

Keyword index

A20

Influenza virus; NF- κ B; Bronchial epithelium; Inflammation (Onose, A. (541) 198)

Acute phase protein

Protective effect; Liver injury; Interleukin-6; ME3738 (Kuzuhara, H. (541) 205)

Adrenal medulla

Histamine; Cyclooxygenase-1; Thromboxane A₂; Catecholamines (Shimizu, T. (541) 152)

α_2 -adrenoceptors

Heart; Perfusion; Moxonidine; Atrial natriuretic peptide; Imidazoline receptors (Mukaddam-Daher, S. (541) 73)

Adriamycin

Calceolarioside; Apoptosis; Reactive oxygen species (Kim, D.-S. (541) 24)

Allodynia

Progesterone receptor; Neuropathic pain; Estrogen receptor; Hyperalgesia; Nociception (Kondo, D. (541) 44)

Amantadine

Ammonium ion; Bicarbonate; Kidney; Organic cation transport (Goralski, K.B. (541) 87)

Ammonium ion

Amantadine; Bicarbonate; Kidney; Organic cation transport (Goralski, K.B. (541) 87)

Analgesia

Hot-plate; Inflammation; Nociception; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

Antiepileptic drug

Kynurenic acid; Kynurenine aminotransferase; Epilepsy; In vitro; Brain (Kocki, T. (541) 147)

Anti-inflammatory effect

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage (Chen, T.-H. (541) 138)

Antioxidative effects

Lornoxicam; Nitroglycerin; Oxidative stress; Side effects (Sen, S. (541) 191)

2-APB

Signal transduction; Cell signaling; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Apoptosis

Carboxymethyl-chitosan; Chondrocyte; Mitochondrion; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Calceolarioside; Adriamycin; Reactive oxygen species (Kim, D.-S. (541) 24)

Apoptotic cell death

Tricyclic antidepressant; HT29 colorectal tumor cell; Non-mitochondrial pathway; Cell-cycle arrest (Arimochi, H. (541) 17)

Atrial natriuretic peptide

Heart; Perfusion; Moxonidine; Imidazoline receptors; α_2 -adrenoceptors (Mukaddam-Daher, S. (541) 73)

Atypical absence seizure

GABA_B receptor; CGP35348; Cognitive deficit; Radial arm maze (Chan, K.F.Y. (541) 64)

Behavioral sensitization

Cocaine; GABA neurotransmission; Locomotor activation; (Rat) (Filip, M. (541) 163)

Bicarbonate

Amantadine; Ammonium ion; Kidney; Organic cation transport (Goralski, K.B. (541) 87)

Blood pressure

Ranolazine; Long-acting nitrate; Sildenafil; Heart rate; Conscious dog (Zhao, G. (541) 171)

Brain

Kynurenic acid; Kynurenine aminotransferase; Antiepileptic drug; Epilepsy; In vitro (Kocki, T. (541) 147)

Bronchial epithelium

A20; Influenza virus; NF- κ B; Inflammation (Onose, A. (541) 198)

Calceolarioside

Adriamycin; Apoptosis; Reactive oxygen species (Kim, D.-S. (541) 24)

Calcium channel blocker

2-APB; Signal transduction; Cell signaling; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Carboxymethyl-chitosan

Chondrocyte; Apoptosis; Mitochondrion; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Catecholamines

Histamine; Cyclooxygenase-1; Thromboxane A₂; Adrenal medulla (Shimizu, T. (541) 152)

Cell proliferation

Iron chelation; Human hepatocyte; Polyamine metabolism (Chantrel-Groussard, K. (541) 129)

Cell signaling

2-APB; Signal transduction; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Cell-cycle arrest

Tricyclic antidepressant; HT29 colorectal tumor cell; Apoptotic cell death; Non-mitochondrial pathway (Arimochi, H. (541) 17)

CGP35348

GABA_B receptor; Atypical absence seizure; Cognitive deficit; Radial arm maze (Chan, K.F.Y. (541) 64)

