; Blood-brain barrier; Transport; Leptin; Diabetes mellitus (Banks, W.A. (490) 5)

Des-Arg⁹-bradykinin; Rat, spontaneously hypertensive; Aorta; K^+ channel (Farias, N.C. (498) 163)

Endothelin-1; Mesenteric artery; Nitric oxide; Rho-kinase; Y-27632 (Büyükaşar, K. (498) 211)

Peroxisome-proliferator activated receptor- γ ; Peptidoglycan; GW9662; (Rat) (Dugo, L. (498) 295)

NO (Nitric oxide); Contractility; Excitation-contraction coupling; Neuromuscular junction; Skeletal muscle (Sara, Y. (505) 177)

Lipoprotein

Benzenesulfonate; Familial combined hyperlipidemia; Hypercholesterolemia (Masana, L. (496) 205)

Liposome

Artery; Diabetes; Superoxide dismutase; Vasodilation (Voinea, M. (484) 111)

Lipoxygenase

Hyperalgesia; Opioid tolerance; Spinal, rat (Trang, T. (491) 21)

Lithium carbonate

Serotonin; Noradrenaline; Dopamine; Reboxetine; In vivo microdialysis (Kitaichi, Y. (489) 187)

Lithium chloride

NO (Nitric oxide); Stress axis; c-Fos; Inducible cAMP early repressor (Jahng, J.W. (489) 111)

Liver microsome, rat

Californine; Protopine; Metabolism; Cytochrome P_{450} (Paul, L.D. (485) 69)

Liver perfusion

NAD^+ ; Cyclic ADP-ribose; Hemodynamics; Metabolism (Broetto-Biazon, A.C. (484) 291)

Liver, rat

Sigma receptor; Lipid raft; Sphingolipid; Apoptosis; (Gebreselassie, D. (493) 19)

LLC-PK₁ renal cell line

P-glycoprotein; MRP (Multidrug resistance-related protein); LRP (Lung resistance-related protein); Cytochrome CYP 3A4; Rifampicin (Magnarin, M. (483) 19)

LMCAT cell

Mood stabilizer; Glucocorticoid receptor-mediated gene transcription; Glucocorticoid receptor; Protein kinase; Inositol; Amphetamine (Basta-Kaim, A. (495) 103)

L-NAME

Baclofen; Synergy (Rawls, S.M. (502) 271)

Nitric oxide; Nicotine; Conditioned place preference; (mouse); L-arginine (Sahraei, H. (503) 81)

Locomotion

mGlu5 receptor; Adenosine receptor; Dopamine receptor; Parkinson's disease; L-DOPA-induced dyskinesia (Ismayilova, N. (497) 187)

THC; Psychostimulants; Cross-sensitization; Microdialysis; (Rat) (Ellgren, M. (497) 205)

Locomotor activity

Appetite; Cannabinoid CB₁ receptor; Conditioned taste aversion; Ingestive behavior; Intracranial self-stimulation; Operant behavior; (Rat) (De Vry, J. (483) 55)

Analgesia; Sedation; Amitriptyline; α_{2A} -Adrenoceptor; Clonidine; (Mouse) (Özdoğan, Ü.K. (485) 193)

Spontaneous feeding; Chronic obesity; Diet-induced obese, rat (Kowalski, T.J. (497) 41)

Cocaine; Dopamine receptor; Serotonin receptor (Hanania, T. (502) 221)

Prepulse inhibition; Phencyclidine; *N*^ω-Propyl-L-arginine; Nitric oxide; (Mouse) (Klamer, D. (503) 103)

Methamphetamine; Antihistamine; Prepulse inhibition; Methamphetamine concentration (Okuda, T. (505) 135)

Locomotor hyperactivity

Cocaine sensitization; Immunity; Cytokine; Splenocyte proliferation; Interferon- γ (Kubera, M. (483) 309)

Locus coeruleus activity

Perinatal protein malnutrition; Fluoxetine; Prefrontal cortex noradrenaline; Panic disorder (Sodero, A.O. (503) 35)

Long QT syndrome

Iatrogenic disease; HERG protein; Torsades de Pointes; Drug discovery; High-throughput screening (Finlayson, K. (500) 129)

Long-chain fatty alcohol

Bladder; (Rat); Bladder neck obstruction; Detrusor overactivity (Saito, M. (501) 143)

Long-term potentiation

Diabetes mellitus; Synaptic plasticity; Glutamate receptor (Trudeau, F. (490) 177)

KATP⁺ channel; Hippocampal slice; HMR-1372; 3,5-Dihydroxyphenyl-glycine; Glibenclamide (Schröder, U.H. (502) 99)

Low-density lipoprotein

Antioxidant; 2-Biphenylmorpholine compound; Atherosclerosis; Copper-mediated oxidation; (Rabbit) (Tavridou, A. (505) 213)

Low-dose

Estrogen; Neointimal formation (Watanabe, T. (502) 265)

LRP (Lung resistance-related protein)

P-glycoprotein; MRP (Multidrug resistance-related protein); Cytochrome CYP 3A4; LLC-PK₁ renal cell line; Rifampicin (Magnarin, M. (483) 19)

L-type Ca²⁺ channel

β_{2c} Subunit; Single-channel analysis; Modal gating behavior (Kamada, Y. (487) 37)

Marrubenol; Calcium antagonist; 1,4-Dihydropyridine; Phenylalkylamine (El Bardai, S. (492) 269)

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; Na⁺–Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Toosendanin; Neonatal rat ventricular cell; Whole-cell patch-clamp; Agonist (Li, M.-F. (501) 71)

Lung

Bronchoconstriction; NO (Nitric oxide); Mast cell; Anaphylaxis; Spontaneously hypertensive rat (Kwasniewski, F.H. (488) 181)

Chymase inhibitor; Fibrosis; Transforming growth factor- β (Sakaguchi, M. (493) 173)

Airways; Asthma; Inflammation; Neurotrophin; NGF (nerve growth factor) (Frossard, N. (500) 453)

Lung fibrosis

Erdosteine; Bleomycin; Myeloperoxidase; Hydroxyproline (Sogut, S. (494) 213)

Lung granuloma

Eotaxin; Nuclear factor- κ B; Sephadex bead; Tumor necrosis factor- α ; Vitamin A (Torii, A. (497) 335)

Lung inflammation

Intestinal ischemia/reperfusion; Neutrophil accumulation; Adult respiratory distress syndrome; Vascular permeability; NO(Nitric oxide) (Cavriani, G. (494) 241)

Lung parenchymal strip

Adenosine; Airway hyperresponsiveness; Allergen challenge; Ovalbumin; Compound 48/80; Rat, Brown Norway (Wolber, C. (498) 227)

Lung, mouse

Cigarette smoke; Inflammation (Castro, P. (498) 279)

Lupinus

Insulin secretion; Quinolizidine alkaloid; Islet; K_{ATP} channel (García López, P.M. (504) 139)

LVDP (Left ventricular developed pressure)

Na⁺–H⁺ exchange inhibitor; 31P-NMR (nuclear magnetic resonance); EPR (Electron paramagnetic resonance) spectrometry; Ischemia–reperfusion injury; Apoptosis; Guinea pig (Hotta, Y. (503) 109)

LY404187

Parkinson's disease; Neuroprotection; AMPA receptor potentiator; 6-Hydroxydopamine; MPTP; GAP-43 (growth-associated protein-43); BDNF (brain-derived neurotrophic factor); (Rat) (O'Neill, M.J. (486) 163)

Lymphocyte

Alzheimer's disease; Antidepressant; Gene expression; Microarray; Mirtazapine (Palotás, A. (497) 247)

Lysozyme

Intestinal absorption; Protein drug; Megalin; Endocytosis (Takano, M. (502) 149)

M40403

Glucose; Cardiovascular alteration (Di Filippo, C. (497) 65)

Macrophage

Melatonin; Nitric oxide; Inducible nitric oxide synthase; Nuclear factor κ B (Zhang, S. (501) 25)

Macrophages

Vitamin B₂; Amino acid; Mortality; Sepsis (Toyosawa, T. (493) 177)

Magnetic resonance imaging

Antibesity; Histamine H₃ receptor antagonist (Hancock, A.A. (487) 183)

Maitotoxin

ATP-P2X₇ receptor; Cytolytic pore; Cell death; Ca²⁺ (Lundy, P.M. (487) 17)

Malaria

Chloroquine; Pruritus; Kappa opioid receptors (Inan, S. (502) 233)

Malonate

Caspase; Nitric oxide (NO); 7-Nitroindazole; Oxidative stress (Paucard, A. (483) 259)

MAP (mitogen-activated protein) kinase

Y-27632; Smooth muscle; Airway; Phosphatidyl inositol 3-kinase; PDGF (platelet-derived growth factor) (Gosens, R. (483) 71)

Neuroblastoma cell; Hydrogen peroxide; Protein kinase B (Ruffels, J. (483) 163)

Angiotensin II; Trilinolein; Cardiomyocyte hypertrophy; Reactive oxygen species; β -myosin heavy chain (Liu, J.-C. (484) 1)

MAP kinase

Opioid; Epidermal growth factor receptor; Human embryonic kidney 293 cell; Extracellular signal-regulated kinase; G protein-coupled receptor (Schulz, R. (500) 487)

MAPK

Taste; Receptor; cAMP; G protein, inhibitory (Ozeck, M. (489) 139)

Andrographolide; Chemotactic migration; ERK1/2; Akt (Tsai, H.-R. (498) 45)

MAPK pathway

TNF- α ; Bradykinin B₁ and B₂ receptors; Chronic airway inflammation; Airway hyperresponsiveness (Zhang, Y. (489) 117)

MAP-kinase

Gap junction; Connexin; Cardiomyocyte, rat; TNF α (Salameh, A. (503) 9)

Marble-burying behavior test

MGS0039; Glutamate; Obsessive-compulsive disorder (Shimazaki, T. (501) 121)

Marrubenol

Calcium antagonist; L-type Ca²⁺ channel; 1,4-Dihydropyridine; Phenyl-alkylamine (El Bardai, S. (492) 269)

Mast cell

RBL-2H3 cell; Mediator release; K⁺ channels; Cetiedil (Narenjkar, J. (483) 107)

Bronchoconstriction; Lung; NO (Nitric oxide); Anaphylaxis; Spontaneously hypertensive rat (Kwasniewski, F.H. (488) 181)

Substance P; Neurogenic inflammation; Allergy; Exocytosis (Karimi, K. (489) 49)

Pea seedling histaminase; Amine oxidase; Asthmalike reaction; Histamine; Leukocyte; Free radical (Masini, E. (502) 253)

Maternal stress

Adolescence; MDMA; Pharmacokinetics; Behaviour; Individual variability (Morley-Fletcher, S. (489) 89)

Matrix metalloproteinase

Rutaecarpine; Reactive oxygen species; HaCaT human keratinocyte (Beak, S.-M. (498) 19)

Maxi-K channel

KR-31378; PTEN phosphorylation; CREB; Akt; Apoptosis (Kim, K.Y. (497) 267)

MBC (Minimum bactericidal concentration)

Antibacterial; Anti-inflammatory; MIC (Minimum inhibitory concentration); Irritation (Park, J. (496) 189)

MCC-135

Cardioprotection; Ischemia; Reperfusion; Ca²⁺ overload (Satoh, N. (499) 179)

MCF-7

Chlorambucil; Collagen biosynthesis; Prolidase; β_1 -integrins; IGF-I receptor (Sienkiewicz, P. (492) 95)

MD-354 (*m*-chlorophenylguanidine)

α_2 -Adrenoceptor; 5-HT₃ receptor; Antinociception; In vitro and in vivo model (Wesolowska, A. (495) 129)

MDMA

Maternal stress; Adolescence; Pharmacokinetics; Behaviour; Individual variability (Morley-Fletcher, S. (489) 89)

mdr1a

Cyclosporine A; (Knockout mouse); Brain ischemia; NeuN (Murozono, M. (498) 115)

Mean circulatory filling pressure

Capacitance; Noradrenaline; Vasoconstriction (Cheng, X. (484) 263)

Mechanical hyperalgesia

Endothelin; Endothelin ET_B receptor; cAMP; Protein kinase (da Cunha, J.M. (501) 87)

Mechanosensitivity

P2X receptors; Pain; Hyperalgesia; Inflammation; Peripheral sensitization (Wu, G. (504) 45)

Mediator release

RBL-2H3 cell; Mast cell; K⁺ channels; Cetiedil (Narenjkar, J. (483) 107)

Mediator secretion

RBL-2H3 cell; K⁺ channel blocker; Charybdotoxin; Cetiedil (Narenjkar, J. (483) 95)

Megalin

Intestinal absorption; Protein drug; Lysozyme; Endocytosis (Takano, M. (502) 149)

Melanin-concentrating hormone

Feeding; Ghrelin; Orexin/hypocretin; Neuropeptide B; Neuropeptide W (Xu, Y.-L. (500) 243)

Melanocortin

Sensory recovery; Peripheral nerve injury; Sciatic nerve (Nijenhuis, W.A.J. (495) 145)

Melanoma

Betulinic acid derivative; Apoptosis; Reactive oxidative species; Mitochondrial membrane potential (Liu, W.-K. (498) 71)

Melatonin

Macrophage; Nitric oxide; Inducible nitric oxide synthase; Nuclear factor κ B (Zhang, S. (501) 25)

Membrane current

P2X receptor; ATP; Site-directed mutagenesis; *Xenopus* oocyte (Nakazawa, K. (483) 29)

Memory

Phosphatidylserine; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); (Rat); Parkinson's disease; Dopamine (Perry, J.C. (484) 225)

RC-3095; Bombesin; Gastrin-releasing peptide; Anticancer drug; Behavior (Roesler, R. (486) 35)

Morphine; Passive avoidance; Intracerebroventricular; K_{ATP} channel modulators; Scopolamine; (Mouse) (Zarrindast, M.R. (487) 143)

Oxidative injury; Amyloid- β peptide; Garlic compound; Antioxidant defense; Learning; Alzheimer disease (Pérez-Severiano, F. (489) 197)

Glucose; Insulin; Glucose transporter; Attention; Aging; Diabetes; Glucose tolerance; Vagus (Messier, C. (490) 33)

Alzheimer's disease; Glucose; Insulin (Watson, G.S. (490) 97)

Memory impairment

Soman; Brain injury; Prophylactic; Physostigmine; Procyclidine (Choi, E.-K. (505) 83)

Meningitis

Streptococcus pneumoniae; NF- κ B1; NF- κ B p50 subunit; Host response (Kastenbauer, S. (498) 315)

Mercuric chloride

Adrenomedullin; Mycophenolate mofetil; Brown Norway, rat; Auto-immune glomerulonephritis (Shi, Y. (489) 127)

Mesaconitine

Vasorelaxation; Endothelial cell; Na^+/Ca^{2+} exchanger; Na^+ channel (Ogura, J. (483) 139)

Mesangial cell, rat

Interleukin 1- β ; Statin; Cerivastatin; NO (nitric oxide); NO (nitric oxide) synthase, inducible; Cyclooxygenase-2 (Blume, C. (485) 1)

Mesangium

Corticosteroid; Ecto-apyrase; Endothelium; Hemopexin; Nephrotic syndrome (Kapojs, J.J. (501) 191)

Mesenteric artery

Endothelin-1; Rho-kinase; Saponin; Y-27632 (Büyükaşar, K. (485) 263)

Dextromethorphan; Morphine; Synergism (Inan, S. (486) 61)

Nitrgic innervation; cAMP; PKA (protein kinase A); Forskolin (Ferrer, M. (487) 167)

Endothelin-1; Lipopolysaccharide; Nitric oxide; Rho-kinase; Y-27632 (Büyükaşar, K. (498) 211)

Mesenteric vascular bed

Constant-pressure perfusion; (Rat); Endothelium; NO (nitric oxide); K^+ channel, Ca^{2+} -dependent (Fujioka, H. (485) 219)

Hypertension; Aorta; Chelerythrine; Calphostin C (Fatehi-Hassanabad, Z. (494) 199)

Mesenteric vessel

Cholestasis; Cannabinoid system; Anandamide; Nitric oxide (NO); Opioid system; (Rat) (Moezi, L. (486) 53)

Metabolism

NAD^+ ; Cyclic ADP-ribose; Liver perfusion; Hemodynamics (Broetto-Biazon, A.C. (484) 291)

Californine; Protopine; Cytochrome P450; Liver microsome, rat (Paul, L.D. (485) 69)

Insulin; Akt; GSK3 β (Glycogen synthase kinase 3 β); Tau; Ketogenic diet (Bondy, C.A. (490) 25)

Metabotropic glutamate receptor

Ibotenic acid; Glutamate receptor; Docking; *N*-Hydroxypyrazole; Partial agonism (Clausen, R.P. (499) 35)

Metabotropic glutamate receptors

Opioid tolerance; Phosphatidylinositol cascade; Analgesia; (Mouse) (Smith, F.L. (492) 137)

Self-administration; Nicotine; Cocaine; Food; MPEP (Tessari, M. (499) 121)

Metamizol

Opioid; Antinociception; Potentiation; Tolerance; Cross-tolerance (Hernández-Delgadillo, G.P. (502) 67)

Methadone

Respiratory depression; Naloxone methiodide; Radiotelemetry (Lewanowitsch, T. (484) 303)

Methamphetamine

Chlormethiazole; Drug-discrimination; (Rat) (Gasior, M. (494) 183)

Drug discrimination; Sensitization (Suzuki, T. (498) 157)

Antihistamine; Prepulse inhibition; Locomotor activity; Methamphetamine concentration (Okuda, T. (505) 135)

Methamphetamine concentration

Methamphetamine; Antihistamine; Prepulse inhibition; Locomotor activity (Okuda, T. (505) 135)

Methiothepin

S-(+)-ketoprofen; Antinociception; Tropisetron; 5-HT receptor antagonist (Díaz-Reval, M.I. (483) 241)

Methocramine

Vanilloid receptor; Channel block; Dorsal root ganglion; Patch-clamp; Polyamine (Mellor, I.R. (505) 37)

Methotrexate

Y-40138; Combination therapy; Adjuvant-induced arthritis; Joint destruction (Hisadome, M. (497) 351)

18-Methoxycoronaridine

Ibogaine; Nicotinic receptor; *N*-methyl-D-aspartate receptor; Addiction (Pace, C.J. (492) 159)

 α -Methyldopa

Ethanol; Rilmenidine; Hypotension; Hemodynamic variability; Time-domain analysis (El-Mas, M.M. (485) 251)

 α,β -Methyleneadenosine 5'-triphosphate

Uridine 5'-triphosphate; P2Y₄ receptor; Basilar artery; Ectonucleotidase; Smooth muscle (Miyagi, Y. (488) 117)

3,4-Methylenedioxyamphetamine

Ecstasy; Hyperthermia; Neurotoxicity; Serotonin; Body temperature (Green, A.R. (500) 3)

6-Methylflavone

GABA; Benzodiazepine; Flavonoid; GABA_A receptor (Hall, B.J. (491) 1)

Methylguanidine

Carrageenan-induced inflammation; TNF- α (tumor necrosis factor- α); Reactive oxygen specie; iNOS (nitric oxide (NO) synthase, inducible); Cyclooxygenase-2 (Marzocco, S. (484) 341)

2-Methylserotonin

5-HT₃ receptor; 5-HT (5-hydroxytryptamine, serotonin); Writhing; Pain; Sensitization (Giordano, J. (483) 267)

Methysergide

Dipyrrone; Antinociception; Serotonin; Yohimbine; Pyrazoline (Godoy, M.C.M. (496) 93)

mGlu receptor

Ibotenic acid; Thioibotenic acid; Glutamate receptor; Group III agonist; Docking; Homology model; Conformational energy (Hermit, M.B. (486) 241)

mGlu₁ receptor antagonist

Allosteric mGlu₄ receptor modulator; Anxiety; Amygdala (Stachowicz, K. (498) 153)

mGlu₅

MPEP; Serotonin; Dorsal raphe; Microdialysis; Thermal nociception (Palazzo, E. (492) 169)

mGlu5 knockout, mouse

Hypoxia; Reactive oxygen species (Storto, M. (497) 25)

mGlu5 receptor

Adenosine receptor; Dopamine receptor; Parkinson's disease; L-DOPA-induced dyskinesia; Locomotion (Ismayilova, N. (497) 187)

MGS0039

Glutamate; Obsessive-compulsive disorder; Marble-burying behavior test (Shimazaki, T. (501) 121)

Mibefradil

Ischemic-reperfusion injury; Acute renal failure; Verapamil; Isolated, guinea pig (Grašič Kuhar, C. (488) 137)

MIC (Minimum inhibitory concentration)

Antibacterial; Anti-inflammatory; MBC (Minimum bactericidal concentration); Irritation (Park, J. (496) 189)

MicroAct

Atopic dermatitis; NC/Nga, mouse; Scratching behavior; Itching (Takano, N. (495) 159)

Microarray

Alzheimer's disease; Antidepressant; Gene expression; Lymphocyte; Mirtazapine (Palotás, A. (497) 247)

Airway smooth muscle; Cytokine stimulation; Growth factor; Airway remodelling (Jarai, G. (497) 255)

Microcalorimetry

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

Microcirculation

Reperfusion; Atherosclerosis (Taylor, A.J. (486) 85)

Microdialysis

Sibutramine; Dosulepin; Dopamine release; 5-HT (5-hydroxytryptamine, serotonin) release; Carrier-mediated (Ukai, K. (484) 209)

Monoamine; 5-HT (5-hydroxytryptamine, serotonin); Morphine; Neuropathic pain (Sounvoravong, S. (484) 217)

J-113397; Orphanin FQ; Nociceptin; Amygdala; (Rat) (Kawahara, Y. (485) 197)

5-HT (5-hydroxytryptamine, serotonin); Antidepressant; Fluoxetine; 5-HT_{1A} receptor; 5-HT_{1B} receptor (Newman, M.E. (486) 25)

α_2 -Adrenoceptor antagonist; Desipramine; DOPAC; HPLC; (Rat) (Devoto, P. (487) 105)

mGlu₅; MPEP; Serotonin; Dorsal raphe; Thermal nociception (Palazzo, E. (492) 169)

Stress; Acetylcholine; Corticosterone; Benzodiazepine; Buspirone; Hippocampus (Degroot, A. (493) 103)

GABAergic neuron; Spinal trigeminal nucleus (Viggiano, A. (496) 87)

Microdialysis, in vivo

THC; Psychostimulants; Cross-sensitization; Locomotion; (Rat) (Ellgren, M. (497) 205)

Halothane; Sevoflurane; Nitric oxide (NO); Renal blood flow (Kusudo, K. (498) 267)

4-Butyl- α -agarofuran (AF-5); Anxiety; Monoamine neurotransmitter; Behavior; Tissue concentration (Zhang, Y. (504) 39)

α_2 -Adrenoceptor antagonist; Atypical antipsychotic drug; Catecholamine; Caudate nucleus (Pira, L. (504) 61)

Microinjection

Conditioned fear; Selective serotonin reuptake inhibitor; Amygdala; Serotonin; Anxiety (Inoue, T. (497) 311)

Micturition

TAK-802; Acetylcholinesterase inhibitor; Bladder; (Rat); (Guinea pig) (Nagabukuro, H. (485) 299)

Midazolam

Platelet aggregation; Phospholipase C; Cyclic AMP; Na⁺/H⁺ exchanger; Thrombosis (Hsiao, G. (487) 159)

Middle cerebral artery

20-HETE; Agonist; Antagonist; Subarachnoid hemorrhage (Yu, M. (486) 297)

Middle meningeal artery

Migraine; Nitric oxide; Trigemino-vascular system; Laser Doppler (Peitl, B. (497) 293)

Migraine

Intravital microscopy; Cholinergic (Kowacs, F. (493) 133)

Nitric oxide; Trigemino-vascular system; Middle meningeal artery; Laser Doppler (Peitl, B. (497) 293)

Antimigraine drug; BIBN4096BS; CGRP (Arulmani, U. (500) 315)

Migraine-like model

Hot-plate; Writhing test; Bradykinin; Rat; Sumatriptan (Ottani, A. (497) 181)

Mildronate

γ -butyrobetaine; γ -butyrobetaine ester; NO (Nitric oxide); Nitric oxide synthase; Vasorelaxation (Sjakste, N. (495) 67)

Milnacipran

Fluvoxamine; Risperidone; Anxiety; Conditioned fear stress; (Mouse) (Miyamoto, J. (504) 97)

Milrinone

Phosphodiesterase; Type 2 diabetes; Glucagon-like peptide-1; Insulin secretion (Degerman, E. (498) 319)

Miltirone

GABA_A receptor; Ethanol withdrawal; Dependence (Mostallino, M.C. (494) 83)

Minocycline

Neuroprotection; Mitochondria; Inflammation (Cornet, S. (505) 111)

Miosis

Serotonin; 5-HT_{1A} receptor; α_2 -Adrenoceptor; Mydriasis; Pupil (Yu, Y. (489) 207)

mIPSC

Hippocampus; GABA receptor; Rho subunit; TPMPA; CACA (Hartmann, K. (497) 139)

Mirtazapine

Alzheimer's disease; Antidepressant; Gene expression; Lymphocyte; Microarray (Palotás, A. (497) 247)

Mitochondria

Terfenadine; Apoptosis; Thymocyte; Fexofenadine; Voltage-dependent K⁺ channel (Enomoto, R. (496) 11)

Minocycline; Neuroprotection; Inflammation (Cornet, S. (505) 111)

Mitochondrial membrane potential

Melanoma; Betulinic acid derivative; Apoptosis; Reactive oxidative species (Liu, W.-K. (498) 71)

Echinacoside; Apoptosis; TNF α ; Reactive oxygen species; Caspase-3 (Deng, M. (505) 11)

Mitochondrion

Ischemia; Trimetazidine; Perfusion; Glucose (Monteiro, P. (503) 123)

Mitogen-activated protein kinase

PC12h cell; Neurite outgrowth; Genipin; Nerve growth factor; Cyclic GMP (Yamazaki, M. (488) 35)

Aortic smooth muscle cell, rat; Quercetin; Extracellular signal-regulated kinase; c-Jun N-terminal kinase (Shih, C.-M. (496) 41)

Ferulic acid; Vascular smooth muscle cell; Proliferation; Cell cycle regulatory protein; Angiotensin II (Hou, Y.-Z. (499) 85)

MK-801

Phencyclidine; Triazolam (Shannon, H.E. (498) 125)

Tryptophan depletion; Serotonin; Haloperidol; (Rat); Schizophrenia (Bubeníková, V. (502) 109)

Schizophrenia; Thalamus, rat; Proteomic; Acute; Subchronic (Paulson, L. (505) 103)

MK912

BRL44408; Dihydroergotamine; (Dog); Carotid vasoconstriction external; SB224289 (Villalón, C.M. (484) 287)

Moclobemide

Citalopram; Imipramine; Desipramine; 5-HT_{1A}/5-HT_{1B} receptor antagonist; Forced swimming test in rats (Tatarczyńska, E. (487) 133)

Modal gating behavior

L-type Ca²⁺ channel; β_2 Subunit; Single-channel analysis (Kamada, Y. (487) 37)

Modulation

N-Methyl-D-aspartate receptor; Amino terminal domain; Polyamine; Ifenprodil; Zinc (Herin, G.A. (500) 101)

Molecular model

GABA_A receptor complex; TBOB; Neuroactive steroid; Retigabine; Synergy; Isobole method (van Rijn, C.M. (485) 43)

Molecular modelling

Binding site; G protein-coupled receptor; Nonpeptide antagonists; Site-directed mutagenesis (Meini, S. (488) 61)

(Monkey)

mu-opioid receptor; Agonism; Antagonism; Antinociception; (Mouse) (Neilan, C.L. (499) 107)

Monoamine neurotransmitter

4-Butyl- α -agarofuran (AF-5); Anxiety; Behavior; Tissue concentration; Microdialysis (Zhang, Y. (504) 39)

Monoamine

5-HT (5-hydroxytryptamine, serotonin); Microdialysis; Morphine; Neuropathic pain (Sounvoravong, S. (484) 217)

Depression; Antidepressant; Neurogenesis; SSRI; Tricyclic; Dopamine (Millan, M.J. (500) 371)

Monocrotaline

Endothelin-1; ET_A receptor; ET_B receptor; ET_B receptor-deficient rat; Pulmonary hypertension (Nishida, M. (496) 159)

Monocyte, human

TNF- α ; Adenosine; mRNA stability; p38 (Fotheringham, J.A. (497) 87)

NSAID; Prostaglandin E₂; TNF α ; Cyclooxygenase; Glucocorticoid (Ulcar, R. (501) 9)

MonoHER

Reperfusion; Oxidative stress; Necrosis; Neutrophil; Cardiac function (De Celle, T. (494) 205)

Monophasic action potential

Fluoroquinolone; QT interval; Torsades de pointes; Atrioventricular block; α_1 -Adrenoceptor stimulation (Chiba, K. (486) 189)

Monosynaptic reflex

General anesthetic; Inhalation; Nociceptive reflex; Slow ventral root potential; Neonatal spinal cord (Watanabe, I. (496) 71)

Mood stabilizer

Glucocorticoid receptor-mediated gene transcription; Glucocorticoid receptor; Protein kinase; Inositol; LMCAT cell; Amphetamine (Basta-Kaim, A. (495) 103)

MOP

Heroin; Mu-opioid; Morphine; Mu-opioid receptor; MOR-1 (Gilbert, A.-K. (492) 123)

MOR-1

Heroin; Mu-opioid; Morphine; Mu-opioid receptor; MOP (Gilbert, A.-K. (492) 123)

Morphine

Monoamine; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis; Neuropathic pain (Sounvoravong, S. (484) 217)

Dextromethorphan; Synergism; Mesenteric artery (Inan, S. (486) 61)

Antinociception; Tolerance; Sex; Estrous cycle (Shekunova, E.V. (486) 259)

Conditioned place preference; Calmodulin; Trifluoperazine (Ye, X.-F. (486) 265)

Memory; Passive avoidance; Intracerebroventricular; K_{ATP} channel modulators; Scopolamine; (Mouse) (Zarrindast, M.R. (487) 143)

Pain; Development; Analgesia; Uncoupling; Neuron (Liu, J.-G. (491) 127)

Discriminative stimulus effect; Histamine; H₂-receptor (Mori, T. (491) 169)

Heroin; Mu-opioid; Mu-opioid receptor; MOR-1; MOP (Gilbert, A.-K. (492) 123)

Alcohol intake; Baclofen; WIN 55,212-2; Sardinian alcohol-preferring (sP), rat (Colombo, G. (492) 189)

Naloxone; Dopamine receptor agonists and antagonists; Sensitization; (Mouse) (Zarrindast, M.-R. (497) 197)

Tramadol; Naloxone; Antidepressant drug; Discrimination (Filip, M. (498) 143)

Agmatine; Dependence; Withdrawal; cAMP; Tyrosine hydroxylase (Aricioglu, F. (504) 191)

Morphine addiction

Fas receptor aggregate; Fas protein; Deglycosylation; Opiate drug; Brain, rat (García-Fuster, M.J. (496) 63)

Morphine dependence

Glutamate; Excitatory amino acid; Nucleus accumbens; Neurotransmitter; Acamprosate; Riluzole (Sepúlveda, J. (483) 249)

Morphine withdrawal; Glutamate transporter; dl-threo- β -benzyloxyaspartate; Conditioned place aversion; Conditioned place preference (Sekiya, Y. (485) 201)

