

Keyword index

Acetylcholine

Dopamine; GABA (γ -aminobutyric acid); Substantia nigra; Striatum; Antimuscarinic drug; L-Dopa (Izurieta-Sánchez, P. (399) 151)

Actin polymerization

TA-993; Platelet; Glycoprotein IIb/IIIa receptor; ADP; Ca^{2+} , intracellular (Katoh, M. (399) 91)

Active avoidance, mice

Ca^{2+} channel antagonist; Amlodipine; Memory enhancement; Maze learning; Chronic drug administration (Quartermain, D. (399) 57)

Adenosine receptor

ATP; Hippocampal slice; Electrical signal; Optical recording (Sato, K. (399) 123)

ADP

TA-993; Platelet; Glycoprotein IIb/IIIa receptor; Actin polymerization; Ca^{2+} , intracellular (Katoh, M. (399) 91)

α_2 -Adrenoceptor

Signal transduction; G protein; G protein coupled receptor; Second messenger; 5-HT receptor; 5-HT_{1A} receptor (Happe, H.K. (399) 17)

β_2 -Adrenoceptor agonist

Nitric oxide (NO); Smooth muscle; cGMP; cAMP; Iberiotoxin (Vaali, K. (399) 75)

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Cannabinoid; Δ^9 -THC (Δ^9 -tetrahydrocannabinol); SR 141716A; Antinociception; Marijuana, medical; Nebulizer (Lichtman, A.H. (399) 141)

Aminoguanidine

Diabetes; Nitric oxide (NO); Morphine; Antinociception (Grover, V.S. (399) 161)

Amitriptyline

Caffeine; Thermal hyperalgesia; Neuropathic pain (Esser, M.J. (399) 131)

Amlodipine

Ca^{2+} channel antagonist; Memory enhancement; Maze learning; Active avoidance, mice; Chronic drug administration (Quartermain, D. (399) 57)

cAMP

Nitric oxide (NO); β_2 -Adrenoceptor agonist; Smooth muscle; cGMP; Iberiotoxin (Vaali, K. (399) 75)

Amphetamine

Cocaine; Dorsal horn; Hyperalgesia (Ohsawa, M. (399) 165)

Angiogenesis

Heparin; Intragastric administration; Gastric ulcer healing; Nitric oxide (NO) synthase, Constitutive; Proliferation; Regeneration (Li, Y. (399) 205)

Antidepressant drug

Desipramine; Grooming; Locomotor activity; Mesolimbic dopamine system; Open field; Restraint stress; Chronic mild stress (D'Aquila, P.S. (399) 43)

Antidromic stimulation

Vagal afferent; Somatostatin; Capsaicin; Mustard oil; Anti-inflammatory effect (Thán, M. (399) 251)

Antiepileptic drug

Topiramate; Electroshock, maximal; Drug interaction; Seizure (Świąder, M. (399) 35)

Anti-inflammatory effect

Vagal afferent; Somatostatin; Capsaicin; Mustard oil; Antidromic stimulation (Thán, M. (399) 251)

Antimuscarinic drug

Dopamine; Acetylcholine; GABA (γ -aminobutyric acid); Substantia nigra; Striatum; L-Dopa (Izurieta-Sánchez, P. (399) 151)

Antinociception

Cannabinoid; Δ^9 -THC (Δ^9 -tetrahydrocannabinol); SR 141716A; Marijuana, medical; Aerosol; Nebulizer (Lichtman, A.H. (399) 141)

Diabetes; Nitric oxide (NO); Aminoguanidine; Morphine (Grover, V.S. (399) 161)

Arachidonic acid

Cardiomyocyte; Ca^{2+} channel; Phospholipase A₂; Mepacrine (Xiao, Y.-F. (399) 107)

Arthritis

Phosphodiesterase 4; Hyperalgesia; Oedema; TNF- α (tumor necrosis factor- α); Rolipram (Francischi, J.N. (399) 243)

Astrocyte

Ca^{2+} reperfusion; T-588; NGF (nerve growth factor); PD98059; MAP (mitogen-activated protein) kinase (Takuma, K. (399) 1)