Chondrocyte

Carboxymethyl-chitosan; Apoptosis; Mitochondrion; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Cocaine

GABA neurotransmission; Locomotor activation; Behavioral sensitization; (Rat) (Filip, M. (541) 163)

Cognitive deficit

GABA_B receptor; CGP35348; Atypical absence seizure; Radial arm maze (Chan, K.F.Y. (541) 64)

Conscious dog

Ranolazine; Long-acting nitrate; Sildenafil; Blood pressure; Heart rate (Zhao, G. (541) 171)

Contraction

2-APB; Signal transduction; Cell signaling; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation (Ratz, P.H. (541) 177)

Corpus cavernosum

Sildenafil; Tadalafil; Vardenafil; Signal transduction (Lau, L.-C. (541) 184)

CP 94253

5-HT_{1B} receptor; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; Pentylentetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

Cyclooxygenase

Diabetes; L-NAME; Kidney; (Rat) (Chen, Y.-J. (541) 80)

Cyclooxygenase-1

Histamine; Thromboxane A₂; Catecholamines; Adrenal medulla (Shimizu, T. (541) 152)

Cyclooxygenase-2

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Diabetes

Cyclooxygenase; L-NAME; Kidney; (Rat) (Chen, Y.-J. (541) 80)

(–)-Epigallocatechin-3-gallate

Oxygen free radical; Streptozotocin; Glucose; Insulin (Yun, S.-Y. (541) 115)

Epilepsy

Kynurenic acid; Kynurenine aminotransferase; Antiepileptic drug; In vitro; Brain (Kocki, T. (541) 147)

Estrogen receptor

Progesterone receptor; Neuropathic pain; Allodynia; Hyperalgesia; Nociception (Kondo, D. (541) 44)

Fentanyl

Histamine H₃ receptor agonist; Nociception; Plasma extravasation; Synergy (Poveda, R. (541) 53)

Fura-2

2-APB; Signal transduction; Cell signaling; Calcium channel blocker; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

GABA neurotransmission

Cocaine; Locomotor activation; Behavioral sensitization; (Rat) (Filip, M. (541) 163)

GABA_B receptor

CGP35348; Atypical absence seizure; Cognitive deficit; Radial arm maze (Chan, K.F.Y. (541) 64)

Glucose

(–)-Epigallocatechin-3-gallate; Oxygen free radical; Streptozotocin; Insulin (Yun, S.-Y. (541) 115)

Heart

Perfusion; Moxonidine; Atrial natriuretic peptide; Imidazoline receptors; α₂-adrenoceptors (Mukaddam-Daher, S. (541) 73)

Heart rate

Ranolazine; Long-acting nitrate; Sildenafil; Blood pressure; Conscious dog (Zhao, G. (541) 171)

Heat-loss

Polymyxin B; Hypothermia; Metabolic rate (Moriyama, N. (541) 38)

Histamine

Cyclooxygenase-1; Thromboxane A₂; Catecholamines; Adrenal medulla (Shimizu, T. (541) 152)

Histamine H₃ receptor agonist

Fentanyl; Nociception; Plasma extravasation; Synergy (Poveda, R. (541) 53)

Hot-plate

Analgesia; Inflammation; Nociception; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

5-HT_{1B} receptor

CP 94253; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; Pentylentetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

HT29 colorectal tumor cell

Tricyclic antidepressant; Apoptotic cell death; Non-mitochondrial pathway; Cell-cycle arrest (Arimochi, H. (541) 17)

(Human)

Voltage-gated Na⁺ channel; α subunit; β subunit; mRNA expression; Peripheral tissue (Candenas, L. (541) 9)

Human gingival fibroblast

Protein kinase B; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Human hepatocyte

Iron chelation; Cell proliferation; Polyamine metabolism (Chantrel-Groussard, K. (541) 129)

Hyperalgesia

Progesterone receptor; Neuropathic pain; Estrogen receptor; Allodynia; Nociception (Kondo, D. (541) 44)