Morphine tolerance

Phosphatidylinositol cascade; Adenylyl cyclase cascade; Analgesia; Hypothermia; (Mouse) (Javed, R.R. (492) 149)

Morphine withdrawal; Analgesia; Prazosin; α_2 -Adrenoceptor agonist; α_{2A} -Adrenoceptor (Özdoğan, Ü.K. (497) 161)

Morphine withdrawal

Morphine dependence; Glutamate transporter; dl-threo- β -benzyloxyaspartate; Conditioned place aversion; Conditioned place preference (Sekiya, Y. (485) 201)

Fos; Heart; Hypothalamic paraventricular nucleus; Naloxone; Naloxone methiodide (González-Cuello, A. (487) 117)

Morphine tolerance; Analgesia; Prazosin; α_2 -Adrenoceptor agonist; α_{2A} -Adrenoceptor (Özdoğan, Ü.K. (497) 161)

Mortality

Vitamin B₂; Amino acid; Macrophages; Sepsis (Toyosawa, T. (493) 177)

Motor activity

Adenosine A_{2A} receptor; Adenosine A₁ receptor; Dopamine D₂ receptor; Cardiovascular (Schindler, C.W. (484) 269)

Motor control

Striatum; Glutamate; Dopamine (Del Bel, E.A. (485) 175)

Mouse

μ -Opioid receptor; Dermorphin; Tetrapeptide; Naloxonazine; Antinociception (Mizoguchi, H. (486) 19)

Cocaine; Conditioned place preference; Circadian rhythm; Pinealectomy (Kurtuncu, M. (489) 203)

Adenosine receptor; Pharmacology; Brain; cAMP assay (Wittendorp, M.C. (487) 73)

Cannabinoid CB₁ receptor antagonist; SR 141716 (Rimonabant); Intestinal motility; Chronic treatment and tolerance development (Carai, M.A.M. (494) 221)

(Mouse)

Locomotor activity; Analgesia; Sedation; Amitriptyline; α_{2A} -Adrenoceptor; Clonidine (Özdoğan, Ü.K. (485) 193)

Ethanol; Self-administration intravenous (Blokhina, E.A. (485) 211)

Dopamine D₁-like receptor; Adenylyl cyclase-coupled; Non-adenylyl cyclase-coupled; SK&F 83822; Behavioural topography; Dopamine D₁-like; D₂-like receptor interaction (O'Sullivan, G.J. (486) 273)

Morphine; Memory; Passive avoidance; Intracerebroventricular; K_{ATP} channel modulators; Scopolamine (Zarrindast, M.R. (487) 143)

Histamine sensitisation; Pertussis toxin; Trachea; Small mesenteric resistance arteries; (Rat) (van Meijeren, C.E. (488) 127)

Synergism; Formalin test; Rofecoxib; Aminoguanidine hydrochloride (Dudhgaonkar, S.P. (492) 117)

Metabotropic glutamate receptors; Opioid tolerance; Phosphatidylinositol cascade; Analgesia (Smith, F.L. (492) 137)

Morphine tolerance; Phosphatidylinositol cascade; Adenylyl cyclase cascade; Analgesia; Hypothermia (Javed, R.R. (492) 149)

Prepulse inhibition; Scopolamine; AF-DX116; 4-DAMP; Tropicamide; Pirenzepine; Muscarinic receptor (Ukai, M. (492) 183)

Insulin; Tryptophan; HPLC; β -Adrenoceptor (Lenard, N.R. (497) 105)

Morphine; Naloxone; Dopamine receptor agonists and antagonists; Sensitization (Zarrindast, M.-R. (497) 197)

mu-opioid receptor; Agonism; Antagonism; Antinociception; (Monkey) (Neilan, C.L. (499) 107)

Corticotropin-releasing factor (CRF); Depression; Tail suspension test; Forced swim test; R 121919; DMP 696; DMP 904; Antalarmin (Nielsen, D.M. (499) 135)

Adenosine; Ethanol; Anxiety; Elevated plus-maze (Prediger, R.D.S. (499) 147)

Avermectin; Tumor growth (Drinyaev, V.A. (501) 19)

Nitric oxide; Nicotine; Conditioned place preference; L-arginine; L-NAME (Sahraei, H. (503) 81)

Prepulse inhibition; Phencyclidine; Locomotor activity; N^G -Propyl-L-arginine; Nitric oxide (Klamer, D. (503) 103)

Adenosine; Adenosine A_{2A} receptor; ZM 241385; Autoradiography; A_{2A} knockout (Kelly, M. (504) 55)

Fluvoxamine; Milnacipran; Risperidone; Anxiety; Conditioned fear stress (Miyamoto, J. (504) 97)

Mouse vas deferens

Cannabidiol; Abnormal-cannabidiol; WIN55212; Cannabinoid CB₁ receptor; Novel cannabinoid receptor antagonist (Thomas, A. (487) 213)

Movement disorder

Bicarbonate; Dystonia; GABA (γ -aminobutyric acid) (Richter, A. (502) 105)

MPEP

mGlu₅; Serotonin; Dorsal raphe; Microdialysis; Thermal nociception (Palazzo, E. (492) 169)

Self-administration; Nicotine; Cocaine; Food; Metabotropic glutamate receptors (Tessari, M. (499) 121)

MPTP

Parkinson's disease; Neuroprotection; AMPA receptor potentiator; LY404187; 6-Hydroxydopamine; GAP-43 (growth-associated protein-43); BDNF (brain-derived neurotrophic factor); (Rat) (O'Neill, M.J. (486) 163)

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine)

Phosphatidylserine; Memory; (Rat); Parkinson's disease; Dopamine (Perry, J.C. (484) 225)

mRNA expression

Tachykinins; Tachykinin receptors; Peripheral airways; (Human) (Pinto, F.M. (494) 233)

mRNA stability

EGCG ((-)-epigallocatechin-3-gallate); uPA (urokinase-type plasminogen activator); Erk-1/2; P38 MAPK; Transcription (Kim, M.H. (487) 1)

Monocyte; TNF- α ; Adenosine; p38 (Fotheringham, J.A. (497) 87)

iNOS (inducible nitric oxide synthase); Expression; Signal transduction; Pathway; Promoter; Transcription factor; RNA binding; Protein (Kleinert, H. (500) 255)

MRP (Multidrug resistance-related protein)

P-glycoprotein; LRP (Lung resistance-related protein); Cytochrome CYP 3A4; LLC-PK₁ renal cell line; Rifampicin (Magnarin, M. (483) 19)

Mrp2 (Multidrug resistance-associated protein 2)

Azithromycin; P-glycoprotein; Multidrug resistance; Doxorubicin; Biliary excretion; (Rat) (Asakura, E. (484) 333)

MS-153

Contextual fear conditioning; Glutamate uptake and release; NMDA receptor antagonist; Fear and anxiety (Li, X. (505) 145)

Mu opioid receptor

Delta opioid receptor; Kappa opioid receptor; Inverse agonist (Emmerson, P.J. (494) 121)

Muc5ac

Carbocysteine; Fucosidase; Sialidase; Fucosyltransferase; Sialyltransferase (Ishibashi, Y. (487) 7)

Mucosal ulceration

Salmonella typhi; Gastric hemorrhage; Oxyradical; Glutathione; Ofloxacin (Hung, C.-R. (491) 61)

Multidrug resistance

Azithromycin; P-glycoprotein; Doxorubicin; Mrp2 (Multidrug resistance-associated protein 2); Biliary excretion; (Rat) (Asakura, E. (484) 333)

Avermectins; Calcein; Rhodamine 123; Tumor cells (Korystov, Y.N. (493) 57)

Multidrug resistance-associated protein 2 (Mrp2)

Quinolone antimicrobial agent; Pazufloxacin; P-glycoprotein; Renal excretion; (Rat) (Shimizu, A. (501) 151)

Multiple sclerosis

Anandamide; Uptake; Transporter; Cannabinoid; Cannabinoid receptor (de Lago, E. (484) 249)

Mu-opioid

Heroin; Morphine; Mu-opioid receptor; MOR-1; MOP (Gilbert, A.-K. (492) 123)

Mu-opioid receptor

Heroin; Mu-opioid; Morphine; MOR-1; MOP (Gilbert, A.-K. (492) 123)

mu-opioid receptor

Agonism; Antagonism; Antinociception; (mouse); (Monkey) (Neilan, C.L. (499) 107)

Muscarinic

Nicotinic acetylcholine receptor; Acetylcholine; Agonist; Carbamoylcholine homolog (Jensen, A.A. (497) 125)

Muscarinic M₁ receptor

Dendroaspis angusticeps toxins; [³⁵S]GTPγS binding; Phosphoinositide hydrolysis; [³H]Acetylcholine binding; [³H]N-Methyl-scopolamine binding (Olianas, M.C. (487) 65)

Muscarinic M₁–M₄ receptor

[³H]N-methylscopolamine binding, kinetics of; Eburnamonine; Acetylcholine (Maksay, G. (483) 229)

Muscarinic M₁, M₃ and M₅ receptors

Bladder; Female mouse; Oestrogen; Pregnancy (Ma, S. (487) 205)

Muscarinic receptor

Prepulse inhibition; Scopolamine; AF-DX116; 4-DAMP; Tropicamide; Pirenzepine; (Mouse) (Ukai, M. (492) 183)

Hyperthyroidism, acute; Adrenoceptor; Renal artery; Femoral artery (Iwata, T. (493) 191)

Failing human heart; Aging human heart; α-Adrenoceptor; β-Adrenoceptor; Sympathetic activity (Brodde, O.-E. (500) 167)

Gastrokinetic agent; Z-338 (Doi, Y. (505) 31)

Allodynia; α₂-Adrenoreceptor; Spinal cord; Diabetes (Koga, K. (505) 75)

Muscle pain

Central sensitisation; Fibromyalgia; GABA (gamma aminobutyric acid); Glutamate receptor antagonist; Na⁺ channel blockers (Nielsen, A.N. (487) 93)

Mutagenesis

Antagonism; FR190997; G-protein coupled receptor; Inositol phosphate; Non-peptide (Bellucci, F. (491) 121)

Mutational analysis

Histaprodifen; Histamine H₁ receptor; Agonist binding site; Antagonist binding site (Bruysters, M. (487) 55)

Mycophenolate mofetil

Adrenomedullin; Brown Norway, rat; Mercuric chloride; Autoimmune glomerulonephritis (Shi, Y. (489) 127)

Mydriasis

Serotonin; 5-HT_{1A} receptor; α₂-Adrenoceptor; Miosis; Pupil (Yu, Y. (489) 207)

Myeloperoxidase

Erdosteine; Bleomycin; Lung fibrosis; Hydroxyproline (Sogut, S. (494) 213)

Inflammatory bowel disease; TNBS; Tumour necrosis factor-α; Interferon-γ; Interleukin-10 (Stasi, M.A. (494) 263)

Myocardial fibrosis

VIP (Vasopeptidase Intestinal Peptide); Vasopeptidase inhibition; Angiotensin converting enzyme; Neutral endopeptidase; Cardiac failure (Ye, V.Z.C. (485) 235)

Myocardial stunning

Na⁺/Ca²⁺ exchanger; SEA0400 (Takahashi, T. (505) 163)

Myocarditis

β-Adrenoceptor; Conductance; Pressure–volume loops (Tschöpe, C. (491) 173)

Myocyte

Action potential; Cell shortening; Estrogen receptor; Ca²⁺ current, L-type (Liew, R. (484) 141)

Myocyte, human

Cardiac cell; Ca²⁺ current; Phenol derivative; Electrophysiology; (Magyar, J. (487) 29)

Myometrium

DFU; Nimesulide; Indomethacin; Ductus arteriosus (Karadas, B. (485) 289)

Tachykinin receptors; Neprilysin; Neurokinin A; Neurokinin B; Substance P (Pennefather, J.N. (500) 15)

Myosin light chain kinase

Ca²⁺ channel; Ca²⁺ entry, capacitative; Fura-2; Smooth muscle, airway (Ito, S. (486) 325)

β-myosin heavy chain

Angiotensin II; Trilinolein; Cardiomyocyte hypertrophy; Reactive oxygen species; MAP (mitogen-activated protein) kinase (Liu, J.-C. (484) 1)

Myosin light chain phosphorylation

Capsaicin; Capsazepine; Ca²⁺ influx (Fujimoto, S. (487) 175)

Myosin phosphorylation

NSU-242; Tracheal smooth muscle; Relaxation; Actin assembly (Ozaki, H. (488) 191)

N-acetyl ethanolamide

AM404; Excitatory synaptic transmission; CB₁ receptor; Cannabinoid; Hippocampus (Kelley, B.G. (496) 33)

N^G-nitro-L-arginine methyl ester

Formalin test; d-Phe-Cys-Tyr-d-Trp-Om-Thr-NH₂; Lactoferrin (Hayashida, K.-i. (484) 175)

N^ω-nitro-L-arginine

Cardiac output; Chronotropic; Flavonoid; Haemodynamics; Nitric oxide; Regional blood flow (Wang, S. (491) 43)

N-Hydroxypyrazole

Ibotenic acid; Glutamate receptor; Metabotropic glutamate receptor; Docking; Partial agonism (Clausen, R.P. (499) 35)

N-methyl-D-aspartate receptor

18-Methoxycoronaridine; Ibogaine; Nicotinic receptor; Addiction (Pace, C.J. (492) 159)

N-methyl-D-aspartate (NMDA) receptor

Opiate; Physical dependence; Signal cascade; Ontogeny (Noda, Y. (500) 121)

N-Methyl-D-aspartate receptor

Amino terminal domain; Modulation; Polyamine; Ifenprodil; Zinc (Herin, G.A. (500) 101)

Na⁺–H⁺ exchange inhibitor

LVDP (Left ventricular developed pressure); 31P-NMR (nuclear magnetic resonance); EPR (Electron paramagnetic resonance) spectrometry; Ischemia–reperfusion injury; Apoptosis; (Guinea pig) (Hotta, Y. (503) 109)

Na⁺ channel

Vasorelaxation; Mesaconitine; Endothelial cell; Na⁺/Ca²⁺ exchanger (Ogura, J. (483) 139)

Yohimbine; Vanilloid VR1 receptor; Dorsal root ganglion; Action potential; Firing activity (Dessaint, J. (485) 11)

Na⁺ channel blockers

Central sensitisation; Fibromyalgia; GABA (gamma aminobutyric acid); Glutamate receptor antagonist; Muscle pain (Nielsen, A.N. (487) 93)

Na⁺-Ca²⁺ exchanger

SEA0400; Brain edema; Radiofrequency lesion; Blood–brain barrier (Koyama, Y. (489) 193)

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Na⁺/Ca²⁺ exchanger

Vasorelaxation; Mesaconitine; Endothelial cell; Na⁺ channel (Ogura, J. (483) 139)

SEA0400; Myocardial stunning (Takahashi, T. (505) 163)

Na⁺/Ca²⁺ exchange current

Antiarrhythmic drug; Amiodarone; NCX1; CCL39 fibroblast (Watanabe, Y. (496) 49)

Na⁺/H⁺ exchanger

Apoptosis; Ca²⁺; Cytochrome *c*; Caspase-3; Hypoxia/re-oxygenation (Sun, H.-Y. (486) 121)

Midazolam; Platelet aggregation; Phospholipase C; Cyclic AMP; Thrombosis (Hsiao, G. (487) 159)

Dopamine D₁-like receptor; Protein kinase; OK cell (Gomes, P. (488) 51)

Na⁺-K⁺-ATPase

Parotid gland; Carbachol (Busch, L. (486) 99)

NAD⁺

Cyclic ADP-ribose; Liver perfusion; Hemodynamics; Metabolism (Broetto-Biazon, A.C. (484) 291)

Nalmefene

Opioid receptor antagonist; Food intake; Body weight (Chen, R.Z. (495) 63)

Naloxonazine

μ-Opioid receptor; Dermorphin; Tetrapeptide; Antinociception; Mouse (Mizoguchi, H. (486) 19)

Opioids; Enkephalin analogue cUENK6; Diuresis; Natriuresis; Blood pressure; Natriuretic peptides; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

Naloxone

Morphine withdrawal; Fos; Heart; Hypothalamic paraventricular nucleus; Naloxone methiodide (González-Cuello, A. (487) 117)

Opioid dependence; Opioid withdrawal; (Human); Isradipine; Dextromethorphan; Drug discrimination (Oliveto, A. (491) 157)

Morphine; Dopamine receptor agonists and antagonists; Sensitization; (Mouse) (Zarrindast, M.-R. (497) 197)

Tramadol; Morphine; Antidepressant drug; Discrimination (Filip, M. (498) 143)

Naloxone methiodide

Methadone; Respiratory depression; Radiotelemetry (Lewanowitsch, T. (484) 303)

Morphine withdrawal; Fos; Heart; Hypothalamic paraventricular nucleus; Naloxone (González-Cuello, A. (487) 117)

Naltrexone

Alcoholism; Opioid receptor; 5-HT₃ receptor (Mhatre, M. (491) 149)

1,2-Naphthoquinone

PTP-1B (protein tyrosine phosphatase-1B); Deoxyglucose uptake; Glycogen incorporation; ob/ob mouse (Cheon, H.G. (485) 333)

Nasal mucosa, human

Histamine H₃ receptor; Sympathetic; Taqman (Varty, L.M. (484) 83)

Natriuresis

Opioids; Enkephalin analogue cUENK6; Naloxonazine; Diuresis; Blood pressure; Natriuretic peptides; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

Adrenomedullin2; Renal hemodynamics; Vasodilation; diuresis (Fujisawa, Y. (497) 75)

Natriuretic peptides

Opioids; Enkephalin analogue cUENK6; Naloxonazine; Diuresis; Natriuresis; Blood pressure; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

Natural killer cell

Dehydrocrotonin; Tumour; Cytotoxicity; Anti-tumour (Melo, P.S. (487) 47)

Natural product

Huperzine A; *s*-(–)-3-*n*-butylphthalide; (–)-Clausenamide; *Ginkgo biloba* extract (Zhu, X.X. (500) 221)

NC/Nga mouse

Dermatitis; Animal model; Substance P; Scratching behaviour (Ohmura, T. (491) 191)

Prostaglandin D₂; Scratch; Atopic dermatitis; Pruritus (Arai, I. (505) 229)

NC/Nga, mouse

Atopic dermatitis; Scratching behavior; Itching; MicroAct (Takano, N. (495) 159)

NCX1

Antiarrhythmic drug; Amiodarone; Na⁺/Ca²⁺ exchange current; CCL39 fibroblast (Watanabe, Y. (496) 49)

Necrosis

MonoHER; Reperfusion; Oxidative stress; Neutrophil; Cardiac function (De Celle, T. (494) 205)

Apoptosis; Cyclosporin A; Permeability transition pore; Preservation solution; Rat, liver (Plin, C. (495) 111)

Nefopam

Histamine; Nociception; Writhing; Formalin (Girard, P. (503) 63)

Neocuproine

Gastric fundus, mouse; Photorelaxation; Nitric oxide (NO); *S*-nitrosoglutathione; CuCl₂; Cuprizone (Ögülcener, N. (485) 269)

Neointimal formation

Estrogen; Low-dose (Watanabe, T. (502) 265)

Neonatal asphyxia

Cell culture; α2-adrenoceptor antagonist; Neuronal injury; Neurological function (Ma, D. (502) 87)

Neonatal rat ventricular cell

Toosendanin; L-type Ca^{2+} channel; Whole-cell patch-clamp; Agonist (Li, M.-F. (501) 71)

Neonatal rat ventricular myocyte

U50,488H; Protein content; [^3H]Leucine; Cell size; Adrenoceptor (Wang, G. (498) 53)

Neonatal spinal cord

General anesthetic; Inhalation; Monosynaptic reflex; Nociceptive reflex; Slow ventral root potential (Watanabe, I. (496) 71)

Neonatal, rat

Autonomic nervous system; Hypertension; Spinal cord (Peng, S.-C. (492) 49)

Nephrotic syndrome

Corticosteroid; Ecto-apyrase; Endothelium; Mesangium; Hemopexin (Kapojs, J.J. (501) 191)

Nepriylisin

Myometrium; Tachykinin receptors; Neurokinin A; Neurokinin B; Substance P (Pennefather, J.N. (500) 15)

Neramexane

NMDA receptor antagonist; Ethanol; Reinforcement; Dependence (Kotlinska, J. (503) 95)

Nerve agent

Prophylactic; Physostigmine; Scopolamine; Procyclidine; Cognitive impairment; (Rat) (Myhrer, T. (483) 271)

Nerve growth factor

Neuronal PC12D cells; Survival supporting activity; Neurite regeneration; Phosphatidylinositol-3 kinase; Sargaquinoic acid (Tsang, C.K. (488) 11)

PC12h cell; Neurite outgrowth; Genipin; Cyclic GMP; Mitogen-activated protein kinase (Yamazaki, M. (488) 35)

Nervous

Vagus; Prostanoid; Prostaglandin; DP receptor; 5-HT₃ receptor; Depolarization; Neurone; (Ferret) (Kan, K.K.W. (491) 37)

NES2Y

Y-26763; K_{ATP} channel; Insulin secretion; Human β -cell (Cosgrove, K.E. (486) 133)

NeuN

Cyclosporine A; mdr1a; (Knockout mouse); Brain ischemia (Murozono, M. (498) 115)

Neurite outgrowth

PC12h cell; Genipin; Nerve growth factor; Cyclic GMP; Mitogen-activated protein kinase (Yamazaki, M. (488) 35)

Neurite regeneration

Neuronal PC12D cells; Nerve growth factor; Survival supporting activity; Phosphatidylinositol-3 kinase; Sargaquinoic acid (Tsang, C.K. (488) 11)

Neuro(active)steroid

σ_1 Receptor; β -Amyloid-(1–40) protein; Alzheimer's disease; Depression; Conditioned fear stress; (Rat) (Urani, A. (486) 151)

Neuroactive steroid

GABA_A receptor complex; TBOB; Retigabine; Synergy; Isobole method; Molecular model (van Rijn, C.M. (485) 43)

Neuroblastoma cell

Hydrogen peroxide; Protein kinase B; MAP (mitogen-activated protein kinase (Ruffels, J. (483) 163)

Neurodegeneration

Apomorphine; Eticlopride; Vesicular monoamine transporter; Redistribution (Truong, J.G. (492) 143)

Neurogenesis

Depression; Antidepressant; Monoamine; SSRI; Tricyclic; Dopamine (Millan, M.J. (500) 371)

Neurogenic inflammation

Mast cell; Substance P; Allergy; Exocytosis (Karimi, K. (489) 49)

Neurokinin A

Myometrium; Tachykinin receptors; Neprilysin; Neurokinin B; Substance P (Pennefather, J.N. (500) 15)

Neurokinin B

Myometrium; Tachykinin receptors; Neprilysin; Neurokinin A; Substance P (Pennefather, J.N. (500) 15)

Neurokinin NK₃ receptor

Airway hyperresponsiveness; Severe asthma model; (Guinea pig) (Mukaiyama, O. (498) 287)

Neurokinin receptor1

Interstitial cell of Cajal; Pacemaker current; Substance P; Small intestine (Jun, J.Y. (495) 35)

Neurological function

Neonatal asphyxia; Cell culture; α_2 -adrenoceptor antagonist; Neuronal injury (Ma, D. (502) 87)

Neuromuscular junction

NO (Nitric oxide); Lipopolysaccharide; Contractility; Excitation–contraction coupling; Skeletal muscle (Sara, Y. (505) 177)

Neuron

Pain; Development; Morphine; Analgesia; Uncoupling (Liu, J.-G. (491) 127)

GABA; Epilepsy; Transporter; Betaine transporter; Astrocyte; *exo*-THPO; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

Neuronal injury

Neonatal asphyxia; Cell culture; α_2 -adrenoceptor antagonist; Neurological function (Ma, D. (502) 87)

Neuronal PC12D cells

Nerve growth factor; Survival supporting activity; Neurite regeneration; Phosphatidylinositol-3 kinase; Sargaquinoic acid (Tsang, C.K. (488) 11)

Neurone

Vagus; Prostanoid; Prostaglandin; DP receptor; 5-HT₃ receptor; Depolarization; Nervous; (Ferret) (Kan, K.K.W. (491) 37)

Neuropathic

Cholecystokinin; Nociceptin/orphanin FQ; Spinal cord; Electrophysiology; (Rat) (Maie, I.A. (484) 235)

Neuropathic pain

Monoamine; 5-HT (5-hydroxytryptamine, serotonin); Microdialysis; Morphine (Sounvoravong, S. (484) 217)

Novel chimeric peptide; Opioids; Substance P; Antinociception; (Rat) (Bonney, I.M. (488) 91)

Contralateral treatment; κ -Opioid receptor agonist; U-50,488H; Opioid receptor; (Rat) (Bileviciute-Ljungar, I. (494) 139)

Serotonin; Curative analgesia; F 13640 (Colpaert, F.C. (497) 29)

Antidepressant; Hot-plate; Fluoxetine; Streptozotocin; Tail-immersion (Anjaneyulu, M. (497) 285)

Adenosine A₁ receptor; Chronic constriction injury model; Pharmacokinetic–pharmacodynamic modelling; Sparse data analysis; Anti-hyperalgesic effect; Anti-nociceptive effect (Schaddelee, M.P. (504) 7)

Neuropeptide B

Feeding; Ghrelin; Orexin/hypocretin; Melanin-concentrating hormone; Neuropeptide W (Xu, Y.-L. (500) 243)

Neuropeptide W

Feeding; Ghrelin; Orexin/hypocretin; Melanin-concentrating hormone; Neuropeptide B (Xu, Y.-L. (500) 243)

Neuropeptide Y modulation

Sympathetic neurotransmission; Co-transmission; ATP and purinergic mechanism; Noradrenaline and vasoconstriction; Human vascular neuro-effector junction (Pablo Huidobro-Toro, J. (500) 27)

Neuropharmacology

Proteomics; Neuroscience; Human Proteome Organization; Alzheimer's disease; Schizophrenia (Vercauteren, F.G.G. (500) 385)

Neuroplasticity

Antidepressant; *Arc* (activity-regulated cytoskeletal associated protein); 5-hydroxytryptamine; SNRI (selective 5-HT/noradrenaline reuptake inhibitor); SNRI (selective 5-HT/noradrenaline reuptake inhibitor) (Pei, Q. (489) 179)

Neuroprotection

Tamoxifen; Oxygen radical; Thiobarbituric acid reactive substance; Rat, neonatal (Feng, Y. (484) 65)

Wogonin; Cortical neuron; Antioxidant; Excitotoxicity; Oxidative damage (Cho, J. (485) 105)

Parkinson's disease; AMPA receptor potentiator; LY404187; 6-Hydroxy-dopamine; MPTP; GAP-43 (growth-associated protein-43); BDNF (brain-derived neurotrophic factor); (Rat) (O'Neill, M.J. (486) 163)

Brain ischemia; Oxidative neuronal injury; KR-31378; Antioxidant; K⁺ channel opener (Kim, S.-O. (487) 81)

Dopamine receptor; Oxygen–glucose deprivation; Stroke; Free radical; Anti-oxidant (Miglio, G. (489) 157)

Wogonin; Oxygen and glucose deprivation; Hippocampal slice culture (Son, D. (493) 99)

Neurosteroid; σ_1 Recognition site; Retina (Bucolo, C. (498) 111)

Brain; Pharmacokinetics; Drug delivery; Blood–brain barrier; Erythropoietin; Stroke (Banks, W.A. (505) 93)

Minocycline; Mitochondria; Inflammation (Cornet, S. (505) 111)

Neuroscience

Proteomics; Neuropharmacology; Human Proteome Organization; Alzheimer's disease; Schizophrenia (Vercauteren, F.G.G. (500) 385)

Neurosteroid

σ_1 Recognition site; Retina; Neuroprotection (Bucolo, C. (498) 111)

Ethanol; GABA_A receptor; Gene expression; Pregnancy; Cell culture (Follesa, P. (500) 413)

Neurotoxicity

3,4-Methylenedioxymethamphetamine; Ecstasy; Hyperthermia; Serotonin; Body temperature (Green, A.R. (500) 3)

Flavonoid; GABA_A receptors; NMDA receptors; Patch clamp (Losi, G. (502) 41)

Cyclosporine; NO (nitric oxide); Blood–brain barrier; Permeability; P-glycoprotein (Dohgu, S. (505) 51)

Neurotoxin

Spider; Wasp; Ion channel; Receptor; Transporter and Neurotransmitter release (Beleboni, R.d.O. (493) 1)

Neurotransmitter

Morphine dependence; Glutamate; Excitatory amino acid; Nucleus accumbens; Acamprosate; Riluzole (Sepúlveda, J. (483) 249)

Neurotransmitter release

5-HT autoreceptor; 5-HT_{1B} receptor; 5-HT_{1D} receptor; Selective serotonin re-uptake inhibitor; Antidepressant (Pullar, I.A. (493) 85)

Neurotrophin

Airways; Asthma; Inflammation; NGF (nerve growth factor); Lung (Frossard, N. (500) 453)

Neutral antagonism

Cannabinoid receptor; [³⁵S]GTP γ S; 3-Alkyl-(5,5'-diphenyl)imidazolidine-dione; Inverse agonism (Govaerts, S.J. (495) 43)

Neutral endopeptidase

Myocardial fibrosis; VIP (Vasopeptidase Intestinal Peptide); Vasopeptidase inhibition; Angiotensin converting enzyme; Cardiac failure (Ye, V.Z.C. (485) 235)

Neutrophil

Celecoxib; Cyclooxygenase-2; Superoxide anion; Respiratory burst; Protein kinase C (PKC); Ca²⁺ intracellular; Genistein (Chang-Hui, L. (484) 29)

Inflammatory cytokine; Pulmonary edema; Bronchoalveolar lavage fluid (Jian, M.-Y. (488) 231)

MonoHER; Reperfusion; Oxidative stress; Necrosis; Cardiac function (De Celle, T. (494) 205)

TNF- α ; Arthritis; Immune inflammation; Pentoxifylline; Thalidomide (Bombini, G. (496) 197)

CC chemokine; Colitis; Inflammation; TNBS (Ajuebor, M.N. (497) 343)

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

PPAR- γ ; Rosiglitazone; Ischemia–reperfusion; Reactive oxygen specie; Cyclooxygenase (Villegas, I. (505) 195)

Neutrophil accumulation

Intestinal ischemia/reperfusion; Lung inflammation; Adult respiratory distress syndrome; Vascular permeability; NO(Nitric oxide) (Cavriani, G. (494) 241)

Neutrophil elastase

Acid aspiration; Acute lung injury; Sivelestat (Hagio, T. (488) 173)

Neutrophil infiltration

Compound 48/80; Gastric mucosal lesionrat; Teprenone; Gastric mucus; Oxidative stress (Ohta, Y. (487) 223)

Neutrophils

Leukotrienes; Arthritis; Zymosan; Hyperalgesia; Pain (da Rocha, F.A.C. (497) 81)

NF- κ B

Triptolide; NO (Nitric oxide); iNOS; JNK (Kim, Y.-H. (494) 1)

NF-kappaB p50 subunit

Meningitis; *Streptococcus pneumoniae*; NF-kappaB1; Host response (Kastenbauer, S. (498) 315)

NF-kappaB1

Meningitis; *Streptococcus pneumoniae*; NF-kappaB p50 subunit; Host response (Kastenbauer, S. (498) 315)

NGB2904

Quinpirole; Vesicle; Eticlopride; Clozapine; Traffick (Truong, J.G. (504) 27)

