Colloquia and Symposia Sponsored by ION (2011.01-2011.12)

Date	Name	Affiliations	Title
11-01-17	Shi-Hui Han	Department of Psychology, Peking University, China	*Cultural and genetic variation of neural basis of self-reflective thinking.*
11-03-11	Yi-Feng Zhang	Harvard University, U.S.A.	*Genetic dissection of retinal circuits.*
11-03-11	Yong Gu	Washington University School of Medicine, U.S.A.	*Neural correlates of cue integration for heading perception.*
11-03-14	Jian-Jun Wang	Nanjing University	*A role of orexin in central vestibular motor control.*
11-04-14	Tang Tang	Academia Sinica	*CPAP: role in centrosome duplication and its implication in neurodevelopmental disorders.*
11-04-30	Zheng Wang	Vanderbilt University, U.S.A.	*Interaction between neural and vascular networks in neocortex of primates: implication for functional brain imaging.*
11-05-12	Zu-Hang Sheng	NIH, U.S.A.	*Axonal transport of mitochondria and late endosomes and its impact on synaptic function and neurodegeneration.*
11-05-16	Erika Sasaki	Department of Applied Developmental Biology, Central Institute for Experimental Animals, Japan.	*Prospect for the future of use of transgenic marmoset in biomedical science.*
11-05-16	Qi-Long Ying	Department of Cell and Neurobiology, University of Southern California, U.S.A.	*Induced neural stem cells generated from rat fibroblasts.*
11-05-19	Yong-Qing Zhang	Institute of Genetics and Developmental Biology, CAS	*Synaptic mechanisms of mental retardation.*
11-05-31	Chen Gu	The Ohio State University, U.S.A.	*Mechanism and function of polarized targeting of Kv3 (Shaw) channels.*
11-06-16	Mike Dorris	Queens University, Canada	*Neural Processes Involved in Decision-Making under Uncertainty.*
11-06-30	Qiu-Fu Ma	Harvard Medical School, U.S.A.	*Progressive segregation of somatic sensory modalities and population coding of pain versus itch.*
11-07-08	Yong Shen	Roskamp Institute, U.S.A.	*Beta-secretase: From basic science to clinical investigation.*
11-07-13	Craig Montell	The Johns Hopkins University School of Medicine, U.S.A.	*Control of Animal Behavior by TRP channels.*
11-07-25	Michael Tymianski	The Toronto Western Hospital & University of Toronto, Canada	*TRPM Channels – new emerging targets for the treatment of tissue ischemia.*

11-08-03	Yves Frégnac	National Scientific Research Center (CNRS), U.S.A.	*Synaptic echoes of visual cortical perception*
11-08-04	Susan G. Amara	Center for Neuroscience, University of Pittsburgh, U.S.A.	*Glutamate transporters: a dance of domains and substrates.*
11-09-06	Ching-Po Lin	Dept. of Biomedical Image an Radiological Science, Nationa Yang-Ming University, Taipei China	*Measurements of brain microstructure and connectivity with diffusion MRI.*
11-09-15	Martin Heisenberg	Rudolf Virchow Center, University of Würzburg, Germany	*The Fly Drosophila - its Brain and its Self.*
11-09-23	John L. R. Rubenstein	University of California at Sa Francisco, U.S.A.	*Patterning of telencephalic structures.*
11-09-27	Mary Mullins	University of Pennsylvania School of Medicine, U.S.A.	*BMP signaling and nuclear division dynamics in the vertebrate embryo.*
11-10-12	John G. Parnavelas	University College London, U.K.	*Molecular mechanisms involved in the migration and sorting of cortical interneurons.*
11-10-12	Nobuaki Tamamaki	Kumamoto University, Japan	*A cell-lineage of GABA neurons reconstructed from evidence obtained in vivo and in vitro.*
11-10-14	Thomas R. Insel	National Institute of Mental Health, NIH, U.S.A.	*Rethinking Mental Illness.*
11-10-21	Samuel Weiss	Hotchkiss Brain Institute, University of Calgary, Canada	*Adult neural stem cells: Basic science to therapeutic applications.*
11-10-24	Alexandra L.Joyner	New York University School Medicine, U.S.A.	*Transcription factor regulation of cerebellum circuit formation.*
11-10-24	Daniel H. Turnbull	Skirball Institute, U.S.A.	*Functional Circuit Mapping in the Developing Mouse Brain with MRI.*
11-10-24	Barry J. Dickson	Institute of Molecular Pathology (IMP), Vienna, Austria	*Wired for sex: the neurobiology of Drosophila courtship behavior.*
11-10-26	Florian Engert	Havard University, U.S.A.	*Sensory processing and motor control in the larval zebrafish.*
11-10-28	Jay Hirsh	University of Virginia, U.S.A.	*Extreme light sensitivity in Drosophila and the role of dopamine.*
11-11-14	Katharine Barnes	Nature Protocol, London, U.K	*Methods and Protocols at Nature Publishing Group*
11-11-29	Joseph A. Movshon	Center for Neural Science, New York University, U.S.A.	*Brain mechanisms of visual motion perception.*
11-12-06	Min Cho	Nature Neuroscience, New York, U.S.A.	*Publication Process at Nature Neuroscience.*