Hypothermia

Polymyxin B; Metabolic rate; Heat-loss (Moriyama, N. (541) 38)

Imidazoline receptors

Heart; Perfusion; Moxonidine; Atrial natriuretic peptide; α_2 -adrenoceptors (Mukaddam-Daher, S. (541) 73)

In vitro

Kynurenic acid; Kynurenine aminotransferase; Antiepileptic drug; Epilepsy; Brain (Kocki, T. (541) 147)

Inflammation

Analgesia; Hot-plate; Nociception; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

A20; Influenza virus; NF- κ B; Bronchial epithelium (Onose, A. (541) 198)

Influenza virus

A20; NF- κ B; Bronchial epithelium; Inflammation (Onose, A. (541) 198)

Insulin

(–)-Epigallocatechin-3-gallate; Oxygen free radical; Streptozotocin; Glucose (Yun, S.-Y. (541) 115)

Interleukin-2

Phosphodiesterase 7A; Phosphodiesterase 4; Tumor necrosis factor- α ; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Interleukin-6

Protective effect; Acute phase protein; Liver injury; ME3738 (Kuzuhara, H. (541) 205)

Iron chelation

Human hepatocyte; Cell proliferation; Polyamine metabolism (Chantrel-Groussard, K. (541) 129)

Kidney

Diabetes; Cyclooxygenase; L-NAME; (Rat) (Chen, Y.-J. (541) 80)

Amantadine; Ammonium ion; Bicarbonate; Organic cation transport (Goralski, K.B. (541) 87)

Kynurenic acid

Kynurenine aminotransferase; Antiepileptic drug; Epilepsy; In vitro; Brain (Kocki, T. (541) 147)

Kynurenine aminotransferase

Kynurenic acid; Antiepileptic drug; Epilepsy; In vitro; Brain (Kocki, T. (541) 147)

L-DOPA

Tetrahydrobiopterin; Nitric oxide (Abreu-González, P. (541) 33)

Lipopolysaccharide

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Liver injury

Protective effect; Acute phase protein; Interleukin-6; ME3738 (Kuzuhara, H. (541) 205)

L-NAME

Diabetes; Cyclooxygenase; Kidney; (Rat) (Chen, Y.-J. (541) 80)

Locomotor activation

Cocaine; GABA neurotransmission; Behavioral sensitization; (Rat) (Filip, M. (541) 163)

Long-acting nitrate

Ranolazine; Sildenafil; Blood pressure; Heart rate; Conscious dog (Zhao, G. (541) 171)

Lornoxicam

Nitroglycerin; Oxidative stress; Antioxidative effects; Side effects (Sen, S. (541) 191)

Luteolin

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Maximal electroshock

5-HT_{1B} receptor; CP 94253; RU 24969; *p*-Chlorophenylalanine; Pentylene-tetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

ME3738

Protective effect; Acute phase protein; Liver injury; Interleukin-6 (Kuzuhara, H. (541) 205)

Metabolic rate

Polymyxin B; Hypothermia; Heat-loss (Moriyama, N. (541) 38)

(Mice)

5-HT_{1B} receptor; CP 94253; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; Pentylene-tetrazol-induced seizure (Wesołowska, A. (541) 57)

Mitochondrion

Carboxymethyl-chitosan; Chondrocyte; Apoptosis; Nitric oxide; Reactive oxygen species (Chen, Q. (541) 1)

Mitogen-activated kinase phosphatase-1

Lipopolysaccharide; Nitric oxide; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Mitogen-activated protein

Protein kinase B; Human gingival fibroblast; Lipopolysaccharide; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Moxonidine

Heart; Perfusion; Atrial natriuretic peptide; Imidazoline receptors; α_2 -adrenoceptors (Mukaddam-Daher, S. (541) 73)

mRNA expression

Voltage-gated Na⁺ channel; α subunit; β subunit; Peripheral tissue; (Human) (Candenas, L. (541) 9)

Myosin light chain phosphorylation

2-APB; Signal transduction; Cell signaling; Calcium channel blocker; Fura-2; Contraction (Ratz, P.H. (541) 177)