NGF (nerve growth factor)

Airways; Asthma; Inflammation; Neurotrophin; Lung (Frossard, N. (500) 453)

N^ω-Propyl-L-arginine

Prepulse inhibition; Phencyclidine; Locomotor activity; Nitric oxide; (Mouse) (Klamer, D. (503) 103)

Nicergoline

Haloperidol; Glutathione reductase; Glutathione peroxidase; Superoxide dismutase (Vairetti, M. (505) 121)

Nickel

Urocortin; Relaxation; Pulmonary artery (Lau, C.-W. (488) 169)

Nicotine

Dopamine release; Dopamine autoreceptor; Ventral tegmental area; Nucleus accumbens; In vivo microdialysis (Rahman, S. (494) 31)

Epibatidine; Dopamine; Caudate-putamen; Nucleus accumbens; In vivo microdialysis (Janhunen, S. (494) 167)

Aldosterone; Stress (Stier Jr., C.T. (495) 167)

Carotid body; Atracurium; Vecuronium; Acetylcholine receptor; Anesthetic (Jonsson, M. (497) 173)

Self-administration; Cocaine; Food; Metabotropic glutamate receptors; MPEP (Tessari, M. (499) 121)

Nonsynaptic; Transmitter release; Two-photon imaging; Ca²⁺ (Sylvester Vizi, E. (500) 499)

Adolescence; Autoradiography; Dopamine; Serotonin (Collins, S.L. (502) 75)

Nitric oxide; Conditioned place preference; (mouse); L-arginine; L-NAME (Sahraei, H. (503) 81)

Huntington's disease; 3-Nitropropionica acid; Oxidative stress (Túnez, I. (504) 169)

Nicotinic acetylcholine receptor

Acetylcholine; Agonist; Carbamoylcholine homolog; Muscarinic (Jensen, A.A. (497) 125)

α 7 subunit; α 7/5-HT3 chimera; HEK-293 cells; (Human) (Craig, P.J. (502) 31)

Nicotinic receptor

18-Methoxycoronaridine; Ibogaine; *N*-methyl-D-ASPARTATE RECEPTOR; Addiction (Pace, C.J. (492) 159)

L-NIL (*N*-iminoethyl-L-lysine)

Inducible nitric oxide synthase; L-arginine; Atherosclerosis; (Rabbit); Superoxide anion (Simonet, C. (492) 211)

Nimesulide

DFU; Indomethacin; Myometrium; Ductus arteriosus (Karadas, B. (485) 289)

Nitrgenic innervation

Mesenteric artery; cAMP; PKA (protein kinase A); Forskolin (Ferrer, M. (487) 167)

Nitrgenic relaxation

Polyethylene-glycol-superoxide dismutase; Cu/Zn superoxide dismutase; Diethyldithiocarbamate; 6-Anilino-5,8-quinolinedione; Gastric fundus; (Pig) (De Backer, O. (486) 223)

Nitric oxide

Cardiac output; Chronotropic; Flavonoid; Haemodynamics; N^ω-nitro-L-arginine; Regional blood flow (Wang, S. (491) 43)

K_{ATP}; c-GMP; PKG; Urinary bladder (Deka, D.K. (492) 13)

Vitamin B₂; I.v. infusion; Proinflammatory cytokine (Toyosawa, T. (492) 273)

Amiodarone; Dronedarone; L-NOARG; (Guinea pig); Coronary pressure (Guiraudou, P. (496) 119)

Corpus cavernosum relaxation; Cholestasis; Acetylcholine; Indomethacin; (Rat) (Dehghani, M. (496) 181)

Migraine; Trigeminovascular system; Middle meningeal artery; Laser Doppler (Peitl, B. (497) 293)

Atorvastatin; Phosphodiesterase-5 inhibitor; Sildenafil; Statins; Vascular reactivity (Castro, M.M. (498) 189)

Endothelin-1; Lipopolysaccharide; Mesenteric artery; Rho-kinase; Y-27632 (Büyükaşar, K. (498) 211)

NMDA; Inflammation; Joint; CGRP; CAM kinase (Lawand, N.B. (499) 155)

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

Melatonin; Macrophage; Inducible nitric oxide synthase; Nuclear factor κ B (Zhang, S. (501) 25)

Paw oedema; Potassium channel; Guanylate cyclase; Plasma leakage; Inflammation (Fernandes, D. (501) 209)

PIFIR model; Indomethacin; Antinociception; (Rat) (Ventura-Martínez, R. (503) 43)

Nicotine; Conditioned place preference; (Mouse); L-arginine; L-NAME (Sahraei, H. (503) 81)

Prepulse inhibition; Phencyclidine; Locomotor activity; *N*^o-Propyl-L-arginine; (Mouse) (Klamer, D. (503) 103)

Ursodeoxycholic acid; Human endothelial cell; Endothelin-1; Real-time RT-PCR (Ma, J. (505) 67)

Nitric oxide (NO)

Guanylyl cyclase; Streptonigrin (Severina, I.S. (483) 127)

Caspase; 7-Nitroindazole; Malonate; Oxidative stress (Paucard, A. (483) 259)

Aspirin; Ticlopidine; Clopidogrel; Platelet; Platelet–subendothelium interaction (De La Cruz, J.P. (484) 19)

Rofecoxib; Cyclooxygenase (Déciga-Campos, M. (484) 193)

5-Aza-2'-deoxycytidine; Paclitaxel; iNOS (nitric oxide (NO) synthase, inducible); L929; Fibrosarcoma (Miljkovic, D. (485) 81)

Gastric fundus, mouse; Photorelaxation; S-nitrosoglutathione; CuCl₂; Neocuproine; Cuprizone (Ögülcener, N. (485) 269)

Cholestasis; Cannabinoid system; Anandamide; Opioid system; Mesenteric vessel; (Rat) (Moezi, L. (486) 53)

Halothane; Sevoflurane; Renal blood flow; Microdialysis (Kusudo, K. (498) 267)

Calcitonin gene-related peptide (CGRP); Ischemic preconditioning; Ischemia–reperfusion; Capsaicin (Luo, D. (502) 135)

Nitric oxide synthase

Histamine sensitisation; Pertussis toxin; Small mesenteric resistance artery (van Meijeren, C.E. (493) 139)

Mildronate; γ -butyrobetaine; γ -butyrobetaine ester; NO (Nitric oxide); Vasorelaxation (Sjakste, N. (495) 67)

Glyceryl trinitrate; Tolerance, ex vivo; Aldehyde dehydrogenase; Super-oxide (de la Lande, I.S. (496) 141)

Nitric oxide synthase regulation

Oestrogen; Selective oestrogen-receptor modulator; Raloxifene; Heart; Cardiac ischaemia (Nemcsik, J. (495) 179)

Nitrobenzylthioinosine

Adenosine; Dipyridamole; Draflazine; Transporter (Hammond, J.R. (491) 9)

7-Nitroindazole

Caspase; Nitric oxide (NO); Malonate; Oxidative stress (Paucard, A. (483) 259)

Nitroparacetamol, Nitroflurbiprofen

Interleukin-1 β ; TNF- α (tumour necrosis factor- α); Lipopolysaccharide; Blood (Marshall, M. (483) 317)

3-Nitropropionic acid

Huntington's disease; Oxidative stress; Glucocorticoid (Montilla, P. (488) 19)

3-Nitropropionica acid

Huntington's disease; Nicotine; Oxidative stress (Túnez, I. (504) 169)

Nitrosourea

Glutathione; Oxidative stress; Ca²⁺ channel; Intracellular Ca²⁺; Cl[−] channel (Doroshenko, N. (497) 17)

Nitrous oxide

Corticotropin releasing factor; Isoflurane; Propofol; c-Fos (Sawamura, S. (503) 49)

NMDA

Cyclooxygenase-2; Oxygen-glucose deprivation; Ca²⁺; Primary cortical culture; Excitotoxicity (Gendron, T.F. (493) 45)

Inflammation; Joint; Nitric oxide; CGRP; CAM kinase (Lawand, N.B. (499) 155)

NMDA receptor

Postoperative pain; CP-101,606; (Knockout mouse) (Nishimura, W. (503) 71)

NMDA receptor antagonist

Neramexane; Ethanol; Reinforcement; Dependence (Kotlinska, J. (503) 95)

MS-153; Contextual fear conditioning; Glutamate uptake and release; Fear and anxiety (Li, X. (505) 145)

NMDA receptors

Flavonoid; GABA_A receptors; Patch clamp; Neurotoxicity (Losi, G. (502) 41)

N-Methyl-D-aspartate receptor

D-Amino acid oxidase; Glycine site; D-Serine; L-Serine; Serine racemase (Hashimoto, A. (495) 153)

NMR (nuclear magnetic resonance)

Cardiac troponin C; Levosimendan; Drug interaction (Sorsa, T. (486) 1)

NO (nitric oxide)

Mesangial cell, rat; Interleukin 1- β ; Statin; Cerivastatin; NO (nitric oxide) synthase, inducible; Cyclooxygenase-2 (Blume, C. (485) 1)

Constant-pressure perfusion; Mesenteric vascular bed; (Rat); Endothelium; K⁺ channel, Ca²⁺-dependent (Fujioka, H. (485) 219)

Cyclosporine; Neurotoxicity; Blood–brain barrier; Permeability; P-glycoprotein (Dohgu, S. (505) 51)

NO (Nitric oxide)

Diabetes; Endothelin-1; Endothelin ET_A receptor; Endothelin ET_B receptor; Endothelium; Carotid artery (Lloréns, S. (486) 43)

EDHF (endothelium-derived hyperpolarizing factor); Gender; Vasoconstriction; Vasodilatation (Wangenstein, R. (486) 281)

Diabetes; Endothelin-1; Endothelium; Basilar artery; (Rabbit) (Alabadi, J.A. (486) 289)

Bronchoconstriction; Lung; Mast cell; Anaphylaxis; Spontaneously hypertensiverat (Kwasniewski, F.H. (488) 181)

Lithium chloride; Stress axis; c-Fos; Inducible cAMP early repressor (Jahng, J.W. (489) 111)

Stress; Elevated plus maze; Adaptation (Masood, A. (493) 111)

Triptolide; iNOS; NF- κ B; JNK (Kim, Y.-H. (494) 1)

Mildronate; γ -butyrobetaine; γ -butyrobetaine ester; Nitric oxide synthase; Vasorelaxation (Sjakste, N. (495) 67)

Angiogenesis; Antiinflammatory; Genipin; Inducible nitric oxide synthase; Lipid peroxidation (Koo, H.-J. (495) 201)

Acyclic nucleoside phosphonate; Adenosine receptor (Zidek, Z. (501) 79)

Human pulmonary arteries; Arachidonic acid; Cyclooxygenase; Cytochrome P450; K^+ channels (Guerard, P. (501) 127)

Lipopolysaccharide; Contractility; Excitation–contraction coupling; Neuromuscular junction; Skeletal muscle (Sara, Y. (505) 177)

NO(Nitric oxide)

Intestinal ischemia/reperfusion; Lung inflammation; Neutrophil accumulation; Adult respiratory distress syndrome; Vascular permeability (Cavriani, G. (494) 241)

NO (Nitric Oxide)

cGMP (cyclic guanosine 3',5'-monophosphate); Calcium; Aggregation; Platelet; SNAP (*S*-nitroso-*N*-acetyl-D,L-penicillamine); GEA 3175 (Asplund Persson, A.K. (496) 1)

NO (nitric oxide) synthase inhibition

Aortarot; Endothelium; Glyceryl trinitrate metabolism; Glyceryl dinitrate; Artery relaxation; Tolerance *ex vivo* (de la Lande, I.S. (486) 201)

NO (nitric oxide) synthase, inducible

Mesangial cell, rat; Interleukin 1- β ; Statin; Cerivastatin; NO (nitric oxide); Cyclooxygenase-2 (Blume, C. (485) 1)

NO donor

PF9404C; Vascular selectivity; Tolerance (Ruiz-Nuño, A. (498) 203)

Nociceptin

J-113397; Microdialysis; Orphanin FQ; Amygdala; (Rat) (Kawahara, Y. (485) 197)

Nocistatin; Anxiogenic effect; Anxiolytic effect; Hole-board; 5-HT_{1A} receptor (Kamei, J. (489) 77)

Nociceptin/orphanin FQ

Cholecystokinin; Spinal cord; Neuropathic; Electrophysiology; (Rat) (Maie, I.A. (484) 235)

Nociception

Analgesics; Animal model; Chronic pain; (Rat) (De Vry, J. (491) 137)

Pain; Fruit fly (Manev, H. (491) 207)

YM598; Antagonist; Endothelin ET_A receptor; Prostate cancer (Yuyama, H. (492) 177)

Nefopam; Histamine; Writhing; Formalin (Girard, P. (503) 63)

Nociceptive reflex

General anesthetic; Inhalation; Monosynaptic reflex; Slow ventral root potential; Neonatal spinal cord (Watanabe, I. (496) 71)

Nocistatin

Nociceptin; Anxiogenic effect; Anxiolytic effect; Hole-board; 5-HT_{1A} receptor (Kamei, J. (489) 77)

Noise trauma

Edaravone; Reactive oxygen species; Cochlear protection (Takemoto, T. (487) 113)

Nomifensine

Bupropion; Dopamine D1 receptor; Dopamine D2 receptor; Antidepressant; Forced swimming test (Yamada, J. (504) 207)

Non-adenyl cyclase-coupled

Dopamine D1-like receptor; Adenyl cyclase-coupled; SK&F 83822; Behavioural topography; Dopamine D1-like: D2-like receptor interaction; (Mouse) (O'Sullivan, G.J. (486) 273)

Noncompetitive

GABA_A receptor; Ginkgolide; Picrotoxinin; Two-electrode voltage clamp; *Xenopus* oocyte (Huang, S.H. (494) 131)

Nonpeptide antagonists

Binding site; G protein-coupled receptor; Molecular modelling; Site-directed mutagenesis (Meini, S. (488) 61)

Non-peptide

Antagonism; FR190997; G-protein coupled receptor; Inositol phosphate; Mutagenesis (Bellucci, F. (491) 121)

Nonsteroidal anti-inflammatory drug

Cyclooxygenase isoform; Parecoxib; Ketorolac; Hyperalgesia (Padi, S.S.V. (491) 69)

Non-steroidal anti-inflammatory drug

Antioxidant activity; Hydroxyl radical; Hydrogen peroxide; Hypochlorous acid (Van Antwerpen, P. (496) 55)

Nonsteroidal Anti-inflammatory drugs

K^+ channels; Antinociception; G-protein-coupled receptor; Opioid; Tricyclic antidepressant (Ocaña, M. (500) 203)

Nonsynaptic

Nicotine; Transmitter release; Two-photon imaging; Ca^{2+} (Sylvester Vizi, E. (500) 499)

Nonthiazolidinedione

FK614; Insulin sensitizer; *db/db*, mouse; *ob/ob*, mouse; Peroxisome proliferator-activated receptor (PPAR) γ (Minoura, H. (494) 273)

Noradrenaline

Capacitance; Mean circulatory filling pressure; Vasoconstriction (Cheng, X. (484) 263)

α_1 -Adrenoceptor subtype; α_1 -Adrenoceptor antagonist; B8805-033; Chloroethylclonidine; Tail artery, rat (Jähnichen, S. (488) 157)

Serotonin; Dopamine; Reboxetine; Lithium carbonate; *In vivo* microdialysis (Kitaichi, Y. (489) 187)

ATP; Vas deferens; Synergism; PKC (Smith, N.C.E. (498) 241)

α_1 -Adrenoceptor; Electrical field stimulation; Femoral small artery (Zacharia, J. (503) 155)

L-NOARG

Amiodarone; Dronedarone; Nitric oxide; (Guinea pig); Coronary pressure (Guiraudou, P. (496) 119)

Noradrenaline and vasoconstriction

Sympathetic neurotransmission; Co-transmission; ATP and purinergic mechanism; Neuropeptide Y modulation; Human vascular neuroeffector junction (Pablo Huidobro-Toro, J. (500) 27)

Noradrenaline release

Prejunctional adenosine receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Immunohistochemistry; Tail artery; rat (Diniz, C. (504) 17)

Nor-binaltorphimine

Benzomorphan; Arylacetamide; κ -Opioid receptor (Rusovici, D.E. (485) 119)

Norepinephrine

Adiponectin; Resistin; HypoThalamus; Dopamine; Serotonin (Brunetti, L. (493) 41)

Vascular reactivity; (Rat); Portal vein; Hyperthermia; Acidosis; Angiotensin (Pastor, C.M. (494) 191)

Novel cannabinoid receptor antagonist

Cannabidiol; Abnormal-cannabidiol; WIN55212; Cannabinoid CB₁ receptor; Mouse vas deferens (Thomas, A. (487) 213)

Novel chimeric peptide

Opioids; Substance P; Antinociception; Neuropathic pain; (Rat) (Bonney, I.M. (488) 91)

NPPB

Intermediate-conductance Ca²⁺-activated K⁺ channel; Cl[−] current; HL-60 cell; GL-15 cell; Patch clamp recording (Fioretti, B. (497) 1)

NS-398

Cyclooxygenase inhibitor; Cough reflex; Antitussive effect; SC-560 (Kamei, J. (497) 233)

NSAID

COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; iNOS; Peroxynitrite (Whittle, B.J.R. (500) 427)

Prostaglandin E₂; TNF α ; Cyclooxygenase; Glucocorticoid; Monocyte (Ulcarr, R. (501) 9)

Rofecoxib; Ibuprofen; bFGF expression; VEGF expression; Apoptosis; Proliferation (Sánchez-Fidalgo, S. (505) 187)

NSU-242

Tracheal smooth muscle; Relaxation; Myosin phosphorylation; Actin assembly (Ozaki, H. (488) 191)

Nuclear factor κ B

Melatonin; Macrophage; Nitric oxide; Inducible nitric oxide synthase (Zhang, S. (501) 25)

Eotaxin; Lung granuloma; Sephadex bead; Tumor necrosis factor- α ; Vitamin A (Torii, A. (497) 335)

Asthma; Histone acetylation/deacetylation; Glucocorticoid resistance (Hayashi, R. (500) 51)

Human monocyte; Tumor necrosis factor- α ; Rofecoxib; Indomethacin; Dexamethasone (Lavagno, L. (501) 199)

Nucleus accumbens

3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Ventral tegmental area (Yang, S.-C. (494) 179)

Nucleus accumbens

Morphine dependence; Glutamate; Excitatory amino acid; Neurotransmitter; Acamprosate; Riluzole (Sepúlveda, J. (483) 249)

Deltorphin II; Extracellular dopamine; Opioid receptor; Tetrodotoxin (Murakawa, K. (491) 31)

Nicotine; Dopamine release; Dopamine autoreceptor; Ventral tegmental area; In vivo microdialysis (Rahman, S. (494) 31)

Nicotine; Epibatidine; Dopamine; Caudate-putamen; In vivo microdialysis (Janhunen, S. (494) 167)

Nutrient

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; HypoThalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

ob/ob mouse

PTP-1B (protein tyrosine phosphatase-1B); 1,2-Naphthoquinone; Deoxyglucose uptake; Glycogen incorporation (Cheon, H.G. (485) 333)

ob/ob, mouse

FK614; Nonthiazolidinedione; Insulin sensitizer; *db/db*, mouse; Peroxisome proliferator-activated receptor (PPAR) γ (Minoura, H. (494) 273)

Obesity

Serotonin; Dopamine; Psychostimulant; Antidepressant; Antipsychotic; Food intake; Transgenic (Giorgetti, M. (488) 1)

Insulin; Diabetes mellitus (Lebovitz, H.E. (490) 135)

Appetite; Benzodiazepine; Endocannabinoid; Opioid; Palatability (Cooper, S.J. (500) 37)

Obsessive-compulsive disorder

MG50039; Glutamate; Marble-burying behavior test (Shimazaki, T. (501) 121)

Occupancy

Cocaine; Pharmacokinetics; Reinforcement; Self-administration; Rhesus monkey (Woolverton, W.L. (486) 251)

Glucagon; Receptor; Binding; Antagonist (Dallas-Yang, Q. (501) 225)

Oesophageal striated muscle

Ryanodine; Sarcoplasmic reticulum; SHRSP (stroke-prone spontaneously hypertensive rat); Twitch contraction (Sekiguchi, F. (486) 91)

Oesophagus muscularis mucosae

β_2 -Adrenoceptor; β_3 -Adrenoceptor; Protein kinase C; Receptor cross-talk (Oostendorp, J. (495) 75)

Oestrogen

Bladder; Female mouse; Muscarinic M₁, M₃ and M₅ receptors; Pregnancy (Ma, S. (487) 205)

Nitric oxide synthase regulation; Selective oestrogen-receptor modulator; Raloxifene; Heart; Cardiac ischaemia (Nemcsik, J. (495) 179)

Oestrogen receptor

Diosgenin; Porcine coronary artery; Iberiotoxin-sensitive; Ca²⁺-activated K⁺ (BK_{Ca}) channel (Au, A.L.S. (502) 123)

17 β -Oestradiol

Anandamide; Vasorelaxation; Sex difference; (Sprague-Dawley rat) (Peroni, R.N. (493) 151)

Ofloxacin

Salmonella typhi; Gastric hemorrhage; Mucosal ulceration; Oxyradical; Glutathione (Hung, C.-R. (491) 61)

OK cell

Na⁺/H⁺ exchanger; Dopamine D₁-like receptor; Protein kinase (Gomes, P. (488) 51)

Olfactory-bulbectomized rat

Allopregnanolone; Antidepressant (Uzunova, V. (486) 31)

Oligomerization

Prostacyclin; Prostanoid IP receptor; G-protein-coupled receptor; Dimerization; Cysteine (GiguereGiguère, V. (494) 11)

Ondansetron

Cocaine; Self-administration; Withdrawal (Davidson, C. (503) 99)

Ontogeny

Opiate; Physical dependence; *N*-methyl-D-aspartate (NMDA) receptor; Signal cascade (Noda, Y. (500) 121)

14-*O*-methyloxymorphone

Opioid receptor; μ -Opioid receptor agonist; Binding affinity; Vas deferens; Mouse (Spetea, M. (483) 301)

Operant behavior

Appetite; Cannabinoid CB₁ receptor; Conditioned taste aversion; Ingestive behavior; Intracranial self-stimulation; Locomotor activity; (Rat) (De Vry, J. (483) 55)

Opiate

Physical dependence; *N*-methyl-D-aspartate (NMDA) receptor; Signal cascade; Ontogeny (Noda, Y. (500) 121)

Opiate drug

Fas receptor aggregate; Fas protein; Deglycosylation; Morphine addiction; Brain, rat (Garcia-Fuster, M.J. (496) 63)

Opioid

(–)-Linalool; Antinociception; Cholinergic; Dopamine; K⁺ channel; ATP-sensitive channel (Peana, A.T. (485) 165)

Genetic difference; Pharmacokinetic; Pharmacodynamic (Bulka, A. (492) 27)

Immune system; 4,5-Epoxy-morphinans; Cell proliferation; Structure–effect relationship (Hutchinson, M.R. (494) 251)

Appetite; Benzodiazepine; Endocannabinoid; Obesity; Palatability (Cooper, S.J. (500) 37)

K⁺ channels; Antinociception; G-protein-coupled receptor; Nonsteroidal Anti-inflammatory drugs; Tricyclic antidepressant (Ocaña, M. (500) 203)

MAP kinase; Epidermal growth factor receptor; Human embryonic kidney 293 cell; Extracellular signal-regulated kinase; G protein-coupled receptor (Schulz, R. (500) 487)

Metamizol; Antinociception; Potentiation; Tolerance; Cross-tolerance (Hernández-Delgadillo, G.P. (502) 67)

Hyperalgesia; Inflammation; TENS; Carrageenan; Electrotherapy (Resende, M.A. (504) 217)

Opioid addiction

Opioid peptide; Opioid receptor; Transcription factor; Gene expression (Przewlocki, R. (500) 331)

Opioid dependence

Opioid withdrawal; Naloxone; (Human); Isradipine; Dextromethorphan; Drug discrimination (Oliveto, A. (491) 157)

Opioid peptide

Opioid addiction; Opioid receptor; Transcription factor; Gene expression (Przewlocki, R. (500) 331)

Opioid receptor

μ -Opioid receptor agonist; 14-*O*-methyloxymorphone; Binding affinity; Vas deferens; Mouse (Spetea, M. (483) 301)

Deltorphin II; Extracellular dopamine; Tetrodotoxin; Nucleus accumbens (Murakawa, K. (491) 31)

Alcoholism; Naltrexone; 5-HT₃ receptor (Mhatre, M. (491) 149)

Epsilon receptor; Knockout mice; [³⁵S]GTP γ S binding assay (Contet, C. (492) 131)

Neuropathic pain; Contralateral treatment; κ -Opioid receptor agonist; U-50,488H; (Rat) (Bileviciute-Ljungar, I. (494) 139)

Bremazocine; Potassium channel; Peripheral antinociception; Carrageenan (Amarante, L.H. (494) 155)

Opioid addiction; Opioid peptide; Transcription factor; Gene expression (Przewlocki, R. (500) 331)

Acetaminophen; Paracetamol (Raffa, R.B. (503) 209)

 δ -Opioid receptor

Trafficking, agonist-directed; Down-regulation (Navratilova, E. (485) 341)

Enkephalin; Cysteine; Affinity; Efficacy (Pencheva, N. (498) 249)

 κ -Opioid receptor

Benzomorphan; Arylacetamide; Nor-binaltorphimine (Rusovici, D.E. (485) 119)

Antagonist; JDTC; Antinociception; Tail-flick; Diuresis (Carroll, I. (501) 111)

 μ -Opioid receptor

CCR5 chemokine receptor; Heterodimer; Cross-desensitization (Chen, C. (483) 175)

Dermorphin; Tetrapeptide; Naloxonazine; Antinociception; (mouse) (Mizoguchi, H. (486) 19)

Up-regulation; Down-regulation; Intermittent and continuous dosing (Yoburn, B.C. (498) 87)

 κ -Opioid receptor agonist

Neuropathic pain; Contralateral treatment; U-50,488H; Opioid receptor; (Rat) (Bileviciute-Ljungar, I. (494) 139)

Opioid receptor antagonist

Nalmefene; Food intake; Body weight (Chen, R.Z. (495) 63)

 μ -Opioid receptor antagonist

Opioid receptor; 14-*O*-methyloxymorphone; Binding affinity; Vas deferens; Mouse (Spetea, M. (483) 301)

Opioid system

Cholestasis; Cannabinoid system; Anandamide; Nitric oxide (NO); Mesenteric vessel; (Rat) (Moezi, L. (486) 53)

Opioid tolerance

Hyperalgesia; Lipoxigenase; Spinal, rat (Trang, T. (491) 21)

Metabotropic glutamate receptors; Phosphatidylinositol cascade; Analgesia; (Mouse) (Smith, F.L. (492) 137)

Opioid withdrawal

Opioid dependence; Naloxone; (Human); Isradipine; Dextromethorphan; Drug discrimination (Oliveto, A. (491) 157)

Opioids

Novel chimeric peptide; Substance P; Antinociception; Neuropathic pain; (Rat) (Bonney, I.M. (488) 91)

Enkephalin analogue cUENK6; Naloxonazine; Diuresis; Natriuresis; Blood pressure; Natriuretic peptides; Urodilatin; Vasopressin (Gutkowska, J. (496) 167)

OR-1896

Ca²⁺-sensitization; Phosphodiesterase inhibition; Phosphodiesterase sub-type; Positive inotropy; Levosimendan (Szilágyi, S. (486) 67)

Orexin/hypocretin

Feeding; Ghrelin; Melanin-concentrating hormone; Neuropeptide B; Neuropeptide W (Xu, Y.-L. (500) 243)

Organic anion transporter

Skeletal muscle; HMG-CoA reductase; Rhabdomyolysis; Transport (Takeda, M. (483) 133)

Organic cation transporter; Famotidine; Cimetidine; Renal tubular secretion (Motohashi, H. (503) 25)

Organic cation transporter

Antiarrhythmic drug; Transport; Quinidine; Lidocaine (Hasannejad, H. (499) 45)

Organic anion transporter; Famotidine; Cimetidine; Renal tubular secretion (Motohashi, H. (503) 25)

Orlistat

Western-type diet; Fat absorption; Atherosclerosis (Ueshima, K. (501) 137)

Orphanin FQ

J-113397; Microdialysis; Nociceptin; Amygdala; (Rat) (Kawahara, Y. (485) 197)

Osteoblast

Quercetin; Flavonoid; Proliferation; Differentiation; Cell cycle (Notoya, M. (485) 89)

Osteoporosis

22-Oxalcitriol; Chronotherapy; Hypercalcemia (Tsuruoka, S. (488) 239)

Ouabain

Human heart; Skinned fibre; Caffeine; Ryanodine channel (Hambarchian, N. (492) 225)

Outflow facility

2-Alkynyladenosine derivative; Adenosine A₂ receptor; Intraocular pressure (Konno, T. (486) 307)

Outward potassium current

Risperidone; Heart, human; Action potential (Gluais, P. (497) 215)

Ovalbumin

Adenosine; Airway hyperresponsiveness; Allergen challenge; Compound 48/80; Rat, Brown Norway; Lung parenchymal strip (Wolber, C. (498) 227)

Ovarian hormone

Hypothyroidism; Thyroid hormone; Thyroxine; Gonadotropin; Estrous cycle (Hatsuta, M. (486) 343)

Ovariectomy

Estrogen; Tamoxifen; Gene expression; K⁺ channel; Ca²⁺ channel; (Rat) (Tsang, S.Y. (483) 155)

22-Oxalcitriol

Osteoporosis; Chronotherapy; Hypercalcemia (Tsuruoka, S. (488) 239)

Oxidative damage

Wogonin; Neuroprotection; Cortical neuron; Antioxidant; Excitotoxicity (Cho, J. (485) 105)

Oxidative injury

Amyloid- β peptide; Garlic compound; Antioxidant defense; Learning; Memory; Alzheimer disease (Pérez-Severiano, F. (489) 197)

Oxidative neuronal injury

Brain ischemia; KR-31378; Neuroprotection; Antioxidant; K⁺ channel opener (Kim, S.-O. (487) 81)

Oxidative stress

Caspase; Nitric oxide (NO); 7-Nitroindazole; Malonate (Paucard, A. (483) 259)

Compound 48/80; Gastric mucosal lesionrat; Teprenone; Gastric mucus; Neutrophil infiltration (Ohta, Y. (487) 223)

3-Nitropropionic acid; Huntington's disease; Glucocorticoid (Montilla, P. (488) 19)

Simvastatin; Fenofibrate; Type 2 diabetes; Endothelial function (Škrha, J. (493) 183)

MonoHER; Reperfusion; Necrosis; Neutrophil; Cardiac function (De Celle, T. (494) 205)

Ebselen; Focal ischemia; Cerebral infarct; (Rat) (Salom, J.B. (495) 55)

Nitrosourea; Glutathione; Ca²⁺ channel; Intracellular Ca²⁺; Cl⁻ channel (Doroshenko, N. (497) 17)

Angiotensin 1-converting enzyme; Bradykinin; Diabetes mellitus; Kinin B₁ receptor; Kinin B₂ receptor (Couture, R. (500) 467)

Basilar artery; Diabetes; Endothelium; Insulin; Relaxation (Matsumoto, T. (504) 119)

Huntington's disease; Nicotine; 3-Nitropropionica acid (Túnez, I. (504) 169)