11-12-12	Chun-Fang Wu	University of Iowa, U.S.A.	*Neural, behavioral and Lifespan Plasticity in Drosophila.*
11-12-15	Gerald Stern	University College Hospital London, U.K	*The neurodegenerations: genomics from a perplexed elderly clinician.*
11-12-15	Zhen-Yu Yue	Mount Sinai School of Medicine, New York, U.S.A.	*Genetic mouse models for understanding LRRK2 biology, pathology and pre-clinical application.*
11-12-26	Yan-Gang Sun	University of Texas Medical School, U.S.A.	*Neural mechanisms of sensory Processing.*

Institute of Neuroscience Mini-Course on Neurobiology of Memory

Speaker: Professor Susan Sara

LPPA, CNRS UMR 7152

Collège de france

Time	**Course title**
2011-09-14 18:00	Lecture 1: Historical roots of the scientific study of memory: from clinical observation to experimental research.
2011-09-21 18:00	Lecture 2: Taxonomy and anatomy of memory.
2011-09-28 18:00	Lecture 3: Taxonomy and anatomy of memory.
2011-10-12 18:00	Lecture 4: Neural Plasticity and Memory.
2011-10-26 18:00	Lecture 5: Neural Plasticity and Memory.
2011-11-02 18:00	Lecture 6: Cellular mechanisms: vertebrate models.
2011-11-09 18:00	Lecture 7: Cellular mechanisms: invertebrate models.
2011-11-16 18:00	Lecture 8: Neuromodulation and emotional memory.
2011-11-23 18:00	Lecture 9: Reactivation, replay, reconsolidation.
2011-11-30 18:00	Lecture 10: Oscillations, Sleep and Memory.

Mini-Symposium on Animal Models for Neural Diseases

Date and time: 14:00 - 16:30, May 16, 2011

Place: Rm 430, ION Building, 320 Yue Yang Road, Shanghai.

Chair: Dr. Zhi-Qi Xiong

Title 1: *Prospect for the future of use of transgenic marmoset in biomedical science.*

Speaker 1: Erika Sasaki, Ph.D.
Department Head,
Department of Applied Developmental Biology,
Central Institute for Experimental Animals, Japan.

Title 2: *Induced neural stem cells generated from rat fibroblasts.*

Speaker 2: Qi-Long Ying, Ph.D.
Assistant Professor,
Eli and Edythe Broad Center for Regenerative Medicine and Stem Cell Research at USC
Department of Cell and Neurobiology, University of Southern California, USA.

Center for Brain Disorder
State Key Laboratory of Neuroscience
Institute of Neuroscience, CAS

Chinese Russian Workshop on Neuroscience

Date and time: 9:00 - 18:00, 30 May 2011

Place: Room 430, ION Building, 320 Yue Yang Road, Shanghai

Morning Session: (Chair: Dr. Tian-Le Xu)

09:00 - 09:30 Dr. Ai-Ke Guo (Institute of Neuroscience, CAS)
Dopamine reveals neural circuit mechanisms of decision making: from fruit fly to human beings.

09:30 - 10:00 Dr. Konstantin Anokhin (Anokhin Institute of Normal Physiology, RAMS)
Recovery of impaired and weakened memory by reminding stimuli.

