

Keyword index

Acetylcholine

PAF (platelet-activating factor); Nitric oxide (NO); EDHF (endothelium-derived hyperpolarizing factor) (Kamata, K. (298) 129)

Acetylcholine receptor antagonist

Nicotine; Morphine; Naloxone; Jumping; (Mouse) (Zarrindast, M.-R. (298) 1)

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Opioid; Spinal cord; Synergy (Cahill, C.M. (298) 45)

Ca²⁺, cytosolic; Ca²⁺ domain; Cardioprotection; Fluo-3; Heart (Jovanovic, A. (298) 63)

Adenosine A₃ receptor

Hypotension; Mast cell; Histamine; APNEA (*N*⁶-2-(4-aminophenyl)ethyladenosine); Compound 48/80 (Fozard, J.R. (298) 293)

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Otilonium; Chromaffin cell; Ca²⁺ channel; Catecholamine release (Gandía, L. (298) 199)

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α_{1D}-Adrenoceptor; BMY 7378; Spontaneously hypertensive rat (SHR); Artery; Wistar Kyoto rat (WKY) (Villalobos-Molina, R. (298) 257)

α_{1D}-Adrenoceptor

α_{1A}-Adrenoceptor; BMY 7378; Spontaneously hypertensive rat (SHR); Artery; Wistar Kyoto rat (WKY) (Villalobos-Molina, R. (298) 257)

α₂-Adrenoceptor

Analgesia; μ-Opioid receptor; Spinal cord; Desipramine; Neuropeptide (Gergen, K.A. (298) 235)

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Glucose; Insulin; Pancreatic islet, blood flow; Blood pressure (Atef, N. (298) 287)

Agonist and antagonist discrimination

5-HT₃ receptor; Binding thermodynamics; Thermodynamic compensation (Borea, P.A. (298) 329)

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Dopamine transporter; [³H]GBR 12935 binding; L-DOPA; Reserpine; Benztropine (Gordon, I. (298) 27)

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Pain; Polyamine; NMDA receptor; Ifenprodil; Morphine; Naloxone; α-MSH (α-melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

μ-Opioid receptor; Spinal cord; Desipramine; α₂-Adrenoceptor; Neuropeptide (Gergen, K.A. (298) 235)

Angiogenesis

Basement membrane; Neurogenic inflammation; Tachykinin; Wound healing (Wiedermann, C.J. (298) 335)

Antinociception

Respiratory depression; Opioid receptor; Naloxonazine; Levorphanol; Quadazocine; (*Macaca mulatta*) (Gatch, M.B. (298) 31)

Antioxidant

α-Tocopherol analog (water-soluble); Neuroprotection; Lipid peroxidation; Vitamin E; Malondialdehyde; Free radical; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Cerebral ischemia/reperfusion; Spin trapping; ESR (electron spin resonance); Free radical scavenger (Cowley, D.J. (298) 227)

Anxiety

Myocardial infarction; Quality of life; Exploration; Social behavior; (Rat) (Schoemaker, R.G. (298) 17)

APNEA (*N*⁶-2-(4-aminophenyl)ethyladenosine)

Adenosine A₃ receptor; Hypotension; Mast cell; Histamine; Compound 48/80 (Fozard, J.R. (298) 293)

Artery

α_{1D}-Adrenoceptor; α_{1A}-Adrenoceptor; BMY 7378; Spontaneously hypertensive rat (SHR); Wistar Kyoto rat (WKY) (Villalobos-Molina, R. (298) 257)

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BAPTA / AM (*O,O'*-bis(2-aminophenyl)ethyleneglycol-*N,N,N',N'*-tetraacetic acid, tetraacetoxymethyl ester)

tBuBHQ (2,5-di-(tert-butyl)-1,4-benzohydroquinone); *N*-Formyl-Met-Leu-Phe; Phorbol ester; Superoxide anion; Ca²⁺ (Tsukii, K. (298) 87)

Basement membrane

Angiogenesis; Neurogenic inflammation; Tachykinin; Wound healing (Wiedermann, C.J. (298) 335)

Benzodiazepine

Gastric lesion, ethanol-induced; Unilateral vagotomy; (Rat) (Khadour, F. (298) 271)

GABA_A receptor; Flunitrazepam; Ro 15-4513; Hydroxylamine (Duncalfe, L.L. (298) 313)

Benzodiazepine receptor

β -CCE (ethyl β -carboline-3-carboxylate); Down-regulation; Inverse agonist; Primary cultured neuron (Katsura, M. (298) 71)

Benztropine

Dopamine transporter; [3 H]GBR 12935 binding; L-DOPA; Reserpine; Amantadine (Gordon, I. (298) 27)

Binding thermodynamics

5-HT₃ receptor; Agonist and antagonist discrimination; Thermodynamic compensation (Borea, P.A. (298) 329)

Blood pressure

Glucose; Insulin; Pancreatic islet, blood flow; β -Adrenoceptor (Atef, N. (298) 287)

BMY 7378

α_{1D} -Adrenoceptor; α_{1A} -Adrenoceptor; Spontaneously hypertensive rat (SHR); Artery; Wistar Kyoto rat (WKY) (Villalobos-Molina, R. (298) 257)

Bradykinin

HOE140; Ketotifen; Bradykinin receptor; Mast cell; Vascular permeability (Morishita, M. (298) 149)