Oxygen and glucose deprivation

Wogonin; Hippocampal slice culture; Neuroprotection (Son, D. (493) 99)

Thermogenesis; Bupropion; Brown adipose tissue; Brown fat (Liu, Y.-L. (498) 219)

Oxygen radical

Tamoxifen; Neuroprotection; Thiobarbituric acid reactive substance; Rat, neonatal (Feng, Y. (484) 65)

Oxygen–glucose deprivation

Dopamine receptor; Neuroprotection; Stroke; Free radical; Anti-oxidant (Miglio, G. (489) 157)

Cyclooxygenase-2; NMDA; Ca^{2+} ; Primary cortical culture; Excitotoxicity (Gendron, T.F. (493) 45)

Oxyradical

Salmonella typhi; Gastric hemorrhage; Mucosal ulceration; Glutathione; Ofloxacin (Hung, C.-R. (491) 61)

31P-NMR (nuclear magnetic resonance)

$\text{Na}^+ - \text{H}^+$ exchange inhibitor; LVDP (Left ventricular developed pressure); EPR (Electron paramagnetic resonance) spectrometry; Ischemia–reperfusion injury; Apoptosis; (Guinea pig) (Hotta, Y. (503) 109)

p21^{WAF1/CIP1}

HMA (5-(*N,N*-hexamethylene)-amiloride); Apoptosis; JNK; c-Jun; p53 (Suzuki, T. (503) 1)

P2X receptor

Presynaptic; Postsynaptic; P2Y receptor; ATP (Illes, P. (483) 5)

ATP; Site-directed mutagenesis; *Xenopus* oocyte; Membrane current (Nakazawa, K. (483) 29)

P2X receptors

Pain; Hyperalgesia; Inflammation; Peripheral sensitization; Mechanosensitivity (Wu, G. (504) 45)

P2X₂ receptor

Channel pore mutant; Desensitization; ATP responsiveness (Nakazawa, K. (495) 27)

P2Y receptor

Presynaptic; Postsynaptic; P2X receptor; ATP (Illes, P. (483) 5)

Ecto-ATPase; Chromaffin cell; ARL 67156; Inositol phosphate (Drakulich, D.A. (485) 137)

P2Y₄ receptor

Uridine 5'-triphosphate; α, β -Methyleneadenosine 5'-triphosphate; Basilar artery; Ectonucleotidase; Smooth muscle (Miyagi, Y. (488) 117)

p38

Monocyte; TNF- α ; Adenosine; mRNA stability (Fotheringham, J.A. (497) 87)

p38 MAP (mitogen-activated protein) kinase

Hydrogen peroxide; Ebselen; Apoptosis; HUVEC (human umbilical vein endothelial cell) (Ali, N. (485) 127)

p38 MAP kinase

FR167653; Calreticulin; Endoplasmic reticulum stress (Yamazaki, T. (484) 147)

Serum-deprivation; Free radical scavenger; Endothelial dysfunction; Bradykinin; Tyrosine kinase (Maeda, Y. (491) 53)

p38 MAPK

Sphingosine 1-phosphate; Histamine; Protein kinase C; Adhesion molecule; Endothelial cell; (Human) (Shimamura, K. (486) 141)

EGCG ((-)-epigallocatechin-3-gallate); uPA (urokinase-type plasminogen activator); Erk-1/2; Transcription; mRNA stability (Kim, M.H. (487) 1)

P450_{scc} activity

Zona fasciculata-reticularis cells; *S*-petasin; 11 β -Hydroxylase activity; Steroidogenic acute regulatory protein expression (Chang, L.-L. (489) 29)

p53

Prodelphinidin B-2 3; 3'-di-*O*-gallate; A549 cell; Fas/APO-1; Fas ligand; Apoptosis (Kuo, P.-L. (501) 41)

Akt; Apoptosis; Bcl-2; ERK; Gemcitabine (Chang, G.-C. (502) 169)

HMA (5-(*N,N*-hexamethylene)-amiloride); Apoptosis; JNK; c-Jun; p21^{WAF1/CIP1} (Suzuki, T. (503) 1)

p53 gene

Cancer gene therapy; Anti-oncogene; Suicide gene; DNA vaccine; Cytokine gene (El-Aneed, A. (498) 1)

Pacemaker current

Interstitial cell of Cajal; Neurokinin receptor1; Substance P; Small intestine (Jun, J.Y. (495) 35)

Paclitaxel

5-Aza-2'-deoxycytidine; Nitric oxide (NO); iNOS (nitric oxide (NO) synthase, inducible); L929; Fibrosarcoma (Miljkovic, D. (485) 81)

Pain

5-HT₃ receptor; 5-HT (5-hydroxytryptamine, serotonin); 2-Methylserotonin; Writhing; Sensitization (Giordano, J. (483) 267)

Cytokine; C-fibre; Electrophysiology; Interleukin-6; Dorsal horn (Flatters, S.J.L. (484) 183)

Development; Morphine; Analgesia; Uncoupling; Neuron (Liu, J.-G. (491) 127)

Nociception; Fruit fly (Manev, H. (491) 207)

Leukotrienes; Arthritis; Zymosan; Neutrophils; Hyperalgesia (da Rocha, F.A.C. (497) 81)

Dopamine D2 receptor; Positron emission tomography; Striatum (Hagelberg, N. (500) 187)

Capsaicin; Primary sensory neuron; Brain; Viscera; Inflammation (Nagy, I. (500) 351)

Sickness behaviour; Cytokines; Inflammation; Brain; Afferent nerve; Sleep; Learning and memory (Dantzer, R. (500) 399)

P2X receptors; Hyperalgesia; Inflammation; Peripheral sensitization; Mechanosensitivity (Wu, G. (504) 45)

Palatability

Appetite; Benzodiazepine; Endocannabinoid; Obesity; Opioid (Cooper, S.J. (500) 37)

Palladium (II) complex

Pyrazole ligand; Platinum (II) complex; Alkylating activity; Cytotoxic effect; Apoptosis (Budzisz, E. (502) 59)

Pancreas cancer cell

SU5416; Gemcitabine; Endothelial cell; VEGF; Angiogenesis (Bocci, G. (498) 9)

Pancreatic β -cell

DCPIB; Volume-sensitive anion channel; K_{ATP} channel; Islet; Insulin release (Best, L. (489) 13)

Pancreatitis

HGF (hepatocyte growth factor); Cyclooxygenase-2; Interleukin-1 β ; Interleukin-10 (Warzecha, Z. (486) 107)

Panic disorder

Perinatal protein malnutrition; Locus coeruleus activity; Fluoxetine; Prefrontal cortex noradrenaline (Sodero, A.O. (503) 35)

Paracetamol

Acetaminophen; Opioid receptor (Raffa, R.B. (503) 209)

Parecoxib

Cyclooxygenase isoform; Nonsteroidal anti-inflammatory drug; Ketorolac; Hyperalgesia (Padi, S.S.V. (491) 69)

PARG

PARP; Gallotannin; GPI 16552; Astrocyte; Cell death (Falsig, J. (497) 7)

Parkinson disease

Dystonia; Synchronization; Anti-epileptic drug (Bezard, E. (485) 159)

Parkinson's disease

Phosphatidylserine; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Memory; (Rat); Dopamine (Perry, J.C. (484) 225)

Neuroprotection; AMPA receptor potentiator; LY404187; 6-Hydroxydopamine; MPTP; GAP-43 (growth-associated protein-43); BDNF (brain-derived neurotrophic factor); (Rat) (O'Neill, M.J. (486) 163)

mGlu5 receptor; Adenosine receptor; Dopamine receptor; L-DOPA-induced dyskinesia; Locomotion (Ismayilova, N. (497) 187)

Parotid gland

Na⁺-K⁺-ATPase; Carbachol (Busch, L. (486) 99)

PARP

PARG; Gallotannin; GPI 16552; Astrocyte; Cell death (Falsig, J. (497) 7)

Partial agonism

Ibotenic acid; Glutamate receptor; Metabotropic glutamate receptor; Docking; *N*-Hydroxypyrazole (Clausen, R.P. (499) 35)

Partial agonist

TAK-559; Peroxisome proliferator-activated receptor; Dual agonist (Sakamoto, J. (495) 17)

Passive avoidance

Morphine; Memory; Intracerebroventricular; K_{ATP} channel modulators; Scopolamine; (Mouse) (Zarrindast, M.R. (487) 143)

Patch clamp

Flavonoid; GABA_A receptors; NMDA receptors; Neurotoxicity (Losi, G. (502) 41)

Patch-clamp

K⁺ channel; Bisindolylmaleimide; PKC (protein kinase C); Artery mesenteric; Smooth muscle; (Rat) (Kim, A. (483) 117)

Glycine receptor channel; Pentobarbital; Channel block; Ultra-fast application (Mohammadi, B. (489) 151)

Vanilloid receptor; Methocetamine; Channel block; Dorsal root ganglion; Polyamine (Mellor, I.R. (505) 37)

Patch clamp recording

Intermediate-conductance Ca²⁺-activated K⁺ channel; NPPB; Cl⁻ current; HL-60 cell; GL-15 cell (Fioretti, B. (497) 1)

Pathogenesis of myocardial ischaemia

Platelet-activating factor; Vasopressin; Experimental angina; Synergistic interaction (Nemcsik, J. (498) 195)

Pathway

iNOS (inducible nitric oxide synthase); Expression; Signal transduction; Promoter; Transcription factor; mRNA stability; RNA binding; Protein (Kleinert, H. (500) 255)

Paw oedema

Nitric oxide; Potassium channel; Guanylate cyclase; Plasma leakage; Inflammation (Fernandes, D. (501) 209)

Pazufloxacin

Quinolone antimicrobial agent; P-glycoprotein; Multidrug resistance-associated protein 2 (Mrp2); Renal excretion; (Rat) (Shimizu, A. (501) 151)

PC12 cell

D-*erythro*-sphingosine; D-*erythro*-dihydrosphingosine; D-*erythro*-*N,N*-dimethylsphingosine; Arachidonic acid; Phospholipase A₂ (Nakamura, H. (484) 9)

(1*R*,9*S*)- β -Hydrastine; L-DOPA (L-3,4-dihydroxyphenylalanine); Cytotoxicity; Apoptosis (Yin, S.Y. (488) 71)

PC12h cell

Neurite outgrowth; Genipin; Nerve growth factor; Cyclic GMP; Mitogen-activated protein kinase (Yamazaki, M. (488) 35)

PDE5

Serotonin; Transporter; cGMP; PKG; Sildenafil (Zhu, C.-B. (504) 1)

PDGF (platelet-derived growth factor)

Y-27632; Smooth muscle; Airway; MAP (mitogen-activated protein) kinase; Phosphatidyl inositol 3-kinase (Gosens, R. (483) 71)

Pea seedling histaminase

Amine oxidase; Asthma-like reaction; Histamine; Mast cell; Leukocyte; Free radical (Masini, E. (502) 253)

Penile tumescence

T-0156; Sildenafil; Phosphodiesterase type 5 inhibitor; Phosphodiesterase type 6; Electroretinogram (Mochida, H. (485) 283)

Pentobarbital

Glycine receptor channel; Channel block; Patch-clamp; Ultra-fast application (Mohammadi, B. (489) 151)

Pentoxifylline

TNF- α ; Arthritis; Neutrophil; Immune inflammation; Thalidomide (Bombini, G. (496) 197)

Peptidoglycan

Peroxisome-proliferator activated receptor- γ ; Lipopolysaccharide; GW9662; (Rat) (Dugo, L. (498) 295)

Perfused kidney

Cyclosporine; Endothelium-derived relaxing factor; Acetylcholine; Isoprenaline (El-Mas, M.M. (487) 149)

Perfusion

Ischemia; Mitochondrion; Trimetazidine; Glucose (Monteiro, P. (503) 123)

Perinatal protein malnutrition

Locus coeruleus activity; Fluoxetine; Prefrontal cortex noradrenaline; Panic disorder (Sodero, A.O. (503) 35)

Perindopril

ClC-5 Cl[−] channel; Proteinuria; Hypertension; Angiotensin-converting enzyme (Tanaka, K. (501) 185)

Peripheral

Delta-9-THC; 5-HTP; 5-HT; Carbidopa; SR 141716A; Head-twitch; Ear-scratch; Central; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

Peripheral airways

Tachykinins; Tachykinin receptors; mRNA expression; (Human) (Pinto, F.M. (494) 233)

Peripheral antinociception

Bremazocine; κ-opioid receptor; Potassium channel; Carrageenan (Amarante, L.H. (494) 155)

Peripheral nerve injury

Sciatic nerve; Melanocortin; Sensory recovery (Nijenhuis, W.A.J. (495) 145)

Peripheral sensitization

P2X receptors; Pain; Hyperalgesia; Inflammation; Mechanosensitivity (Wu, G. (504) 45)

Permeability

Cyclosporine; Neurotoxicity; NO (nitric oxide); Blood–brain barrier; P-glycoprotein (Dohgu, S. (505) 51)

Permeability transition pore

Necrosis; Apoptosis; Cyclosporin A; Preservation solution; Rat, liver (Plin, C. (495) 111)

Peroxisome proliferator-activated receptor

TAK-559; Partial agonist; Dual agonist (Sakamoto, J. (495) 17)

Peroxisome proliferator-activated receptor (PPAR)γ

FK614; Nonthiazolidinedione; Insulin sensitizer; *db/db*, mouse; *ob/ob*, mouse (Minoura, H. (494) 273)

Peroxisome proliferators-activated receptor (PPAR)

Antidiabetic; Hypolipidemic; Insulin sensitizer (Chakrabarti, R. (491) 195)

Peroxisome-proliferator activated receptor-γ

Lipopolysaccharide; Peptidoglycan; GW9662; (Rat) (Dugo, L. (498) 295)

Peroxoanadate

α_{1B}-Adrenoceptor; Phosphorylation receptor; Protein kinase C (Alcántara-Hernández, R. (485) 61)

Peroxyinitrite

NSAID; COX (Cyclo-oxygenase); COX-2 inhibitor; Coxib; Enteropathy; Intestinal permeability; Enteral bacteria; Neutrophil; Nitric oxide; iNOS (Whittle, B.J.R. (500) 427)

FeTMPyP; Diabetes (Nangle, M.R. (502) 143)

Pertussis toxin

Histamine sensitisation; Trachea; Small mesenteric resistance arteries; (Rat); (Mouse) (van Meijeren, C.E. (488) 127)

Histamine sensitisation; Small mesenteric resistance artery; Nitric oxide synthase (van Meijeren, C.E. (493) 139)

PET radioligands

α-Adrenoceptor; β-Adrenergic (Elsinga, P.H. (499) 1)

PF9404C

NO donor; Vascular selectivity; Tolerance (Ruiz-Nuño, A. (498) 203)

P-glycoprotein

MRP (Multidrug resistance-related protein); LRP (Lung resistance-related protein); Cytochrome CYP 3A4; LLC-PK₁ renal cell line; Rifampicin (Magnarin, M. (483) 19)

Quinolone antimicrobial agent; Pazufloxacin; Multidrug resistance-associated protein 2 (Mrp2); Renal excretion; (Rat) (Shimizu, A. (501) 151)

Cyclosporine; Neurotoxicity; NO (nitric oxide); Blood–brain barrier; Permeability (Dohgu, S. (505) 51)

P-glycoprotein

Azithromycin; Multidrug resistance; Doxorubicin; Mrp2 (Multidrug resistance-associated protein 2); Biliary excretion; (Rat) (Asakura, E. (484) 333)

Pharmacodynamic

Genetic difference; Opioid; Pharmacokinetic (Bulka, A. (492) 27)

Pharmacodynamics

Satiety threshold; Pharmacokinetics; Cocaine; WIN 35,428 (Norman, A.B. (483) 281)

Pharmacogenomics

Drug therapy; Gene (Nebert, D.W. (500) 267)

Pharmacokinetic

Genetic difference; Opioid; Pharmacodynamic (Bulka, A. (492) 27)

Pharmacokinetic–pharmacodynamic modelling

Adenosine A₁ receptor; Chronic constriction injury model; Neuropathic pain; Sparse data analysis; Anti-hyperalgesic effect; Anti-nociceptive effect (Schaddelee, M.P. (504) 7)

Pharmacokinetics

Satiety threshold; Pharmacodynamics; Cocaine; WIN 35,428 (Norman, A.B. (483) 281)

Cocaine; Occupancy; Reinforcement; Self-administration; Rhesus monkey (Woolverton, W.L. (486) 251)

Maternal stress; Adolescence; MDMA; Behaviour; Individual variability (Morley-Fletcher, S. (489) 89)

Brain; Drug delivery; Blood–brain barrier; Erythropoietin; Stroke; Neuro-protection (Banks, W.A. (505) 93)

Pharmacology

Adenosine receptor; Brain; Mouse; cAMP assay (Wittendorp, M.C. (487) 73)

Leukotriene B₄; G-protein coupled receptor; BLT₁; Fura-2; Calcium (Sabirsh, A. (499) 53)

GPCR; Cannabinoid; Cannabinoid CB₂ receptor; Species selectivity (Mukherjee, S. (505) 1)

Phase 3 repolarization

Fluoroquinolone; Interventricular dispersion of repolarization; Electrically vulnerable period (Chiba, K. (502) 117)

D-Phe-Cys-Tyr-D-Trp-Orn-Thr-NH₂

Formalin test; N^G-nitro-L-arginine methyl ester; Lactoferrin (Hayashida, K.-i. (484) 175)

Phencyclidine

MK-801; Triazolam (Shannon, H.E. (498) 125)

Prepulse inhibition; Locomotor activity; *N*^ω-Propyl-L-arginine; Nitric oxide; (Mouse) (Klamer, D. (503) 103)

Phenobarbital

Hyperalgesia, secondary; GABA_A receptor; Gabapentin (da Motta, P.G. (483) 233)

Phenol derivative

Cardiac cell; Ca²⁺ current; Electrophysiology; Myocytehuman (Magyar, J. (487) 29)

Phenylalkylamine

Marrubenol; Calcium antagonist; L-type Ca²⁺ channel; 1,4-Dihydropyridine (El Bardai, S. (492) 269)

Phenylephrine

Diabetes; Isoproterenol; Prazosin; Propranolol (Colivicchi, M.A. (495) 209)

Phenytoin

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Valproate; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Phorbol ester

Protein kinase C; Isoform; Yeast phenotypic assay (Saraiva, L. (491) 101)

Phosphatase

Aortic ring; Cocaine; Relaxation; Ca²⁺ entry; Aortic dissection (Li, W. (496) 151)

Phosphatidyl inositol 3-kinase

Y-27632; Smooth muscle; Airway; MAP (mitogen-activated protein) kinase; PDGF (platelet-derived growth factor) (Gosens, R. (483) 71)

Phosphatidylinositol

Vascular smooth muscle; Phospholipase C-beta; Tachyphylaxis; Phosphorylation (Filtz, Th.M. (502) 11)

Phosphatidylinositol 3 kinase

Acidosis; Tyrosine phosphorylation; Voltage-dependent calcium channel; Spontaneously hypertensive, rat; Aorta (Rohra, D.K. (504) 105)

Phosphatidylinositol cascade

Metabotropic glutamate receptors; Opioid tolerance; Analgesia; (Mouse) (Smith, F.L. (492) 137)

Morphine tolerance; Adenylyl cyclase cascade; Analgesia; Hypothermia; (Mouse) (Javed, R.R. (492) 149)

Phosphatidylinositol-3 kinase

Neuronal PC12D cells; Nerve growth factor; Survival supporting activity; Neurite regeneration; Sargaquinoic acid (Tsang, C.K. (488) 11)

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Regulatory peptide (Gerozissis, K. (490) 59)

Phosphatidylserine

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Memory; (Rat); Parkinson's disease; Dopamine (Perry, J.C. (484) 225)

Phosphodiesterase 4

Rolipram; Antidepressant; Learned helplessness; cAMP response element; Brain-derived neurotrophic factor (Itoh, T. (498) 135)

Phosphodiesterase 5

HERG channel; Potassium channel; Sildenafil; Tadalafil; Vardenafil (Dustan Sarazan, R. (502) 163)

Phosphodiesterase inhibition

Antiplatelet; Thromboxane; KW-7 (Wu, C.-C. (483) 187)

Ca²⁺-sensitization; Phosphodiesterase subtype; Positive inotropy; Levosimendan; OR-1896 (Szilágyi, S. (486) 67)

Subarachnoid haemorrhage; Cerebral vasospasm; Cilostazol; Endothelium (Birk, S. (489) 93)

Phosphodiesterase subtype

Ca²⁺-sensitization; Phosphodiesterase inhibition; Positive inotropy; Levosimendan; OR-1896 (Szilágyi, S. (486) 67)

Phosphodiesterase type 5 inhibitor

T-0156; Sildenafil; Phosphodiesterase type 6; Penile tumescence; Electroretinogram (Mochida, H. (485) 283)

Phosphodiesterase type 6

T-0156; Sildenafil; Phosphodiesterase type 5 inhibitor; Penile tumescence; Electrorretinogram (Mochida, H. (485) 283)

Phosphodiesterase

Type 2 diabetes; Milrinone; Glucagon-like peptide-1; Insulin secretion (Degerman, E. (498) 319)

Phosphodiesterase-5 inhibitor

Atorvastatin; Nitric oxide; Sildenafil; Statins; Vascular reactivity (Castro, M.M. (498) 189)

Phosphoinositide hydrolysis

Dendroaspis angusticeps toxins; Muscarinic M₁ receptor; [³⁵S]GTPγS binding; [³H]Acetylcholine binding; [³H]N-Methyl-scopolamine binding (Olianas, M.C. (487) 65)

Phosphoinositide metabolism

PIP5K; PIP₂; Rho; ARF (Oude Weernink, P.A. (500) 87)

Phospholipase A₂

D-*erythro*-sphingosine; D-*erythro*-dihydrosphingosine; D-*erythro*-N,N-dimethylsphingosine; Arachidonic acid; PC12 cell (Nakamura, H. (484) 9)

Bradykinin; Cyclooxygenase; Phospholipase C; Vanilloid receptor 1 (Tang, H.-B. (498) 37)

Phospholipase C

Midazolam; Platelet aggregation; Cyclic AMP; Na⁺/H⁺ exchanger; Thrombosis (Hsiao, G. (487) 159)

Bradykinin; Cyclooxygenase; Phospholipase A₂; Vanilloid receptor 1 (Tang, H.-B. (498) 37)

Adrenal medulla; Brain; Diacylglycerol lipase; Vasopressin (Shimizu, T. (499) 99)

Phospholipase C-beta

Vascular smooth muscle; Phosphatidylinositol; Tachyphylaxis; Phosphorylation (Filtz, Th.M. (502) 11)

Phosphorylation receptor

α_{1B} -Adrenoceptor; Peroxovanadate; Protein kinase C (Alcántara-Hernández, R. (485) 61)

Phosphorylation

Vascular smooth muscle; Phospholipase C-beta; Phosphatidylinositol; Tachyphylaxis (Filtz, Th.M. (502) 11)

Photorelaxation

Gastric fundus, mouse; Nitric oxide (NO); *S*-nitrosoglutathione; CuCl_2 ; Neocuproine; Cuprizone (Ögülener, N. (485) 269)

Phylogenetic analysis

5-HT (5-hydroxytryptamine, serotonin); 5-HT_{1E} receptor; Cloning; (Guinea pig) (Bai, F. (484) 127)

Physical dependence

Opiate; *N*-methyl-D-aspartate (NMDA) receptor; Signal cascade; Ontogeny (Noda, Y. (500) 121)

Physiology

Behavior; Animal model; Flesinoxan; Repeated testing; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 35)

Behavior; Anxiety; Animal model; Flesinoxan; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 45)

Physostigmine

Nerve agent; Prophylactic; Scopolamine; Procyclidine; Cognitive impairment; (Rat) (Myhrer, T. (483) 271)

Soman; Brain injury; Memory impairment; Prophylactic; Procyclidine (Choi, E.-K. (505) 83)

Phytoestrogen

Icaritin; Icaritin; Desmethylicaritin; Estrogenic activity; Cell cycle analysis; S phase; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)

Picrotoxinin

GABA_A receptor; Noncompetitive; Ginkgolide; Two-electrode voltage clamp; *Xenopus* oocyte (Huang, S.H. (494) 131)

PIFIR model

Indomethacin; Antinociception; Nitric oxide; (Rat) (Ventura-Martínez, R. (503) 43)

(Pig)

Polyethylene-glycol-superoxide dismutase; Cu/Zn superoxide dismutase; Diethyldithiocarbamate; 6-Anilino-5,8-quinolinedione; Nitrogenic relaxation; Gastric fundus (De Backer, O. (486) 223)

(Pigeon)

Emesis; Cisplatin; Dexamethasone; Indomethacin (Tanihata, S. (484) 311)

Pinacidil

Gabapentin; K⁺ channel; Apamin; Charybdotoxin; Glibenclamide (Mixcoatl-Zecuatl, T. (484) 201)

Pinealectomy

Cocaine; Conditioned place preference; (mouse); Circadian rhythm (Kurtuncu, M. (489) 203)

Pioglitazone

Hypercholesterolemia; Renal artery; Endothelium-derived hyperpolarizing factor (Moroe, H. (497) 317)

Endotoxin; CYP3A2; CYP2C11; PPAR- γ ; Antipyrine clearance; (Rat) (Ueyama, J. (498) 257)

PIP₂

PIP5K; Phosphoinositide metabolism; Rho; ARF (Oude Weernink, P.A. (500) 87)

PIP5K

PIP₂; Phosphoinositide metabolism; Rho; ARF (Oude Weernink, P.A. (500) 87)

Pirenzepine

Prepulse inhibition; Scopolamine; AF-DX116; 4-DAMP; Tropicamide; Muscarinic receptor; (Mouse) (Ukai, M. (492) 183)

PKA (protein kinase A)

Nitrogenic innervation; Mesenteric artery; cAMP; Forskolin (Ferrer, M. (487) 167)

PKC

Noradrenaline; ATP; Vas deferens; Synergism (Smith, N.C.E. (498) 241)

PKC (protein kinase C)

K⁺ channel; Bisindolylmaleimide; Artery mesenteric; Smooth muscle; Patch-clamp; (Rat) (Kim, A. (483) 117)

PKC δ

Cynaropicrin; Sesquiterpene lactone; Cytotoxicity; Apoptosis; Cell cycle arrest (Cho, J.Y. (492) 85)

PKC412

Keloid; Apoptosis; Staurosporine; Caspase (Nakazono-Kusaba, A. (497) 155)

PKG

Nitric oxide; K_{ATP}; c-GMP; Urinary bladder (Deka, D.K. (492) 13)

Serotonin; Transporter; cGMP; Sildenafil; PDE5 (Zhu, C.-B. (504) 1)

Plasma leakage

Nitric oxide; Paw oedema; Potassium channel; Guanylate cyclase; Inflammation (Fernandes, D. (501) 209)

Platelet

Aspirin; Ticlopidine; Clopidogrel; Nitric oxide (NO); Platelet-subendothelium interaction. (De La Cruz, J.P. (484) 19)

NO (Nitric Oxide); cGMP (cyclic guanosine 3',5'-monophosphate); Calcium; Aggregation; SNAP (*S*-nitroso-*N*-acetyl-D,L-penicillamine); GEA 3175 (Asplund Persson, A.K. (496) 1)

Platelet aggregation

Midazolam; Phospholipase C; Cyclic AMP; Na⁺/H⁺ exchanger; Thrombosis (Hsiao, G. (487) 159)

Platelet aggregation, human

Licofelone; Cyclooxygenase-lipoxygenase inhibitor; Thromboxane A2 (Rotondo, S. (488) 79)

Platelet glycoprotein IIb/IIIa

FK419; Stroke; (Guinea pig); Thrombolysis (Moriguchi, A. (498) 179)

Platelet-subendothelium interaction.