Neuropathic pain

Progesterone receptor; Estrogen receptor; Allodynia; Hyperalgesia; Nociception (Kondo, D. (541) 44)

NF- κ B

A20; Influenza virus; Bronchial epithelium; Inflammation (Onose, A. (541) 198)

Nitric oxide

Carboxymethyl-chitosan; Chondrocyte; Apoptosis; Mitochondrion; Reactive oxygen species (Chen, Q. (541) 1)

Tetrahydrobiopterin; L-DOPA (Abreu-González, P. (541) 33)

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Lipopolysaccharide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Nitric oxide synthase

Protein kinase B; Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide (Gutiérrez-Venegas, G. (541) 95)

Nitroglycerin

Lornoxicam; Oxidative stress; Antioxidative effects; Side effects (Sen, S. (541) 191)

Nociception

Progesterone receptor; Neuropathic pain; Estrogen receptor; Allodynia; Hyperalgesia (Kondo, D. (541) 44)

Analgesia; Hot-plate; Inflammation; Rho-kinase; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

Fentanyl; Histamine H₃ receptor agonist; Plasma extravasation; Synergy (Poveda, R. (541) 53)

Non-mitochondrial pathway

Tricyclic antidepressant; HT29 colorectal tumor cell; Apoptotic cell death; Cell-cycle arrest (Arimochi, H. (541) 17)

Organic cation transport

Amantadine; Ammonium ion; Bicarbonate; Kidney (Goralski, K.B. (541) 87)

Oxidative stress

Lornoxicam; Nitroglycerin; Antioxidative effects; Side effects (Sen, S. (541) 191)

Oxygen free radical

(–)-Epigallocatechin-3-gallate; Streptozotocin; Glucose; Insulin (Yun, S.-Y. (541) 115)

***p*-Chlorophenylalanine**

5-HT_{1B} receptor; CP 94253; RU 24969; Maximal electroshock; Pentylene-tetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

Pentylenetetrazol-induced seizure

5-HT_{1B} receptor; CP 94253; RU 24969; *p*-Chlorophenylalanine; Maximal electroshock; (Mice) (Wesołowska, A. (541) 57)

Perfusion

Heart; Moxonidine; Atrial natriuretic peptide; Imidazoline receptors; α_2 -adrenoceptors (Mukaddam-Daher, S. (541) 73)

Peripheral tissue

Voltage-gated Na⁺ channel; α subunit; β subunit; mRNA expression; (Human) (Candenas, L. (541) 9)

Phosphodiesterase 4

Phosphodiesterase 7A; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Phosphodiesterase 7A

Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Plasma extravasation

Fentanyl; Histamine H₃ receptor agonist; Nociception; Synergy (Poveda, R. (541) 53)

Polyamine metabolism

Iron chelation; Human hepatocyte; Cell proliferation (Chantrel-Groussard, K. (541) 129)

Polymyxin B

Hypothermia; Metabolic rate; Heat-loss (Moriyama, N. (541) 38)

Progesterone receptor

Neuropathic pain; Estrogen receptor; Allodynia; Hyperalgesia; Nociception (Kondo, D. (541) 44)

Protective effect

Acute phase protein; Liver injury; Interleukin-6; ME3738 (Kuzuhara, H. (541) 205)

Protein kinase B

Human gingival fibroblast; Mitogen-activated protein; Lipopolysaccharide; Luteolin; Nitric oxide; Nitric oxide synthase (Gutiérrez-Venegas, G. (541) 95)

Radial arm maze

GABA_B receptor; CGP35348; Atypical absence seizure; Cognitive deficit (Chan, K.F.Y. (541) 64)

Ranolazine

Long-acting nitrate; Sildenafil; Blood pressure; Heart rate; Conscious dog (Zhao, G. (541) 171)

(Rat)

Diabetes; Cyclooxygenase; L-NAME; Kidney (Chen, Y.-J. (541) 80)

Cocaine; GABA neurotransmission; Locomotor activation; Behavioral sensitization (Filip, M. (541) 163)