Bradykinin receptor

Bradykinin; HOE140; Ketotifen; Mast cell; Vascular permeability (Morishita, M. (298) 149)

Brain

Linopirdine; DuP 996; Membrane binding; Species difference (Höfner, G. (298) 307)

tBuBHQ (2,5-di-(tert-butyl)-1,4-benzohydroquinone)

N-Formyl-Met-Leu-Phe; Phorbol ester; Superoxide anion; Ca²⁺; BAPTA/AM (*O,O'*-bis(2-aminophenyl)ethyleneglycol-*N,N,N',N'*-tetraacetic acid, tetraacetoxymethyl ester) (Tsukii, K. (298) 87)

Ca²⁺

Pregnenolone sulfate; Steroid; GH3 cell; Pituitary (Büküşoğlu, C. (298) 79)

tBuBHQ (2,5-di-(tert-butyl)-1,4-benzohydroquinone); *N*-Formyl-Met-Leu-Phe; Phorbol ester; Superoxide anion; BAPTA/AM (*O,O'*-bis(2-aminophenyl)ethyleneglycol-*N,N,N',N'*-tetraacetic acid, tetraacetoxymethyl ester) (Tsukii, K. (298) 87)

W-7 (*N*-(6-aminoheptyl)-5-chloro-1-naphthalenesulfonamide); ML-7 (1-(5-iodonaphthalene-1-sulfonyl)-1*H*-hexahydro-1,4-diazepine); Thromboxane A₂; G-protein; Phosphoinositide hydrolysis (Ohkubo, S. (298) 175)

Ca²⁺ channel

Otilonium; Chromaffin cell; Adrenal gland; Catecholamine release (Gandía, L. (298) 199)

Ca²⁺ channel blocker

Spider venom; K⁺ channel blocker; Endothelin-1; Nitric oxide (NO); Hoe 140 (Costa, S.K.P. (298) 113)

Ca²⁺ current

MCI-154 (6-[4-(4-pyridylamino)phenyl]-4,5-dihydro-3-(2*H*)-pyridazinone); Ventricular arrhythmia; Heart failure (Eto, K. (298) 247)

Ca²⁺, cytoplasmic

Sulphonylurea; Tolbutamide; Glibenclamide; Pancreatic B-cell; Insulin release; Stimulus-secretion coupling; K⁺ channel, ATP-sensitive; Islet, mouse (García-Barrado, M.-J. (298) 279)

Ca²⁺, cytosolic

Adenosine; Ca²⁺ domain; Cardioprotection; Fluo-3; Heart (Jovanovic, A. (298) 63)

Ca²⁺ domain

Adenosine; Ca²⁺, cytosolic; Cardioprotection; Fluo-3; Heart (Jovanovic, A. (298) 63)

Caffeine

Formalin test; Stimulus intensity; 8-Cyclopentyltheophylline; 3,7-Dimethyl-1-propargylxanthine (Sawynok, J. (298) 105)

Ca²⁺, intracellular

Ryanodine receptor; Synaptosome; Hippocampus; Subcellular localization (Padua, R.A. (298) 185)

Ca²⁺ mobilization

Diabetic pancreas; 1,4,5-IP₃-sensitive Ca²⁺ store; Ca²⁺ refilling; Muscarinic receptor (Komabayashi, T. (298) 299)

Capsazepine

[3 H]Resiniferatoxin; Vanilloid receptor; Neuroleptic; Cooperative binding (Szallasi, A. (298) 321)

Captopril

Myocardial infarction; Remodeling; Ischemia; Metabolism (Kalkman, E.A.J. (298) 121)

Cardioprotection

Adenosine; Ca²⁺, cytosolic; Ca²⁺ domain; Fluo-3; Heart (Jovanovic, A. (298) 63)

Ca²⁺ refilling

Diabetic pancreas; Ca²⁺ mobilization; 1,4,5-IP₃-sensitive Ca²⁺ store; Muscarinic receptor (Komabayashi, T. (298) 299)

Ca²⁺ store

Ryanodine; Heparin; Thapsigargin; Ruthenium red; cGMP (Duridanova, D.B. (298) 159)

Catecholamine release

Otilonium; Chromaffin cell; Ca²⁺ channel; Adrenal gland (Gandía, L. (298) 199)

 β -CCE (ethyl β -carboline-3-carboxylate)

Benzodiazepine receptor; Down-regulation; Inverse agonist; Primary cultured neuron (Katsura, M. (298) 71)

Cell cycle

DNA synthesis; Smooth muscle cell, rat, vascular; Osthole; (*Angelica pubescens*) (Guh, J.-H. (298) 191)

Cerebral ischemia/reperfusion

Spin trapping; ESR (electron spin resonance); Antioxidant; Free radical scavenger (Cowley, D.J. (298) 227)

Charybdotoxin

Trachea; Smooth muscle relaxation; Endothelin; Nitric oxide (NO); (Guinea-pig) (Hadj-Kaddour, K. (298) 145)

Cholecystokinin

Dopamine; Dopamine D₁ receptor; Grooming; Vacuous chewing movement; (Rat) (Van Kampen, J. (298) 7)

Chromaffin cell

Otilonium; Ca²⁺ channel; Adrenal gland; Catecholamine release (Gandía, L. (298) 199)

Cisplatin

cis-Platinum (II) phosphonate complex; Murine mast cell; Histamine release (Brzezińska-Błaszczyk, E. (298) 155)