Aspirin; Ticlopidine; Clopidogrel; Platelet; Nitric oxide (NO) (De La Cruz, J.P. (484) 19)

Platelet-activating factor

Vasopressin; Experimental angina; Synergistic interaction; Pathogenesis of myocardial ischaemia (Nemcsik, J. (498) 195)

Platinum (II) complex

Pyrazole ligand; Palladium (II) complex; Alkylating activity; Cytotoxic effect; Apoptosis (Budzisz, E. (502) 59)

PMA

Taxol-resistant cell; Polyploidization; Apoptosis; bcl-2 (Zong, Z.-p. (489) 3)

Polyamine

N-Methyl-D-aspartate receptor; Amino terminal domain; Modulation; Ifenprodil; Zinc (Herin, G.A. (500) 101)

Vanilloid receptor; Methocramine; Channel block; Dorsal root ganglion; Patch-clamp (Mellor, I.R. (505) 37)

Polyethylene-glycol-superoxide dismutase

Cu/Zn superoxide dismutase; Diethyldithiocarbamate; 6-Anilino-5,8-quinolinedione; Nitroergic relaxation; Gastric fundus; (Pig) (De Backer, O. (486) 223)

Polymorphonuclear leukocyte

Hepatic ischemia–reperfusion; Rho kinase inhibitor; Tumor necrosis factor- α ; Interleukin-6 (Kawaguchi, A. (493) 167)

Polyphenol

Wine; Tea; Chocolate; Vascular protection (Stoclet, J.-C. (500) 299)

Polyploidization

Taxol-resistant cell; PMA; Apoptosis; bcl-2 (Zong, Z.-p. (489) 3)

Polytherapy

GABA; Isobolic analysis; EEG; (Rat) (Bouwman, B.M. (495) 119)

Polyunsaturated fatty acid

Fish oil; Arrhythmias; Adrenoceptor agonists; Eicosapentaenoic acid; Docosahexaenoic acid (Xiao, Y.-F. (485) 31)

Porcine coronary artery

Diosgenin; Oestrogen receptor; Iberitoxin-sensitive; Ca^{2+} -activated K^+ (BK_{Ca}) channel (Au, A.L.S. (502) 123)

Portal vein

Vascular reactivity; (Rat); Hyperthermia; Acidosis; Norepinephrine; Angiotensin (Pastor, C.M. (494) 191)

Portal vein, rat

Spontaneous contraction; Store-operated Ca^{2+} entry; Cyclopiazonic acid; Ryanodine; Protein kinase C (Burt, R.P. (496) 109)

Positive allosteric modulation of GABA_B receptor

CGP7930; Baclofen; γ -Hydroxybutyric acid (GHB); SCH 50911; DBA, mouse (Carai, M.A.M. (504) 213)

Positive inotropic effect

(Rabbit); Endothelin receptor; Endothelin receptor antagonist; TAK-044; FR139317 (Yomogida, S.-i. (492) 217)

Positive inotropy

Ca^{2+} -sensitization; Phosphodiesterase inhibition; Phosphodiesterase sub-type; Levosimendan; OR-1896 (Szilágyi, S. (486) 67)

Positron emission tomography

Dopamine D2 receptor; Pain; Striatum (Hagelberg, N. (500) 187)

Postoperative pain

CP-101,606; NMDA receptor; (Knockout mouse) (Nishimura, W. (503) 71)

Postsynaptic

Presynaptic; P2X receptor; P2Y receptor; ATP (Illes, P. (483) 5)

Potassium channel

Bremazocine; κ -opioid receptor; Peripheral antinociception; Carrageenan (Amarante, L.H. (494) 155)

Nitric oxide; Paw oedema; Guanylate cyclase; Plasma leakage; Inflammation (Fernandes, D. (501) 209)

Phosphodiesterase 5; HERG channel; Sildenafil; Tadalafil; Vardenafil (Dustan Sarazan, R. (502) 163)

Potential

Opioid; Metamizol; Antinociception; Tolerance; Cross-tolerance (Hernández-Delgadillo, G.P. (502) 67)

PPAR (peroxisome proliferator-activated receptor)

Rosiglitazone; Inflammation, acute; iNOS (nitric oxide synthase inducible); Cyclooxygenase-2; ICAM-1 (intercellular adhesion molecule-1) (Cuzzocrea, S. (483) 79)

Shock; GW9662 (Collin, M. (486) 233)

PPAR- γ

Endotoxin; CYP3A2; CYP2C11; Pioglitazone; Antipyrine clearance; (Rat) (Ueyama, J. (498) 257)

Rosiglitazone; Ischemia–reperfusion; Reactive oxygen specie; Neutrophil; Cyclooxygenase (Villegas, I. (505) 195)

Prazosin

Diabetes; Isoproterenol; Phenylephrine; Propranolol (Colivicchi, M.A. (495) 209)

Morphine withdrawal; Morphine tolerance; Analgesia; α_2 -Adrenoceptor agonist; α_{2A} -Adrenoceptor (Özdoğan, Ü.K. (497) 161)

Preconditioning

β -Adrenoreceptor antagonists; Infarction (Iliodromitis, E.K. (499) 163)

Arrhythmias; Carbachol; Infarct size; Trimetazidine (Kara, A.F. (503) 135)

Predator stress

5-HT_{1A}; Anxiety; SSRI; Vilazodone (Adamec, R. (504) 65)

5-HT_{2A} receptor antagonist; Anxiety (Adamec, R. (504) 79)

Prefrontal cortex

Striatum; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Antipsychotic; Schizophrenia (Jordan, S. (483) 45)

Aripiprazole; Antipsychotic; Dopamine; Serotonin; Hippocampus (Li, Z. (493) 75)

Prefrontal cortex noradrenaline

Perinatal protein malnutrition; Locus coeruleus activity; Fluoxetine; Panic disorder (Sodero, A.O. (503) 35)

Pregnancy

Bladder; Female mouse; Oestrogen; Muscarinic M₁, M₃ and M₅ receptors (Ma, S. (487) 205)

Neurosteroid; Ethanol; GABA_A receptor; Gene expression; Cell culture (Follesa, P. (500) 413)

Pregnenolone

Ethanol; Allopregnanolone; Allotetrahydrocorticosterone; Endocrine response (O'Dell, L.E. (484) 241)

Prejunctional adenosine receptor

Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Immunohistochemistry; Noradrenaline release; Tail artery; rat (Diniz, C. (504) 17)

Prepulse inhibition

Scopolamine; AF-DX116; 4-DAMP; Tropicamide; Pirenzepine; Muscarinic receptor; (Mouse) (Ukai, M. (492) 183)

Phencyclidine; Locomotor activity; N^ω-Propyl-L-arginine; Nitric oxide; (Mouse) (Klamer, D. (503) 103)

Methamphetamine; Antihistamine; Locomotor activity; Methamphetamine concentration (Okuda, T. (505) 135)

Preservation solution

Necrosis; Apoptosis; Cyclosporin A; Permeability transition pore; Rat, liver (Plin, C. (495) 111)

Pressure–volume loops

Myocarditis; β-Adrenoceptor; Conductance (Tschöpe, C. (491) 173)

Pressure–volume relation

Angiotensinogen-deficient mice; Renin angiotensin system; Cardiac function; Cardiomyopathy (Walther, T. (493) 161)

Presynaptic

Postsynaptic; P2X receptor; P2Y receptor; ATP (Illes, P. (483) 5)

Primary cortical culture

Cyclooxygenase-2; Oxygen-glucose deprivation; NMDA; Ca²⁺; Excitotoxicity (Gendron, T.F. (493) 45)

Primary sensory neuron

Capsaicin; Brain; Viscera; Pain; Inflammation (Nagy, I. (500) 351)

Procyclidine

Nerve agent; Prophylactic; Physostigmine; Scopolamine; Cognitive impairment; (Rat) (Myhrer, T. (483) 271)

Soman; Brain injury; Memory impairment; Prophylactic; Physostigmine (Choi, E.-K. (505) 83)

Prodelphinidin B-2 3

3'-di-O-gallate; A549 cell; p53; Fas/APO-1; Fas ligand; Apoptosis (Kuo, P.-L. (501) 41)

Proinflammatory cytokine

Vitamin B₂; I.v. infusion; Nitric oxide (Toyosawa, T. (492) 273)

Prolactin

Cytochrome P450; Cyclosporine; Bromocriptine; Drug metabolism (Lu, S.K. (501) 215)

Prolidase

Chlorambucil; Collagen biosynthesis; β₁-integrins; IGF-I receptor; MCF-7 (Sienkiewicz, P. (492) 95)

Proliferation

Quercetin; Flavonoid; Osteoblast; Differentiation; Cell cycle (Notoya, M. (485) 89)

Leukemia; Cl[−] channel blocker; Cell cycle; CIC-2 (Jiang, B. (488) 27)

CGRP (calcitonin gene-related peptide); Angiotensin II; Smooth muscle cell, Vascular (Qin, X.-P. (488) 45)

Amlodipine; Epidermoid carcinoma A431 cell human; Uridine 5'-triphosphate; Intracellular Ca²⁺; A431 xenograft (Yoshida, J. (492) 103)

Tranilast; Gingival fibroblast; bFGF (Hattori, T. (498) 79)

Ferulic acid; Vascular smooth muscle cell; Mitogen-activated protein kinase; Cell cycle regulatory protein; Angiotensin II (Hou, Y.-Z. (499) 85)

NSAID; Rofecoxib; Ibuprofen; bFGF expression; VEGF expression; Apoptosis (Sánchez-Fidalgo, S. (505) 187)

Promoter

iNOS (inducible nitric oxide synthase); Expression; Signal transduction; Pathway; Transcription factor; mRNA stability; RNA binding; Protein (Kleinert, H. (500) 255)

Prophylactic

Nerve agent; Physostigmine; Scopolamine; Procyclidine; Cognitive impairment; (Rat) (Myhrer, T. (483) 271)

Soman; Brain injury; Memory impairment; Physostigmine; Procyclidine (Choi, E.-K. (505) 83)

Propofol

Reactive oxygen species; Activated polymorphonuclear neutrophils (Thiry, J.-C. (499) 29)

Nitrous oxide; Corticotropin releasing factor; Isoflurane; c-Fos (Sawamura, S. (503) 49)

Propranolol

Diabetes; Isoproterenol; Phenylephrine; Prazosin (Colivicchi, M.A. (495) 209)

Prostacyclin

Prostanoid IP receptor; G-protein-coupled receptor; Dimerization; Oligomerization; Cysteine (GiguereGiguère, V. (494) 11)

Prostaglandin D₂

Scratch; Atopic dermatitis; NC/Nga, mouse; Pruritus (Arai, I. (505) 229)

Prostaglandin E₂

Angiogenesis; bFGF (basic fibroblast growth factor); Dexamethasone; Gastric ulcer; VEGF (vascular endothelial growth factor) (Luo, J.C. (485) 275)

Cyclooxygenase-2 inhibitor; Zymosan-injected mouse air pouch; Angiogenesis; Carrageenan-induced paw oedema (Devesa, I. (488) 225)

(−)-Linalool; Hyperalgesia; Carrageenan; L-glutamate (Peana, A.T. (497) 279)

Cyclooxygenase-2; Celecoxib; Diabetic retinopathy; VEGF (Ayalasomayajula, S.P. (498) 275)

NSAID; TNFα; Cyclooxygenase; Glucocorticoid; Monocyte (Ulcar, R. (501) 9)

Prostaglandin

Interleukin-1; Vasopressin; Inflammation (Sigal, F.-B. (485) 53)

Vagus; Prostanoid; DP receptor; 5-HT₃ receptor; Depolarization; Neurone; Nervous; (Ferret) (Kan, K.K.W. (491) 37)

Gastric preconditioning; Ischemia–reperfusion; Gastric blood flow; Remote preconditioning; Sensory nerve (Brzozowski, T. (499) 201)

Receptor; Agonist; EP₂; EP₄ (Wilson, R.J. (501) 49)

Prostanoid IP receptor

Prostacyclin; G-protein-coupled receptor; Dimerization; Oligomerization; Cysteine (GiguereGiguère, V. (494) 11)

Prostanoid TP receptor

U46619; Uteruspig; Thromboxane A₂; Contractilityspontaneous (Cao, J. (485) 317)

Human umbilical vein; Isoprostane; Vasoconstriction (Daray, F.M. (499) 189)

Prostanoid

Vagus; Prostaglandin; DP receptor; 5-HT₃ receptor; Depolarization; Neurone; Nervous; (Feret) (Kan, K.K.W. (491) 37)

Prostate

Ischemia–reperfusion injury; Heat shock protein 70; Real-time PCR; (Rat) (Saito, M. (487) 199)

Prostate cancer

YM598; Antagonist; Endothelin ET_A receptor; Nociception (Yuyama, H. (492) 177)

Prostate epithelial cell

Bradykinin; Human, prostate; Prostate stromal cell (Srinivasan, D. (504) 155)

Prostate stromal cell

Bradykinin; Human, prostate; Prostate epithelial cell (Srinivasan, D. (504) 155)

Protective effect

Adenosine; Adenosine uptake inhibitor (nucleoside transport inhibitor); Therapeutic application (Noji, T. (495) 1)

Protein content

U50,488H; Neonatal rat ventricular myocyte; [³H]Leucine; Cell size; Adrenoceptor (Wang, G. (498) 53)

Protein drug

Intestinal absorption; Lysozyme; Megalin; Endocytosis (Takano, M. (502) 149)

Protein kinase

Na⁺/H⁺ exchanger; Dopamine D₁-like receptor; OK cell (Gomes, P. (488) 51)

G protein-coupled receptor kinase; Adenylyl cyclase; β-Adrenoceptor; Human myocardial tissue; Hemodynamic load; Left ventricular volume overload (Dzimiri, N. (489) 167)

Mood stabilizer; Glucocorticoid receptor-mediated gene transcription; Glucocorticoid receptor; Inositol; LMCAT cell; Amphetamine (Basta-Kaim, A. (495) 103)

Endothelin; Mechanical hyperalgesia; Endothelin ET_B receptor; cAMP (da Cunha, J.M. (501) 87)

Protein kinase B

Neuroblastoma cell; Hydrogen peroxide; MAP (mitogen-activated protein) kinase (Ruffels, J. (483) 163)

Protein kinase C

α_{1B}-Adrenoceptor; Peroxovanadate; Phosphorylation receptor (Alcántara-Hernández, R. (485) 61)

Sphingosine 1-phosphate; Histamine; p38 MAPK; Adhesion molecule; Endothelial cell; (Human) (Shimamura, K. (486) 141)

Focal adhesion kinase; Lidocaine; Hippocampus; (Rat) (Dahmani, S. (489) 55)

Isoform; Phorbol ester; Yeast phenotypic assay (Saraiva, L. (491) 101)

Oesophagus muscularis mucosae; β₂-Adrenoceptor; β₃-Adrenoceptor; Receptor cross-talk (Oostendorp, J. (495) 75)

Portal vein, rat; Spontaneous contraction; Store-operated Ca²⁺ entry; Cyclopiazonic acid; Ryanodine (Burt, R.P. (496) 109)

Protein kinase C (PKC)

Celecoxib; Cyclooxygenase-2; Superoxide anion; Respiratory burst; Neutrophil; Ca²⁺ intracellular; Genistein (Chang-Hui, L. (484) 29)

Protein kinase C-β (PKC-β) inhibitor; Endothelial permeability; Angiotensin II; Diabetic retinopathy (Idris, I. (485) 141)

Protein kinase C-β (PKC-β) inhibitor

Protein kinase C (PKC); Endothelial permeability; Angiotensin II; Diabetic retinopathy (Idris, I. (485) 141)

Protein

iNOS (inducible nitric oxide synthase); Expression; Signal transduction; Pathway; Promoter; Transcription factor; mRNA stability; RNA binding (Kleinert, H. (500) 255)

Proteinuria

ClC-5 Cl[−] channel; Hypertension; Angiotensin-converting enzyme; Perindopril (Tanaka, K. (501) 185)

Proteomic

MK-801; Schizophrenia; Thalamus, rat; Acute; Subchronic (Paulson, L. (505) 103)

Proteomics

Neuroscience; Neuroparmacology; Human Proteome Organization; Alzheimer's disease; Schizophrenia (Vercauteren, F.G.G. (500) 385)

Protonation

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

Protopine

Californine; Metabolism; Cytochrome P450; Liver microsome, rat (Paul, L.D. (485) 69)

Proximal stomach

5-HT_{1F}; Barostat; Sumatriptan; Retching (Janssen, P. (492) 259)

Pruritus

Chloroquine; Malaria; Kappa opioid receptors (Inan, S. (502) 233)

Prostaglandin D₂; Scratch; Atopic dermatitis; NC/Nga, mouse (Arai, I. (505) 229)

Pseudoephedrine

Self-administration; (Rhesus monkey); Ephedrine; Dopamine transporters (Wee, S. (493) 117)

Psychostimulant

Serotonin; Dopamine; Antidepressant; Antipsychotic; Food intake; Obesity; Transgenic (Giorgetti, M. (488) 1)

Psychostimulants

THC; Cross-sensitization; Locomotion; Microdialysis; (Rat) (Ellgren, M. (497) 205)

PTEN phosphorylation

KR-31378; Maxi-K channel; CREB; Akt; Apoptosis (Kim, K.Y. (497) 267)

PTP-1B (protein tyrosine phosphatase-1B)

1,2-Naphthoquinone; Deoxyglucose uptake; Glycogen incorporation; ob/ob mouse (Cheon, H.G. (485) 333)

Pulmonary artery

Urocortin; Nickel; Relaxation (Lau, C.-W. (488) 169)

Pulmonary artery smooth muscle cell, human

Biliverdin; Carbon monoxide (CO); Endothelin-1; Heme oxygenase; Pulmonary hypertension (Stanford, S.J. (486) 349)

Pulmonary edema

Inflammatory cytokine; Neutrophil; Bronchoalveolar lavage fluid (Jian, M.-Y. (488) 231)

Pulmonary hypertension

Biliverdin; Carbon monoxide (CO); Endothelin-1; Heme oxygenase; Pulmonary artery smooth muscle cellhuman (Stanford, S.J. (486) 349)

Endothelin-1; ET_A receptor; ET_B receptor; ET_B receptor-deficient rat; Monocrotaline (Nishida, M. (496) 159)

Pulmonary vein

Action potential; Atrial fibrillation; Ethanol (Chen, Y.-C. (483) 215)

Pupil

Serotonin; 5-HT_{1A} receptor; α₂-Adrenoceptor; Mydriasis; Miosis (Yu, Y. (489) 207)

Purinergic neurotransmission

Galantamine; Vas deferens (Caricati-Neto, A. (503) 191)

Pyrazole ligand

Palladium (II) complex; Platinum (II) complex; Alkylating activity; Cytotoxic effect; Apoptosis (Budzisz, E. (502) 59)

Pyrazoline

Dipyrone; Antinociception; Serotonin; Methysergide; Yohimbine (Godoy, M.C.M. (496) 93)

QT interval

Fluoroquinolone; Monophasic action potential; Torsades de pointes; Atrioventricular block; α₁-Adrenoceptor stimulation (Chiba, K. (486) 189)

QT prolongation

Alternans; HERG; Torsade de Pointes; Arrhythmia (Fossa, A.A. (486) 209)

Antiarrhythmic agent; HERG; *I*_{Kr}; Reverse frequency dependence (Tsujiama, K. (493) 29)

Quercetin

Flavonoid; Osteoblast; Proliferation; Differentiation; Cell cycle (Notoya, M. (485) 89)

Aortic smooth muscle cell, rat; Mitogen-activated protein kinase; Extracellular signal-regulated kinase; c-Jun N-terminal kinase (Shih, C.-M. (496) 41)

Antiarrhythmic drug; Organic cation transporter; Transport; Lidocaine (Hasannejad, H. (499) 45)

Hepatocyte; Selective growth inhibition; Apoptosis; Antioxidant defense system (Son, Y.-O. (502) 195)

Flavonoid; K⁺ conductance; Cl[−] secretion; Colon (Cermak, R. (503) 31)

Quinolizidine alkaloid

Insulin secretion; Islet; *Lupinus*; K_{ATP} channel (García López, P.M. (504) 139)

Quinolone antimicrobial agent

Pazufloxacin; P-glycoprotein; Multidrug resistance-associated protein 2 (Mrp2); Renal excretion; (Rat) (Shimizu, A. (501) 151)

Quinpirole

Vesicle; NGB2904; Eticlopride; Clozapine; Traffick (Truong, J.G. (504) 27)

Quisqualate-effect

Quisqualic acid; Quisqualate-priming; CaCl₂-dependent [³H]glutamate uptake; Cortical wedge preparation; 2-Amino-4-phosphonobutyric acid (Vestergaard, H.T. (488) 101)

Quisqualate-priming

Quisqualic acid; Quisqualate-effect; CaCl₂-dependent [³H]glutamate uptake; Cortical wedge preparation; 2-Amino-4-phosphonobutyric acid (Vestergaard, H.T. (488) 101)

Quisqualic acid

Quisqualate-effect; Quisqualate-priming; CaCl₂-dependent [³H]glutamate uptake; Cortical wedge preparation; 2-Amino-4-phosphonobutyric acid (Vestergaard, H.T. (488) 101)

R 121919

Corticotropin-releasing factor (CRF); Depression; Tail suspension test; Forced swim test; DMP 696; DMP 904; Antalarmin; (Mouse) (Nielsen, D.M. (499) 135)

R278995/CRA0450

CRF (corticotropin-releasing factor); CRF₁ receptor; Anxiety; Depression; Stress-related behavior (Chaki, S. (485) 145)

(Rabbit)

Alternaria tenuis; Airway hyperresponsiveness (El-Hashim, A.Z. (484) 351)

Diabetes; Endothelin-1; Endothelium; NO (Nitric oxide); Basilar artery (Alabadi, J.A. (486) 289)

(Guinea-pig); Verapamil; Dideoxyforskolin; Anthracene-9-carboxylic acid; Stilbene disulphonate (Shuba, L.M. (491) 111)

Inducible nitric oxide synthase; L-NIL (*N*-iminoethyl-L-lysine); L-arginine; Atherosclerosis; Superoxide anion (Simonet, S. (492) 211)

Positive inotropic effect; Endothelin receptor; Endothelin receptor antagonist; TAK-044; FR139317 (Yomogida, S.-i. (492) 217)

Antioxidant; 2-Biphenylmorpholine compound; Low-density lipoprotein; Atherosclerosis; Copper-mediated oxidation (Tavridou, A. (505) 213)

Radiofrequency lesion

SEA0400; Brain edema; Blood–brain barrier; Na^+ – Ca^{2+} exchanger (Koyama, Y. (489) 193)

Radioligand

Bradykinin B_1 receptor; Antagonist (Ransom, R.W. (499) 77)

Radiotelemetry

Methadone; Respiratory depression; Naloxone methiodide (Lewanowitsch, T. (484) 303)

Raloxifene

Nitric oxide synthase regulation; Oestrogen; Selective oestrogen-receptor modulator; Heart; Cardiac ischaemia (Nemcsik, J. (495) 179)

Ramipril

Adrenal medulla; Angiotensin; Catecholamine; Canine; Candesartan (Critchley, L. (489) 67)

Rapid estrogen effect

Intestinal smooth muscle; K^+ channel; Voltage-dependent Ca^{2+} channel; Spontaneous activity (Díaz, M. (501) 161)

(Rat)

Appetite; Cannabinoid CB_1 receptor; Conditioned taste aversion; Ingestive behavior; Intracranial self-stimulation; Locomotor activity; Operant behavior (De Vry, J. (483) 55)

K^+ channel; Bisindolylmaleimide; PKC (protein kinase C); Artery mesenteric; Smooth muscle; Patch-clamp (Kim, A. (483) 117)

Estrogen; Tamoxifen; Ovariectomy; Gene expression; K^+ channel; Ca^{2+} channel (Tsang, S.Y. (483) 155)

Nerve agent; Prophylactic; Physostigmine; Scopolamine; Procyclidine; Cognitive impairment (Myhrer, T. (483) 271)

Phosphatidylserine; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Memory; Parkinson's disease; Dopamine (Perry, J.C. (484) 225)

Cholecystokinin; Nociceptin/orphanin FQ; Spinal cord; Neuropathic; Electrophysiology (Maie, I.A. (484) 235)

Azithromycin; *P*-glycoprotein; Multidrug resistance; Doxorubicin; Mrp2 (Multidrug resistance-associated protein 2); Biliary excretion (Asakura, E. (484) 333)

Cerebral ischemia; GHB (γ -hydroxybutyrate); Immunohistochemistry; Sensory-motor test; Spatial learning (Ottani, A. (485) 183)

J-113397; Microdialysis; Orphanin FQ; Nociceptin; Amygdala (Kawahara, Y. (485) 197)

Constant-pressure perfusion; Mesenteric vascular bed; Endothelium; NO (nitric oxide); K^+ channel, Ca^{2+} -dependent (Fujioka, H. (485) 219)

TAK-802; Acetylcholinesterase inhibitor; Bladder; Micturition; (Guinea pig) (Nagabukuro, H. (485) 299)

Cholestasis; Cannabinoid system; Anandamide; Nitric oxide (NO); Opioid system; Mesenteric vessel (Moezi, L. (486) 53)

σ_1 Receptor; Neuro(active)steroid; β -Amyloid-(1–40) protein; Alzheimer's disease; Depression; Conditioned fear stress (Urani, A. (486) 151)

Parkinson's disease; Neuroprotection; AMPA receptor potentiator; LY404187; 6-Hydroxydopamine; MPTP; GAP-43 (growth-associated protein-43); BDNF (brain-derived neurotrophic factor) (O'Neill, M.J. (486) 163)

Gastric acid secretion; Vanilloid VR1 receptor; Tachykinin; CGRP (Calcitonin gene-related peptide); Glutamate; Central injection (Minowa, S. (486) 317)

Antihyperglycemic effect; Dipeptidyl peptidase IV; GLP-1; Insulin (Takasaki, K. (486) 335)

α_2 -Adrenoceptor antagonist; Desipramine; DOPAC; HPLC; Microdialysis (Devoto, P. (487) 105)

Prostate; Ischemia–reperfusion injury; Heat shock protein 70; Real-time PCR (Saito, M. (487) 199)

Novel chimeric peptide; Opioids; Substance P; Antinociception; Neuropathic pain (Bonney, I.M. (488) 91)

Histamine sensitisation; Pertussis toxin; Trachea; Small mesenteric resistance arteries; (Mouse) (van Meijeren, C.E. (488) 127)

Intrauterine stress; α -Adrenoceptor; β -Adrenoceptor; Sympathetic innervation; Renal artery (Sanders, M. (488) 147)

Focal adhesion kinase; Lidocaine; Protein kinase C; Hippocampus (Dahmani, S. (489) 55)

Analgesics; Animal model; Chronic pain; Nociception (De Vry, J. (491) 137)

Neuropathic pain; Contralateral treatment; κ -Opioid receptor agonist; U-50,488H; Opioid receptor (Bileviciute-Ljungar, I. (494) 139)

Second-generation histamine H_1 receptor antagonists; Ketotifen; Sleep–wakefulness cycle; Binding assay (Shigemoto, Y. (494) 161)

Chlormethiazole; Methamphetamine; Drug-discrimination (Gasior, M. (494) 183)

Vascular reactivity; Portal vein; Hyperthermia; Acidosis; Norepinephrine; Angiotensin (Pastor, C.M. (494) 191)

Ebselen; Focal ischemia; Oxidative stress; Cerebral infarct (Salom, J.B. (495) 55)

Polytherapy; GABA; Isobolic analysis; EEG (Bouwman, B.M. (495) 119)

Urinary bladder; Coaxial bioassay; Relaxation (Bozkurt, T.E. (495) 193)

Corpus cavernosum relaxation; Cholestasis; Acetylcholine; Indomethacin; Nitric oxide (Dehghani, M. (496) 181)

THC; Psychostimulants; Cross-sensitization; Locomotion; Microdialysis (Ellgren, M. (497) 205)

Endotoxin; CYP3A2; CYP2C11; Pioglitazone; PPAR- γ ; Antipyrine clearance (Ueyama, J. (498) 257)

Peroxisome-proliferator activated receptor- γ ; Lipopolysaccharide; Peptidoglycan; GW9662 (Dugo, L. (498) 295)

Bladder; Long-chain fatty alcohol; Bladder neck obstruction; Detrusor overactivity (Saito, M. (501) 143)

Quinolone antimicrobial agent; Pazufloxacin; P-glycoprotein; Multidrug resistance-associated protein 2 (Mrp2); Renal excretion (Shimizu, A. (501) 151)

Cannabinoid receptor antagonist; Heroin self-administration (Navarro, M. (501) 235)

Tryptophan depletion; Serotonin; Haloperidol; Schizophrenia; MK-801 (Bubeniková, V. (502) 109)

Antinociception; 5-HT; 5-HT receptor subtype; Intrathecal (Jeong, C.Y. (502) 205)

PIFIR model; Indomethacin; Antinociception; Nitric oxide (Ventura-Martínez, R. (503) 43)

Dipeptidyl peptidase IV; Active metabolite; Bile (Takasaki, K. (505) 237)

Antipsychotic; Weight gain (Kirk, S.L. (505) 253)

rat

Fas receptor aggregate; Fas protein; Deglycosylation; Opiate drug; Morphine addiction; (García-Fuster, M.J. (496) 63)

Prejunctional adenosine receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Immunohistochemistry; Noradrenaline release; Tail artery (Diniz, C. (504) 17)

Rat

Hot-plate; Writhing test; Migraine-like model; Bradykinin; Sumatriptan (Ottani, A. (497) 181)

Rat adipocyte

Des-acyl ghrelin; Ghrelin; Growth hormone secretagogue receptor; Isoproterenol-induced lipolysis (Muccioli, G. (498) 27)

Rat, Brown Norway

Adenosine; Airway hyperresponsiveness; Allergen challenge; Ovalbumin; Compound 48/80; Lung parenchymal strip (Wolber, C. (498) 227)

Rat, liver

Necrosis; Apoptosis; Cyclosporin A; Permeability transition pore; Preservation solution (Plin, C. (495) 111)

Rat, spontaneously hypertensive

Des-Arg⁹-bradykinin; Lipopolysaccharide; Aorta; K⁺ channel (Farias, N.C. (498) 163)

Rat, neonatal

Tamoxifen; Neuroprotection; Oxygen radical; Thiobarbituric acid reactive substance; (Feng, Y. (484) 65)

Rauwolfscine

Receptor autoradiography; α_{2A} -Knockout; α_{2ABC} -Knockout; RX821002 (Fagerholm, V. (497) 301)

Raxofelast

Anti-proliferation; Reactive oxygen species; Smooth muscle cell (Lee, K.-H. (484) 119)

RBL-2H3 cell

Mediator secretion; K⁺ channel blocker; Charybdotoxin; Cetiedil (Narenjkar, J. (483) 95)

Mast cell; Mediator release; K⁺ channels; Cetiedil (Narenjkar, J. (483) 107)

RC-3095

Bombesin; Gastrin-releasing peptide; Anticancer drug; Behavior; Memory (Roesler, R. (486) 35)

Reactive oxidative species

Melanoma; Betulinic acid derivative; Apoptosis; Mitochondrial membrane potential (Liu, W.-K. (498) 71)

Reactive oxygen specie

Methylguanidine; Carrageenan-induced inflammation; TNF- α (tumor necrosis factor- α); iNOS (nitric oxide (NO) synthase, inducible); Cyclooxygenase-2 (Marzocco, S. (484) 341)

PPAR- γ ; Rosiglitazone; Ischemia-reperfusion; Neutrophil; Cyclooxygenase (Villegas, I. (505) 195)

Reactive oxygen species

Angiotensin II; Trilinolein; Cardiomyocyte hypertrophy; MAP (mitogen-activated protein) kinase; β -myosin heavy chain (Liu, J.-C. (484) 1)

Raxofelast; Anti-proliferation; Smooth muscle cell (Lee, K.-H. (484) 119)

Edaravone; Cochlear protection; Noise trauma (Takemoto, T. (487) 113)

Resveratrol; Antioxidant; Cardiomyocyte; 4-Hydroxy-2-nonenal; Doxorubicin (Cao, Z. (489) 39)

mGlu5 knockout, mouse; Hypoxia (Storto, M. (497) 25)

Rutacarpine; Matrix metalloproteinase; HaCaT human keratinocyte (Beak, S.-M. (498) 19)

Propofol; Activated polymorphonuclear neutrophils (Thiry, J.-C. (499) 29)

Echinacoside; Apoptosis; TNF α ; Mitochondrial membrane potential; Caspase-3 (Deng, M. (505) 11)

Real-time PCR

Prostate; Ischemia-reperfusion injury; Heat shock protein 70; (Rat) (Saito, M. (487) 199)

Real-time RT-PCR

Ursodeoxycholic acid; Human endothelial cell; Endothelin-1; Nitric oxide (Ma, J. (505) 67)

Rebamipide

Cholecystokinin CCK₁ receptor; [Ca²⁺]_i oscillation; Amylase (Moon, S.J. (505) 61)

Reboxetine

Serotonin; Noradrenaline; Dopamine; Lithium carbonate; In vivo microdialysis (Kitaichi, Y. (489) 187)

σ Receptor

Cocaine; Convulsion; Lethality; Toxicity (Matsumoto, R.R. (492) 21)

σ_1 Receptor

Neuro(active)steroid; β -Amyloid-(1–40) protein; Alzheimer's disease; Depression; Conditioned fear stress; (Rat) (Urani, A. (486) 151)

Receptor

Ulcer; Adrenomedullin; Gastroprotection; Hepatocyte growth factor (Martínez, G. (488) 219)

Taste; cAMP; MAPK; G protein, inhibitory (Ozeck, M. (489) 139)

Spider; Wasp; Neurotoxin; Ion channel; Transporter and Neurotransmitter release (Beleboni, R.d.O. (493) 1)

Prostaglandin; Agonist; EP₂; EP₄ (Wilson, R.J. (501) 49)

Glucagon; Binding; Occupancy; Antagonist (Dallas-Yang, Q. (501) 225)

Cardiovascular disease; Coronary artery; Angiotensin II; Gene expression; Vasoconstriction (Wackenfors, A. (503) 147)

Receptor autoradiography

α_{2A} -Knockout; α_{2ABC} -Knockout; RX821002; Rauwolscine (Fagerholm, V. (497) 301)

Receptor binding assay

Cannabinoid CB₁ receptor; Anandamide; Glaucoma (Lograno, M.D. (494) 55)

Receptor cross-talk

Oesophagus muscularis mucosae; β_2 -Adrenoceptor; β_3 -Adrenoceptor; Protein kinase C (Oostendorp, J. (495) 75)

Receptor phosphorylation

α_{1D} -Adrenoceptor; Vascular tone; Hypertension (García-Sáinz, J.A. (500) 113)

Receptor subtype

Vascular relaxation; Cholinergic agonist; SIN-1; ATP (Khurana, S. (493) 127)

Receptor trafficking

Insulin receptor; Learning and memory; Signal transduction; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

Receptor theory

Constitutive activity; Inverse agonist; Serotonin receptor; Up-regulation (Devlin, M.G. (498) 59)

