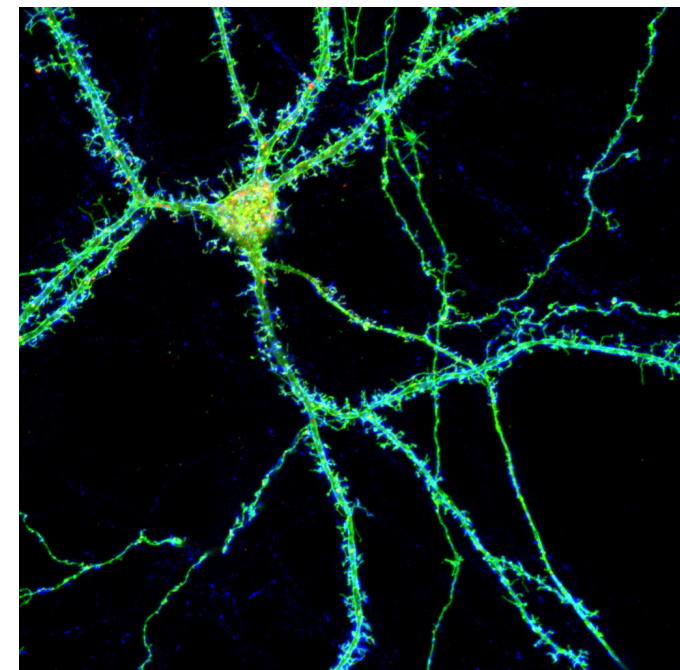




THE 7th UK-KOREA
NEUROSCIENCE
SYMPOSIUM



Fusion Hall, 1F KI Building, KAIST

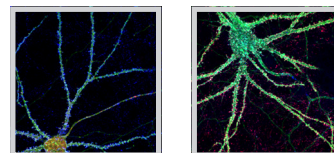
October 21-22, 2014

Contact

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The 7th UK-KOREA Neuroscience Symposium



Program (October 21st, 2014)

Session 1	Neural Circuits & Plasticity	(Chair: Eunjoon Kim)
09:00-09:10	Opening Address Graham Collingridge and Hee-Sup Shin	
09:10-09:40	Morgan Sheng (Genentech) Boosting mitophagy: relevance to Parkinson's disease	
09:40-10:10	Sang Ki Park (Postech) DISC1 is a key regulator of intracellular calcium dynamics	
10:10-10:40	Gero Miesenboeck (University of Oxford) Lighting up the brain	
10:40-11:00	<i>Coffee Break</i>	
11:00-11:30	Myoung-Goo Kang (IBS/KAIST) Molecular mechanisms underlying AMPA-R functions for learning and memory and persistent pain	
11:30-12:00	Dmitri A. Rusakov (University College London) Astroglia-synapse communication: deciphering key players	
12:00-13:30	<i>Lunch</i>	
13:30-14:00	C. Justin Lee (KIST) Channel-mediated astrocytic volume change is required for synaptic plasticity and spatial memory	(Chair: C. Justin Lee)
14:00-14:30	Daniel Whitcomb (University of Bristol) The rapid effects of amyloid-beta at the synapse	
14:30-15:00	Daesoo Kim (KAIST) Pathological roles of T-type Ca ²⁺ channels in Parkinson's disease	
15:00-15:30	Olivia Shipton (University of Cambridge) Optogenetic unravelling of hippocampal synaptic complexity in memory and memory disorders	
15:30-16:00	Hyeon Son (Hanyang University) Neuroplasticity in stress disorders and depression	
16:00-16:30	<i>Coffee Break</i>	
Session 2	Cognitive Functions	(Chair: Min Whan Jung)
16:30-17:00	Min Whan Jung (IBS/KAIST) Role of dentate gyrus in binding 'what' and 'where'	
17:00-17:30	Dennis Chan (University of Cambridge) Alterations of brain function in early Alzheimer's disease	
17:30-18:00	June-Seek Choi (Korea University) Where is the trace for trace memory? Role of the amygdala and entorhinal cortex in trace fear conditioning	
18:00-18:30	Roger Gunn (Imperial College London) Molecular imaging for neuroscience drug discovery and development	
Symposium Dinner		

The 7th UK-KOREA Neuroscience Symposium

Program (October 22nd, 2014)

Session 2	Cognitive Functions	(Chair: Inah Lee)
09:00-09:30	Jin-Hee Han (KAIST) Manipulation of memory by activating neurons with increased CREB in mice	
09:30-10:00	Paul A. Dudchenko (University of Stirling) Why we get lost: the limitations of the brain's representation of location and direction	
10:00-10:30	Sang-Hun Lee (Seoul National University) Neural signatures of stimulus and choice during perceptual decision making	
10:30-11:00	<i>Coffee Break</i>	
11:00-11:45	Plenary Lecture John O'Keefe (University College London) Spatial cells in the hippocampal formation	(Chair: Graham Collingridge)
11:45-12:00	Julija Krupic (University College London) Influence of environmental boundaries on the entorhinal grid cells	
12:00-13:30	<i>Lunch</i>	
13:30-14:00	Inah Lee (Seoul National University) What is the occasion? – Neural networks for scene-dependent contextual behavior	(Chair: Hee-Sup Shin)
14:00-14:30	Lisa M. Saksida (University of Cambridge) The representational-hierarchical organization of cognition in the brain	
14:30-15:00	Ja-Hyun Baik (Korea University) Dopamine D2 receptor signaling in stress and addiction	
15:00-15:30	Becky Conway-Campbell (University of Bristol) Glucocorticoid regulation of the rat hippocampal transcriptome during basal and stress conditions	
Session 3	Brain Imaging	(Chair: Seong-Gi Kim)
15:30-16:00	In Kyoon Lyoo (Ewha Womans University) Neural substrates of recovery from post-traumatic stress disorder	
16:00-16:30	Risto A. Kauppinen (University of Bristol) Time-efficient structural MRI for high resolution neuroimaging: Applications for early dementia	
16:30-17:00	<i>Coffee Break</i>	
17:00-17:30	Chun Kee Chung (Seoul National University) Brain connectomics of epilepsy and brain tumor: from an electrophysiological perspective	
17:30-18:00	Hackjin Kim (Korea University) Neural basis of valuation and decision-making for self and others	
18:00-18:10	Closing Remark Kei Cho	
Symposium Dinner		

Organizer:

- UK: Graham Collingridge (University of Bristol), Kei Cho (University of Bristol)
- Korea: Kyungjin Kim (Seoul National University), Hee-Sup Shin (IBS), Seong-Gi Kim (IBS / Sungkyunkwan University), Eunjoon Kim (IBS / KAIST)