ATP

Hippocampal slice; Electrical signal; Optical recording; Adenosine receptor (Sato, K. (399) 123)

β -amyloid

Chemokine; N-methyl-D-aspartate (NMDA); Cortical culture; Neuroprotection (Bruno, V. (399) 117)

Berberine

Nitric oxide (NO); K^+ channel; Ca^{2+} channel; Vasorelaxation; Proliferation; Mesenteric artery; (Rat) (Ko, W.-H. (399) 187)

Bradykinin B₂ receptor antagonist

Kallikrein secretion; K^+ ; Diuresis; Natriuresis; FR173657 (Suzuki, T. (399) 223)

Brain

Galanin; Galanin-(1–15); Galanin receptor; Galanin receptor antagonist; Cardiovascular; Neuropeptide (Narváez, J.A. (399) 197)

Bronchial hyperresponsiveness

Ozone; Haemoxygenase; Carbon monoxide (CO); Neutrophil (Hisada, T. (399) 229)

Bronchus, human, isolated

Phorbol 12,13-diacetate; Theophylline; Caffeine (Sarriá, B. (399) 65)

Ca²⁺ channel

Cardiomyocyte; Phospholipase A₂; Arachidonic acid; Mepacrine (Xiao, Y.-F. (399) 107)

Berberine; Nitric oxide (NO); K⁺ channel; Vasorelaxation; Proliferation; Mesenteric artery; (Rat) (Ko, W.-H. (399) 187)

Ca²⁺ channel antagonist

Amlodipine; Memory enhancement; Maze learning; Active avoidance, mice; Chronic drug administration (Quartermain, D. (399) 57)

Caffeine

Bronchus, human, isolated; Phorbol 12,13-diacetate; Theophylline (Sarriá, B. (399) 65)

Amitriptyline; Thermal hyperalgesia; Neuropathic pain (Esser, M.J. (399) 131)

Ca²⁺, intracellular

TA-993; Platelet; Glycoprotein IIb/IIIa receptor; ADP; Actin polymerization (Katoh, M. (399) 91)

Cannabinoid

Δ⁹-THC (Δ⁹-tetrahydrocannabinol); SR 141716A; Antinociception; Marijuana, medical; Aerosol; Nebulizer (Lichtman, A.H. (399) 141)

Capsaicin

Vagal afferent; Somatostatin; Mustard oil; Antidromic stimulation; Anti-inflammatory effect (Thán, M. (399) 251)

Carbon monoxide (CO)

Ozone; Haemoxygenase; Neutrophil; Bronchial hyperresponsiveness (Hisada, T. (399) 229)

Cardiomyocyte

Ca²⁺ channel; Phospholipase A₂; Arachidonic acid; Mepacrine (Xiao, Y.-F. (399) 107)

Cardiovascular

Galanin; Galanin-(1–15); Galanin receptor; Galanin receptor antagonist; Neuropeptide; Brain (Narváez, J.A. (399) 197)

Ca²⁺ reperfusion

T-588; NGF (nerve growth factor); PD98059; MAP (mitogen-activated protein) kinase; Astrocyte (Takuma, K. (399) 1)

Cell cycle

Suramin; Eriochrome Black T; Endothelial cell; Cyclin (Langer, I. (399) 85)

Chemokine

N-methyl-D-aspartate (NMDA); β-amyloid; Cortical culture; Neuroprotection (Bruno, V. (399) 117)

Chlormethiazole

Clomethiazole; Spreading depression; Hippocampus; Hypoxia; Neuroprotection (Stone, T.W. (399) 29)

Chronic drug administration

Ca²⁺ channel antagonist; Amlodipine; Memory enhancement; Maze learning; Active avoidance, mice (Quartermain, D. (399) 57)

Chronic mild stress

Antidepressant drug; Desipramine; Grooming; Locomotor activity; Mesolimbic dopamine system; Open field; Restraint stress (D'Aquila, P.S. (399) 43)

