

The **11**th
UK-KOREA
Neuroscience Symposium

» **UK-Korea Committee 2018**

Laura Andrae (King's College London)
Kei Cho (King's College London)
Morgan Sheng (Genetech)
John Isaac (J&J London Innovation Centre)
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Inhee Mook-Jung (Seoul Natl University)
Hee-Sup Shin (IBS)
Kyungjin Kim (KBRI-DGIST)
Seong-Gi Kim (IBS-SKKU)
Eunjoon Kim (IBS-KAIST)

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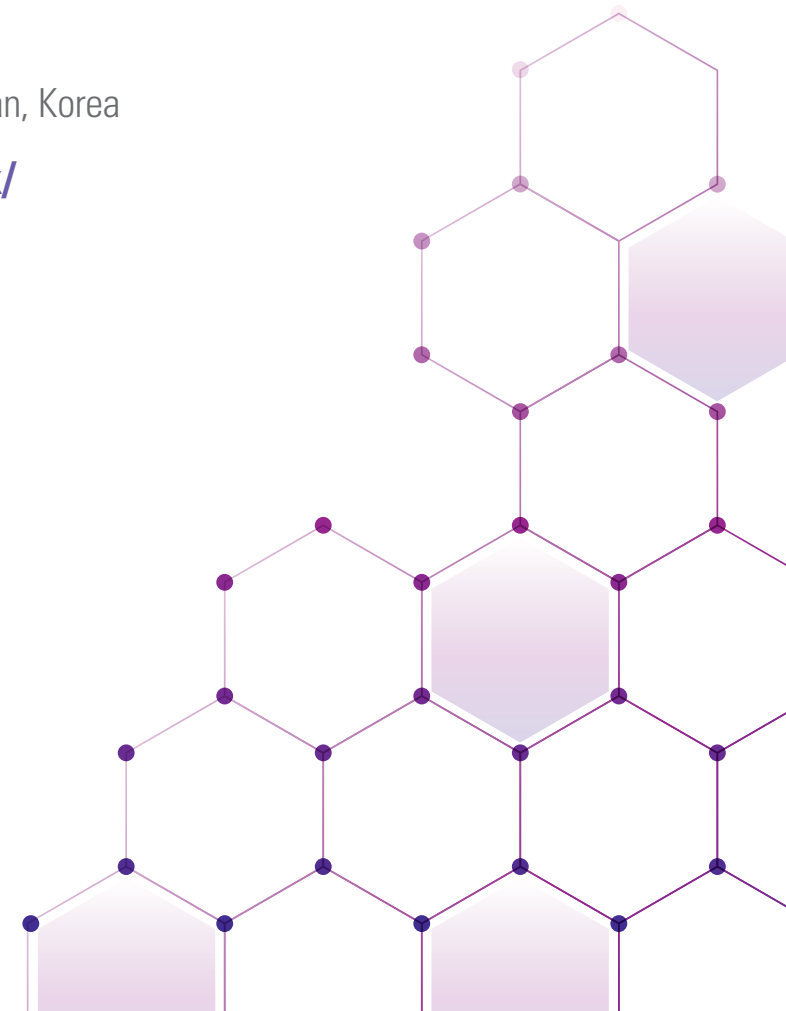
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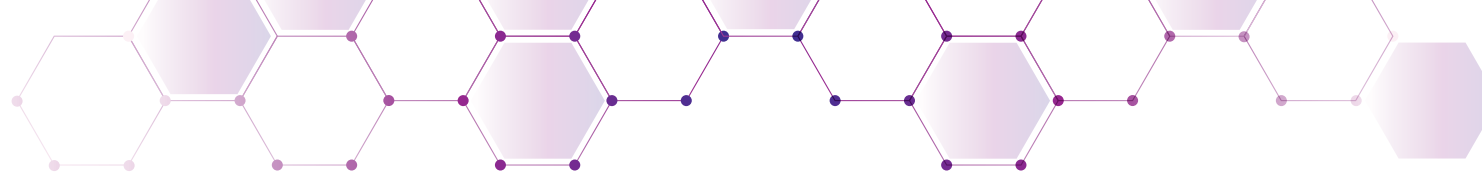
The **11**th
UK-KOREA
Neuroscience
Symposium

20-21 August 2018

Hotel Shilla Stay, Haeundae, Busan, Korea

<https://www.ukorea.ac.uk/>





DAY 1 August 20, 2018

Ballroom (3F)

