



The 44th NIPS International Symposium
The 5th Asian Pain Symposium

Asian Pain Symposium 2013



December 18th-20th, 2013

Okazaki Conference Center(OCC)

Okazaki, Aichi, Japan

Oral Session

December 18 (Wed)

Session1

Chair; Koichi NOGUCHI (Hyogo College of Medicine)

S1-1 13:00-13:25

Takayuki NAKAGAWA (Department of Molecular Pharmacology, Graduate School of Pharmaceutical Sciences, Kyoto University, Japan)

Roles of TRPA1 in Oxaliplatin-Induced Acute Peripheral Neuropathy

S1-2 13:25-13:50

Kazue MIZUMURA (Department of Physical Therapy, College of Life and Health Sciences, Chubu University, Japan)

Muscle Pain and Neurotrophic Factors

S1-3 13:50-14:25

Lan BAO (Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China)

The trafficking regulation of Na_v1.8 in primary sensory neurons

Session2

Kazue MIZUMURA (Chubu University)

S2-1 14:45-15:10

Seiji ITO (Kansai Medical University, Japan)

Bifurcate roles of nitric oxide in neuropathic pain

S2-2 15:10-15:35

Koichi NOGUCHI (Hyogo College of Medicine, Department of Anatomy and Neuroscience, Japan)

Pronociceptive Lipid Mediators In Spinal Cord In Neuropathic Pain

S2-3 15:35-16:10

Seog Bae OH (Department of Neurobiology and Physiology, Seoul National University School of Dentistry, Korea)

Chronic Pain as an Intractable Neuroinflammatory Disease

Session3

Seiji ITO (Kansai Medical University)

S3-1 16:30-16:55

Makoto TOMINAGA (Okazaki Institute for Integrative Bioscience, Japan)

Molecular mechanisms of nociception through TRPA1 activation

S3-2 16:55-17:30

Xu ZHANG (Institute of Neuroscience and State Key Laboratory of Neuroscience, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China)

Role of FXRD2, γ subunit of Na⁺,K⁺-ATPase, in inflammatory pain



December 19(Thu)

Session4 Makoto TOMINAGA (Okazaki Institute for Integrative Bioscience)

S4-1 9:00-9:25

Junichi NABEKURA (National Institute for Physiological Sciences, Japan)
Remodeling of Synapses in Mouse Somatosensory Cortex in Chronic Pain

S4-2 9:25-10:00

Min ZHUO (University of Toronto, Canada)
Presynaptic form of long-term potentiation in the anterior cingulate cortex mediates injury-related anxiety

Session5 Fusao KATO (Jukei University School of Medicine)

S5-1 10:20-10:45

Yasushi KURASHI (Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Japan)
Involvement of Oxidative Stress in Herpes-Associated Acute Pain and Itch in Mice

S5-2 10:45-11:10

Emiko SENBA (Department of Anatomy & Neurobiology, Wakayama Medical University, Japan)
Exercise training attenuates neuropathic pain by modulating microglial activation

S5-3 11:10-11:45

Bai Chuang SHYU (Institute of Biomedical Sciences, Academia Sinica, Taiwan)
Differential mechanisms of P2X₇ and BDNF in central post-stroke pain

Session6 Emiko SENBA (Wakayama Medical University)

S6-1 13:15-13:40

Makoto TSUDA (Department of Molecular and System Pharmacology, Graduate School of Pharmaceutical Sciences, Kyushu University, Japan)
Microglial transcription factors and neuropathic pain

S6-2 13:40-14:15

Yong-Jing GAO (Institute of Nautical Medicine, Nantong University, China)
Chemokine-mediated astroglial-neuronal interaction in neuropathic pain

S6-3 14:15-14:40

Hiroshi UEDA (Department of Molecular Pharmacology and Neuroscience, Nagasaki University, Japan)
Roles of amplification of LPA synthesis through microglial activation in neuropathic pain

Session7 Hiroshi UEDA (Nagasaki University)

