

BRC Int'l Conference 2012 @ Jeju

*in conjunction with
the 5th BRC-UK Joint Symposium on Neuroscience*

**“10 years of progress &
perspectives in neuroscience”**

**27 ~ 29, June, 2012
ShineVille Luxury Resort, Jeju**

► Plenary Lectures

- Graham Collingridge (Univ of Bristol)
- Morgan Sheng (Genentech)

► The 5th BRC-UK Joint Symposium on Neuroscience



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| • Timothy J. Bussey
(Univ of Cambridge) | • Trevour Robbins
(Univ of Cambridge) | • Peter St. George-Hystop
(Univ of Cambridge) |
| • Noel Buckley
(King's College London) | • Kei Cho
(Univ of Bristol) | • Hugh Piggins
(Univ of Manchester) |

► Symposia

- | | | |
|---------------------------------|--------------------------------|----------------------------------|
| • S1 Neurogenesis | • S6 Neuronal Signaling | • S11 GPCR |
| • S2 Neural Plasticity | • S7 Neuroethics | • S12 Stress |
| • S3 Stroke | • S8 Drug Abuse | • S13 Pain |
| • S4 Epilepsy | • S9 Brain Imaging | • S14 BioClock |
| • S5 Parkinson's Disease | • S10 NeuroTools | • S15 Alzheimer's Disease |

► Forum for Promoting Neuroscience in Korea

주 최 : 21세기 프론티어연구개발사업 뇌기능활용및뇌질환치료기술개발연구사업단

주 관 : 교육과학기술부, 한국연구재단

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"10 years of progress & perspectives in neuroscience"

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Program at a glance

27, June (Wed.)	28, June (Thu.)		29, June (Fri.)
Registration	S6 Neuronal Signaling (08:30-10:30)	S8 Drug Abuse (08:30-10:30)	Plenary Lecture (08:30-09:15)
	Coffee Break (10:30-10:45)		Coffee Break (09:15-09:30)
	S7 Neuroethics (10:45-12:25)	S9 Brain Imaging (10:45-12:25)	S14 BioClock (09:30-10:50)
			S15 Alzheimer's Disease (09:30-10:50)
Opening Ceremony (13:00-13:30)	Lunch (12:25-13:30)		Closing & Dismiss
Plenary Lecture (13:30-14:15)	Plenary Lecture (13:30-14:15)		Lunch (12:25-13:30)
Coffee Break (14:15-14:30)	Coffee Break (14:15-14:30)		
S1 Neurogenesis (14:30-17:30)	S3 Stroke (14:30-16:10)	S10 NeuroTools (14:30-16:50)	S12 Stress (14:30-16:30)
Coffee Break (16:10-16:30)			Coffee Break (16:30-16:50)
S1 Neurogenesis (14:30-17:30)	S4 Epilepsy (16:30-17:30)	Coffee Break (16:50-17:10)	S13 Pain (16:50-18:10)
Coffee Break (17:30-17:45)		S11 GPCR (17:10-18:10)	
S2 Neural Plasticity (17:45-19:25)	S5 Parkinson's Disease (17:45-19:25)	Coffee Break (18:10-18:20)	
		Forum for Neuroscience (18:10-19:30)	Interview for Lecturer (18:10-19:30)
Welcome Dinner	Banquet Dinner		

주 최 _ 21세기 프론티어연구개발사업 뇌기능활용및뇌질환치료기술개발연구사업단
주 관 _ 교육과학기술부, 한국연구재단

27, June (Wed.)

Registration

Opening Ceremony (13:00-13:30)

Plenary Lecture (13:30-14:15)

Graham Collingridge ----- "Molecules of the mind : the study of synaptic plasticity in the hippocampus"
(Univ of Bristol)

Coffee Break (14:15-14:30)

S1 Neurogenesis (14:30-17:30)

- S1-01 Jaesnag Kim (Ewha Womans Univ)
A positive feedback loop between Sox2 and Sox6 inhibits neuronal differentiation in the developing CNS.
- S1-02 Keejung Yoon (Sungkyunkwan Univ)
Non-canonical Notch signaling pathway during brain development.
- S1-03 Noel Buckley (King's College London)
Transcriptional and epigenetic regulation of neural stem cells (tentative).
- S1-04 Yun-Hee Kim-Kwon (Kyunghee Univ)
Regulation of neurogenic factors in neuronal differentiation by Homeodomain-interacting Protein Kinase 2
- S1-05 Hae-young Suh-Kim (Ajou Univ)*
cAMP-mediated post-translation modification of a proneural bHLH transcription factor, NeuroD

S3 Stroke (14:30-16:10)

- S3-01 Zhang ZG (Henry Ford Hospital)
MicroRNAs in brain remodeling after stroke
- S3-02 Won-Ki Kim (Korea Univ)*
A3 adrenergic receptor-mediated suppression of inflammatory responses in cerebral ischemia
- S3-03 Jong-sung Kim (Univ of Ulsan)
Post-stroke depression and emotional incontinence: role of serotonin and gene polymorphism
- S3-04 Jee-Yin Ahn (Sungkyunkwan Univ)
Roles of B23/Nucleophosmin in neuroprotection
- S3-05 Moo-Ho Won (Kangwon Nat'l Univ)
Neuroprotective effects of a new synthetic aspirin-decursinol adduct in animal models of ischemic stroke

Coffee Break (16:10-16:30)

S1 Neurogenesis (14:30-17:30)