Cocaine

Enkephalin; δ -Opioid receptor; Naltrindole; Sensitization (Heidbreder, C. (298) 207)

Compound 48/80

Adenosine A₃ receptor; Hypotension; Mast cell; Histamine; APNEA (*N*⁶-2-(4-aminophenyl)ethyladenosine) (Fozard, J.R. (298) 293)

Cooperative binding

[³H]Resiniferatoxin; Vanilloid receptor; Capsazepine; Neuroleptic (Szalasi, A. (298) 321)

Cyclic voltammetry

α -Tocopherol analog (water-soluble); Neuroprotection; Lipid peroxidation; Antioxidant; Vitamin E; Malondialdehyde; Free radical (Bolkenius, F.N. (298) 37)

8-Cyclopentyltheophylline

Formalin test; Caffeine; Stimulus intensity; 3,7-Dimethyl-1-propargylxanthine (Sawynok, J. (298) 105)

Desensitization

5-HT₄ receptor; [³H]GR 113808; Radioligand binding (Ansanay, H. (298) 165)

Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Striatum; Protein kinase A; Protein kinase C; (Rat) (West, A.R. (298) 241)

Desipramine

Analgesia; μ -Opioid receptor; Spinal cord; α_2 -Adrenoceptor; Neuropeptide (Gergen, K.A. (298) 235)

Diabetic pancreas

Ca²⁺ mobilization; 1,4,5-IP₃-sensitive Ca²⁺ store; Ca²⁺ refilling; Muscarinic receptor (Komabayashi, T. (298) 299)

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Formalin test; Caffeine; Stimulus intensity; 8-Cyclopentyltheophylline (Sawynok, J. (298) 105)

DNA synthesis

Cell cycle; Smooth muscle cell, rat, vascular; Osthole; (*Angelica pubescens*) (Guh, J.-H. (298) 191)

L-DOPA

Dopamine transporter; [³H]GBR 12935 binding; Reserpine; Amantadine; Benztropine (Gordon, I. (298) 27)

Dopamine

Cholecystokinin; Dopamine D₁ receptor; Grooming; Vacuous chewing movement; (Rat) (Van Kampen, J. (298) 7)

5-HT (5-hydroxytryptamine, serotonin); Desensitization; Striatum; Protein kinase A; Protein kinase C; (Rat) (West, A.R. (298) 241)

Dopamine D₁ receptor

Cholecystokinin; Dopamine; Grooming; Vacuous chewing movement; (Rat) (Van Kampen, J. (298) 7)

Dopamine transporter

[³H]GBR 12935 binding; L-DOPA; Reserpine; Amantadine; Benztropine (Gordon, I. (298) 27)

Down-regulation

β -CCE (ethyl β -carboline-3-carboxylate); Benzodiazepine receptor; Inverse agonist; Primary cultured neuron (Katsura, M. (298) 71)

DuP 996

Linopirdine; Brain; Membrane binding; Species difference (Höfner, G. (298) 307)

EDHF (endothelium-derived hyperpolarizing factor)

Acetylcholine; PAF (platelet-activating factor); Nitric oxide (NO) (Kamata, K. (298) 129)

Endothelin

Trachea; Smooth muscle relaxation; Charybdotoxin; Nitric oxide (NO); (Guinea-pig) (Hadj-Kaddour, K. (298) 145)

Endothelin-1

Spider venom; Ca²⁺ channel blocker; K⁺ channel blocker; Nitric oxide (NO); Hoe 140 (Costa, S.K.P. (298) 113)

Enkephalin

Cocaine; δ -Opioid receptor; Naltrindole; Sensitization (Heidbreder, C. (298) 207)

Enprofylline

Mucus secretion; Trachea; Theophylline; 8-Phenyltheophylline; 3-Iso-butyl-methylxanthine; Motapizone; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

ESR (electron spin resonance)

Cerebral ischemia/reperfusion; Spin trapping; Antioxidant; Free radical scavenger (Cowley, D.J. (298) 227)

Exploration

Myocardial infarction; Quality of life; Anxiety; Social behavior; (Rat) (Schoemaker, R.G. (298) 17)

Flunitrazepam

GABA_A receptor; Benzodiazepine; Ro 15-4513; Hydroxylamine (Duncalfe, L.L. (298) 313)

Fluo-3

Adenosine; Ca²⁺, cytosolic; Ca²⁺ domain; Cardioprotection; Heart (Jovanovic, A. (298) 63)

Formalin test

Caffeine; Stimulus intensity; 8-Cyclopentyltheophylline; 3,7-Dimethyl-1-propargylxanthine (Sawynok, J. (298) 105)

N-Formyl-Met-Leu-Phe

tBuBHQ (2,5-di-(tert-butyl)-1,4-benzohydroquinone); Phorbol ester; Superoxide anion; Ca²⁺; BAPTA/AM (*O,O'*-bis(2-aminophenyl)ethylene-glycol-*N,N,N',N'*-tetraacetic acid, tetraacetoxymethyl ester) (Tsukii, K. (298) 87)

Free radical

α -Tocopherol analog (water-soluble); Neuroprotection; Lipid peroxidation; Antioxidant; Vitamin E; Malondialdehyde; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Free radical scavenger

Cerebral ischemia/reperfusion; Spin trapping; ESR (electron spin resonance); Antioxidant (Cowley, D.J. (298) 227)

GABA_A receptor

Benzodiazepine; Flunitrazepam; Ro 15-4513; Hydroxylamine (Duncalfe, L.L. (298) 313)