Clomethiazole

Chlormethiazole; Spreading depression; Hippocampus; Hypoxia; Neuroprotection (Stone, T.W. (399) 29)

Cocaine

Amphetamine; Dorsal horn; Hyperalgesia (Ohsawa, M. (399) 165)

Cortical culture

Chemokine; N-methyl-D-aspartate (NMDA); β-amyloid; Neuroprotection (Bruno, V. (399) 117)

Cyclin

Suramin; Eriochrome Black T; Endothelial cell; Cell cycle (Langer, I. (399) 85)

Cyclosporine

Tacrolimus; Glomerulo-tubular balance; Tubulo-glomerular feed-back; Tubular reabsorption; Single nephron filtration rate (Romano, G. (399) 215)

Desipramine

Antidepressant drug; Grooming; Locomotor activity; Mesolimbic dopamine system; Open field; Restraint stress; Chronic mild stress (D'Aquila, P.S. (399) 43)

Diabetes

Nitric oxide (NO); Aminoguanidine; Morphine; Antinociception (Grover, V.S. (399) 161)

Diuresis

Kallikrein secretion; K⁺; Natriuresis; Bradykinin B₂ receptor antagonist; FR173657 (Suzuki, T. (399) 223)

L-Dopa

Dopamine; Acetylcholine; GABA (γ-aminobutyric acid); Substantia nigra; Striatum; Antimuscarinic drug (Izurieta-Sánchez, P. (399) 151)

L-Dopa-induced dyskinesia

Dopamine D₄ receptor; JL-18; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Tahar, A.H. (399) 183)

Dopamine

Acetylcholine; GABA (γ-aminobutyric acid); Substantia nigra; Striatum; Antimuscarinic drug; L-Dopa (Izurieta-Sánchez, P. (399) 151)

Dopamine D₁ receptor

Dopamine D₃ receptor; Knockout mice; Locomotor activity; Exploratory behaviour; Elevated plus maze; Rotarod; Spatial learning (Karasinska, J.M. (399) 171)

Dopamine D₃ receptor

Dopamine D₁ receptor; Knockout mice; Locomotor activity; Exploratory behaviour; Elevated plus maze; Rotarod; Spatial learning (Karasinska, J.M. (399) 171)

Dopamine D₄ receptor

L-Dopa-induced dyskinesia; JL-18; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Tahar, A.H. (399) 183)

Dorsal horn

Cocaine; Amphetamine; Hyperalgesia (Ohsawa, M. (399) 165)

Drug interaction

Topiramate; Antiepileptic drug; Electroshock, maximal; Seizure (Świąder, M. (399) 35)

Electrical signal

ATP; Hippocampal slice; Optical recording; Adenosine receptor (Sato, K. (399) 123)

Electroshock, maximal

Topiramate; Antiepileptic drug; Drug interaction; Seizure (Świąder, M. (399) 35)

Elevated plus maze

Dopamine D₁ receptor; Dopamine D₃ receptor; Knockout mice; Locomotor activity; Exploratory behaviour; Rotarod; Spatial learning (Karasinska, J.M. (399) 171)

Endothelial cell

Suramin; Eriochrome Black T; Cyclin; Cell cycle (Langer, I. (399) 85)

Endothelium-derived hyperpolarizing factor (EDHF)

3-morpholinolinosydnonimine (SIN-1); K⁺ channel, Ca²⁺-activated; K⁺ channel, ATP-sensitive; Membrane potential (Quignard, J.-F. (399) 9)

Eriochrome Black T

Suramin; Endothelial cell; Cyclin; Cell cycle (Langer, I. (399) 85)

Exploratory behaviour

Dopamine D₁ receptor; Dopamine D₃ receptor; Knockout mice; Locomotor activity; Elevated plus maze; Rotarod; Spatial learning (Karasinska, J.M. (399) 171)

FR173657

Kallikrein secretion; K⁺; Diuresis; Natriuresis; Bradykinin B₂ receptor antagonist (Suzuki, T. (399) 223)

GABA (γ-aminobutyric acid)

Dopamine; Acetylcholine; Substantia nigra; Striatum; Antimuscarinic drug; L-Dopa (Izurieta-Sánchez, P. (399) 151)