TIME	PROGRAM
08:00-09:00	Registration
09:10-09:20	Opening Address - Kyungjin Kim (KBRI-DGIST) & Mark Palmer (MRC)
Plenary Lecture 1 <i>Chair: Eunjoon Kim</i>	
09:20-10:00	Molecular and cellular mechanisms of synapse loss in Alzheimer's disease Morgan Sheng (Genentech)
10:00-10:30	<i>Coffee Break</i>
Session 1: Computational Neuroscience <i>Chair: Albert Lee</i>	
10:30-11:00	Synaptic plasticity as probabilistic inference Peter Latham (University College London)
11:00-11:30	A simulation-selection model of the hippocampus Min Whan Jung (IBS-KAIST)
11:30-12:00	The statistical structure of hippocampal representations Albert Lee (HHMI, Janelia Farm)
12:00-14:00	<i>Lunch</i> Restaurant (2F)
14:00-14:30	[Debate] Algorithm of Neuroscience: Smart challenge for solid conclusion? (30 min) Co-Chairs: Gail McConnell , Peter Latham Panels: Mathew Horrocks , Albert Lee , Morgan Sheng , Daniel Whitcomb , Seong-Gi Kim
14:30-15:50	Group-A Poster Session & <i>Coffee Break</i> Meeting Room (5F)
Poster Group A Short-Talks <i>Chair: Daniel Whitcomb & Min Whan Jung</i>	
15:50-16:00	Using the power of Dementias Platform UK (DPUK) cohorts to investigate the effects of childhood adversity on adult behavioural, physiological, cognitive and dementia outcomes: A cross-cohort investigation Sarah Bauermeister (University of Oxford)
16:00-16:10	Mossy Fiber Stimulation Induces Transient and Inhibitory Impact on CA3 Neuronal Activity in Freely-moving Mice Joonyeup Lee (Center for Synaptic Brain Dysfunctions, IBS)
16:10-16:20	Reactivation in biological and artificial neural networks Gido Van de Ven (University of Oxford / Baylor College of Medicine)
16:20-16:30	Restless days and sleepless nights Haram Park (Center for Synaptic Brain Dysfunctions, IBS / KAIST)
16:30-17:00	<i>Coffee Break</i>
17:00-17:10	Activation of distinct estrogen receptors in vitro can mediate the prevention and recovery of Amyloid- β induced synaptotoxicity Iain Watson (King's College London)
17:10-17:20	Neural representations of ensemble coding in occipital and parietal cortex Kyeong-Jin Tark (Center for Neuroscience Imaging Research, IBS)
17:20-17:30	Direct in-cell observation of structural progression of amyloid- β Arctic mutant aggregation Meng Lu (University of Cambridge)
17:30-17:40	In vivo imaging reveals regrowth of serotonin axons following injury in the adult mouse brain Yunju Jin (Center for Cognition and Sociality, IBS)
17:40-17:50	The divergent role of Frizzled receptors in synapse connectivity and plasticity Faye McLeod (University College London)
17:50-18:00	Mouse BOLD fMRI at the ultrahigh-fields of 9.4T and 15.2T: Detection of sensory pathways including thalamic nuclei Won Beom Jung (Center for Neuroscience Imaging Research, IBS)
18:30-20:30	<i>Welcome Dinner</i>

DAY 2 August 21, 2018

Ballroom (3F)

TIME	PROGRAM
Plenary Lecture 2 <i>Chair: Inhee Mook-Jung</i>	
09:00-09:40	High resolution fMRI at ultra-high fields Seong-Gi Kim (IBS-SKKU)
Session 2: Innovative Imaging for Neuroscience <i>Chair: Hee-Sup Shin</i>	
09:40-10:10	Optical mesoscopic imaging of the brain with the Mesolens Gail McConnell (University of Strathclyde)
10:10-10:40	Optogenetic control of diverse molecular and cellular processes in the mouse brain Wondo Heo (IBS-KAIST)
10:40-11:10	Optical nanoscopy for the characterisation of protein aggregates in neurodegenerative disorders Mathew Horrocks (University of Edinburgh)
11:10-11:40	<i>Coffee Break</i>
Session 3: Cellular and Molecular Environment of Disease <i>Chair: Morgan Sheng</i>	
11:40-12:10	Tauopathies and synapse weakening in the hippocampus Kei Cho (King's College London)
12:10-12:40	Tau-based therapeutic approaches for Alzheimer's disease Inhee Mook-Jung (Seoul Natl University)
12:40-14:40	<i>Lunch</i> Restaurant (2F)
14:40-15:50	Group-B Poster Session & <i>Coffee Break</i> Meeting Room (5F)
Poster Group B Short-Talks <i>Chair: Wondo Heo & Albert Lee</i>	
15:50-16:00	CRISPR/Cas9-mediated downregulation of PMP22 ameliorates Charcot-Marie-Tooth disease 1A in mice Jae Young LEE (ToolGen Inc.)
16:00-16:10	Identification of compounds and drug targets that enhance TDP-43 clearance in ALS and FTLD Alinda Fernandes (King's College London)
16:10-16:20	MAPK-dependent presynaptic potentiation in the LHB is responsible for depressive behaviors Hoyong Park (Konkuk University)
16:20-16:30	Postsynaptic p47phox controls long-term depression in the hippocampus Jee Hyun Yi (University of Bristol / KAIST)
16:30-17:00	<i>Coffee Break</i>
17:00-17:10	Effects of Cell type-specific Shank3 deletion Taesun Yoo (Center for Synaptic Brain Dysfunctions, IBS / KAIST)
17:10-17:20	Alzheimer's disease-like pathology in Cyfip2+/- mice Anshua Ghosh (King's College London)
17:20-17:30	Characterization of synaptic and behavioral phenotypes in mice carrying a de novo Shank3 mutation Q321R Ye-Eun Yoo (Center for Synaptic Brain Dysfunctions, IBS / KAIST)
17:30-17:40	The effects of apolipoprotein E (ApoE) polymorphism on human hippocampal neurogenesis Hyunah Lee (King's College London)
17:40-17:50	Somatostatin interneurons in the anterior cingulate cortex gate mouse observational fear Arie Kim (Center for Cognition and Sociality, IBS)
17:50-18:00	A tauopathy-associated tau fragment causes autophagic dysfunction Dina Dakkak (King's College London)
18:00-18:10	Closing Remarks - Hee-Sup Shin (IBS)
18:30-20:30	<i>Symposium Dinner</i>