RAW 264.7 macrophage

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; Signal transduction; Anti-inflammatory effect (Chen, T.-H. (541) 138)

Reactive oxygen species

Carboxymethyl-chitosan; Chondrocyte; Apoptosis; Mitochondrion; Nitric oxide (Chen, Q. (541) 1)

Calceolarioside; Adriamycin; Apoptosis (Kim, D.-S. (541) 24)

Rho-kinase

Analgesia; Hot-plate; Inflammation; Nociception; Writhing; Y-27632 (Büyükaşar, K. (541) 49)

RU 24969

5-HT_{1B} receptor; CP 94253; *p*-Chlorophenylalanine; Maximal electroshock; Pentylenetetrazol-induced seizure; (Mice) (Wesołowska, A. (541) 57)

Side effects

Lornoxicam; Nitroglycerin; Oxidative stress; Antioxidative effects (Sen, S. (541) 191)

Signal transduction

Lipopolysaccharide; Nitric oxide; Mitogen-activated kinase phosphatase-1; Cyclooxygenase-2; RAW 264.7 macrophage; Anti-inflammatory effect (Chen, T.-H. (541) 138)

2-APB; Cell signaling; Calcium channel blocker; Fura-2; Myosin light chain phosphorylation; Contraction (Ratz, P.H. (541) 177)

Sildenafil; Tadalafil; Vardenafil; Corpus cavernosum (Lau, L.-C. (541) 184)

Sildenafil

Ranolazine; Long-acting nitrate; Blood pressure; Heart rate; Conscious dog (Zhao, G. (541) 171)

Tadalafil; Vardenafil; Corpus cavernosum; Signal transduction (Lau, L.-C. (541) 184)

Streptozotocin

(–)-Epigallocatechin-3-gallate; Oxygen free radical; Glucose; Insulin (Yun, S.-Y. (541) 115)

 α subunit

Voltage-gated Na⁺ channel; β subunit; mRNA expression; Peripheral tissue; (Human) (Candenas, L. (541) 9)

 β subunit

Voltage-gated Na⁺ channel; α subunit; mRNA expression; Peripheral tissue; (Human) (Candenas, L. (541) 9)

Synergy

Fentanyl; Histamine H₃ receptor agonist; Nociception; Plasma extravasation (Poveda, R. (541) 53)

T-cell

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; YM-393059; YM976 (Yamamoto, S. (541) 106)

Tadalafil

Sildenafil; Vardenafil; Corpus cavernosum; Signal transduction (Lau, L.-C. (541) 184)

Tetrahydrobiopterin

L-DOPA; Nitric oxide (Abreu-González, P. (541) 33)

Thromboxane A₂

Histamine; Cyclooxygenase-1; Catecholamines; Adrenal medulla (Shimizu, T. (541) 152)

Tricyclic antidepressant

HT29 colorectal tumor cell; Apoptotic cell death; Non-mitochondrial pathway; Cell-cycle arrest (Arimochi, H. (541) 17)

Tumor necrosis factor- α

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; T-cell; YM-393059; YM976 (Yamamoto, S. (541) 106)

Vardenafil

Sildenafil; Tadalafil; Corpus cavernosum; Signal transduction (Lau, L.-C. (541) 184)

Voltage-gated Na⁺ channel

α subunit; β subunit; mRNA expression; Peripheral tissue; (Human) (Candenas, L. (541) 9)

Writhing

Analgesia; Hot-plate; Inflammation; Nociception; Rho-kinase; Y-27632 (Büyükaşar, K. (541) 49)

Y-27632

Analgesia; Hot-plate; Inflammation; Nociception; Rho-kinase; Writhing (Büyükaşar, K. (541) 49)

YM-393059

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM976 (Yamamoto, S. (541) 106)

YM976

Phosphodiesterase 7A; Phosphodiesterase 4; Interleukin-2; Tumor necrosis factor- α ; T-cell; YM-393059 (Yamamoto, S. (541) 106)