Gastric lesion, ethanol-induced

Benzodiazepine; Unilateral vagotomy; (Rat) (Khadour, F. (298) 271)

[³H]GBR 12935 binding

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GH3 cell

Pregnenolone sulfate; Steroid; Ca²⁺; Pituitary (Büküşoğlu, C. (298) 79)

Glibenclamide

Sulphonylurea; Tolbutamide; Pancreatic B-cell; Insulin release; Stimulus-secretion coupling; Ca²⁺, cytoplasmic; K⁺ channel, ATP-sensitive; Islet, mouse (Garcia-Barrado, M.-J. (298) 279)

Glucose

Insulin; Pancreatic islet, blood flow; Blood pressure; β -Adrenoceptor (Atef, N. (298) 287)

cGMP

Ca²⁺ store; Ryanodine; Heparin; Thapsigargin; Ruthenium red (Duridanova, D.B. (298) 159)

G-protein

W-7 (*N*-(6-aminohexyl)-5-chloro-1-naphthalenesulfonamide); ML-7 (1-(5-iodonaphthalene-1-sulfonyl)-1*H*-hexahydro-1,4-diazepine); Thromboxane A₂; Phosphoinositide hydrolysis; Ca²⁺ (Ohkubo, S. (298) 175)

[³H]GR 113808

5-HT₄ receptor; Radioligand binding; Desensitization (Ansanay, H. (298) 165)

Grooming

Cholecystokinin; Dopamine; Dopamine D₁ receptor; Vacuous chewing movement; (Rat) (Van Kampen, J. (298) 7)

Heart

Adenosine; Ca²⁺, cytosolic; Ca²⁺ domain; Cardioprotection; Fluo-3 (Jovanovic, A. (298) 63)

Heart failure

MCI-154 (6-[4-(4-pyridylamino)phenyl]-4,5-dihydro-3-(2*H*)-pyridazinone); Ventricular arrhythmia; Ca²⁺ current (Eto, K. (298) 247)

Heparin

Ca²⁺ store; Ryanodine; Thapsigargin; Ruthenium red; cGMP (Duridanova, D.B. (298) 159)

Hippocampus

Ryanodine receptor; Synaptosome; Ca²⁺, intracellular; Subcellular localization (Padua, R.A. (298) 185)

Histamine

Adenosine A₃ receptor; Hypotension; Mast cell; APNEA (*N*⁶-2-(4-aminophenyl)ethyladenosine); Compound 48/80 (Fozard, J.R. (298) 293)

Histamine release

cis-Platinum (II) phosphonate complex; Cisplatin; Murine mast cell (Brzezińska-Błaszczyk, E. (298) 155)

Hoe 140

Spider venom; Ca²⁺ channel blocker; K⁺ channel blocker; Endothelin-1; Nitric oxide (NO) (Costa, S.K.P. (298) 113)

HOE140

Bradykinin; Ketotifen; Bradykinin receptor; Mast cell; Vascular permeability (Morishita, M. (298) 149)

5-HT (5-hydroxytryptamine, serotonin)

Dopamine; Desensitization; Striatum; Protein kinase A; Protein kinase C; (Rat) (West, A.R. (298) 241)

5-HT receptor

Intestinal; Secretion; Short-circuit current; cAMP (Budhoo, M.R. (298) 137)

5-HT₃ receptor

Binding thermodynamics; Agonist and antagonist discrimination; Thermodynamic compensation (Borea, P.A. (298) 329)

5-HT₄ receptor

[³H]GR 113808; Radioligand binding; Desensitization (Ansanay, H. (298) 165)

Hydroxylamine

GABA_A receptor; Benzodiazepine; Flunitrazepam; Ro 15-4513 (Duncalfe, L.L. (298) 313)

Hypotension

Adenosine A₃ receptor; Mast cell; Histamine; APNEA (*N*⁶-2-(4-aminophenyl)ethyladenosine); Compound 48/80 (Fozard, J.R. (298) 293)

Ifenprodil

Pain; Analgesia; Polyamine; NMDA receptor; Morphine; Naloxone; α -MSH (α -melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

Insulin

Glucose; Pancreatic islet, blood flow; Blood pressure; β -Adrenoceptor (Atef, N. (298) 287)

Insulin release

Sulphonylurea; Tolbutamide; Glibenclamide; Pancreatic B-cell; Stimulus-secretion coupling; Ca²⁺, cytoplasmic; K⁺ channel, ATP-sensitive; Islet, mouse (Garcia-Barrado, M.-J. (298) 279)

Intestinal

Secretion; 5-HT receptor; Short-circuit current; cAMP (Budhoo, M.R. (298) 137)

Inverse agonist

β -CCE (ethyl β -carboline-3-carboxylate); Benzodiazepine receptor; Down-regulation; Primary cultured neuron (Katsura, M. (298) 71)

1,4,5-IP₃-sensitive Ca²⁺ store

Diabetic pancreas; Ca²⁺ mobilization; Ca²⁺ refilling; Muscarinic receptor (Komabayashi, T. (298) 299)

Ischemia

Myocardial infarction; Remodeling; Metabolism; Captopril (Kalkman, E.A.J. (298) 121)

Islet, mouse

Sulphonylurea; Tolbutamide; Glibenclamide; Pancreatic B-cell; Insulin release; Stimulus-secretion coupling; Ca²⁺, cytoplasmic; K⁺ channel, ATP-sensitive (Garcia-Barrado, M.-J. (298) 279)