S7-1 15:00-15:25

Masabumi MINAMI (Hokaido University, Japan)
Role of the Bed Nucleus of the Stria Terminalis in Pain-induced Aversion

S7-2 15:25-16:00

Xian-Guo LIU (Pain Research Center of Sun Yat-sen University, China)
Cytokine microenvironment hypothesis of chronic pain

Session8

Masabumi MINAMI (Hokaido University)

S8-1 16:20-16:45

Ryusuke KAKIGI (National Institute for Physiological Sciences, Japan)
Pain and Itch Perception in Humans

S8-2 16:45-17:20

Wei-Zen SUN (National Taiwan University Hospital, Taiwan)
Awake or asleep? Behavioral correlates of the brain metabolic activity and functional connectivity by pregabalin, alpha-2-delta antagonist, in awake neuropathic pain model



December 20 (Fri)

Session9

Yasushi KURAISHI (Toyama University)

S9-1 9:30-9:55

Hidemasa FURUE (National Institute for Physiological Sciences, Japan)
Spinal GABAergic Excitation by Optogenetic Activation of Descending Noradrenergic System

S9-2 9:55-10:20

Guang-Yin XU (Institute of Neuroscience, Soochow University, China)
Epigenetic regulations of chronic visceral pain in functional gastrointestinal disorders

Session10

Hidemasa FURUE (National Institute for Physiological Sciences)

S10-1 10:40-11:05

Fusao KATO (Department of Neuroscience, Jikei University School of Medicine, Japan)
Nociceptive Amygdala in Various Chronic Pain Models

S10-2 11:05-11:40

Jun CHEN (Fourth Military Medical University, China)
Painful neuropathy and the environment - Prediabetes and Metabolic syndrome, risks of a 'western lifestyle'

Poster Session

- P1 Yiming ZHOU (National Institute for Physiological Sciences, Japan)
Identification of a splice variant of mouse TRPA1 that regulates TRPA1 activity
- P2 Masayuki TAKAISHI (Mandom corp., Technical Development Center, Japan)
1,8-cineole, a TRPM8 agonist, is a novel natural antagonist of human TRPA1
- P3 Meng ZHAO (Graduate School of Pharmaceutical Sciences, Kyoto University, Japan)
Mechanism of TRPA1 activation in oxaliplatin-induced acute peripheral neuropathy
- P4 Kimiaki KATANOSAKA (Research Institute of Environmental Medicine, Japan)
TRPV1- and V2-negative Heat-sensitive Primary Afferent Neurons in Mouse Dorsal Root Ganglia
- P5 Shinya KASAI (Tokyo Metropolitan Institute of Medical Science, Japan)
Reduced Supraspinal Nociceptive Responses and Distinct Gene Expression Profile in CXBH Recombinant Inbred Mice
- P6 Noboru IWAGAKI (University of Glasgow, UK)
Physiological and Morphological Characterisation of PrP-GFP Inhibitory Interneurons in the Superficial Dorsal Horn of Young Adult Mice
- P7 Toshiharu YASAKA (Saga University, Japan)
Excitatory and inhibitory spinal lamina II interneurons that receive inputs from putative low-threshold mechanoreceptors in adult rats
- P8 Eiichi KUMAMOTO (Saga University, Japan)
Vanilloid Zingerone Enhances Spontaneous Excitatory Transmission by Activating TRPA1 but not TRPV1 Channels in the Adult Rat Substantia Gelatinosa
- P9 Qing-Tian LUO (Saga University, Japan)
Carvacrol Enhances Spontaneous Excitatory Transmission and Produces Outward Current in Adult Rat Superficial Dorsal Horn Neurons
- P10 Keisuke KOGA (National Institute for Physiological Sciences, Japan)
Presynaptic P2X3 receptor activates GABAergic inhibitory interneurons in Substantia Geratinosa of rat spinal dorsal horn