Galanin-(1–15)

Galanin; Galanin receptor; Galanin receptor antagonist; Cardiovascular; Neuropeptide; Brain (Narváez, J.A. (399) 197)

Galanin

Galanin-(1–15); Galanin receptor; Galanin receptor antagonist; Cardiovascular; Neuropeptide; Brain (Narváez, J.A. (399) 197)

Galanin receptor

Galanin; Galanin-(1–15); Galanin receptor antagonist; Cardiovascular; Neuropeptide; Brain (Narváez, J.A. (399) 197)

Galanin receptor antagonist

Galanin; Galanin-(1–15); Galanin receptor; Cardiovascular; Neuropeptide; Brain (Narváez, J.A. (399) 197)

Gastric ulcer healing

Heparin; Intragastric administration; Nitric oxide (NO) synthase, Constitutive; Proliferation; Regeneration; Angiogenesis (Li, Y. (399) 205)

Glomerulo-tubular balance

Cyclosporine; Tacrolimus; Tubulo-glomerular feed-back; Tubular reabsorption; Single nephron filtration rate (Romano, G. (399) 215)

Glycoprotein IIb/IIIa receptor

TA-993; Platelet; ADP; Actin polymerization; Ca²⁺, intracellular (Katoh, M. (399) 91)

cGMP

Nitric oxide (NO); β₂-Adrenoceptor agonist; Smooth muscle; cAMP; Iberiotoxin (Vaali, K. (399) 75)

G protein

Signal transduction; α₂-Adrenoceptor; G protein coupled receptor; Second messenger; 5-HT receptor; 5-HT_{1A} receptor (Happe, H.K. (399) 17)

G protein coupled receptor

Signal transduction; G protein; α₂-Adrenoceptor; Second messenger; 5-HT receptor; 5-HT_{1A} receptor (Happe, H.K. (399) 17)

GR127935

5-HT_{1B/D} receptor; Locomotor activity; SKF99101H; WAY100635; (Guinea pig) (O'Neill, M.F. (399) 49)

Grooming

Antidepressant drug; Desipramine; Locomotor activity; Mesolimbic dopamine system; Open field; Restraint stress; Chronic mild stress (D'Aquila, P.S. (399) 43)

Haemoxygenase

Ozone; Carbon monoxide (CO); Neutrophil; Bronchial hyperresponsiveness (Hisada, T. (399) 229)

HEK 293 cell

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor antagonist; Ligand-gated ion channel; (Ferret) (Mochizuki, S. (399) 97)

Heparin

Intragastric administration; Gastric ulcer healing; Nitric oxide (NO) synthase, Constitutive; Proliferation; Regeneration; Angiogenesis (Li, Y. (399) 205)

Hippocampal slice

ATP; Electrical signal; Optical recording; Adenosine receptor (Sato, K. (399) 123)

Hippocampus

Clomethiazole; Chlormethiazole; Spreading depression; Hypoxia; Neuroprotection (Stone, T.W. (399) 29)

5-HT receptor

Signal transduction; G protein; α₂-Adrenoceptor; G protein coupled receptor; Second messenger; 5-HT_{1A} receptor (Happe, H.K. (399) 17)

5-HT_{1A} receptor

Signal transduction; G protein; α₂-Adrenoceptor; G protein coupled receptor; Second messenger; 5-HT receptor (Happe, H.K. (399) 17)

5-HT_{1B/D} receptor

Locomotor activity; SKF99101H; GR127935; WAY100635; (Guinea pig) (O'Neill, M.F. (399) 49)

5-HT₃ receptor

5-HT₃ receptor agonist; 5-HT₃ receptor antagonist; Ligand-gated ion channel; HEK 293 cell; (Ferret) (Mochizuki, S. (399) 97)

5-HT₃ receptor agonist

5-HT₃ receptor; 5-HT₃ receptor antagonist; Ligand-gated ion channel; HEK 293 cell; (Ferret) (Mochizuki, S. (399) 97)