3-Isobutyl-methylxanthine

Mucus secretion; Trachea; Theophylline; 8-Phenyltheophylline; Enpropylline; Motapizone; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

Jaw opening reflex

NK433; Tonic vibration reflex; Tonic periodontal masseteric reflex (Ozawa, Y. (298) 57)

Jumping

Nicotine; Morphine; Naloxone; Acetylcholine receptor antagonist; (Mouse) (Zarrindast, M.-R. (298) 1)

K⁺ channel, ATP-sensitive

Sulphonylurea; Tolbutamide; Glibenclamide; Pancreatic B-cell; Insulin release; Stimulus-secretion coupling; Ca²⁺, cytoplasmic; Islet, mouse (García-Barrado, M.-J. (298) 279)

K⁺ channel blocker

Spider venom; Ca²⁺ channel blocker; Endothelin-1; Nitric oxide (NO); Hoe 140 (Costa, S.K.P. (298) 113)

Ketotifen

Bradykinin; HOE140; Bradykinin receptor; Mast cell; Vascular permeability (Morishita, M. (298) 149)

Learning

α -Linolenic acid deficiency, dietary; Morris water maze; Morphine effect; (Mouse) (Francès, H. (298) 217)

Levorphanol

Antinociception; Respiratory depression; Opioid receptor; Naloxonazine; Quadazocine; (*Macaca mulatta*) (Gatch, M.B. (298) 31)

 α -Linolenic acid deficiency, dietary

Morris water maze; Learning; Morphine effect; (Mouse) (Francès, H. (298) 217)

Linopirdine

DuP 996; Brain; Membrane binding; Species difference (Höfner, G. (298) 307)

Lipid peroxidation

α -Tocopherol analog (water-soluble); Neuroprotection; Antioxidant; Vitamin E; Malondialdehyde; Free radical; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Low-density lipoprotein, oxidized

Nitric oxide (NO); Prostaglandin; Macrophage; Atherosclerosis (Matthys, K.E. (298) 97)

Macrophage

Low-density lipoprotein, oxidized; Nitric oxide (NO); Prostaglandin; Atherosclerosis (Matthys, K.E. (298) 97)

Malondialdehyde

α -Tocopherol analog (water-soluble); Neuroprotection; Lipid peroxidation; Antioxidant; Vitamin E; Free radical; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Mast cell

Bradykinin; HOE140; Ketotifen; Bradykinin receptor; Vascular permeability (Morishita, M. (298) 149)

Adenosine A₃ receptor; Hypotension; Histamine; APNEA (*N*⁶-2-(4-aminophenyl)ethyladenosine); Compound 48/80 (Fozard, J.R. (298) 293)

MCI-154 (6-[4-(4-pyridylamino)phenyl]-4,5-dihydro-3-(2*H*)-pyridazinone)

Ventricular arrhythmia; Heart failure; Ca²⁺ current (Eto, K. (298) 247)

Membrane binding

Linopirdine; DuP 996; Brain; Species difference (Höfner, G. (298) 307)

Metabolism

Myocardial infarction; Remodeling; Ischemia; Captopril (Kalkman, E.A.J. (298) 121)

ML-7 (1-(5-iodonaphthalene-1-sulfonyl)-1*H*-hexahydro-1,4-diazepine)

W-7 (*N*-(6-aminohexyl)-5-chloro-1-naphthalenesulfonamide); Thromboxane A₂; G-protein; Phosphoinositide hydrolysis; Ca²⁺ (Ohkubo, S. (298) 175)

Morphine

Nicotine; Naloxone; Acetylcholine receptor antagonist; Jumping; (Mouse) (Zarrindast, M.-R. (298) 1)

Pain; Analgesia; Polyamine; NMDA receptor; Ifenprodil; Naloxone; α -MSH (α -melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

Morphine effect

α -Linolenic acid deficiency, dietary; Morris water maze; Learning; (Mouse) (Francès, H. (298) 217)

Morris water maze

α -Linolenic acid deficiency, dietary; Learning; Morphine effect; (Mouse) (Francès, H. (298) 217)

Motapizone

Mucus secretion; Trachea; Theophylline; 8-Phenyltheophylline; Enprofylline; 3-Isobutyl-methylxanthine; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

 α -MSH (α -melanocyte-stimulating hormone)

Pain; Analgesia; Polyamine; NMDA receptor; Ifenprodil; Morphine; Naloxone (Bernardi, M. (298) 51)

Mucus secretion

Trachea; Theophylline; 8-Phenyltheophylline; Enprofylline; 3-Isobutyl-methylxanthine; Motapizone; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

Murine mast cell

cis-Platinum (II) phosphonate complex; Cisplatin; Histamine release (Brzezińska-Błaszczak, E. (298) 155)

Muscarinic receptor

Diabetic pancreas; Ca²⁺ mobilization; 1,4,5-IP₃-sensitive Ca²⁺ store; Ca²⁺ refilling (Komabayashi, T. (298) 299)

Myocardial infarction

Quality of life; Anxiety; Exploration; Social behavior; (Rat) (Schoemaker, R.G. (298) 17)

Remodeling; Ischemia; Metabolism; Captopril (Kalkman, E.A.J. (298) 121)