Receptor tyrosine kinase

Shiraichrome A; Angiogenesis inhibitor; Arthritis (Tong, Y. (494) 101)

Receptor-mediated contraction

Genistein; Cyclic nucleotides; Coronary artery, porcine (Lee, M.Y. (503) 165)

σ_1 Recognition site

Neurosteroid; Retina; Neuroprotection (Bucolo, C. (498) 111)

Redistribution

Apomorphine; Eticlopride; Vesicular monoamine transporter; Neurodegeneration (Truong, J.G. (492) 143)

Regional blood flow

Cardiac output; Chronotropic; Flavonoid; Haemodynamics; *N*^ω-nitro-L-arginine; Nitric oxide (Wang, S. (491) 43)

Regional myocardial blood flow

β -adrenoceptor; Adenylyl cyclase; Reperfusion; Catecholamine (Boucher, M. (495) 185)

Regulatory peptide

Insulin; 5-HT (5-hydroxytryptamine, serotonin); Glucose; Nutrient; Hypothalamus; Hippocampus; Energy homeostasis; Feeding; Cognition; Phosphatidylinositol-3 kinase (Gerozissis, K. (490) 59)

Reinforcement

Cocaine; Pharmacokinetics; Occupancy; Self-administration; Rhesus monkey (Woolverton, W.L. (486) 251)

NMDA receptor antagonist; Neramexane; Ethanol; Dependence (Kotlinska, J. (503) 95)

Reinstatement

Cocaine; Relapse; External stimulus (Shelton, K.L. (497) 35)

Relapse

Cocaine; Reinstatement; External stimulus (Shelton, K.L. (497) 35)

Relaxant activity

Binding activity; Chemical synthesis; CD (Circular dichroism); Helical structure; VIP (vasoactive intestinal peptide) derivative (Onoue, S. (485) 307)

Relaxation

Urocortin; Nickel; Pulmonary artery (Lau, C.-W. (488) 169)

NSU-242; Tracheal smooth muscle; Myosin phosphorylation; Actin assembly (Ozaki, H. (488) 191)

Kaurenoic acid; Aorta, rat; K⁺ channel; Ca²⁺ influx (Tirapelli, C.R. (492) 233)

Aortic ring; Cocaine; Phosphatase; Ca²⁺ entry; Aortic dissection (Li, W. (496) 151)

Urinary bladder; Coaxial bioassay; (Rat) (Bozkurt, T.E. (495) 193)

Isoprostane; Airway smooth muscle; K⁺ current (Helli, P.B. (501) 179)

Basilar artery; Diabetes; Endothelium; Insulin; Oxidative stress (Matsumoto, T. (504) 119)

ATP-sensitive potassium channel; Basilar artery; Cromakalim; Diabetes; Insulin (Matsumoto, T. (504) 129)

Remodeling

Vascular; Capsaicin; Hypertension; Salt; Heart (Zeng, Z.-h. (503) 129)

Remote preconditioning

Gastric preconditioning; Ischemia-reperfusion; Gastric blood flow; Prostaglandin; Sensory nerve (Brzozowski, T. (499) 201)

Renal artery

Intrauterine stress; α -Adrenoceptor; β -Adrenoceptor; Sympathetic innervation; (Rat) (Sanders, M. (488) 147)

Hyperthyroidism, acute; Adrenoceptor; Muscarinic receptor; Femoral artery (Iwata, T. (493) 191)

Hypercholesterolemia; Endothelium-derived hyperpolarizing factor; Pioglitazone (Moroe, H. (497) 317)

Renal blood flow

Halothane; Sevoflurane; Nitric oxide (NO); Microdialysis (Kusudo, K. (498) 267)

Renal dysfunction

Kidney; Reperfusion-injury; Urocortin (Patel, N.S.A. (496) 175)

Renal excretion

Quinolone antimicrobial agent; Pazufloxacin; P-glycoprotein; Multidrug resistance-associated protein 2 (Mrp2); (Rat) (Shimizu, A. (501) 151)

Renal hemodynamics

Adrenomedullin2; Vasodilation; diuresis; Natriuresis (Fujisawa, Y. (497) 75)

Renal mass reduction

Endothelin-1; ET_B receptor; Chronic renal failure; Hypertension (Okada, Y. (494) 63)

Renal tubular secretion

Organic anion transporter; Organic cation transporter; Famotidine; Cimetidine (Motohashi, H. (503) 25)

Renal/kidney

Ischemia; Reperfusion injury; Caspase; Caspase inhibitor (Chatterjee, P.K. (503) 173)

Renin angiotensin system

Angiotensinogen-deficient mice; Cardiac function; Cardiomyopathy; Pressure–volume relation (Walther, T. (493) 161)

Repaglinide

HypoThalamus; Blood glucose; ATP-sensitive K⁺ channel; Hypoglycemic; Glibenclamide (Zhang, Y. (492) 71)

Repeated testing

Physiology; Behavior; Animal model; Flesinoxan; 5-HT_{1A} receptor (Bouwknicht, J.A. (494) 35)

Reperfusion

Microcirculation; Atherosclerosis (Taylor, A.J. (486) 85)

5-Aminoisoquinolinone; Artery occlusion (Di Paola, R. (492) 203)

MonoHER; Oxidative stress; Necrosis; Neutrophil; Cardiac function (De Celle, T. (494) 205)

β-adrenoceptor; Adenylyl cyclase; Ischemia; Reperfusion; Catecholamine; Regional myocardial blood flow (Boucher, M. (495) 185)

MCC-135; Cardioprotection; Ischemia; Ca²⁺ overload (Sato, N. (499) 179)

Ischemia; Acute renal failure; Rho-kinase (Teraishi, K. (505) 205)

Reperfusion injury

Renal/kidney; Ischemia; Caspase; Caspase inhibitor (Chatterjee, P.K. (503) 173)

Reperfusion-injury

Kidney; Renal dysfunction; Urocortin (Patel, N.S.A. (496) 175)

Repetitive jaw movement

Attention-deficit hyperactivity disorder; Spontaneous behaviour; Striatum; Ventrolateral; Dopamine D1-like/D2-like receptor; Acetylcholine receptor; Spontaneously hypertensive rat (SHR) (Fujita, S. (484) 75)

Resistin

Adiponectin; HypoThalamus; Dopamine; Norepinephrine; Serotonin (Brunetti, L. (493) 41)

Respiratory burst

Celecoxib; Cyclooxygenase-2; Superoxide anion; Neutrophil; Protein kinase C (PKC); Ca²⁺ intracellular; Genistein (Chang-Hui, L. (484) 29)

Respiratory depression

Methadone; Naloxone methiodide; Radiotelemetry (Lewanowitsch, T. (484) 303)

Resveratrol

Antioxidant; Cardiomyocyte; Reactive oxygen species; 4-Hydroxy-2-nonenal; Doxorubicin (Cao, Z. (489) 39)

Reverse transcriptase-polymerase chain reaction (RT-PCR)

Icariin; Icaritin; Desmethylicaritin; Phytoestrogen; Estrogenic activity; Cell cycle analysis; S phase (Wang, Z.-q. (504) 147)

Retching

5-HT_{1F}; Barostat; Proximal stomach; Sumatriptan (Janssen, P. (492) 259)

Retigabine

GABA_A receptor complex; TBOB; Neuroactive steroid; Synergy; Isobole method; Molecular model (van Rijn, C.M. (485) 43)

Retina

Neurosteroid; σ₁ Recognition site; Neuroprotection (Bucolo, C. (498) 111)

Reverse frequency dependence

Antiarrhythmic agent; HERG; I_{Kr}; QT prolongation (Tsujimae, K. (493) 29)

Rhabdomyolysis

Organic anion transporter; Skeletal muscle; HMG-CoA reductase; Transport (Takeda, M. (483) 133)

(Rhesus monkey)

Self-administration; Ephedrine; Pseudoephedrine; Dopamine transporters (Wee, S. (493) 117)

Rhesus monkey

Cocaine; Pharmacokinetics; Occupancy; Reinforcement; Self-administration (Woolverton, W.L. (486) 251)

Rho

PIP5K; PIP₂; Phosphoinositide metabolism; ARF (Oude Weernink, P.A. (500) 87)

Rho kinase inhibitor

Hepatic ischemia–reperfusion; Polymorphonuclear leukocyte; Tumor necrosis factor-α; Interleukin-6 (Kawaguchi, A. (493) 167)

Rho subunit

Hippocampus; mIPSC; GABA_A-receptor; TPMPA; CACA (Hartmann, K. (497) 139)

Rhodamine 123

Avermectins; Calcein; Multidrug resistance; Tumor cells (Korystov, Y.N. (493) 57)

Rho-kinase

Endothelin-1; Mesenteric artery; Saponin; Y-27632 (Büyükaşar, K. (485) 263)

Growth factor; Bronchial smooth muscle (Gosens, R. (494) 73)

Endothelin-1; Lipopolysaccharide; Mesenteric artery; Nitric oxide; Y-27632 (Büyükaşar, K. (498) 211)

Ischemia; Reperfusion; Acute renal failure (Teraishi, K. (505) 205)

Riboflavin

Allodynia; Hyperalgesia; B vitamin (Granados-Soto, V. (492) 35)

Ribozyme

TGF-β1 (targeting transforming growth factor-β1); Smooth muscle cell, vascular; CTGF (connective tissue growth factor) (Ando, H. (483) 207)

Rifampicin

P-glycoprotein; MRP (Multidrug resistance-related protein); LRP (Lung resistance-related protein); Cytochrome CYP 3A4; LLC-PK₁ renal cell line (Magnarin, M. (483) 19)

Rilmenidine

Ethanol; α -Methyldopa; Hypotension; Hemodynamic variability; Time-domain analysis (El-Mas, M.M. (485) 251)

Riluzole

Morphine dependence; Glutamate; Excitatory amino acid; Nucleus accumbens; Neurotransmitter; Acamprosate (Sepúlveda, J. (483) 249)

Risperidone

Attention; Haloperidol; Clozapine; Cognition; Signal detection task (Rezvani, A.H. (486) 175)

Heart, human; Outward potassium current; Action potential (Gluais, P. (497) 215)

Fluvoxamine; Milnacipran; Anxiety; Conditioned fear stress; (mouse) (Miyamoto, J. (504) 97)

Ritanserin

5-HT; Zona incerta; 5-HT₇ receptor; 5-Carboxamidotryptamine; SB-269970-A (Siddiqui, A. (491) 77)

RNA binding

iNOS (inducible nitric oxide synthase); Expression; Signal transduction; Pathway; Promoter; Transcription factor; mRNA stability; Protein (Kleinert, H. (500) 255)

Rofecoxib

Nitric oxide (NO); Cyclooxygenase (Déciga-Campos, M. (484) 193)

Synergism; Formalin test; (Mouse); Aminoguanidine hydrochloride (Dudhgaonkar, S.P. (492) 117)

Human monocyte; Tumor necrosis factor- α ; Nuclear factor- κ B; Indomethacin; Dexamethasone (Lavagno, L. (501) 199)

NSAID; Ibuprofen; bFGF expression; VEGF expression; Apoptosis; Proliferation (Sánchez-Fidalgo, S. (505) 187)

Rolipram

Phosphodiesterase 4; Antidepressant; Learned helplessness; cAMP response element; Brain-derived neurotrophic factor (Itoh, T. (498) 135)

Rosiglitazone

PPAR (peroxisome proliferator-activated receptor); Inflammation, acute; iNOS (nitric oxide synthase inducible); Cyclooxygenase-2; ICAM-1 (intercellular adhesion molecule-1) (Cuzzocrea, S. (483) 79)

PPAR- γ ; Ischemia–reperfusion; Reactive oxygen specie; Neutrophil; Cyclooxygenase (Villegas, I. (505) 195)

Rutaecarpine

Reactive oxygen species; Matrix metalloproteinase; HaCaT human keratinocyte (Beak, S.-M. (498) 19)

RX821002

Receptor autoradiography; α _{2A}-Knockout; α _{2ABC}-Knockout; Rauwolscine (Fagerholm, V. (497) 301)

Ryanodine

Oesophageal striated muscle; Sarcoplasmic reticulum; (SHRSP) stroke-prone spontaneously hypertensive rat; Twitch contraction (Sekiguchi, F. (486) 91)

Portal vein, rat; Spontaneous contraction; Store-operated Ca²⁺ entry; Cyclopiazonic acid; Protein kinase C (Burt, R.P. (496) 109)

Imidazoline receptor; KU14R; β -Carboline; Insulin secretion; Islets of Langerhans (Squires, P.E. (501) 31)

Ryanodine channel

Human heart; Skinned fibre; Ouabain; Caffeine (Hambarchian, N. (492) 225)

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; SERCA2a; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Saccharin

Alcohol dependence; Alcohol abuse; HEP, rat; Taste preference (Terenina-Rigaldie, F. (504) 199)

[³⁵S]GTP γ S

Cannabinoid receptor; 3-Alkyl-(5,5'-diphenyl)imidazolidinedione; Neutral antagonism; Inverse agonism (Díaz-Reval, M.I. (483) 241)

S-(+)-ketoprofen

Antinociception; Tropisetron; Methiothepin; 5-HT receptor antagonist (Díaz-Reval, M.I. (483) 241)

s-(–)-3-*n*-butylphthalide

Natural product; Huperzine A; (–)-Clausenamide; *Ginkgo biloba* extract (Zhu, X.Z. (500) 221)

S-nitrosogluthathione

Gastric fundus, mouse; Photorelaxation; Nitric oxide (NO); CuCl₂; Neocuproine; Cuprizone (Ögülcener, N. (485) 269)

S-petasin

Zona fasciculata-reticularis cells; P450_{scc} activity; 11 β -Hydroxylase activity; Steroidogenic acute regulatory protein expression (Chang, L.-L. (489) 29)

Salmonella typhi

Gastric hemorrhage; Mucosal ulceration; Oxyradical; Glutathione; Ofloxacin (Hung, C.-R. (491) 61)

Streptococcus pneumoniae

Meningitis; NF- κ B1; NF- κ B p50 subunit; Host response (Kastenbauer, S. (498) 315)

Salbutamol

Airway smooth muscle; β ₂-Adrenoceptor; cAMP; (Guinea pig); SQ 22,536 (Koike, K. (492) 65)

Salivary gland

Solifenacin; Urinary bladder; Bladder selectivity (Ohtake, A. (492) 243)

Salt

Vascular; Remodeling; Capsaicin; Hypertension; Heart (Zeng, Z.-h. (503) 129)

Saphenous vein, human

Thapsigargin; Sympathetic vascular tone; Thromboxane A₂; Endothelin; Verapamil (Fabi, F. (484) 277)

Saponin

Endothelin-1; Mesenteric artery; Rho-kinase; Y-27632 (Büyükaşar, K. (485) 263)

Sarcoplasmic reticulum

Ryanodine; Oesophageal striated muscle; (SHRSP) stroke-prone spontaneously hypertensive rat; Twitch contraction (Sekiguchi, F. (486) 91)

Sardinian alcohol-preferring (sP), rat

Alcohol intake; Baclofen; Morphine; WIN 55,212-2 (Colombo, G. (492) 189)

Cannabinoid CB₁ receptor antagonist, SR141716; Extinction responding for alcohol (Colombo, G. (498) 119)

Sargaquinoic acid

Neuronal PC12D cells; Nerve growth factor; Survival supporting activity; Neurite regeneration; Phosphatidylinositol-3 kinase (Tsang, C.K. (488) 11)

Satiety threshold

Pharmacokinetics; Pharmacodynamics; Cocaine; WIN 35,428 (Norman, A.B. (483) 281)

SB224289

BRL44408; Dihydroergotamine; (Dog); Carotid vasoconstriction external; MK912 (Villalón, C.M. (484) 287)

SB-2587 19

SB-259741; SB-269970; 5-HT₇ receptor; Inverse agonism; Constitutive activity (Mahé, C. (495) 97)

SB-259741

SB-269970; 5-HT₇ receptor; Inverse agonism; Constitutive activity; SB-2587 19 (Mahé, C. (495) 97)

SB-269970

5-HT₇ receptor; Inverse agonism; Constitutive activity; SB-2587 19; SB-259741 (Mahé, C. (495) 97)

Hypotension; 5-Hydroxytryptamine; 5-HT₇ receptor; 5-HT_{2B} receptor; BW723C86 (Centurión, D. (502) 239)

SB-269970-A

5-HT; Zona incerta; 5-HT₇ receptor; 5-Carboxamidotryptamine; Ritanserin (Siddiqui, A. (491) 77)

SB-710411

Urotensin-II; UT receptor; GPR14; Somatostatin (Behm, D.J. (492) 113)

SC-560

Cyclooxygenase inhibitor; Cough reflex; Antitussive effect; NS-398 (Kamei, J. (497) 233)

SCH 50911

γ-Hydroxybutyric acid-induced mortality; GABA_B receptor antagonist; DBA mouse (Carai, M.A. (503) 77)

CGP7930; Positive allosteric modulation of GABA_B receptor; Baclofen; γ-Hydroxybutyric acid (GHB); DBA, mouse (Carai, M.A.M. (504) 213)

Schizophrenia

Prefrontal cortex; Striatum; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Antipsychotic (Jordan, S. (483) 45)

Proteomics; Neuroscience; Neuropharmacology; Human Proteome Organization; Alzheimer's disease (Vercauteren, F.G.G. (500) 385)

Tryptophan depletion; Serotonin; Haloperidol; (Rat); MK-801 (Bubeníková, V. (502) 109)

MK-801; Thalamus, rat; Proteomic; Acute; Subchronic (Paulson, L. (505) 103)

Sciatic nerve

Melanocortin; Sensory recovery; Peripheral nerve injury (Nijenhuis, W.A.J. (495) 145)

Scintillation proximity assay

Dopamine D1 receptor; G_s protein; Clozapine; Haloperidol (Cussac, D. (485) 111)

SCMC-Lys (Carbocysteine lysine salt monohydrate)

COPD; Breath condensate; 8-isoprostane; Interleukin-6 (Carpagnano, G.E. (505) 169)

Scopolamine

Nerve agent; Prophylactic; Physostigmine; Procyclidine; Cognitive impairment; (Rat) (Myhrer, T. (483) 271)

Morphine; Memory; Passive avoidance; Intracerebroventricular; K_{ATP} channel modulators; (Mouse) (Zarrindast, M.R. (487) 143)

Prepulse inhibition; AF-DX116; 4-DAMP; Tropicamide; Pirenzepine; Muscarinic receptor; (Mouse) (Ukai, M. (492) 183)

Scratch

Prostaglandin D₂; Atopic dermatitis; NC/Nga, mouse; Pruritus (Arai, I. (505) 229)

Scratching behaviour

Dermatitis; Animal model; Substance P; NC/Nga mouse (Ohmura, T. (491) 191)

Atopic dermatitis; NC/Nga, mouse; Itching; MicroAct (Takano, N. (495) 159)

SEA0400

Brain edema; Radiofrequency lesion; Blood–brain barrier; Na⁺–Ca²⁺ exchanger (Koyama, Y. (489) 193)

Na⁺/Ca²⁺ exchanger; Myocardial stunning (Takahashi, T. (505) 163)

Second-generation histamine H₁ receptor antagonists

Ketotifen; Sleep–wakefulness cycle; Binding assay; Rat (Shigemoto, Y. (494) 161)

Sedation

Locomotor activity; Analgesia; Amitriptyline; α_{2A}-Adrenoceptor; Clonidine; (Mouse) (Özdoğan, Ü.K. (485) 193)

Seizure

Bupropion; Antidepressant drug; Smoking cessation; Epilepsy (Tutka, P. (499) 117)

GABA; Epilepsy; Transporter; Betaine transporter; Astrocyte; *exo*-THPO; Neuron; Astroglia; Anticonvulsant (Schousboe, A. (500) 281)

Selective growth inhibition

Quercetin; Hepatocyte; Apoptosis; Antioxidant defense system (Son, Y.-O. (502) 195)

Selective oestrogen-receptor modulator

Nitric oxide synthase regulation; Oestrogen; Raloxifene; Heart; Cardiac ischaemia (Nemcsik, J. (495) 179)

Selective serotonin reuptake inhibitor

Conditioned fear; Amygdala; Serotonin; Microinjection; Anxiety (Inoue, T. (497) 311)

Selective serotonin re-uptake inhibitor

5-HT autoreceptor; 5-HT_{1B} receptor; 5-HT_{1D} receptor; Neurotransmitter release; Antidepressant (Pullar, I.A. (493) 85)

Self-administration

Cocaine; Pharmacokinetics; Occupancy; Reinforcement; Rhesus monkey (Woolverton, W.L. (486) 251)

(Rhesus monkey); Ephedrine; Pseudoephedrine; Dopamine transporters (Wee, S. (493) 117)

Nicotine; Cocaine; Food; Metabotropic glutamate receptors; MPEP (Tessari, M. (499) 121)

Cocaine; Ondansetron; Withdrawal (Davidson, C. (503) 99)

Self-administration intravenous

Ethanol; (Mouse) (Blokina, E.A. (485) 211)

Sensitization

5-HT₃ receptor; 5-HT (5-hydroxytryptamine, serotonin); 2-Methylserotonin; Writhing; Pain (Giordano, J. (483) 267)

Morphine; Naloxone; Dopamine receptor agonists and antagonists; (mouse) (Zarrindast, M.-R. (497) 197)

Drug discrimination; Methamphetamine (Suzuki, T. (498) 157)

Sensory recovery

Peripheral nerve injury; Sciatic nerve; Melanocortin (Nijenhuis, W.A.J. (495) 145)

Sensory nerve

Gastric preconditioning; Ischemia–reperfusion; Gastric blood flow; Remote preconditioning; Prostaglandin (Brzozowski, T. (499) 201)

Sensory neurotransmitter

Capsaicin; Visceral smooth muscle; Gastrointestinal tract; Bronchial smooth muscle; Genitourinary tract (Barthó, L. (500) 143)

Sensory-motor test

Cerebral ischemia; GHB (γ -hydroxybutyrate); Immunohistochemistry; (Rat); Spatial learning (Ottani, A. (485) 183)

Sephadex bead

Eotaxin; Lung granuloma; Nuclear factor- κ B; Tumor necrosis factor- α ; Vitamin A (Torii, A. (497) 335)

Sepsis

Vitamin B₂; Amino acid; Mortality; Macrophages (Toyosawa, T. (493) 177)

SERCA2a

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; Ryanodine channel; Thapsigargin; Trifluoperazine; W-7 (Endoh, M. (500) 73)

D-Serine

D-Amino acid oxidase; Glycine site; *N*-Methyl-D-aspartate receptor; L-Serine; Serine racemase (Hashimoto, A. (495) 153)

L-Serine

D-Amino acid oxidase; Glycine site; *N*-Methyl-D-aspartate receptor; D-Serine; Serine racemase (Hashimoto, A. (495) 153)

Serine racemase

D-Amino acid oxidase; Glycine site; *N*-Methyl-D-aspartate receptor; D-Serine; L-Serine (Hashimoto, A. (495) 153)

Serotonin

Thermoregulation; Hypothermia; In vivo; Knockout, mouse (Hedlund, P.B. (487) 125)

Dopamine; Psychostimulant; Antidepressant; Antipsychotic; Food intake; Obesity; Transgenic (Giorgetti, M. (488) 1)

Noradrenaline; Dopamine; Reboxetine; Lithium carbonate; In vivo microdialysis (Kitaichi, Y. (489) 187)

5-HT_{1A} receptor; α_2 -Adrenoceptor; Mydriasis; Miosis; Pupil (Yu, Y. (489) 207)

mGlu₅; MPEP; Dorsal raphe; Microdialysis; Thermal nociception (Palazzo, E. (492) 169)

Adiponectin; Resistin; Hypothalamus; Dopamine; Norepinephrine (Brunetti, L. (493) 41)

Aripiprazole; Antipsychotic; Dopamine; Prefrontal cortex; Hippocampus (Li, Z. (493) 75)

Dipyrone; Antinociception; Methysergide; Yohimbine; Pyrazoline (Godoy, M.C.M. (496) 93)

Curative analgesia; Neuropathic pain; F 13640 (Colpaert, F.C. (497) 29)

Exercise-induced cardiac ischemia; 5-HT_{1B} receptor; 5-HT_{2A} receptor; SL65.0472; Ketanserin (Guilbert, F. (497) 55)

Conditioned fear; Selective serotonin reuptake inhibitor; Amygdala; Microinjection; Anxiety (Inoue, T. (497) 311)

3,4-Methylenedioxymethamphetamine; Ecstasy; Hyperthermia; Neurotoxicity; Body temperature (Green, A.R. (500) 3)

Adolescence; Autoradiography; Dopamine; Nicotine (Collins, S.L. (502) 75)

Tryptophan depletion; Haloperidol; (Rat); Schizophrenia; MK-801 (Bubeníková, V. (502) 109)

Glucocorticoid receptor; Antisense oligonucleotide; Depression (Islam, A. (502) 213)

Spinal reflex; 5-HT receptor subtype (Honda, M. (503) 55)

Transporter; cGMP; PKG; Sildenafil; PDE5 (Zhu, C.-B. (504) 1)

Serotonin (5-HT) transporter

Substance P (neurokinin 1) receptor; In vivo intracerebral microdialysis; Knock-out, mice (David, D.J. (492) 41)

Serotonin receptor

Constitutive activity; Inverse agonist; Receptor theory; Up-regulation (Devlin, M.G. (498) 59)

Cocaine; Locomotor activity; Dopamine receptor (Hanania, T. (502) 221)

Serum-deprivation

Free radical scavenger; Endothelial dysfunction; Bradykinin; p38 MAP kinase; Tyrosine kinase (Maeda, Y. (491) 53)

Sesquiterpene lactone

Cynaropicrin; Cytotoxicity; Apoptosis; Cell cycle arrest; PKC δ (Cho, J.Y. (492) 85)

Severe asthma model

Airway hyperresponsiveness; (Guinea pig); Neurokinin NK₃ receptor (Mukaiyama, O. (498) 287)

Sevoflurane

Halothane; Nitric oxide (NO); Renal blood flow; Microdialysis (Kusudo, K. (498) 267)

Sex

Morphine; Antinociception; Tolerance; Estrous cycle (Shekunova, E.V. (486) 259)

Sex difference

Anandamide; 17 β -Oestradiol; Vasorelaxation; (Sprague–Dawley rat) (Peroni, R.N. (493) 151)

[³⁵S]GTP γ S

Cannabinoid receptor; 3-Alkyl-(5,5'-diphenyl)imidazolidinedione; Neutral antagonism; Inverse agonism (Govaerts, S.J. (495) 43)

[³⁵S]GTP γ S binding

Dendroaspis angusticeps toxins; Muscarinic M₁ receptor; Phosphoinositide hydrolysis; [³H]Acetylcholine binding; [³H]N-Methyl-scopolamine binding (Olianas, M.C. (487) 65)

[³⁵S]GTP γ S binding assay

Epsilon receptor; Opioid receptor; Knockout mice (Contet, C. (492) 131)

Shiraiachrome A

Angiogenesis inhibitor; Arthritis; Receptor tyrosine kinase (Tong, Y. (494) 101)

Shock

PPAR (peroxisome proliferator-activated receptor); GW9662 (Collin, M. (486) 233)

(SHRSP) stroke-prone spontaneously hypertensive rat

Ryanodine; Oesophageal striated muscle; Sarcoplasmic reticulum; Twitch contraction (Sekiguchi, F. (486) 91)

Sialidase

Carbocisteine; Fucosidase; Fucosyltransferase; Sialyltransferase; Muc5ac (Ishibashi, Y. (487) 7)

Sialyltransferase

Carbocisteine; Fucosidase; Sialidase; Fucosyltransferase; Muc5ac (Ishibashi, Y. (487) 7)

Sibutramine

Dosulepin; Microdialysis; Dopamine release; 5-HT (5-hydroxytryptamine, serotonin) release; Carrier-mediated (Ukai, K. (484) 209)

Sickness behaviour

Cytokines; Inflammation; Brain; Afferent nerve; Pain; Sleep; Learning and memory (Dantzer, R. (500) 399)

Sigma receptor

Lipid raft; Sphingolipid; Apoptosis; Liver, rat (Gebreselassie, D. (493) 19)

Signal cascade

Opiate; Physical dependence; *N*-methyl-D-aspartate (NMDA) receptor; Ontogeny (Noda, Y. (500) 121)

Signal detection task

Attention; Haloperidol; Clozapine; Risperidone; Cognition (Rezvani, A.H. (486) 175)

Signal transduction

Insulin receptor; Learning and memory; Receptor trafficking; Diabetes mellitus; Alzheimer's disease (Zhao, W.-Q. (490) 71)

iNOS (inducible nitric oxide synthase); Expression; Pathway; Promoter; Transcription factor; mRNA stability; RNA binding; Protein (Kleinert, H. (500) 255)

Signal transduction pathway

Hydroxyl radical; Aortic ring; Contraction; Vascular smooth muscle (Li, J. (499) 171)

SiHa

Allucin; Apoptosis; HeLa; SW480; L-929; Garlic (Oommen, S. (485) 97)

Sildenafil

T-0156; Phosphodiesterase type 5 inhibitor; Phosphodiesterase type 6; Penile tumescence; Electroretinogram (Mochida, H. (485) 283)

Atorvastatin; Nitric oxide; Phosphodiesterase-5 inhibitor; Statins; Vascular reactivity (Castro, M.M. (498) 189)

Phosphodiesterase 5; HERG channel; Potassium channel; Tadalafil; Vardenafil (Dustan Sarazan, R. (502) 163)

Serotonin; Transporter; cGMP; PKG; PDE5 (Zhu, C.-B. (504) 1)

Simvastatin

Fenofibrate; Type 2 diabetes; Oxidative stress; Endothelial function (Škrha, J. (493) 183)

SIN-1

Receptor subtype; Vascular relaxation; Cholinergic agonist; ATP (Khurana, S. (493) 127)

Single-channel analysis

L-type Ca²⁺ channel; β_{2c} Subunit; Modal gating behavior (Kamada, Y. (487) 37)

Site-directed mutagenesis

P2X receptor; ATP; *Xenopus* oocyte; Membrane current (Nakazawa, K. (483) 29)

Binding site; G protein-coupled receptor; Molecular modelling; Nonpeptide antagonists (Meini, S. (488) 61)

Sivelestat

Neutrophil elastase; Acid aspiration; Acute lung injury (Hagio, T. (488) 173)

SK&F 83822

Dopamine D1-like receptor; Adenylyl cyclase-coupled; Non-adenylyl cyclase-coupled; Behavioural topography; Dopamine D1-like: D2-like receptor interaction; (Mouse) (O'Sullivan, G.J. (486) 273)

Skeletal muscle

Organic anion transporter; HMG-CoA reductase; Rhabdomyolysis; Transport (Takeda, M. (483) 133)

Calcium channel; Endocannabinoid; Cannabinoid; Fatty acid (Oz, M. (502) 47)

NO (Nitric oxide); Lipopolysaccharide; Contractility; Excitation–contraction coupling; Neuromuscular junction (Sara, Y. (505) 177)

Skinned fibre

Human heart; Ouabain; Caffeine; Ryanodine channel (Hambarchian, N. (492) 225)

SL65.0472

Serotonin; Exercise-induced cardiac ischemia; 5-HT_{1B} receptor; 5-HT_{2A} receptor; Ketanserin (Guilbert, F. (497) 55)