5-HT₃ receptor antagonist

5-HT₃ receptor; 5-HT₃ receptor agonist; Ligand-gated ion channel; HEK 293 cell; (Ferret) (Mochizuki, S. (399) 97)

Hyperalgesia

Cocaine; Amphetamine; Dorsal horn (Ohsawa, M. (399) 165)

Arthritis; Phosphodiesterase 4; Oedema; TNF- α (tumor necrosis factor- α); Rolipram (Francischi, J.N. (399) 243)

Hypoxia

Clomethiazole; Chlormethiazole; Spreading depression; Hippocampus; Neuroprotection (Stone, T.W. (399) 29)

Iberiotoxin

Nitric oxide (NO); β_2 -Adrenoceptor agonist; Smooth muscle; cGMP; cAMP (Vaali, K. (399) 75)

Intragastric administration

Heparin; Gastric ulcer healing; Nitric oxide (NO) synthase, Constitutive; Proliferation; Regeneration; Angiogenesis (Li, Y. (399) 205)

JL-18

Dopamine D₄ receptor; L-Dopa-induced dyskinesia; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Tahar, A.H. (399) 183)

K⁺

Kallikrein secretion; Diuresis; Natriuresis; Bradykinin B₂ receptor antagonist; FR173657 (Suzuki, T. (399) 223)

Kallikrein secretion

K⁺; Diuresis; Natriuresis; Bradykinin B₂ receptor antagonist; FR173657 (Suzuki, T. (399) 223)

K⁺ channel

Berberine; Nitric oxide (NO); Ca²⁺ channel; Vasorelaxation; Proliferation; Mesenteric artery; (Rat) (Ko, W.-H. (399) 187)

K⁺ channel, ATP-sensitive

3-morpholinosydnonimine (SIN-1); Endothelium-derived hyperpolarizing factor (EDHF); K⁺ channel, Ca²⁺-activated; Membrane potential (Quignard, J.-F. (399) 9)

K⁺ channel, Ca²⁺-activated

3-morpholinosydnonimine (SIN-1); Endothelium-derived hyperpolarizing factor (EDHF); K⁺ channel, ATP-sensitive; Membrane potential (Quignard, J.-F. (399) 9)

Kinin

Staphylococcal enterotoxin B; Mast cell; Neurogenic inflammation; Tachykinin NK₁ receptor; Vanilloid receptor (Linardi, A. (399) 235)

Knockout mice

Dopamine D₁ receptor; Dopamine D₃ receptor; Locomotor activity; Exploratory behaviour; Elevated plus maze; Rotarod; Spatial learning (Karasinska, J.M. (399) 171)

Ligand-gated ion channel

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor antagonist; HEK 293 cell; (Ferret) (Mochizuki, S. (399) 97)

Locomotor activity

Antidepressant drug; Desipramine; Grooming; Mesolimbic dopamine system; Open field; Restraint stress; Chronic mild stress (D'Aquila, P.S. (399) 43)

5-HT_{1B/D} receptor; SKF99101H; GR127935; WAY100635; (Guinea pig) (O'Neill, M.F. (399) 49)

Dopamine D₁ receptor; Dopamine D₃ receptor; Knockout mice; Exploratory behaviour; Elevated plus maze; Rotarod; Spatial learning (Karasinska, J.M. (399) 171)

MAP (mitogen-activated protein) kinase

Ca²⁺ reperfusion; T-588; NGF (nerve growth factor); PD98059; Astrocyte (Takuma, K. (399) 1)

Marijuana, medical

Cannabinoid; Δ^9 -THC (Δ^9 -tetrahydrocannabinol); SR 141716A; Antinociception; Aerosol; Nebulizer (Lichtman, A.H. (399) 141)

Mast cell

Staphylococcal enterotoxin B; Kinin; Neurogenic inflammation; Tachykinin NK₁ receptor; Vanilloid receptor (Linardi, A. (399) 235)

Maze learning

Ca²⁺ channel antagonist; Amlodipine; Memory enhancement; Active avoidance, mice; Chronic drug administration (Quartermain, D. (399) 57)