Naloxonazine

Antinociception; Respiratory depression; Opioid receptor; Levorphanol; Quadazocine; (*Macaca mulatta*) (Gatch, M.B. (298) 31)

Naloxone

Nicotine; Morphine; Acetylcholine receptor antagonist; Jumping; (Mouse) (Zarrindast, M.-R. (298) 1)

Pain; Analgesia; Polyamine; NMDA receptor; Ifenprodil; Morphine; α -MSH (α -melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

Naltrindole

Cocaine; Enkephalin; δ -Opioid receptor; Sensitization (Heidbreder, C. (298) 207)

Neurogenic inflammation

Angiogenesis; Basement membrane; Tachykinin; Wound healing (Wiedermann, C.J. (298) 335)

Neuroleptic

[³H]Resiniferatoxin; Vanilloid receptor; Capsazepine; Cooperative binding (Szallasi, A. (298) 321)

Neuropeptide

Analgesia; μ -Opioid receptor; Spinal cord; Desipramine; α_2 -Adrenoceptor (Gergen, K.A. (298) 235)

Neuroprotection

α -Tocopherol analog (water-soluble); Lipid peroxidation; Antioxidant; Vitamin E; Malondialdehyde; Free radical; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Nicotine

Morphine; Naloxone; Acetylcholine receptor antagonist; Jumping; (Mouse) (Zarrindast, M.-R. (298) 1)

Nitric oxide (NO)

Low-density lipoprotein, oxidized; Prostaglandin; Macrophage; Atherosclerosis (Matthys, K.E. (298) 97)

Spider venom; Ca^{2+} channel blocker; K^+ channel blocker; Endothelin-1; Hoe 140 (Costa, S.K.P. (298) 113)

Acetylcholine; PAF (platelet-activating factor); EDHF (endothelium-derived hyperpolarizing factor) (Kamata, K. (298) 129)

Trachea; Smooth muscle relaxation; Endothelin; Charybdotoxin; (Guinea-pig) (Hadj-Kaddour, K. (298) 145)

NK433

Tonic vibration reflex; Tonic periodontal masseteric reflex; Jaw opening reflex (Ozawa, Y. (298) 57)

NMDA receptor

Pain; Analgesia; Polyamine; Ifenprodil; Morphine; Naloxone; α -MSH (α -melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

Opioid

Adenosine; Spinal cord; Synergy (Cahill, C.M. (298) 45)

Opioid receptor

Antinociception; Respiratory depression; Naloxonazine; Levorphanol; Quadazocine; (*Macaca mulatta*) (Gatch, M.B. (298) 31)

 δ -Opioid receptor

Cocaine; Enkephalin; Naltrindole; Sensitization (Heidbreder, C. (298) 207)

 μ -Opioid receptor

Analgesia; Spinal cord; Desipramine; α_2 -Adrenoceptor; Neuropeptide (Gergen, K.A. (298) 235)

Osthole

DNA synthesis; Cell cycle; Smooth muscle cell, rat, vascular; (*Angelica pubescens*) (Guh, J.-H. (298) 191)

Otilonium

Chromaffin cell; Ca^{2+} channel; Adrenal gland; Catecholamine release (Gandía, L. (298) 199)

PAF (platelet-activating factor)

Acetylcholine; Nitric oxide (NO); EDHF (endothelium-derived hyperpolarizing factor) (Kamata, K. (298) 129)

Pain

Analgesia; Polyamine; NMDA receptor; Ifenprodil; Morphine; Naloxone; α -MSH (α -melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

Pancreatic B-cell

Sulphonylurea; Tolbutamide; Glibenclamide; Insulin release; Stimulus-secretion coupling; Ca^{2+} , cytoplasmic; K^+ channel, ATP-sensitive; Islet, mouse (García-Barrado, M.-J. (298) 279)

Pancreatic islet, blood flow

Glucose; Insulin; Blood pressure; β -Adrenoceptor (Atef, N. (298) 287)

8-Phenyltheophylline

Mucus secretion; Trachea; Theophylline; Enprofylline; 3-Isobutyl-methylxanthine; Motapizone; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

Phorbol ester

tBuBHQ (2,5-di-(tert-butyl)-1,4-benzohydroquinone); *N*-Formyl-Met-Leu-Phe; Superoxide anion; Ca^{2+} ; BAPTA/AM (*O,O'*-bis(2-aminophenyl)ethyleneglycol-*N,N,N',N'*-tetraacetic acid, tetraacetoxymethyl ester) (Tsukii, K. (298) 87)

Phosphoinositide hydrolysis

W-7 (*N*-(6-aminoethyl)-5-chloro-1-naphthalenesulfonamide); ML-7 (1-(5-iodonaphthalene-1-sulfonyl)-1-*H*-hexahydro-1,4-diazepine); Thromboxane A_2 ; G-protein; Ca^{2+} (Ohkubo, S. (298) 175)

Pituitary

Pregnenolone sulfate; Steroid; Ca^{2+} ; GH3 cell (Büküşoğlu, C. (298) 79)

cis-Platinum (II) phosphonate complex

Cisplatin; Murine mast cell; Histamine release (Brzezińska-Błaszczak, E. (298) 155)

Polyamine

Pain; Analgesia; NMDA receptor; Ifenprodil; Morphine; Naloxone; α -MSH (α -melanocyte-stimulating hormone) (Bernardi, M. (298) 51)

Pregnenolone sulfate

Steroid; Ca^{2+} ; GH3 cell; Pituitary (Büküşoğlu, C. (298) 79)

