

ASSOCIATION FOR THE STUDY OF NEURONS AND DISEASES (AND) 10th International Conference for Neurons and Brain Disease (ICNBD)

Xian, China – ICNBD – June 22-24, 2015
Chengdu, China – Tour & Discussion – June 25-26, 2015

Conference Location: Xi'an Jiaotong University, Qujiang Campus
No.1 West building, 99 Yanxiang Road, Yanta District
Xi'an, Shaanxi Province, China

***PLEASE NOTE: All talks are 15 minutes in length (maximum) followed by a 5 minute discussion. The time limit will be strictly enforced by the chair. Please bring your talk on a memory stick.**

June 21, 2015

Arrive in Xian; dinner at the Grand Nobel Hotel

June 22, 2015

6:30am- City Park walking/running and help to offset jetlag

8:30-8:45: Coffee & Refreshments

8:45-9:00: Opening Remarks

9:00-10:20 Section I: Pain and itch - Chair: Kaoru Inokuchi and Jose Naranjo

9:00-9:20 **Ipek Yalcin-Christmann:** (Institut Neuroscience Cellulaire and Integratives, France) – *Chronic pain and depression comorbidity: insight from the anterior cingulate cortex*

9:20-9:40 **Gerald Zamponi:** (University of Calgary, Canada) – *Calcium channels as therapeutic targets for pain*

9:40-10:00 **Makoto Tominaga:** (Okazaki Institute for Integrative Bioscience, Japan) – *Lysophosphatidic acid-induced itch sensation involves LPA5 receptor-PLD signaling and TRPA/TRPV1*

10:00-10:20 **Bai Chuang Shyu:** (Institute of Biomedical Sciences, Taiwan) – *Targeting P2X7 and BDNF for the treatment of central post-stroke pain in a rodent model*

10:20-10:50 Coffee break + Posters

10:50-11:50 Section II: Neuron and Glia - Chair: Bong-Kiun Kaang

10:50-11:10 **Brian MacVicar:** (University of British Columbia, Canada) – *Synaptic sensing and modulation by microglia*

11:10-11:30 **Longjun Wu:** (Rutgers University, USA) – *Microglia-Neuron communication in Epilepsy*

11:30-11:50 **Michael Salter:** (Sick Kids Research Institute & University of Toronto, Canada) – *A surprising twist in neuron-glia signalling in pain neuroplasticity*

11:50-1:30 Lunch break + Posters

1:30-2:50 Section III: Mind & Disorders I - Chair: Mike Salter and Makoto Tominaga

1:30-1:50 **Xue Chu Zhen:** (Soochow University, China) – *Magnesium supplement improves prefrontal cortex functions – potential applications in schizophrenia*

1:50-2:10 **Fang Liu:** (Centre for Addiction and Mental Health, Canada) – *Development of "ideal" antipsychotics*

2:10-2:30 **Minggao Zhao:** (Fourth Military Medical University, China) *Downregulation of progranulin improves learning and memory in a mice model of fragile x syndrome*

2:30-2:50 **Jose Naranjo:** (CNB-CSIC, Spain) – *DREAM regulates UPR in Huntington's Disease*

2:50-3:30 Coffee break + Group photo

3:30-5:30 Section IV: Synaptic plasticity and memory - Chair: Yu Tian Wang and Tsuyoshi Miyakawa

- 3:30-3:50 **Kaoru Inokuchi:** (University of Toyama, Japan) – *Cell ensemble mechanisms underlying the association of two independent memories*
- 3:50-4:10 **Xuehan Zhang:** (Fudan University, China) – *NMDA receptor trafficking in memory*
- 4:10-4:30 **Yong-Seok Lee:** (Chung-Ang University, South Korea) – *Mechanism of learning deficits in mouse models of Noonan syndrome*
- 4:30-4:50 **Junichi Nabekura** (National Institute for Physiological Sciences, Japan) – *Astrocyte-induced synapse remodelling in chronic pain*
- 4:50-5:10 **Chae-Seok Lim:** (Seoul National University, South Korea) – *Hippocampus-dependent learning & memory deficits in LSD1 KI mouse*
- 5:10-5:30 **Fusao Kato:** (Jikei University School of Medicine, Japan) – *Non-thalamic artificial aversive information through parabrachial nucleus is sufficient for fear/threat learning*

5:30-7:00 Welcome Reception: wine reception and poster preview

7:30pm Dinner for speakers

June 23, 2015

7:30am Xian Ancient wall morning time walk and bicycle ride

9:30-10am: Coffee & Refreshments

10:00-11:00 Section V: *Development and Neurogenesis* - Chair: Satoshi Kida and Xue Chu Zhen

10:00-10:20 **Hongjun Song:** (John Hopkins University, USA) – *Single cell analysis of adult neurogenesis*

10:20-10:40 **Weiyang Lu:** (Robarts Research Institute, Canada) – *nNOS regulates cerebellar Purkinje neuron development*