10:15 - 10:45 Dr. Olga Svarnik (Kurchatov NBIC Center, Russia)
How the brain generates new behavior during operant learning.

10:45 - 11:15 Dr. Xiang Yu (Institute of Neuroscience, CAS)
The effect of neonatal environmental enrichment on neural circuit formation.

11:15 - 11:45 Dr. Mikhail Burtsev (Kurchatov NBIC Center, Russia)
Evolution of bursting activity during development of cortical cultures in vitro.

Afternoon Session: (Chair: Dr. Konstantin Anokhin)

13:30 - 14:00 Dr. Pavel Balaban (Institute of Higher Nervous Activity & Neurophysiology, RAS)
Nitric oxide is necessary for both erasure and consolidation of memory during learning.

14:00 - 14:30 Dr. Anna Tiunova (Anokhin Institute of Normal Physiology,

RAMS)

Systems reorganization of memory storage and retrieval in the chick brain.

14:30 - 15:00 Dr. Jia-Wei Zhou (Institute of Neuroscience, CAS)

NA.

15:00 - 15:30 Dr. Mikhail Stepanichev (Institute of Higher Nervous Activity & Neurophysiology, RAS)

Neurogenesis in the adult brain: implications in plasticity and pathology.

15:45 - 16:15 Dr. Tian-Le Xu (Institute of Neuroscience, CAS)

Acid-sensing ion channels and ischemic brain injury.

16:15 - 16:45 Dr. Sergey Salozhin (Institute of Higher Nervous Activity & Neurophysiology, RAS)

Lentiviruses as vehicles for neurotrophin-based therapy in neurodegenerative diseases.

16:45 - 17:15 Dr. Yi-Zheng Wang (Institute of Neuroscience, CAS)

Suppression of TRPC6 degradation prevents ischemic brain damage in rats.

17:15 - 17:45 Dr. Viktor Kazantsev (Institute of Applied Physics, RAS)

Stimulus-induced functional transformations in neuronal networks on multielectrode arrays: models and experiments.

The 9th IASP Research Symposium

"Understanding Mechanisms of Chronic Pain"

Oct. 16-17, 2011

Shanghai Institutes for Biological Sciences, China

Lecture Hall, 320 Yue Yang Road, Shanghai

Sponsors

The International Association for the Study of Pain (IASP)
Institute of Neuroscience, Shanghai Institutes for Biological Sciences (SIBS), Chinese Academy of Sciences (CAS)
Chinese Society for Neuroscience
Shanghai Society for Neuroscience

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Scientific Program of 9th IASP Research Symposium

Oct. 16, 2011

09:00-09:15 Opening ceremony

Chair: Professor **Yun Wang** (Secretary general of 9th IASP)

- Welcome from the chair of 9th IASP—Professor **Xu Zhang**
- Opening remarks from co-chair of 9th IASP—Professor **Gerald F Gebhart**
- Opening remarks from co-chair of 9th IASP—Professor **Min Zhuo**

Session 1 Forebrains and pain modulation 09:15-10: 30

Chair: Professor **Jon D Levine,** University of California San Francisco, USA

09:15-09:40

Howard Fields, University of California, USA

A motivation-decision model of pain: understanding the function of descending pain modulation pathways

09:40-10:05

Volker Neugebauer, The University of Texas Medical Branch, USA

Interactions between amygdala and medial prefrontal cortex in pain

10:05-10:30

Zhizhong Pan, The University of Texas MD Anderson Cancer Center, USA

GAD65 mediates an epigenetic mechanism of chronic pain

10:30-11:10 Tea/Coffee break, group photo

Session 2 Nociceptors and sensitization 11:10-12: 25

Chair: Professor **Volker Neugebauer**, The University of Texas Medical Branch, USA

11:10-11:35

Jon D Levine, University of California San Francisco, USA

Toward a cell biology of pain

11:35-12:00

Koichi Noguchi, Hyogo College Medicine, Japan

Detailed analysis of gene expression in primary afferent neurons in a rat model of neuropathic pain

12:00-12:25

Yun Wang, Peking University, China

Phospho-regulation of TRPV1 in pain sensation

12:25-14:30 Lunch and Poster exhibition

Session 3 Synaptic plasticity and chronic pain 14:30-15:50

Chair: Professor **Jose Naranjo**, Spanish National Center of Biotechnology, Spain