Primary cultured neuron

β -CCE (ethyl β -carboline-3-carboxylate); Benzodiazepine receptor; Down-regulation; Inverse agonist (Katsura, M. (298) 71)

Prostaglandin

Low-density lipoprotein, oxidized; Nitric oxide (NO); Macrophage; Atherosclerosis (Matthys, K.E. (298) 97)

Protein kinase A

Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Desensitization; Striatum; Protein kinase C; (Rat) (West, A.R. (298) 241)

Protein kinase C

Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Desensitization; Striatum; Protein kinase A; (Rat) (West, A.R. (298) 241)

Quadazocine

Antinociception; Respiratory depression; Opioid receptor; Naloxonazine; Levorphanol; (*Macaca mulatta*) (Gatch, M.B. (298) 31)

Quality of life

Myocardial infarction; Anxiety; Exploration; Social behavior; (Rat) (Schoemaker, R.G. (298) 17)

Radioligand binding

5-HT₄ receptor; [³H]GR 113808; Desensitization (Ansanay, H. (298) 165)

Remodeling

Myocardial infarction; Ischemia; Metabolism; Captopril (Kalkman, E.A.J. (298) 121)

Reserpine

Dopamine transporter; [³H]GBR 12935 binding; L-DOPA; Amantadine; Bzotroprine (Gordon, I. (298) 27)

[³H]Resiniferatoxin

Vanilloid receptor; Capsazepine; Neuroleptic; Cooperative binding (Szalasi, A. (298) 321)

Respiratory depression

Antinociception; Opioid receptor; Naloxonazine; Levorphanol; Quada-zocine; (*Macaca mulatta*) (Gatch, M.B. (298) 31)

Ro 15-4513

GABA_A receptor; Benzodiazepine; Flunitrazepam; Hydroxylamine (Dun-calfe, L.L. (298) 313)

Rolipram

Mucus secretion; Trachea; Theophylline; 8-Phenyltheophylline; Enpro-phylline; 3-Isobutyl-methylxanthine; Motapizone; Zaprinast; Zardaverine (Wagner, U. (298) 265)

Ruthenium red

Ca²⁺ store; Ryanodine; Heparin; Thapsigargin; cGMP (Duridanova, D.B. (298) 159)

Ryanodine

Ca²⁺ store; Heparin; Thapsigargin; Ruthenium red; cGMP (Duridanova, D.B. (298) 159)

Ryanodine receptor

Synaptosome; Hippocampus; Ca²⁺, intracellular; Subcellular localization (Padua, R.A. (298) 185)

Secretion

Intestinal; 5-HT receptor; Short-circuit current; cAMP (Budhoo, M.R. (298) 137)

Sensitization

Cocaine; Enkephalin; δ -Opioid receptor; Naltrindole (Heidbreder, C. (298) 207)

Short-circuit current

Intestinal; Secretion; 5-HT receptor; cAMP (Budhoo, M.R. (298) 137)

Smooth muscle cell, rat, vascular

DNA synthesis; Cell cycle; Osthole; (*Angelica pubescens*) (Guh, J.-H. (298) 191)

Smooth muscle relaxation

Trachea; Endothelin; Charybdotoxin; Nitric oxide (NO); (Guinea-pig) (Hadj-Kaddour, K. (298) 145)

Social behavior

Myocardial infarction; Quality of life; Anxiety; Exploration; (Rat) (Schoemaker, R.G. (298) 17)

Species difference

Linopirdine; DuP 996; Brain; Membrane binding (Höfner, G. (298) 307)

Spider venom

Ca²⁺ channel blocker; K⁺ channel blocker; Endothelin-1; Nitric oxide (NO); Hoe 140 (Costa, S.K.P. (298) 113)

Spinal cord

Adenosine; Opioid; Synergy (Cahill, C.M. (298) 45)

Analgesia; μ -Opioid receptor; Desipramine; α_2 -Adrenoceptor; Neuropep-tide (Gergen, K.A. (298) 235)

Spin trapping

Cerebral ischemia/reperfusion; ESR (electron spin resonance); Antioxi-dant; Free radical scavenger (Cowley, D.J. (298) 227)

Spontaneously hypertensive rat (SHR)

α_{1D} -Adrenoceptor; α_{1A} -Adrenoceptor; BMV 7378; Artery; Wistar Kyoto rat (WKY) (Villalobos-Molina, R. (298) 257)

Steroid

Pregnenolone sulfate; Ca²⁺; GH3 cell; Pituitary (Büküşoğlu, C. (298) 79)

Stimulus intensity

Formalin test; Caffeine; 8-Cyclopentyltheophylline; 3,7-Dimethyl-1-pro-pargylxanthine (Sawynok, J. (298) 105)

Stimulus-secretion coupling

Sulphonylurea; Tolbutamide; Glibenclamide; Pancreatic B-cell; Insulin release; Ca²⁺, cytoplasmic; K⁺ channel, ATP-sensitive; Islet, mouse (Garcia-Barrado, M.-J. (298) 279)

Striatum

Dopamine; 5-HT (5-hydroxytryptamine, serotonin); Desensitization; Pro-tein kinase A; Protein kinase C; (Rat) (West, A.R. (298) 241)

Subcellular localization

Ryanodine receptor; Synaptosome; Hippocampus; Ca²⁺, intracellular (Padua, R.A. (298) 185)