- P11 Koki IWASA (University of Fukui, Japan)
Contribution of zinc to the pain-induced ERK phosphorylation and neuronal plasticity in the spinal dorsal horn
- P12 Daisuke UTA (National Institute for Physiological Sciences, Japan)
Firing pattern and morphological analysis of substantia gelatinosa neurons receiving TRPA1-expressing afferents in adult rat spinal dorsal horn.
- P13 Shun WATANABE (Kitasato University, Japan)
The roles of glycosphingolipids on regulation of peripheral glutamate levels during nociception.
- P14 Ichiro OKAYASU (Nagasaki University, Japan)
Evaluation for tactile sensory and pain thresholds in the face, tongue, hand and finger of symptom-free subjects
- P15 Kanako SO (Kyoto University, Graduate School of Pharmaceutical Sciences, Japan)
Redox-sensitive TRPA1 is involved in dysesthesia induced by transient hindlimb ischemia-reperfusion in mice
- P16 Hiroki OTA (Teikyo University, Faculty of Medical Technology, Japan)
Contribution of TRPV1 and TRPV4 in Delayed Onset Muscle Soreness
- P17 Teruaki NASU (Mejiro University, Japan)
Analgesic Effect of Intramuscular Injected Neurotrophin (NTP) in Repeated Cold Stress model
- P18 Shiori MURASE (Chubu University, Japan)
A synergetic effect of nerve growth factor (NGF) and glial cell line-derived neurotrophic factor (GDNF) in inducing muscular mechanical hyperalgesia in rats
- P19 Koei HAYASHI (Nagoya University, Japan)
Muscular Mechanical Hyperalgesia Occurs in a Stretch Speed-Dependent Manner after Lengthening Contraction in Rats
- P20 Hiroshi IKEDA (University of Fukui, Japan)
Involvement of astrocytes in the long-term facilitation of neuronal excitation in the anterior cingulate cortex of mice with inflammatory pain
- P21 Miho SEKIGUCHI (Fukushima Medical University School of Medicine, Japan)
The Effect of Non-Noxious Stimulation in Pain-Related Behavior Compared with Repeated Restraint Stress in an Experimental Nucleus Pulposus Applied Rat Model
- P22 Yuka KOBAYASHI (Wakayama Medical University, Japan)
Interaction between macrophage inflammatory proteins and matrix metalloprotease 12 in macrophage is involved in neuropathic pain.
- P23 Norikazu KIGUCHI (Wakayama Medical University, Japan)
Histone H3 acetylations enhances chemokine expression leading to neuropathic pain

- P24 Nozomi AKIMOTO (National Institute for Physiological Sciences, Japan)
Effect of Chemokine (C-C motif) ligand 1 on Synaptic Transmission in the Spinal Dorsal Horn
- P25 Yasufumi HAYANO (Graduate School of Medicine, Osaka University, Japan)
Netrin Acts As a Pain-Inducing Factor in Adult Spinal Cord
- P26 Koichi ISAMI (Kyoto University, Graduate School of Pharmaceutical Sciences, Japan)
Peripheral nerve injury-induced infiltration of bone marrow-derived cells into the spinal cord in neuropathic pain: roles of TRPM2
- P27 Kiyomi HORI (Kanazawa University Graduate School of Medical Science, Japan)
P2X_{3,2/3} and ASICs contribute to muscle hyperalgesia and intermittent claudication in a new rat model of peripheral arterial disease.
- P28 Koji DOGISHI (Graduate School of pharmaceutical sciences, Kyoto University, Japan)
Behaviors associated with pain in mice model of chronic inflammatory and overactive bladder by intravesical injection of hydrogen peroxide
- P29 Nguyen Huu Tu (Department of Medical Chemistry, Kansai Medical University, Japan)
Energy coupling of axon-Schwann cells by Nax and endothelin in nerve regeneration
- P30 Tsutomu HAYASHI (Graduate School of Engineering, University of Fukui, Japan)
Involvement of Extracellular Signal-Regulated Kinase and NMDA receptor in the Anterior Cingulate Cortex to the affective component and hypersensitivity of pain
- P31 Syuntaro TAKASU (Graduate School of Engineering, University of Fukui, Japan)
Contribution of the descending pain inhibitory system to the analgesic effect by smelling the aroma oil