10:40-11:00 **Guo-li Ming:** (John Hopkins University, USA) – *Epigenetic regulation of axon regeneration*

11:00-11:30 Coffee break

11:30-12:50 Section VI *Synapses and Circuits* - Chair: Zhengping Jia and Fusao Kato

11:30-11:50 **Haruhiko Bito:** (University of Tokyo, Japan) – *Imaging of active neuronal ensembles in vivo*

11:50-12:10 **Hiroki Toyoda:** (Osaka University, Japan) – *The network oscillation in the insular cortex*

12:10-12:30 **Luyang Wang:** (Sick Kids Research Institute & University of Toronto) – *Underpinnings of functional and morphological heterogeneity at a central synapse*

12:30-12:50 **Li-ming Wang:** (USTC, China) – *Modulation of meal size in adult Drosophila*

12:50-1:50 Lunch break + Posters

1:50-3:10 Section IX: *Mind & Disorders II* Chair: Ipek Yalcin-Christmann and Min Zhuo

1:50-2:10 **Uhtaek Oh:** (Seoul National University, South Korea) – *TRPM2, a susceptibility gene for bipolar disorder, regulates glycogen synthase kinase-3 activity in the brain*

2:10-2:30 **Tsuyoshi Miyakawa:** (Fujita Health University, Japan) – *Retrospective prediction of behavioral state by hippocampal transcriptome analysis*

2:30-2:50 **Ikeda Kazutaka:** (Tokyo Metropolitan Institute of Medical Science, Japan) - *Critical role of NMDA receptor GluN2D subunit in phencyclidine effects*

2:50-3:10 **Hui Chen** (Tianjin Medical University, China) *Mood swings in puberty: Role of GABAergic current and neurosteroids.*

3:10-3:30 Coffee break + Posters

3:30-5:10 Section VIII: *Signaling and Functions* Chair: Abraham Wickliffe and Luyang Wang

3:30-3:50 **Stephen Ferguson:** (University of Ottawa, Canada) – *Metabotropic Glutamate Receptor 5 is a Target for the Treatment of Alzheimer's Disease*

3:50-4:10 **Wickliffe Abraham** (University of Otago, New Zealand) – *Secreted amyloid precursor protein alpha: yin to amyloids yang*

4:10-4:30 **David Lodge:** *Anxiety about Wistars: do they have mGlu2 receptors*

4:30-4:50 **Tian Xue (China):** (University of Science and Technology, China) *Non-image vision: From phototransduction to neurocircuitry.*

4:50-5:10 **Mika Tanaka:** (RIKEN Brain Science Institute, Japan) Molecular Brain Award Winner - TBA

5:10-6:30 Beer and Poster time

7:00 pm Dinner for speakers

June 24, 2015

8:30-9:00am Coffee & Refreshments

9:00-10:40 Section VII: *Synaptic Plasticity and Disease* - Chair: *Uhtaek Oh and Guo-li Ming*

- 9:00-9:20 **Bong-Kiun Kaang:** (Seoul National University – South Korea) – *Novel gene regulation events following fear conditioning*
- 9:20-9:40 **Satoshi Kida:** (Tokyo University of Agriculture, Japan) – *Erasure of recent and remote fear memory by enhancing adult hippocampal neurogenesis*
- 9:40-10:00 **Qian Yang** (Tangdu hospital, Fourth Military Medical University, China) *Regulation of miRNA Biogenesis in Neuronal Stress*

10:00-10:20 Coffee Break

10:20-12:40 Section X: *Pain and its modulation* - Chair: *Graham Collingridge and Weiyang Lu*

- 10:20-10:40 **Shuang Qui** (Zhejiang University, China): *RIM1a, a postsynaptic organizer for NMDA receptor recycling*
- 10:40-11:00 **Tao Chen** (Fourth Military Medical University, China): *Facilitated Corticospinal Projecting Neurons in the ACC after Nerve Injury*
- 11:00-11:20 **Feng Wei:** (University of Maryland, USA) – *Synaptic plasticity of dorsal horn 5-HT receptors contributes to neuropathic pain*
- 11:20-11:40 **Hyong-Gon Ko** (Seoul National University, South Korea) *Nerve injury-induced synaptic reorganization in the anterior cingulate cortex*
- 11:40-12:00 **Xu Guang-Yin** (Soochow University, China) Mol Pain award winner - *TBD*

12:00-12:20: Concluding Remarks – Tim Bliss

12:30-1:30 Lunch Meeting

AND annual business meeting (all members)
Yutian introduce Vancouver for 2016 meeting
Min: Introduce 2017 for Italy meeting
Mol Pain and Mol Brain awards
AND investigator awards
Poster awards

1:30pm Local City Tour – Details to follow

7:00PM Banquet Dinner and Karaoke (for all registered)

June 25, 2015

9:00am Bus to Chengdu (for those who have registered) AND symposium

June 26, 2015

Chengdu Day Activity - *TBD*

7:00 Dinner

End of 2015 AND meeting