Membrane potential

3-morpholinosydnonimine (SIN-1); Endothelium-derived hyperpolarizing factor (EDHF); K⁺ channel, Ca²⁺-activated; K⁺ channel, ATP-sensitive (Quignard, J.-F. (399) 9)

Memory enhancement

Ca²⁺ channel antagonist; Amlodipine; Maze learning; Active avoidance, mice; Chronic drug administration (Quartermain, D. (399) 57)

Mepacrine

Cardiomyocyte; Ca²⁺ channel; Phospholipase A₂; Arachidonic acid (Xiao, Y.-F. (399) 107)

Mesenteric artery

Berberine; Nitric oxide (NO); K⁺ channel; Ca²⁺ channel; Vasorelaxation; Proliferation; (Rat) (Ko, W.-H. (399) 187)

Mesolimbic dopamine system

Antidepressant drug; Desipramine; Grooming; Locomotor activity; Open field; Restraint stress; Chronic mild stress (D'Aquila, P.S. (399) 43)

Morphine

Diabetes; Nitric oxide (NO); Aminoguanidine; Antinociception (Grover, V.S. (399) 161)

3-morpholinosydnonimine (SIN-1)

Endothelium-derived hyperpolarizing factor (EDHF); K⁺ channel, Ca²⁺-activated; K⁺ channel, ATP-sensitive; Membrane potential (Quignard, J.-F. (399) 9)

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine)

Dopamine D₄ receptor; L-Dopa-induced dyskinesia; JL-18; Parkinson's disease (Tahar, A.H. (399) 183)

Mustard oil

Vagal afferent; Somatostatin; Capsaicin; Antidromic stimulation; Anti-inflammatory effect (Thán, M. (399) 251)

Natriuresis

Kallikrein secretion; K^+ ; Diuresis; Bradykinin B_2 receptor antagonist; FR173657 (Suzuki, T. (399) 223)

Nebulizer

Cannabinoid; Δ^9 -THC (Δ^9 -tetrahydrocannabinol); SR 141716A; Antinociception; Marijuana, medical; Aerosol (Lichtman, A.H. (399) 141)

Neurogenic inflammation

Staphylococcal enterotoxin B; Kinin; Mast cell; Tachykinin NK_1 receptor; Vanilloid receptor (Linardi, A. (399) 235)

Neuropathic pain

Amitriptyline; Caffeine; Thermal hyperalgesia (Esser, M.J. (399) 131)

Neuropeptide

Galanin; Galanin-(1–15); Galanin receptor; Galanin receptor antagonist; Cardiovascular; Brain (Narváez, J.A. (399) 197)

Neuroprotection

Clomethiazole; Chlormethiazole; Spreading depression; Hippocampus; Hypoxia (Stone, T.W. (399) 29)

Chemokine; *N*-methyl-D-aspartate (NMDA); β -amyloid; Cortical culture (Bruno, V. (399) 117)

Neutrophil

Ozone; Haemoxygenase; Carbon monoxide (CO); Bronchial hyperresponsiveness (Hisada, T. (399) 229)

NGF (nerve growth factor)

Ca^{2+} reperfusion; T-588; PD98059; MAP (mitogen-activated protein) kinase; Astrocyte (Takuma, K. (399) 1)

Nitric oxide (NO)

β_2 -Adrenoceptor agonist; Smooth muscle; cGMP; cAMP; Iberiotoxin (Vaali, K. (399) 75)

Diabetes; Aminoguanidine; Morphine; Antinociception (Grover, V.S. (399) 161)

Berberine; K^+ channel; Ca^{2+} channel; Vasorelaxation; Proliferation; Mesenteric artery; (Rat) (Ko, W.-H. (399) 187)

Nitric oxide (NO) synthase, Constitutive

Heparin; Intragastric administration; Gastric ulcer healing; Proliferation; Regeneration; Angiogenesis (Li, Y. (399) 205)

***N*-methyl-D-aspartate (NMDA)**

Chemokine; β -amyloid; Cortical culture; Neuroprotection (Bruno, V. (399) 117)