Sleep

Sickness behaviour; Cytokines; Inflammation; Brain; Afferent nerve; Pain; Learning and memory (Dantzer, R. (500) 399)

Sleep latency

Chlorogenic acid; Caffeic acid; Dihydrocaffeic acid; Caffeine; Arousal effect (Shinomiya, K. (504) 185)

Sleep–wakefulness cycle

Second-generation histamine H₁ receptor antagonists; Ketotifen; Binding assay; Rat (Shigemoto, Y. (494) 161)

Slow ventral root potential

General anesthetic; Inhalation; Monosynaptic reflex; Nociceptive reflex; Neonatal spinal cord (Watanabe, I. (496) 71)

Small intestine

Interstitial cell of Cajal; Pacemaker current; Neurokinin receptor1; Substance P (Jun, J.Y. (495) 35)

Small mesenteric resistance arteries

Histamine sensitisation; Pertussis toxin; Trachea; (Rat); (Mouse) (van Meijeren, C.E. (488) 127)

Small mesenteric resistance artery

Histamine sensitisation; Pertussis toxin; Nitric oxide synthase (van Meijeren, C.E. (493) 139)

Smoking cessation

Bupropion; Seizure; Antidepressant drug; Epilepsy (Tutka, P. (499) 117)

Smooth muscle

Y-27632; Airway; MAP (mitogen-activated protein) kinase; Phosphatidylinositol 3-kinase; PDGF (platelet-derived growth factor) (Gosens, R. (483) 71)

K⁺ channel; Bisindolylmaleimide; PKC (protein kinase C); Artery mesenteric; Patch-clamp; (Rat) (Kim, A. (483) 117)

Uridine 5'-triphosphate; α,β -Methyleneadenosine 5'-triphosphate; P2Y₄ receptor; Basilar artery; Ectonucleotidase (Miyagi, Y. (488) 117)

Smooth muscle, airway

Ca²⁺ channel; Ca²⁺ entry, capacitative; Fura-2; Myosin light chain kinase (Ito, S. (486) 325)

Smooth muscle cell

Raxofelast; Anti-proliferation; Reactive oxygen species (Lee, K.-H. (484) 119)

Smooth muscle cell, vascular

Ribozyme; TGF- β 1 (targeting transforming growth factor- β 1); CTGF (connective tissue growth factor) (Ando, H. (483) 207)

CGRP (calcitonin gene-related peptide); Angiotensin II; Proliferation (Qin, X.-P. (488) 45)

SNAP (S-nitroso-N-acetyl-D,L-penicillamine)

NO (Nitric Oxide); cGMP (cyclic guanosine 3',5'-monophosphate); Calcium; Aggregation; Platelet; GEA 3175 (Asplund Persson, A.K. (496) 1)

SNRI (selective 5-HT/noradrenaline reuptake inhibitor)

Antidepressant; *Arc* (activity-regulated cytoskeletal associated protein); 5-hydroxytryptamine; Neuroplasticity (Pei, Q. (495) 227)

Social interaction test

Flinders sensitive line rat model; Depression; CRF₁ receptor antagonist; Citalopram; Desipramine, forced swim test (Overstreet, D.H. (492) 195)

Flinders Sensitive Line rat model; Depression; CRF₁ receptor antagonist SSR125543; Fluoxetine; Desipramine (Overstreet, D.H. (497) 49)

Sodium nitroprusside

db-cGMP; Diazoxide; K⁺ channel opener; Antinociception (Alves, D.P. (489) 59)

Solifenacin

Urinary bladder; Salivary gland; Bladder selectivity (Ohtake, A. (492) 243)

Soman

Brain injury; Memory impairment; Prophylactic; Physostigmine; Procyclidine (Choi, E.-K. (505) 83)

Somatostatin

Urotensin-II; UT receptor; GPR14; SB-710411 (Behm, D.J. (492) 113)

Analgesic effect; Formalin test; Writhing test; Thermal nociception; Diabetic neuropathy (Szolcsányi, J. (498) 103)

S phase

Icariin; Icaritin; Desmethylicaritin; Phytoestrogen; Estrogenic activity; Cell cycle analysis; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Wang, Z.-q. (504) 147)

Sparse data analysis

Adenosine A₁ receptor; Chronic constriction injury model; Neuropathic pain; Pharmacokinetic–pharmacodynamic modelling; Anti-hyperalgesic effect; Anti-nociceptive effect (Schaddelee, M.P. (504) 7)

Spatial learning

Cerebral ischemia; GHB (γ -hydroxybutyrate); Immunohistochemistry; (Rat); Sensory-motor test (Ottani, A. (485) 183)

Species selectivity

GPCR; Cannabinoid; Cannabinoid CB₂ receptor; Pharmacology (Mukherjee, S. (505) 1)

Sphingolipid

Sigma receptor; Lipid raft; Apoptosis; Liver, rat (Gebreselassie, D. (493) 19)

Sphingosine 1-phosphate

Histamine; Protein kinase C; p38 MAPK; Adhesion molecule; Endothelial cell; (Human) (Shimamura, K. (486) 141)

Spider

Wasp; Neurotoxin; Ion channel; Receptor; Transporter and Neurotransmitter release (Beleboni, R.d.O. (493) 1)

Spinal cord

Cholecystokinin; Nociceptin/orphanin FQ; Neuropathic; Electrophysiology; (Rat) (Maie, I.A. (484) 235)

Autonomic nervous system; Hypertension; Neonatal, rat (Peng, S.-C. (492) 49)

Endomorphin-2; Dynorphin A₁₋₁₇ (Leitermann, R.J. (504) 177)

Allodynia; Muscarinic receptor; α_2 -Adrenoreceptor; Diabetes (Koga, K. (505) 75)

Spinal reflex

Serotonin; 5-HT receptor subtype (Honda, M. (503) 55)

Spinal trigeminal nucleus

GABAergic neuron; Microdialysis (Viggiano, A. (496) 87)

Spinal, rat

Hyperalgesia; Lipoxygenase; Opioid tolerance (Trang, T. (491) 21)

Spiroperone

Dopamine; D₄ receptor; A-369508 (Moreland, R.B. (497) 147)

Splenocyte proliferation

Cocaine sensitization; Locomotor hyperactivity; Immunity; Cytokine; Interferon- γ (Kubera, M. (483) 309)

Spontaneous activity

GABA_A receptor; Benzodiazepine; Barbiturate; Inhibition; γ -aminobutyric acid; Channel block; Tonic current (Lindquist, C.E.L. (496) 23)

Rapid estrogen effect; Intestinal smooth muscle; K⁺ channel; Voltage-dependent Ca²⁺ channel (Díaz, M. (501) 161)

Spontaneous behaviour

Attention-deficit hyperactivity disorder; Repetitive jaw movement; Striatum; Ventrolateral; Dopamine D1-like/D2-like receptor; Acetylcholine receptor; Spontaneously hypertensive rat (SHR) (Fujita, S. (484) 75)

Spontaneous contraction

Portal vein, rat; Store-operated Ca²⁺ entry; Cyclopiazonic acid; Ryanodine; Protein kinase C (Burt, R.P. (496) 109)

Spontaneous feeding

Chronic obesity; Diet-induced obese, rat; Locomotor activity (Kowalski, T.J. (497) 41)

Spontaneously hypertensive, rat

Acidosis; Tyrosine phosphorylation; Voltage-dependent calcium channel; Phosphatidylinositol 3 kinase; Aorta (Rohra, D.K. (504) 105)

Spontaneously hypertensive rat (SHR)

Attention-deficit hyperactivity disorder; Spontaneous behaviour; Repetitive jaw movement; Striatum; Ventrolateral; Dopamine D1-like/D2-like receptor; Acetylcholine receptor (Fujita, S. (484) 75)

Sympathetic nervous system; Adrenoreceptor antagonist (Boesen, E.I. (486) 183)

Spontaneously hypertensive rat

Bronchoconstriction; Lung; NO (Nitric oxide); Mast cell; Anaphylaxis; (Kwasniewski, F.H. (488) 181)

(Sprague–Dawley rat)

Anandamide; 17 β -Oestradiol; Vasorelaxation; Sex difference (Peroni, R.N. (493) 151)

SQ 22,536

Airway smooth muscle; β_2 -Adrenoceptor; cAMP; (Guinea pig); Salbutamol (Koike, K. (492) 65)

SR 141716A

Delta-9-THC; 5-HTP; 5-HT; Carbidopa; Head-twitch; Ear-scratch; Central; Peripheral; Cannabinoid CB₁ receptor (Darmani, N.A. (488) 201)

SR 141716 (Rimonabant)

Cannabinoid CB₁ receptor antagonist; Intestinal motility; Chronic treatment and tolerance development; Mouse (Carai, M.A.M. (494) 221)

SSRI

Depression; Antidepressant; Monoamine; Neurogenesis; Tricyclic; Dopamine (Millan, M.J. (500) 371)

5-HT_{1A}; Anxiety; Predator stress; Vilazodone (Adamec, R. (504) 65)

Statin

Mesangial cell, rat; Interleukin 1- β ; Cerivastatin; NO (nitric oxide); NO (nitric oxide) synthase, inducible; Cyclooxygenase-2 (Blume, C. (485) 1)

Statins

Atorvastatin; Nitric oxide; Phosphodiesterase-5 inhibitor; Sildenafil; Vascular reactivity (Castro, M.M. (498) 189)

Staurosporine

Keloid; Apoptosis; PKC412; Caspase (Nakazono-Kusaba, A. (497) 155)

Stereoselectivity

β_3 -Adrenoceptor; Cloned receptor; Ileum mouse (Popp, B.D. (484) 323)

Steroidogenic acute regulatory protein expression

Zona fasciculata-reticularis cells; S-petasin; P450_{scc} activity; 11 β -Hydroxylase activity (Chang, L.-L. (489) 29)

Stilbene disulphonate

(Guinea-pig); (Rabbit); Verapamil; Dideoxyforskolin; Anthracene-9-carboxylic acid (Shuba, L.M. (491) 111)

Stomach

Vagus; Enteric nervous system; Brainstem; Gastrin; Ghrelin; Leptin (Konturek, P.C. (499) 15)

Store-operated Ca²⁺ entry

Portal vein, rat; Spontaneous contraction; Cyclopiazonic acid; Ryanodine; Protein kinase C (Burt, R.P. (496) 109)

Streptonigrin

Guanylyl cyclase; Nitric oxide (NO) (Severina, I.S. (483) 127)

Streptozotocin

Antidepressant; Hot-plate; Fluoxetine; Neuropathic pain; Tail-immersion (Anjaneyulu, M. (497) 285)

Stress

Acetylcholine; Corticosterone; Benzodiazepine; Buspirone; Hippocampus; Microdialysis (Degroot, A. (493) 103)

NO (Nitric oxide); Elevated plus maze; Adaptation (Masood, A. (493) 111)

Aldosterone; Nicotine (Stier Jr., C.T. (495) 167)

Stress-related behavior

CRF (corticotropin-releasing factor); CRF₁ receptor; Anxiety; Depression; R278995/CRA0450 (Chaki, S. (485) 145)

Stress axis

Lithium chloride; NO (Nitric oxide); c-Fos; Inducible cAMP early repressor (Jahng, J.W. (489) 111)

Striatum

Prefrontal cortex; Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Antipsychotic; Schizophrenia (Jordan, S. (483) 45)

Attention-deficit hyperactivity disorder; Spontaneous behaviour; Repetitive jaw movement; Ventrolateral; Dopamine D1-like/D2-like receptor; Acetylcholine receptor; Spontaneously hypertensive rat (SHR) (Fujita, S. (484) 75)

Cerebral ischemia; Dimaprit; Dopamine; Glutamate; Histamine (Hamami, G. (484) 167)

Motor control; Glutamate; Dopamine (Del Bel, E.A. (485) 175)

Immediate early gene; c-fos; Caudate; Acetylcholine; Dopamine D1 receptor (Wirtshafter, D. (488) 85)

Dopamine D2 receptor; Positron emission tomography; Pain (Hagelberg, N. (500) 187)

Stroke

Dopamine receptor; Neuroprotection; Oxygen–glucose deprivation; Free radical; Anti-oxidant (Miglio, G. (489) 157)

FK419; Platelet glycoprotein IIb/IIIa; (Guinea pig); Thrombolysis (Moriguchi, A. (498) 179)

Brain; Pharmacokinetics; Drug delivery; Blood–brain barrier; Erythropoietin; Neuroprotection (Banks, W.A. (505) 93)

Structure–effect relationship

Opioid; Immune system; 4,5-Epoxy-morphinans; Cell proliferation (Hutchinson, M.R. (494) 251)

SU5416

Gemcitabine; Pancreas cancer cell; Endothelial cell; VEGF; Angiogenesis (Bocci, G. (498) 9)

Subarachnoid haemorrhage

Cerebral vasospasm; Phosphodiesterase inhibitor; Cilostazol; Endothelium (Birk, S. (489) 93)

20-HETE; Agonist; Antagonist; Middle cerebral artery (Yu, M. (486) 297)

Subchronic

MK-801; Schizophrenia; Thalamus; Proteomic; Acute (Paulson, L. (505) 103)

Substance P

Novel chimeric peptide; Opioids; Antinociception; Neuropathic pain; (Rat) (Bonney, I.M. (488) 91)

Mast cell; Neurogenic inflammation; Allergy; Exocytosis (Karimi, K. (489) 49)

Dermatitis; Animal model; Scratching behaviour; NC/Nga (mouse) (Ohmura, T. (491) 191)

Interstitial cell of Cajal; Pacemaker current; Neurokinin receptor1; Small intestine (Jun, J.Y. (495) 35)

Myometrium; Tachykinin receptors; Neprilysin; Neurokinin A; Neurokinin B (Pennefather, J.N. (500) 15)

Substance P (neurokinin 1) receptor

Serotonin (5-HT) transporter; In vivo intracerebral microdialysis; Knock-out, mice (David, D.J. (492) 41)

β_{2c} Subunit

L-type Ca²⁺ channel; Single-channel analysis; Modal gating behavior (Kamada, Y. (487) 37)

α7 subunit

Nicotinic acetylcholine receptor; α7/5-HT3 chimera; HEK-293 cells; (Human) (Craig, P.J. (502) 31)

Suicide gene

Cancer gene therapy; Anti-oncogene; *p53* gene; DNA vaccine; Cytokine gene (El-Aneed, A. (498) 1)

Sumatriptan

5-HT_{1F}; Barostat; Proximal stomach; Retching (Janssen, P. (492) 259)

Hot-plate; Writhing test; Migraine-like model; Bradykinin; Rat (Ottani, A. (497) 181)

Superoxide

Glyceryl trinitrate; Tolerance, ex vivo; Aldehyde dehydrogenase; Nitric oxide synthase (de la Lande, I.S. (496) 141)

Superoxide anion

Celecoxib; Cyclooxygenase-2; Respiratory burst; Neutrophil; Protein kinase C (PKC); Ca²⁺ intracellular; Genistein (Chang-Hui, L. (484) 29)

Angiotensin II; Angiotensin AT_{1A} receptor; Angiotensin AT_{1B} receptor; Aorta; Heart (Rahman, M. (485) 243)

Inducible nitric oxide synthase; L-NIL (*N*-iminoethyl-L-lysine); L-arginine; Atherosclerosis; (Rabbit) (Simonet, S. (492) 211)

Superoxide dismutase

Artery; Diabetes; Liposome; Vasodilation (Voinea, M. (484) 111)

Haloperidol; Nicergoline; Glutathione reductase; Glutathione peroxidase (Vairetti, M. (505) 121)

SUR2B

K_{ATP} channel; Cell line, stable; Urinary bladder; [¹²⁵I]-A-312110; K⁺ channel opener (Scott, V.E. (483) 195)

Surgery

Adhesion; Chymase; Chymase inhibitor (Okamoto, Y. (484) 357)

Survival supporting activity

Neuronal PC12D cells; Nerve growth factor; Neurite regeneration; Phosphatidylinositol-3 kinase; Sargaquinoic acid (Tsang, C.K. (488) 11)

SW480

Allicin; Apoptosis; SiHa; HeLa; L-929; Garlic (Oommen, S. (485) 97)

Syk

Bone marrow-derived dendritic cell; Immune complex; Fcγ receptor; Antigen internalization; Antigen presentation (Nakashima, K. (505) 223)

Sympathetic activity

Failing human heart; Aging human heart; α-Adrenoceptor; β-Adrenoceptor; Muscarinic receptor (Brodde, O.-E. (500) 167)

Sympathetic innervation

Intrauterine stress; α -Adrenoceptor; β -Adrenoceptor; Renal artery; (Rat) (Sanders, M. (488) 147)

Sympathetic nervous system

Adrenoceptor antagonist; Spontaneously hypertensive rat (SHR) (Boesen, E.I. (486) 183)

Sympathetic neurotransmission

Co-transmission; ATP and purinergic mechanism; Noradrenaline and vasoconstriction; Neuropeptide Y modulation; Human vascular neuro-effector junction (Pablo Huidobro-Toro, J. (500) 27)

Sympathetic vascular tone

Thapsigargin; Saphenous vein, human; Thromboxane A_2 ; Endothelin; Verapamil (Fabi, F. (484) 277)

Sympathetic

Histamine H_3 receptor; Nasal mucosahuman; Taqman (Varty, L.M. (484) 83)

Synaptic plasticity

Diabetes mellitus; Long-term potentiation; Glutamate receptor (Trudeau, F. (490) 177)

Synchronization

Parkinson disease; Dystonia; Anti-epileptic drug (Bezard, E. (485) 159)

Synergism

GHB (γ -Hydroxybutyrate); Haloperidol; Dizocilpine; Catalepsy (Sevak, R.J. (483) 289)

Inflammatory pain; Cyclooxygenase; Ketorolac; Tramadol (López-Muñoz, F.J. (484) 157)

Dextromethorphan; Morphine; Mesenteric artery (Inan, S. (486) 61)

Formalin test; (Mouse); Rofecoxib; Aminoguanidine hydrochloride (Dudhgaonkar, S.P. (492) 117)

Noradrenaline; ATP; Vas deferens; PKC (Smith, N.C.E. (498) 241)

Synergistic interaction

Platelet-activating factor; Vasopressin; Experimental angina; Pathogenesis of myocardial ischaemia (Nemcsik, J. (498) 195)

Synergy

GABA $_A$ receptor complex; TBOB; Neuroactive steroid; Retigabine; Isobole method; Molecular model (van Rijn, C.M. (485) 43)

Baclofen; L-NAME (Rawls, S.M. (502) 271)

T-0156

Sildenafil; Phosphodiesterase type 5 inhibitor; Phosphodiesterase type 6; Penile tumescence; Electroretinogram (Mochida, H. (485) 283)

Tachykinin

Gastric acid secretion; Vanilloid VR1 receptor; CGRP (Calcitonin gene-related peptide); Glutamate; Central injection; (Rat) (Minowa, S. (486) 317)

Tachykinin NK $_1$ receptor

Cough; CP-99994; (Dog) (Chapman, R.W. (485) 329)

Tachykinin NK $_1$ receptor antagonist

GR205171; Immobilisation stress; Cortex; Dopamine metabolism; Tachykinin NK $_1$ receptor occupancy; [125 I]Tyrosine–substance P ex vivo binding (Hutson, P.H. (484) 57)

Tachykinin NK $_1$ receptor occupancy

Tachykinin NK $_1$ receptor antagonist; GR205171; Immobilisation stress; Cortex; Dopamine metabolism; [125 I]Tyrosine–substance P ex vivo binding (Hutson, P.H. (484) 57)

Tachykinin NK $_3$ receptor

Arterial hypertension; Central autonomic regulation; Catecholamine; Vasopressin (Lessard, A. (486) 75)

Tachykinin receptors

Tachykinins; mRNA expression; Peripheral airways; (Human) (Pinto, F.M. (494) 233)

Myometrium; Neprilysin; Neurokinin A; Neurokinin B; Substance P (Pennefather, J.N. (500) 15)

Tachykinins

Tachykinin receptors; mRNA expression; Peripheral airways; (Human) (Pinto, F.M. (494) 233)

Tachyphylaxis

Vascular smooth muscle; Phospholipase C-beta; Phosphatidylinositol; Phosphorylation (Filtz, Th.M. (502) 11)

Tadalafil

Phosphodiesterase 5; HERG channel; Potassium channel; Sildenafil; Vardenafil (Dustan Sarazan, R. (502) 163)

Tail artery

Prejunctional adenosine receptor; Adenosine A_{2A} receptor; Adenosine A_{2B} receptor; Immunohistochemistry; Noradrenaline release; rat (Diniz, C. (504) 17)

Tail artery, rat

α_1 -Adrenoceptor subtype; α_1 -Adrenoceptor antagonist; B8805-033; Chloroethylclonidine; Noradrenaline; (Jähnichen, S. (488) 157)

Tail suspension test

Corticotropin-releasing factor (CRF); Depression; Forced swim test; R 121919; DMP 696; DMP 904; Antalarmin; (Mouse) (Nielsen, D.M. (499) 135)

Tail-flick

κ -Opioid receptor; Antagonist; JDTic; Antinociception; Diuresis (Carroll, I. (501) 111)

Tail-immersion

Antidepressant; Hot-plate; Fluoxetine; Neuropathic pain; Streptozotocin (Anjaneyulu, M. (497) 285)

TAK-044

Positive inotropic effect; (Rabbit); Endothelin receptor; Endothelin receptor antagonist; FR139317 (Yomogida, S.-i. (492) 217)

TAK-559

Peroxisome proliferator-activated receptor; Partial agonist; Dual agonist (Sakamoto, J. (495) 17)

TAK-802

Acetylcholinesterase inhibitor; Bladder; Micturition; (Rat); (Guinea pig) (Nagabukuro, H. (485) 299)

Acetylcholinesterase inhibitor; Urodynamics; (Guinea pig); Bladder (Nagabukuro, H. (494) 225)

Tamoxifen

Estrogen; Ovariectomy; Gene expression; K $^+$ channel; Ca $^{2+}$ channel; (Rat) (Tsang, S.Y. (483) 155)

Neuroprotection; Oxygen radical; Thiobarbituric acid reactive substance; Rat, neonatal (Feng, Y. (484) 65)

Tamsulosin

Intraurethral pressure; Arterial blood pressure (Ohtake, A. (497) 327)

Taqman

Histamine H₃ receptor; Nasal mucosahuman; Sympathetic (Varty, L.M. (484) 83)

Taste

Receptor; cAMP; MAPK; G protein, inhibitory (Ozeck, M. (489) 139)

Taste preference

Alcohol dependence; Alcohol abuse; Saccharin; HEP, rat (Terenina-Rigaldie, F. (504) 199)

Tau

Insulin; Metabolism; Akt; GSK3 β (Glycogen synthase kinase 3 β); Ketogenic diet (Bondy, C.A. (490) 25)

Alzheimer's disease; Insulin; Insulin-like growth factor I; β Amyloid; Blood–brain barrier (Carro, E. (490) 127)

Taxol-resistant cell

Polyploidization; PMA; Apoptosis; bcl-2 (Zong, Z.-p. (489) 3)

TBOB

GABA_A receptor complex; Neuroactive steroid; Retigabine; Synergy; Isobole method; Molecular model (van Rijn, C.M. (485) 43)

Tea

Polyphenol; Wine; Chocolate; Vascular protection (Stoclet, J.-C. (500) 299)

Tea polyphenol

Green tea; Catechin; (–)-Epigallocatechin gallate; Gastrointestinal tract (Koo, M.W.L. (500) 177)

TENS

Hyperalgesia; Inflammation; Carrageenan; Opioid; Electrotherapy (Resende, M.A. (504) 217)

Temafloxacin

ATP-sensitive K⁺ channel; Insulin secretion; Fluoroquinolone; Levofloxacin; Gatifloxacin (Saraya, A. (497) 111)

Teprenone

Compound 48/80; Gastric mucosal lesionrat; Gastric mucus; Neutrophil infiltration; Oxidative stress (Ohta, Y. (487) 223)

Terfenadine

Apoptosis; Thymocyte; Mitochondria; Fexofenadine; Voltage-dependent K⁺ channel (Enomoto, R. (496) 11)

Z-338; Cisapride; hERG; CYP inhibition (Furuta, S. (497) 223)

Tetrapeptide

μ -Opioid receptor; Dermorphin; Naloxonazine; Antinociception; (mouse) (Mizoguchi, H. (486) 19)

Tetrodotoxin

Deltorphin II; Extracellular dopamine; Opioid receptor; Nucleus accumbens (Murakawa, K. (491) 31)

TGF- β 1 (targeting transforming growth factor- β 1)

Ribozyme; Smooth muscle cell, vascular; CTGF (connective tissue growth factor) (Ando, H. (483) 207)

Thalamus

MK-801; Schizophrenia; Proteomic; Acute; Subchronic (Paulson, L. (505) 103)

Thalidomide

TNF- α ; Arthritis; Neutrophil; Immune inflammation; Pentoxifylline (Bombini, G. (496) 197)

Thapsigargin

Saphenous vein, human; Sympathetic vascular tone; Thromboxane A₂; Endothelin; Verapamil (Fabi, F. (484) 277)

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Trifluoperazine; W-7 (Endoh, M. (500) 73)

Δ^9 -THC

Arthritis; Dynorphin A (Cox, M.L. (493) 65)

THC

Psychostimulants; Cross-sensitization; Locomotion; Microdialysis; (Rat) (Ellgren, M. (497) 205)

Therapeutic application

Adenosine; Adenosine uptake inhibitor (nucleoside transport inhibitor); Protective effect (Noji, T. (495) 1)

Thermal nociception

mGlu₅; MPEP; Serotonin; Dorsal raphe; Microdialysis (Palazzo, E. (492) 169)

Somatostatin; Analgesic effect; Formalin test; Writhing test; Diabetic neuropathy (Szolcsányi, J. (498) 103)

Thermogenesis

Oxygen consumption; Bupropion; Brown adipose tissue; Brown fat (Liu, Y.-L. (498) 219)

Thermoregulation

Hypothermia; Serotonin; In vivo; Knockout, mouse (Hedlund, P.B. (487) 125)

Thiobarbituric acid reactive substance

Tamoxifen; Neuroprotection; Oxygen radical; Rat, neonatal (Feng, Y. (484) 65)

Thioibotenic acid

Ibotenic acid; Glutamate receptor; mGlu receptor; Group III agonist; Docking; Homology model; Conformational energy (Hermit, M.B. (486) 241)

DL-threo- β -benzyloxyaspartate

Morphine dependence; Morphine withdrawal; Glutamate transporter; Conditioned place aversion; Conditioned place preference (Sekiya, Y. (485) 201)

Thrombolysis

FK419; Platelet glycoprotein IIb/IIIa; Stroke; (Guinea pig) (Moriguchi, A. (498) 179)

Thrombosis

Midazolam; Platelet aggregation; Phospholipase C; Cyclic AMP; Na⁺/H⁺ exchanger (Hsiao, G. (487) 159)

Thromboxane

Antiplatelet; Phosphodiesterase inhibitor; KW-7 (Wu, C.-C. (483) 187)

Thromboxane A₂

Thapsigargin; Saphenous vein, human; Sympathetic vascular tone; Endothelin; Verapamil (Fabi, F. (484) 277)

U46619; Prostanoid TP receptor; Uterus, pig; Contractilityspontaneous (Cao, J. (485) 317)

Disodium cromoglycate; Late asthmatic response; Cysteinyl leukotriene; Eosinophil; (Guinea pig) (Nabe, T. (497) 97)

Thromboxane A₂

Licofelone; Cyclooxygenase-lipoxygenase inhibitor; Platelet aggregation, human (Rotondo, S. (488) 79)

Thymidine phosphorylase

5'-Deoxyfluorouridine; Trifluorothymidine; Thymidine phosphorylase inhibitor (De Bruin, M. (491) 93)

Thymidine phosphorylase inhibitor

Thymidine phosphorylase; 5'-Deoxyfluorouridine; Trifluorothymidine (De Bruin, M. (491) 93)

Thymocyte

Terfenadine; Apoptosis; Mitochondria; Fexofenadine; Voltage-dependent K⁺ channel (Enomoto, R. (496) 11)

Thyroid hormone

Hypothyroidism; Thyroxine; Ovarian hormone; Gonadotropin; Estrous cycle (Hatsuta, M. (486) 343)

Thyroxine

Hypothyroidism; Thyroid hormone; Ovarian hormone; Gonadotropin; Estrous cycle (Hatsuta, M. (486) 343)

Ticlopidine

Aspirin; Clopidogrel; Platelet; Nitric oxide (NO); Platelet–subendothelium interaction. (De La Cruz, J.P. (484) 19)

Time-domain analysis

Ethanol; Rilmenidine; α -Methyl dopa; Hypotension; Hemodynamic variability (El-Mas, M.M. (485) 251)

Tissue, bovine

Vasopressin receptor; Comparative pharmacology (Andrés, M. (501) 59)

Tissue concentration

4-Butyl- α -agarofuran (AF-5); Anxiety; Monoamine neurotransmitter; Behavior; Microdialysis (Zhang, Y. (504) 39)

Titanocene

Cytokine; Ehrlich ascites (Valadares, M.C. (503) 203)

TNBS

Inflammatory bowel disease; Tumour necrosis factor- α ; Interferon- γ ; Interleukin-10; Myeloperoxidase (Stasi, M.A. (494) 263)

Neutrophil; CC chemokine; Colitis; Inflammation (Ajuebor, M.N. (497) 343)

TNF α

Gap junction; Connexin; Cardiomyocyte, rat; MAP-kinase (Salameh, A. (503) 9)

TNF- α

Bradykinin B₁ and B₂ receptors; Chronic airway inflammation; Airway hyperresponsiveness; MAPK pathway (Zhang, Y. (489) 117)

Arthritis; Neutrophil; Immune inflammation; Pentoxifylline; Thalidomide (Bombini, G. (496) 197)

Monocyte; Adenosine; mRNA stability; p38 (Fotheringham, J.A. (497) 87)

NSAID; Prostaglandin E₂; Cyclooxygenase; Glucocorticoid; Monocyte (Ulcár, R. (501) 9)

Echinacoside; Apoptosis; Mitochondrial membrane potential; Reactive oxygen species; Caspase-3 (Deng, M. (505) 11)

TNF- α (tumor necrosis factor- α)

Nitroparacetamol; Nitroflurbiprofen; Interleukin-1 β ; Lipopolysaccharide; Blood (Marshall, M. (483) 317)

Methylguanidine; Carrageenan-induced inflammation; Reactive oxygen specie; iNOS (nitric oxide (NO) synthase, inducible); Cyclooxygenase-2 (Marzocco, S. (484) 341)

Tolerance

Morphine; Antinociception; Sex; Estrous cycle (Shekunova, E.V. (486) 259)

Cannabinoid; Kinase; Antinociception (Bass, C.E. (496) 99)

PF9404C; NO donor; Vascular selectivity (Ruiz-Nuño, A. (498) 203)

Opioid; Metamizol; Antinociception; Potentiation; Cross-tolerance (Hernández-Delgadillo, G.P. (502) 67)

Tolerance ex vivo

Aortarat; Endothelium; Glyceryl trinitrate metabolism; Glyceryl dinitrate; Artery relaxation; NO (nitric oxide) synthase inhibition (de la Lande, I.S. (486) 201)

Tolerance, ex vivo

Glyceryl trinitrate; Aldehyde dehydrogenase; Superoxide; Nitric oxide synthase (de la Lande, I.S. (496) 141)