Sulphonylurea

Tolbutamide; Glibenclamide; Pancreatic B-cell; Insulin release; Stimulus-secretion coupling; Ca²⁺, cytoplasmic; K⁺ channel, ATP-sensi-tive; Islet, mouse (Garcia-Barrado, M.-J. (298) 279)

Superoxide anion

tBuBHQ (2,5-di-(tert-butyl)-1,4-benzohydroquinone); *N*-Formyl-Met-Leu-Phe; Phorbol ester; Ca²⁺; BAPTA/AM (*O,O'*-bis(2-aminophenyl)-ethyleneglycol-*N,N,N',N'*-tetraacetic acid, tetraacetoxymethyl ester) (Tsukii, K. (298) 87)

Synaptosome

Ryanodine receptor; Hippocampus; Ca²⁺, intracellular; Subcellular local-ization (Padua, R.A. (298) 185)

Synergy

Adenosine; Opioid; Spinal cord (Cahill, C.M. (298) 45)

Tachykinin

Angiogenesis; Basement membrane; Neurogenic inflammation; Wound healing (Wiedermann, C.J. (298) 335)

Thapsigargin

Ca²⁺ store; Ryanodine; Heparin; Ruthenium red; cGMP (Duridanova, D.B. (298) 159)

Theophylline

Mucus secretion; Trachea; 8-Phenyltheophylline; Enprofylline; 3-Isobutyl-methylxanthine; Motapizone; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

Thermodynamic compensation

5-HT₃ receptor; Binding thermodynamics; Agonist and antagonist discrimination (Borea, P.A. (298) 329)

Thromboxane A₂

W-7 (*N*-(6-aminohexyl)-5-chloro-1-naphthalenesulfonamide); ML-7 (1-(5-iodonaphthalene-1-sulfonyl)-1*H*-hexahydro-1,4-diazepine); G-protein; Phosphoinositide hydrolysis; Ca²⁺ (Ohkubo, S. (298) 175)

α-Tocopherol analog (water-soluble)

Neuroprotection; Lipid peroxidation; Antioxidant; Vitamin E; Malondialdehyde; Free radical; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Tolbutamide

Sulphonylurea; Glibenclamide; Pancreatic B-cell; Insulin release; Stimulus-secretion coupling; Ca²⁺, cytoplasmic; K⁺ channel, ATP-sensitive; Islet, mouse (Garcia-Barrado, M.-J. (298) 279)

Tonic periodontal masseteric reflex

NK433; Tonic vibration reflex; Jaw opening reflex (Ozawa, Y. (298) 57)

Tonic vibration reflex

NK433; Tonic periodontal masseteric reflex; Jaw opening reflex (Ozawa, Y. (298) 57)

Trachea

Smooth muscle relaxation; Endothelin; Charybdotoxin; Nitric oxide (NO); (Guinea-pig) (Hadj-Kaddour, K. (298) 145)

Mucus secretion; Theophylline; 8-Phenyltheophylline; Enprofylline; 3-Isobutyl-methylxanthine; Motapizone; Rolipram; Zaprinast; Zardaverine (Wagner, U. (298) 265)

Unilateral vagotomy

Gastric lesion, ethanol-induced; Benzodiazepine; (Rat) (Khadour, F. (298) 271)

Vacuous chewing movement

Cholecystokinin; Dopamine; Dopamine D₁ receptor; Grooming; (Rat) (Van Kampen, J. (298) 7)

Vanilloid receptor

[³H]Resiniferatoxin; Capsazepine; Neuroleptic; Cooperative binding (Szallasi, A. (298) 321)

Vascular permeability

Bradykinin; HOE140; Ketotifen; Bradykinin receptor; Mast cell (Morishita, M. (298) 149)

Ventricular arrhythmia

MCI-154 (6-[4-(4-pyridylamino)phenyl]-4,5-dihydro-3-(2*H*)-pyridazinone); Heart failure; Ca²⁺ current (Eto, K. (298) 247)

Vitamin E

α-Tocopherol analog (water-soluble); Neuroprotection; Lipid peroxidation; Antioxidant; Malondialdehyde; Free radical; Cyclic voltammetry (Bolkenius, F.N. (298) 37)

Wistar Kyoto rat (WKY)

α_{1D}-Adrenoceptor; α_{1A}-Adrenoceptor; BMY 7378; Spontaneously hypertensive rat (SHR); Artery (Villalobos-Molina, R. (298) 257)

W-7 (*N*-(6-aminohexyl)-5-chloro-1-naphthalenesulfonamide)

ML-7 (1-(5-iodonaphthalene-1-sulfonyl)-1*H*-hexahydro-1,4-diazepine); Thromboxane A₂; G-protein; Phosphoinositide hydrolysis; Ca²⁺ (Ohkubo, S. (298) 175)

Wound healing

Angiogenesis; Basement membrane; Neurogenic inflammation; Tachykinin (Wiedermann, C.J. (298) 335)

Zaprinast

Mucus secretion; Trachea; Theophylline; 8-Phenyltheophylline; Enprofylline; 3-Isobutyl-methylxanthine; Motapizone; Rolipram; Zardaverine (Wagner, U. (298) 265)

Zardaverine

Mucus secretion; Trachea; Theophylline; 8-Phenyltheophylline; Enprofylline; 3-Isobutyl-methylxanthine; Motapizone; Rolipram; Zaprinast (Wagner, U. (298) 265)