Oedema

Arthritis; Phosphodiesterase 4; Hyperalgesia; TNF- α (tumor necrosis factor- α); Rolipram (Francischi, J.N. (399) 243)

Open field

Antidepressant drug; Desipramine; Grooming; Locomotor activity; Mesolimbic dopamine system; Restraint stress; Chronic mild stress (D'Aquila, P.S. (399) 43)

Optical recording

ATP; Hippocampal slice; Electrical signal; Adenosine receptor (Sato, K. (399) 123)

Ozone

Haemoxygenase; Carbon monoxide (CO); Neutrophil; Bronchial hyperresponsiveness (Hisada, T. (399) 229)

Parkinson's disease

Dopamine D_4 receptor; L-Dopa-induced dyskinesia; JL-18; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Tahar, A.H. (399) 183)

PD98059

Ca^{2+} reperfusion; T-588; NGF (nerve growth factor); MAP (mitogen-activated protein) kinase; Astrocyte (Takuma, K. (399) 1)

Phorbol 12,13-diacetate

Bronchus, human, isolated; Theophylline; Caffeine (Sarriá, B. (399) 65)

Phosphodiesterase 4

Arthritis; Hyperalgesia; Oedema; TNF- α (tumor necrosis factor- α); Rolipram (Francischi, J.N. (399) 243)

Phospholipase A_2

Cardiomyocyte; Ca^{2+} channel; Arachidonic acid; Mepacrine (Xiao, Y.-F. (399) 107)

Platelet

TA-993; Glycoprotein IIb/IIIa receptor; ADP; Actin polymerization; Ca^{2+} , intracellular (Katoh, M. (399) 91)

Proliferation

Berberine; Nitric oxide (NO); K^+ channel; Ca^{2+} channel; Vasorelaxation; Mesenteric artery; (Rat) (Ko, W.-H. (399) 187)

Heparin; Intragastric administration; Gastric ulcer healing; Nitric oxide (NO) synthase, Constitutive; Regeneration; Angiogenesis (Li, Y. (399) 205)

Regeneration

Heparin; Intragastric administration; Gastric ulcer healing; Nitric oxide (NO) synthase, Constitutive; Proliferation; Angiogenesis (Li, Y. (399) 205)

Restraint stress

Antidepressant drug; Desipramine; Grooming; Locomotor activity; Mesolimbic dopamine system; Open field; Chronic mild stress (D'Aquila, P.S. (399) 43)

Rolipram

Arthritis; Phosphodiesterase 4; Hyperalgesia; Oedema; TNF- α (tumor necrosis factor- α) (Francischi, J.N. (399) 243)

Rotarod

Dopamine D_1 receptor; Dopamine D_3 receptor; Knockout mice; Locomotor activity; Exploratory behaviour; Elevated plus maze; Spatial learning (Karasinska, J.M. (399) 171)

Second messenger

Signal transduction; G protein; α_2 -Adrenoceptor; G protein coupled receptor; 5-HT receptor; 5-HT $_{1A}$ receptor (Happe, H.K. (399) 17)

Seizure

Topiramate; Antiepileptic drug; Electroshock, maximal; Drug interaction (Świąder, M. (399) 35)

Signal transduction

G protein; α_2 -Adrenoceptor; G protein coupled receptor; Second messenger; 5-HT receptor; 5-HT $_{1A}$ receptor (Happe, H.K. (399) 17)

Single nephron filtration rate

Cyclosporine; Tacrolimus; Glomerulo-tubular balance; Tubulo-glomerular feed-back; Tubular reabsorption (Romano, G. (399) 215)

SKF99101H

5-HT_{1B/D} receptor; Locomotor activity; GR127935; WAY100635; (Guinea pig) (O'Neill, M.F. (399) 49)

Smooth muscle

Nitric oxide (NO); β_2 -Adrenoceptor agonist; cGMP; cAMP; Iberiotoxin (Vaali, K. (399) 75)

Somatostatin

Vagal afferent; Capsaicin; Mustard oil; Antidromic stimulation; Anti-inflammatory effect (Thán, M. (399) 251)