14:30-14:55

Jurgen Sandkuhler, Medical University of Vienna, Austria

Learning and memory in pain pathways

14:55-15:20

Min Zhuo, University of Toronto, Canada

PKMζ maintains chronic pain related cortical potentiation in the anterior cingulate cortex

15:20-15:50

Megumu Yoshimura, Kumamoto Health Science University, Japan

Selective loss of presynaptic 5-HT inhibition on spinal noxious synaptic transmission

in ovariectomized rats *in vivo*

15:50-16:20 Tea/Coffee break

Session 4 Novel mediators of hypersensitivity and chronic pain 16:20-17:35

Chair: Professor **Jurgen Sandkuhler**, Medical University of Vienna, Austria

16:20-16:45

Jianguo Gu, University of Cincinnati, USA

Feeling painful cold: mechanisms beyond cold transducers

16:45-17:10

Hiroshi Ueda, Nagasaki University, Japan

LPA receptor-mediated amplification of LPA biosynthesis and demyelination underlie the initiation mechanisms for neuropathic pain

17:10-17:35

Xu Zhang, Institute of Neuroscience, SIBS, CAS, China

Reduction of follistatin-like 1 contributes to neuropathic pain

18:00- Welcome dinner

Oct. 17, 2011

Session 5 Spinal cord mechanisms 09:00-10:40

Chair: Professor **Koichi Noguchi**, Hyogo College Medicine, Japan

09:00-09:25

Jose Naranjo, Spanish National Center of Biotechnology, Spain

DREAM regulates spinal sensitization through BDNF expression

09:25-09:50

Tian-Le Xu, Shanghai Jiaotong University, China

Preventing pain hypersensitivity by uncoupling the interaction between BDNF/TrkB pathway and acid-sensing ion channel 1a in rodents

09:50-10:15

Robert Gereau, Washington University, USA

Metabotropic glutamate receptor 5 as a mediator of central sensitization

10:15-10:40

Yves De Koninck, Laval University, Canada

Novel photonics-based approaches to probe cellular and molecular events in pain pathways *in vivo*

10:40-11:05 Tea/Coffee break

Session 6 Spinal microglia in chronic pain 11:05-12:20

Chair: Professor **Tian-Le Xu,** Shanghai Jiaotong University, China

11:05-11:30

Kazuhide Inoue, Kyushu University, Japan

Microglial P2 receptor functions in neuropathic pain

11:30-11:55

Rurong Ji, Harward Medical School, USA

Pain control by anti-inflammatory and pro-resolution lipid mediators

11:55-12:20

Michael Salter, University of Toronto, Canada

Cell signaling networks in the dorsal horn in pain hypersensitivity

12:20-14:00

Lunch and Lab tour to "Institute of Neuroscience, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences" (optional)

Session 7 Visceral pain, clinical and genetics of pain 14:00-15:40

Chair: Professor **Howard Fields,** University of California, USA

14:00-14:25

Irene Tracey, University of Oxford, UK

Imaging the Neural Bases of Pain, Relief and Pleasure

14:25-14:50

Emeran Mayer, University of California Los Angels, USA

Brain networks involved in chronic visceral pain

14:50-15:15

Jeffrey Mogil, McGill University, Canada

The nature and nurture of pain

15:15-15:40

Gerald F Gebhart, University of Pittsburg, USA

Peripheral contributions to sustained visceral pain

15:40-16:05 Tea/Coffee break

16:05-16:35 Discussion

Future directions for the study of chronic pain?

Chairs: Professor **Howard Fields, Jon D Levine** and **Gerald F Gebhart**

16:35-17:00 Poster Award

Chair: Professor **You Wan** (Beijing University, China)

Award Guests: Professor Gerald F Gebhart and Megumu Yoshimura

17:00-17:30 Conclusion remark

Chair: Professor **Jun Chen**, The Fourth Military Medical University, China

Speakers:

- Concluding remarks from the chair of 9th IASP—Professor **Xu Zhang**
- Concluding remarks from co-chair of 9th IASP—Professor **Megumu Yoshimura**
- Concluding remarks from co-chair of 9th IASP—Professor **Min Zhuo**

18:00- Farewell dinner