Tonic current

GABA_A receptor; Benzodiazepine; Barbiturate; Inhibition; γ -aminobutyric acid; Spontaneous activity; Channel block (Lindquist, C.E.L. (496) 23)

Toosendanin

Neonatal rat ventricular cell; L-type Ca²⁺ channel; Whole-cell patch-clamp; Agonist (Li, M.-F. (501) 71)

Torsade de Pointes

Alternans; HERG; QT prolongation; Arrhythmia (Fossa, A.A. (486) 209)

Torsades de pointes

Fluoroquinolone; Monophasic action potential; QT interval; Atrioventricular block; α_1 -Adrenoceptor stimulation (Chiba, K. (486) 189)

Torsades de Pointes

Long QT syndrome; Iatrogenic disease; HERG protein; Drug discovery; High-throughput screening (Finlayson, K. (500) 129)

Toxicity

Cocaine; Convulsion; Lethality; σ Receptor (Matsumoto, R.R. (492) 21)

TPMPA

Hippocampus; mIPSC; GABA -receptor; Rho subunit; CACA (Hartmann, K. (497) 139)

Trachea

Histamine sensitisation; Pertussis toxin; Small mesenteric resistance arteries; (Rat); (Mouse) (van Meijeren, C.E. (488) 127)

Trachea, guinea-pig

Anococcygeus musclerate (Ismailoglu, U.B. (487) 233)

Tracheal smooth muscle

NSU-242; Relaxation; Myosin phosphorylation; Actin assembly (Ozaki, H. (488) 191)

Traffick

Quinpirole; Vesicle; NGB2904; Eticlopride; Clozapine (Truong, J.G. (504) 27)

Trafficking, agonist-directed

δ -Opioid receptor; Down-regulation (Navratilova, E. (485) 341)

Tramadol

Inflammatory pain; Cyclooxygenase; Ketorolac; Synergism (López-Muñoz, F.J. (484) 157)

Morphine; Naloxone; Antidepressant drug; Discrimination (Filip, M. (498) 143)

α_1 -Adrenoceptors; Dopamine D2 and D3 receptors; BDNF; TrkB; Brain, rat (Faron-Górecka, A. (501) 103)

Tranilast

Gingival fibroblast; bFGF; Proliferation (Hattori, T. (498) 79)

Transcription

EGCG ((-)-epigallocatechin-3-gallate); uPA (urokinase-type plasminogen activator); Erk-1/2; P38 MAPK; mRNA stability (Kim, M.H. (487) 1)

Transcription factor

iNOS (inducible nitric oxide synthase); Expression; Signal transduction; Pathway; Promoter; mRNA stability; RNA binding; Protein (Kleinert, H. (500) 255)

Opioid addiction; Opioid peptide; Opioid receptor; Gene expression (Przewlocki, R. (500) 331)

Transforming growth factor- β

Chymase inhibitor; Fibrosis; Lung (Sakaguchi, M. (493) 173)

Angiotensin II; Chymase; Inhibitor (Takai, S. (501) 1)

Transgenic

Serotonin; Dopamine; Psychostimulant; Antidepressant; Antipsychotic; Food intake; Obesity (Giorgetti, M. (488) 1)

Transgenic animal model

Glucagon like peptide 1; Dipeptidyl peptidase IV; Diabetes (Rolin, B. (494) 283)

Transient expression

5-hs_A Receptor; Guinea pig; Cloning (Thomas, D.R. (494) 91)

Transmitter release

Nicotine; Nonsynaptic; Two-photon imaging; Ca²⁺ (Sylvester Vizi, E. (500) 499)

Transport

Organic anion transporter; Skeletal muscle; HMG-CoA reductase; Rhabdomyolysis (Takeda, M. (483) 133)

Insulin; Central nervous system; Blood-brain barrier; Leptin; Diabetes mellitus; Lipopolysaccharide (Banks, W.A. (490) 5)

Antiarrhythmic drug; Organic cation transporter; Quinidine; Lidocaine (Hasannejad, H. (499) 45)

Transporter

Anandamide; Uptake; Cannabinoid; Cannabinoid receptor; Multiple sclerosis (de Lago, E. (484) 249)

Adenosine; Dipyridamole; Draflazine; Nitrobenzylthioinosine (Hammond, J.R. (491) 9)

GABA; Epilepsy; Betaine transporter; Astrocyte; *exo*-THPO; Neuron; Astroglia; Anticonvulsant; Seizure (Schousboe, A. (500) 281)

Serotonin; cGMP; PKG; Sildenafil; PDE5 (Zhu, C.-B. (504) 1)

Transporter and Neurotransmitter release

Spider; Wasp; Neurotoxin; Ion channel; Receptor (Beleboni, R.d.O. (493) 1)

Triazolam

MK-801; Phencyclidine (Shannon, H.E. (498) 125)

Tricyclic

Depression; Antidepressant; Monoamine; Neurogenesis; SSRI; Dopamine (Millan, M.J. (500) 371)

Tricyclic antidepressant

K⁺ channels; Antinociception; G-protein-coupled receptor; Opioid; Non-steroidal Anti-inflammatory drugs (Ocaña, M. (500) 203)

Trifluoperazine

Morphine; Conditioned place preference; Calmodulin (Ye, X.-F. (486) 265)

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force-frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺-Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Thapsigargin; W-7 (Endoh, M. (500) 73)

Trifluorothymidine

Thymidine phosphorylase; 5'-Deoxyfluorouridine; Thymidine phosphorylase inhibitor (De Bruin, M. (491) 93)

Trigeminovascular system

Migraine; Nitric oxide; Middle meningeal artery; Laser Doppler (Peitl, B. (497) 293)

Trilinolein

Angiotensin II; Cardiomyocyte hypertrophy; Reactive oxygen species; MAP (mitogen-activated protein) kinase; β -myosin heavy chain (Liu, J.-C. (484) 1)

Trimetazidine

Ischemia; Mitochondrion; Perfusion; Glucose (Monteiro, P. (503) 123)

Arrhythmias; Carbachol; Infarct size; Preconditioning (Kara, A.F. (503) 135)

Triptolide

NO (Nitric oxide); iNOS; NF- κ B; JNK (Kim, Y.-H. (494) 1)

TrkB

Tramadol; α_1 -Adrenoceptors; Dopamine D2 and D3 receptors; BDNF; Brain, rat (Faron-Górecka, A. (501) 103)

Tropicamide

Prepulse inhibition; Scopolamine; AF-DX116; 4-DAMP; Pirenzepine; Muscarinic receptor; (Mouse) (Ukai, M. (492) 183)

Tropisetron

S-(+)-ketoprofen; Antinociception; Methiothepin; 5-HT receptor antagonist (Diaz-Reval, M.I. (483) 241)

TRPV1

Vanilloid; Hyperalgesia (Holzer, P. (500) 231)

Tryptophan

Insulin; (Mouse); HPLC; β -Adrenoceptor (Lenard, N.R. (497) 105)

Tryptophan depletion

Serotonin; Haloperidol; (Rat); Schizophrenia; MK-801 (Bubeníková, V. (502) 109)

Tubulin

Dehydroepiandrosterone; Dehydroepiandrosterone sulphate; Angiogenesis; Endothelial cell; Glucose-6-phosphate dehydrogenase (Varet, J. (502) 21)

Tumor cells

Avermectins; Calcein; Multidrug resistance; Rhodamine 123 (Korystov, Y.N. (493) 57)

Tumor growth

Avermectin; (Mouse) (Drinyaev, V.A. (501) 19)

Tumor necrosis factor- α

Hepatic ischemia–reperfusion; Polymorphonuclear leukocyte; Rho kinase inhibitor; Interleukin-6 (Kawaguchi, A. (493) 167)

Inflammatory bowel disease; TNBS; Interferon- γ ; Interleukin-10; Myeloperoxidase (Stasi, M.A. (494) 263)

Eotaxin; Lung granuloma; Nuclear factor- κ B; Sephadex bead; Vitamin A (Torii, A. (497) 335)

Human monocyte; Nuclear factor- κ B; Rofecoxib; Indomethacin; Dexamethasone (Lavagno, L. (501) 199)

Tumour

Dehydrocrotinin; Cytotoxicity; Natural killer cell; Anti-tumour (Melo, P.S. (487) 47)

Twitch contraction

Ryanodine; Oesophageal striated muscle; Sarcoplasmic reticulum; (SHRSP) stroke-prone spontaneously hypertensive rat (Sekiguchi, F. (486) 91)

Two-electrode voltage clamp

GABA_A receptor; Noncompetitive; Ginkgolide; Picrotoxinin; *Xenopus* oocyte (Huang, S.H. (494) 131)

Two-photon imaging

Nicotine; Nonsynaptic; Transmitter release; Ca²⁺ (Sylvester Vizi, E. (500) 499)

Type 1 and type 2 diabetes

CNS complication; Insulin; C-peptide; Hyperglycemia (Sima, A.A.F. (490) 187)

Type 1 diabetes

Diabetic encephalopathy; Cognition; Insulin; Cerebrovascular alteration; Hypoglycaemia (Brands, A.M.A. (490) 159)

Type 2 diabetes

Simvastatin; Fenofibrate; Oxidative stress; Endothelial function (Škrha, J. (493) 183)

Phosphodiesterase; Milrinone; Glucagon-like peptide-1; Insulin secretion (Degerman, E. (498) 319)

Tyrosine hydroxylase

Agmatine; Morphine; Dependence; Withdrawal; cAMP (Aricioglul, F. (504) 191)

Tyrosine kinase

Serum-deprivation; Free radical scavenger; Endothelial dysfunction; Bradykinin; p38 MAP kinase (Maeda, Y. (491) 53)

Tyrosine phosphorylation

Acidosis; Voltage-dependent calcium channel; Phosphatidylinositol 3 kinase; Spontaneously hypertensive; Aorta (Rohra, D.K. (504) 105)

U46619

Prostanoid TP receptor; Uteruspig; Thromboxane A₂; Contractilityspontaneous (Cao, J. (485) 317)

U-50,488H

Neuropathic pain; Contralateral treatment; κ -Opioid receptor agonist; Opioid receptor; (Rat) (Bileviciute-Ljungar, I. (494) 139)

Neonatal rat ventricular myocyte; Protein content; [³H]Leucine; Cell size; Adrenoceptor (Wang, G. (498) 53)

Ulcer

Adrenomedullin; Gastroprotection; Hepatocyte growth factor; Receptor (Martinez, G. (488) 219)

Ultra-fast application

Glycine receptor channel; Pentobarbital; Channel block; Patch-clamp (Mohammadi, B. (489) 151)

Uncoupling

Pain; Development; Morphine; Analgesia; Neuron (Liu, J.-G. (491) 127)

uPA (urokinase-type plasminogen activator)

EGCG ((-)-epigallocatechin-3-gallate); Erk-1/2; P38 MAPK; Transcription; mRNA stability (Kim, M.H. (487) 1)

Up-regulation

Constitutive activity; Inverse agonist; Receptor theory; Serotonin receptor (Devlin, M.G. (498) 59)

μ -Opioid receptor; Down-regulation; Intermittent and continuous dosing (Yoburn, B.C. (498) 87)

Uptake

Anandamide; Transporter; Cannabinoid; Cannabinoid receptor; Multiple sclerosis (de Lago, E. (484) 249)

Urantide

Urotensin-II; UT receptor; Ca²⁺; CHO cell; Aorta, rat (Camarda, V. (498) 83)

Uridine 5'-triphosphate

α , β -Methyleneadenosine 5'-triphosphate; P2Y₄ receptor; Basilar artery; Ectonucleotidase; Smooth muscle (Miyagi, Y. (488) 117)

Amlodipine; Proliferation; Epidermoid carcinoma A431 cell, human; Intracellular Ca^{2+} ; A431 xenograft (Yoshida, J. (492) 103)

Urinary bladder

K_{ATP} channel; SUR2B; Cell linestable; [^{125}I]-A-312110; K^{+} channel opener (Scott, V.E. (483) 195)

Nitric oxide; K_{ATP} ; c-GMP; PKG (Deka, D.K. (492) 13)

Solifenacin; Salivary gland; Bladder selectivity (Ohtake, A. (492) 243)

Coaxial bioassay; Relaxation; (Rat) (Bozkurt, T.E. (495) 193)

Urocortin

Nickel; Relaxation; Pulmonary artery (Lau, C.-W. (488) 169)

Kidney; Reperfusion-injury; Renal dysfunction (Patel, N.S.A. (496) 175)

Urodilatin

Opioids; Enkephalin analogue cUENK6; Naloxonazine; Diuresis; Natriuresis; Blood pressure; Natriuretic peptides; Vasopressin (Gutkowska, J. (496) 167)

Urodynamics

TAK-802; Acetylcholinesterase inhibitor; (Guinea pig); Bladder (Nagabukuro, H. (494) 225)

Urotensin-II

UT receptor; GPR14; SB-710411; Somatostatin (Behm, D.J. (492) 113)

UT receptor; GPR14; *c-fos* (Gartlon, J.E. (493) 95)

Urantide; UT receptor; Ca^{2+} ; CHO cell; Aorta, rat (Camarda, V. (498) 83)

Ursodeoxycholic acid

Human endothelial cell; Endothelin-1; Nitric oxide; Real-time RT-PCR (Ma, J. (505) 67)

UT receptor

Urotensin-II; GPR14; SB-710411; Somatostatin (Behm, D.J. (492) 113)

Urotensin-II; GPR14; *c-fos* (Gartlon, J.E. (493) 95)

Urotensin-II; Urantide; Ca^{2+} ; CHO cell; Aorta, rat (Camarda, V. (498) 83)

Uterus, pig

U46619; Prostanoid TP receptor; Thromboxane A_2 ; Contractility spontaneous (Cao, J. (485) 317)

Vagus

Glucose; Insulin; Glucose transporter; Memory; Attention; Aging; Diabetes; Glucose tolerance (Messier, C. (490) 33)

Prostanoid; Prostaglandin; DP receptor; 5-HT $_3$ receptor; Depolarization; Neurone; Nervous; (Ferret) (Kan, K.K.W. (491) 37)

Stomach; Enteric nervous system; Brainstem; Gastrin; Ghrelin; Leptin (Konturek, P.C. (499) 15)

Valproate

Epilepsy; Carbenoxolone; Gap junction; Antiepileptic drug; Carbamazepine; Phenytoin; Felbamate; Anticonvulsant potency; Audiogenic seizure; DBA/2, mouse (Gareri, P. (484) 49)

Vanilloid

TRPV1; Hyperalgesia (Holzer, P. (500) 231)

Vanilloid receptor

Methocytamine; Channel block; Dorsal root ganglion; Patch-clamp; Polyamine (Mellor, I.R. (505) 37)

Vanilloid receptor 1

Bradykinin; Cyclooxygenase; Phospholipase A_2 ; Phospholipase C (Tang, H.-B. (498) 37)

Vanilloid VR1 receptor

Yohimbine; Na^{+} channel; Dorsal root ganglion; Action potential; Firing activity (Dessaint, J. (485) 11)

Gastric acid secretion; Tachykinin; CGRP (Calcitonin gene-related peptide); Glutamate; Central injection; (Rat) (Minowa, S. (486) 317)

Vanilloid VR1 receptors

Cannabidiol; Anandamide; Blood pressure; Ventilation (McQueen, D.S. (491) 181)

Vardenafil

Phosphodiesterase 5; HERG channel; Potassium channel; Sildenafil; Tadalafil (Dustan Sarazan, R. (502) 163)

Vas deferens

Noradrenaline; ATP; Synergism; PKC (Smith, N.C.E. (498) 241)

Purinergic neurotransmission; Galantamine (Caricati-Neto, A. (503) 191)

Vas deferens, Mouse

Opioid receptor; μ -Opioid receptor agonist; 14-*O*-methyloxymorphone; Binding affinity; (Spetea, M. (483) 301)

Vascular

Remodeling; Capsaicin; Hypertension; Salt; Heart (Zeng, Z.-h. (503) 129)

Vascular endothelium

Atypical cannabinoid receptor; Cell migration (Mo, F.M. (489) 21)

Vascular permeability

Intestinal ischemia/reperfusion; Lung inflammation; Neutrophil accumulation; Adult respiratory distress syndrome; NO(Nitric oxide) (Cavriani, G. (494) 241)

VEGF (Vascular endothelial cell growth factor); Diabetic retinopathy; Calcium dobesilate; Advanced glycation end product; Antioxidant (Rota, R. (495) 217)

Vascular protection

Polyphenol; Wine; Tea; Chocolate (Stoclet, J.-C. (500) 299)

Vascular reactivity

(Rat); Portal vein; Hyperthermia; Acidosis; Norepinephrine; Angiotensin (Pastor, C.M. (494) 191)

Atorvastatin; Nitric oxide; Phosphodiesterase-5 inhibitor; Sildenafil; Statins (Castro, M.M. (498) 189)

α -Vascular reactivity

Dietary Ca; Amlodipine; Arterial blood pressure (Civantos, B. (489) 101)

Vascular relaxation

Receptor subtype; Cholinergic agonist; SIN-1; ATP (Khurana, S. (493) 127)

Vascular selectivity

PF9404C; NO donor; Tolerance (Ruiz-Nuño, A. (498) 203)

Vascular smooth muscle

Hydroxyl radical; Aortic ring; Contraction; Signal transduction pathway (Li, J. (499) 171)

Phospholipase C-beta; Phosphatidylinositol; Tachyphylaxis; Phosphorylation (Filtz, Th.M. (502) 11)

Basal entry; Calcium (Poburko, D. (505) 19)

Vascular smooth muscle cell

Ferulic acid; Proliferation; Mitogen-activated protein kinase; Cell cycle regulatory protein; Angiotensin II (Hou, Y.-Z. (499) 85)

Vascular tone

α_{1D} -Adrenoceptor; Receptor phosphorylation; Hypertension (García-Sáinz, J.A. (500) 113)

Vasoconstriction

Cardiovascular disease; Coronary artery; Endothelin; Gene expression; Endothelin receptor (Wackenfors, A. (484) 103)

Capacitance; Mean circulatory filling pressure; Noradrenaline (Cheng, X. (484) 263)

EDHF (endothelium-derived hyperpolarizing factor); Gender; NO (Nitric oxide); Vasodilatation (Wangenstein, R. (486) 281)

Human umbilical vein; Isoprostane; Prostanoid TP receptor (Daray, F.M. (499) 189)

Cardiovascular disease; Coronary artery; Angiotensin II; Gene expression; Receptor (Wackenfors, A. (503) 147)

Vasoconstrictor prostanoid

Endothelial dysfunction; Coronary vasoconstriction; Coronary vasodilatation (Diéguez, G. (495) 171)

Vasodilatation

EDHF (endothelium-derived hyperpolarizing factor); Gender; NO (Nitric oxide); Vasoconstriction (Wangenstein, R. (486) 281)

Vasodilation

Artery; Diabetes; Liposome; Superoxide dismutase (Voinea, M. (484) 111)

Adrenomedullin2; Renal hemodynamics; diuresis; Natriuresis (Fujisawa, Y. (497) 75)

Vasopeptidase inhibition

Zucker diabetic fatty rat; Diabetic vasculopathy (Schäfer, S. (484) 361)
Myocardial fibrosis; VIP (Vasopeptidase Intestinal Peptide); Angiotensin converting enzyme; Neutral endopeptidase; Cardiac failure (Ye, V.Z.C. (485) 235)

Vasopressin

Interleukin-1; Prostaglandin; Inflammation (Sigal, F.-B. (485) 53)

Tachykinin NK₃ receptor; Arterial hypertension; Central autonomic regulation; Catecholamine (Lessard, A. (486) 75)

Opioids; Enkephalin analogue cUENK6; Naloxonazine; Diuresis; Natriuresis; Blood pressure; Natriuretic peptides; Urodilatin (Gutkowska, J. (496) 167)

Platelet-activating factor; Experimental angina; Synergistic interaction; Pathogenesis of myocardial ischaemia (Nemcsik, J. (498) 195)

Adrenal medulla; Brain; Diacylglycerol lipase; Phospholipase C (Shimizu, T. (499) 99)

Vasopressin receptor

Tissue, bovine; Comparative pharmacology (Andrés, M. (501) 59)

Vasorelaxation

Mesaconitine; Endothelial cell; Na⁺/Ca²⁺ exchanger; Na⁺ channel (Ogura, J. (483) 139)

Anandamide; 17 β -Oestradiol; Sex difference; (Sprague–Dawley rat) (Peroni, R.N. (493) 151)

Mildronate; γ -butyrobetaine; γ -butyrobetaine ester; NO (Nitric oxide); Nitric oxide synthase (Sjakste, N. (495) 67)

Anandamide; Vehicle; aorta (López-Miranda, V. (505) 151)

VCAM-1

Benidipine; Antioxidant; Endothelium; Atherosclerosis (Matsubara, M. (498) 303)

Vecuronium

Carotid body; Nicotine; Atracurium; Acetylcholine receptor; Anesthetic (Jonsson, M. (497) 173)

VEGF

SU5416; Gemcitabine; Pancreas cancer cell; Endothelial cell; Angiogenesis (Bocci, G. (498) 9)

Cyclooxygenase-2; Celecoxib; Prostaglandin E₂; Diabetic retinopathy (Ayalasomayajula, S.P. (498) 275)

Z24; Bcl-2; Antitumor; Antiangiogenesis; bFGF (Wang, L.-l. (502) 1)

VEGF (Vascular endothelial cell growth factor)

Diabetic retinopathy; Calcium dobesilate; Advanced glycation end product; Antioxidant; Vascular permeability (Rota, R. (495) 217)

VEGF (vascular endothelial growth factor)

Catechin; Eggigallocatechin-3 gallate; Endothelial cell; Cell proliferation (Neuhaus, T. (483) 223)

Angiogenesis; bFGF (basic fibroblast growth factor); Dexamethasone; Gastric ulcer; Prostaglandin E₂ (Luo, J.C. (485) 275)

VEGF expression

NSAID; Rofecoxib; Ibuprofen; bFGF expression; Apoptosis; Proliferation (Sánchez-Fidalgo, S. (505) 187)

Vehicle

Anandamide; Vasorelaxation; aorta (López-Miranda, V. (505) 151)

Ventilation

Cannabidiol; Anandamide; Vanilloid VR1 receptors; Blood pressure (McQueen, D.S. (491) 181)

Ventral tegmental area

Nicotine; Dopamine release; Dopamine autoreceptor; Nucleus accumbens; In vivo microdialysis (Rahman, S. (494) 31)

Nucleus accumbens; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid (Yang, S.-C. (494) 179)

Ventrolateral

Attention-deficit hyperactivity disorder; Spontaneous behaviour; Repetitive jaw movement; Striatum; Dopamine D1-like/D2-like receptor; Acetylcholine receptor; Spontaneously hypertensive rat (SHR) (Fujita, S. (484) 75)

Verapamil

Thapsigargin; Saphenous vein, human; Sympathetic vascular tone; Thromboxane A₂; Endothelin (Fabi, F. (484) 277)

Ischemic–reperfusion injury; Acute renal failure; Mibefradil; Isolated, guinea pig (Grašič Kuhar, C. (488) 137)

(Guinea-pig); (Rabbit); Dideoxyforskolin; Anthracene-9-carboxylic acid; Stilbene disulphonate (Shuba, L.M. (491) 111)

Vesicle

Quinpirole; NGB2904; Eticlopride; Clozapine; Traffick (Truong, J.G. (504) 27)

Vesicular monoamine transporter

Apomorphine; Eticlopride; Redistribution; Neurodegeneration (Truong, J.G. (492) 143)

Vilazodone

5-HT_{1A}; Anxiety; Predator stress; SSRI (Adamec, R. (504) 65)

VIP (vasoactive intestinal peptide) derivative

Binding activity; Chemical synthesis; CD (Circular dichroism); Helical structure; Relaxant activity (Onoue, S. (485) 307)

VIP (Vasopeptidase Intestinal Peptide)

Myocardial fibrosis; Vasopeptidase inhibition; Angiotensin converting enzyme; Neutral endopeptidase; Cardiac failure (Ye, V.Z.C. (485) 235)

Viscera

Capsaicin; Primary sensory neuron; Brain; Pain; Inflammation (Nagy, I. (500) 351)

Visceral pain

Colorectal distension; Anti-nociception; 5-HT_{1A} receptor; Buspirone (Sivarao, D.V. (494) 23)

Clonidine; Guanfacine; Benazoline; Formalin; Imidazoline receptor (Sabetkasaie, M. (501) 95)

Visceral smooth muscle

Capsaicin; Sensory neurotransmitter; Gastrointestinal tract; Bronchial smooth muscle; Genitourinary tract (Barthó, L. (500) 143)

Vitamin A

Eotaxin; Lung granuloma; Nuclear factor- κ B; Sephadex bead; Tumor necrosis factor- α (Torii, A. (497) 335)

Vitamin B₂

I.v. infusion; Proinflammatory cytokine; Nitric oxide (Toyosawa, T. (492) 273)

Amino acid; Mortality; Macrophages; Sepsis (Toyosawa, T. (493) 177)

Voltage-dependent Ca²⁺ channel

Rapid estrogen effect; Intestinal smooth muscle; K⁺ channel; Spontaneous activity (Díaz, M. (501) 161)

Voltage-dependent calcium channel

Acidosis; Tyrosine phosphorylation; Phosphatidylinositol 3 kinase; Spontaneously hypertensive, rat; Aorta (Rohra, D.K. (504) 105)

Voltage-dependent K⁺ channel

Terfenadine; Apoptosis; Thymocyte; Mitochondria; Fexofenadine (Enomoto, R. (496) 11)

Volume-sensitive anion channel

DCPIB; K_{ATP} channel; Islet; Pancreatic β -cell; Insulin release (Best, L. (489) 13)

W-7

Bay K 8644; Ca²⁺ transient; Intracellular Ca²⁺ concentration; Cyclopiazonic acid; Force–frequency relationship (FFR); Forskolin; Gingerol; Intracellular Na⁺ concentration; L-type Ca²⁺ channel; Na⁺–Ca²⁺ exchanger; Ryanodine channel; SERCA2a; Thapsigargin; Trifluoperazine (Endoh, M. (500) 73)

Wasp

Spider; Neurotoxin; Ion channel; Receptor; Transporter and Neurotransmitter release (Beleboni, R.d.O. (493) 1)

Weight gain

Antipsychotic; (Rat) (Kirk, S.L. (505) 253)

Western-type diet

Orlistat; Fat absorption; Atherosclerosis (Ueshima, K. (501) 137)

Whole-cell patch-clamp

Toosendanin; Neonatal rat ventricular cell; L-type Ca²⁺ channel; Agonist (Li, M.-F. (501) 71)

WIN 35,428

Satiety threshold; Pharmacokinetics; Pharmacodynamics; Cocaine (Norman, A.B. (483) 281)

WIN 55,212-2

Alcohol intake; Baclofen; Morphine; Sardinian alcohol-preferring (sP), rat (Colombo, G. (492) 189)

WIN55212

Cannabidiol; Abnormal-cannabidiol; Cannabinoid CB₁ receptor; Novel cannabinoid receptor antagonist; Mouse vas deferens (Thomas, A. (487) 213)

Wine

Polyphenol; Tea; Chocolate; Vascular protection (Stoclet, J.-C. (500) 299)

Withdrawal

Cocaine; Ondansetron; Self-administration (Davidson, C. (503) 99)

Agmatine; Morphine; Dependence; cAMP; Tyrosine hydroxylase (Aricioglu, F. (504) 191)

Wogonin

Neuroprotection; Cortical neuron; Antioxidant; Excitotoxicity; Oxidative damage (Cho, J. (485) 105)

Oxygen and glucose deprivation; Hippocampal slice culture; Neuroprotection (Son, D. (493) 99)

Writhing

5-HT₃ receptor; 5-HT (5-hydroxytryptamine, serotonin); 2-Methylserotonin; Pain; Sensitization (Giordano, J. (483) 267)

Nefopam; Histamine; Nociception; Formalin (Girard, Ph. (503) 63)

Writhing test

Hot-plate; Migraine-like model; Bradykinin; Rat; Sumatriptan (Ottani, A. (497) 181)

Somatostatin; Analgesic effect; Formalin test; Thermal nociception; Diabetic neuropathy (Szolcsányi, J. (498) 103)

***Xenopus* oocyte**

P2X receptor; ATP; Site-directed mutagenesis; Membrane current (Nakazawa, K. (483) 29)

GABA_A receptor; Noncompetitive; Ginkgolide; Picrotoxinin; Two-electrode voltage clamp (Huang, S.H. (494) 131)

Y-26763

K_{ATP} channel; Insulin secretion; Human β -cell; NES2Y (Cosgrove, K.E. (486) 133)

Y-27632

Smooth muscle; Airway; MAP (mitogen-activated protein) kinase; Phosphatidylinositol 3-kinase; PDGF (platelet-derived growth factor) (Gosens, R. (483) 71)

Endothelin-1; Mesenteric artery; Rho-kinase; Saponin (Büyükaşar, K. (485) 263)

Endothelin-1; Lipopolysaccharide; Mesenteric artery; Nitric oxide; Rho-kinase (Büyükaşar, K. (498) 211)

Y-40138

Methotrexate; Combination therapy; Adjuvant-induced arthritis; Joint destruction (Hisadome, M. (497) 351)

Yeast phenotypic assay

Protein kinase C; Isoform; Phorbol ester (Saraiva, L. (491) 101)

YM598

Antagonist; Endothelin ET_A receptor; Nociception; Prostate cancer (Yuyama, H. (492) 177)

Atrasentan; Bosentan; Antagonist; Endothelin receptor (Yuyama, H. (498) 171)

YM928

Epilepsy; Anticonvulsant; Kindling; AMPA receptor antagonist (Yamashita, H. (494) 147)

Yohimbine

Na⁺ channel; Vanilloid VR1 receptor; Dorsal root ganglion; Action potential; Firing activity (Dessaint, J. (485) 11)

Dipyrene; Antinociception; Serotonin; Methysergide; Pyrazoline (Godoy, M.C.M. (496) 93)

Z24

Bcl-2; Antitumor; Antiangiogenesis; VEGF; bFGF (Wang, L.-l. (502) 1)

Z-338

Terfenadine; Cisapride; hERG; CYP inhibition (Furuta, S. (497) 223)

Gastrokinetic agent; Muscarinic receptor (Doi, Y. (505) 31)

Zinc

BDNF; Cortex; Hippocampus (Nowak, G. (492) 57)

N-Methyl-D-aspartate receptor; Amino terminal domain; Modulation; Polyamine; Ifenprodil (Herin, G.A. (500) 101)

ZM 241385

Adenosine; Adenosine A_{2A} receptor; Autoradiography; A_{2A} knockout; (Mouse) (Kelly, M. (504) 55)

Zona fasciculata-reticularis cells

S-petasin; P450_{scc} activity; 11 β -Hydroxylase activity; Steroidogenic acute regulatory protein expression (Chang, L.-L. (489) 29)

Zona incerta

5-HT; 5-HT₇ receptor; 5-Carboxamidotryptamine; Ritanserin; SB-269970-A (Siddiqui, A. (491) 77)

Zucker diabetic fatty rat

Diabetic vasculopathy; Vasopeptidase inhibition (Schäfer, S. (484) 361)

Zymosan

Leukotrienes; Arthritis; Neutrophils; Hyperalgesia; Pain (da Rocha, F.A.C. (497) 81)

Zymosan-injected mouse air pouch

Cyclooxygenase-2 inhibitor; Prostaglandin E₂; Angiogenesis; Carrageenan-induced paw oedema (Devesa, I. (488) 225)