Spatial learning

Dopamine D₁ receptor; Dopamine D₃ receptor; Knockout mice; Locomotor activity; Exploratory behaviour; Elevated plus maze; Rotarod (Karaszka, J.M. (399) 171)

Spreading depression

Clomethiazole; Chlormethiazole; Hippocampus; Hypoxia; Neuroprotection (Stone, T.W. (399) 29)

SR 141716A

Cannabinoid; Δ^9 -THC (Δ^9 -tetrahydrocannabinol); Antinociception; Marijuana, medical; Aerosol; Nebulizer (Lichtman, A.H. (399) 141)

Staphylococcal enterotoxin B

Kinin; Mast cell; Neurogenic inflammation; Tachykinin NK₁ receptor; Vanilloid receptor (Linardi, A. (399) 235)

Striatum

Dopamine; Acetylcholine; GABA (γ -aminobutyric acid); Substantia nigra; Antimuscarinic drug; L-Dopa (Izurieta-Sánchez, P. (399) 151)

Substantia nigra

Dopamine; Acetylcholine; GABA (γ -aminobutyric acid); Striatum; Antimuscarinic drug; L-Dopa (Izurieta-Sánchez, P. (399) 151)

Suramin

Eriochrome Black T; Endothelial cell; Cyclin; Cell cycle (Langer, I. (399) 85)

T-588

Ca²⁺ reperfusion; NGF (nerve growth factor); PD98059; MAP (mitogen-activated protein) kinase; Astrocyte (Takuma, K. (399) 1)

TA-993

Platelet; Glycoprotein IIb/IIIa receptor; ADP; Actin polymerization; Ca²⁺, intracellular (Katoh, M. (399) 91)

Tachykinin NK₁ receptor

Staphylococcal enterotoxin B; Kinin; Mast cell; Neurogenic inflammation; Vanilloid receptor (Linardi, A. (399) 235)

Tacrolimus

Cyclosporine; Glomerulo-tubular balance; Tubulo-glomerular feed-back; Tubular reabsorption; Single nephron filtration rate (Romano, G. (399) 215)

 Δ^9 -THC (Δ^9 -tetrahydrocannabinol)

Cannabinoid; SR 141716A; Antinociception; Marijuana, medical; Aerosol; Nebulizer (Lichtman, A.H. (399) 141)

Theophylline

Bronchus, human, isolated; Phorbol 12,13-diacetate; Caffeine (Sarriá, B. (399) 65)

Thermal hyperalgesia

Amitriptyline; Caffeine; Neuropathic pain (Esser, M.J. (399) 131)

TNF- α (tumor necrosis factor- α)

Arthritis; Phosphodiesterase 4; Hyperalgesia; Oedema; Rolipram (Francischi, J.N. (399) 243)

Topiramate

Antiepileptic drug; Electroshock, maximal; Drug interaction; Seizure (Świąder, M. (399) 35)

Tubular reabsorption

Cyclosporine; Tacrolimus; Glomerulo-tubular balance; Tubulo-glomerular feed-back; Single nephron filtration rate (Romano, G. (399) 215)

Tubulo-glomerular feed-back

Cyclosporine; Tacrolimus; Glomerulo-tubular balance; Tubular reabsorption; Single nephron filtration rate (Romano, G. (399) 215)

Vagal afferent

Somatostatin; Capsaicin; Mustard oil; Antidromic stimulation; Anti-inflammatory effect (Thán, M. (399) 251)

Vanilloid receptor

Staphylococcal enterotoxin B; Kinin; Mast cell; Neurogenic inflammation; Tachykinin NK₁ receptor (Linardi, A. (399) 235)

Vasorelaxation

Berberine; Nitric oxide (NO); K⁺ channel; Ca²⁺ channel; Proliferation; Mesenteric artery; (Rat) (Ko, W.-H. (399) 187)

WAY100635

5-HT_{1B/D} receptor; Locomotor activity; SKF99101H; GR127935; (Guinea pig) (O'Neill, M.F. (399) 49)