- S1-06 Woong Sun (Korea Univ)
Role of Ezrin-Radixin-Moesin Proteins in the migration of neuroblasts
- S1-07 Soo-Chul Park (Sookmyung Women's Univ)
Eph-ephrin signaling regulates the neural epithelial stem cell expansion during the brain development
- S1-08 Seungbok Lee (Seoul Nat'l Univ)
dCIP4 (Drosophila Cdc42-Interacting Protein 4) and synaptic growth

S4 Epilepsy (16:30-17:30)

- S4-01 Tae-Cheon Kang (Hallym Univ)*
Oh-Shin Kwon (Kyungpook Nat'l Univ)
The roles of P2X7 receptor in epilepsy : Leukocyte infiltration, Astroglial death and Seizure susceptibility
- S4-02 Young Mok Park (KBSI)
Proteomic analysis of epilepsy brain tissues using MALDI - MS imaging
- S4-03 Byung Ju Lee (Univ of Ulsan)
Mitigated seizure susceptibility of mice lacking CD137 expression

Coffee Break (17:30-17:45)

S2 Neural Plasticity (17:45-19:25)

- S2-01 Timothy J. Bussey (Cambridge Univ)
Plasticity and memory in the medial temporal lobe: novel approaches
- S2-02 Hyeon Son (Hanyang Univ)*
Molecular evidences for antidepressant mechanism in the hippocampus
- S2-03 Suk-Ho Lee (Seoul Nat'l Univ)
Novel role of reluctant synaptic vesicles in short-term plasticity
- S2-04 Joung-Hun Kim (POSTECH)
Molecular mechanisms underlying synaptic localization of NMDA receptors
- S2-05 Min Whan Jung (Ajou Univ)
Hippocampal role in binding elements of episodic memory

S5 Parkinson's Disease (17:45-19:25)

- S5-01 Hiroyoshi Ariga (Hokkaido Univ)
Function of DJ-1 and its therapeutic application to Parkinson's disease
- S5-02 Young Jun Oh (Yonsei Univ)
A novel pro-survival role of Cdr2 during drug-induced neurodegeneration
- S5-03 Onyou Hwang (Univ of Ulsan)*
MMP-3 in dopaminergic neurodegeneration
- S5-04 Kwang Chul Chung (Yonsei Univ)
Ubiquitin, parkin, and parkinson's disease
- S5-05 Eun Hye Joe (Ajou Univ)
Microglial function altered by LRRK2

28, June (Thu.)

S6 Neuronal Signaling (08:30-10:30)

- S6-01 Kei Cho (Bristol Univ)
Aberrant synaptic plasticity in alzheimer's disease
- S6-02 Dongeun Park (Seoul Nat'l Univ)*
Role of β Pix in dendritic spine development
- S6-03 Sunghoe Chang (Seoul Nat'l Univ)
Linking glutamatergic and dopaminergic signaling in dendritic spines
- S6-04 Sung-Oh Huh (Hallym Univ)
Critical role of lysophospholipid signalings in migration of telencephalic neuroepithelial cells
- S6-05 Sukwoo Choi (Seoul Nat'l Univ)
Amygdala synaptic plasticity and conditioned fear memory
- S6-06 EunJoon Kim (KAIST)
Synaptic proteins in autism spectrum disorders

S8 Drug Abuse (08:30-10:30)

- S8-01 Toshitaka Nabeshima (Meijo Univ)
New physiological functions of drug dependence regulating molecule, Shat1
- S8-02 Hyoung-Chun Kim (Kangwon Nat'l Univ)*
Role of enzymatic antiperoxidant in the methamphetamine-induced neuropsychotoxicity
- S8-03 Choon-Gon Jang (Sungkyunkwan Univ)
The role of TRPV1 in drug dependence
- S8-04 Jeong Won Jahng (Seoul Nat'l Univ)
Food rewarding in the regulation of stress response
- S8-05 Sang Ki Park (POSTECH)
Multifaceted functions of disrupted-in-schizophrenia 1 in the cell
- S8-06 Hyewhon Rhim (KIST)
Potential roles of 5-HT6 receptors and its binding proteins in neurological disease

Coffee Break (10:30-10:45)

S7 Neuroethics (10:45-12:25)

- S7-01 Sakura Osamu (Tokyo Univ)
A proposal of three laws for ethics of BMI
- S7-02 Sungook Hong (Seoul Nat'l Univ)*
fMRI lie detection: ethical and legal issues
- S7-03 Dayk Jang (Seoul Nat'l Univ)
Humanities of mirror-neuron
- S7-04 Yeonsoo Cho (Young In Mental Hospital)
The ethics of psychopharmacological enhancement
- S7-05 Sang Wook Yi (Hanyang Univ)
More is different: a case against 'no-discontinuity' argument for human enhancement

S9 Brain Imaging (10:45-12:25)

- S9-01 Michael Chee (Duke-NUS Graduate Medical School)
Cognitive mechanisms underlying performance impairment in sleep
- S9-02 Jun-Soo Kwon (Seoul Nat'l Univ)
Endophenotype of schizophrenia
- S9-03 Seung-Bong Hong (Sungkyunkwan Univ)
Neuroimaging study on brain pathophysiology of sleep disorders
- S9-04 Sang Eun Kim (Seoul Nat'l Univ)
Imaging biomarkers in CNS drug discovery and development
- S9-05 Dong Soo Lee (Seoul Nat'l Univ)*
Brain disease-designation based on connectivity

Lunch (12:25-13:30)

Plenary Lecture (13:30-14:15)

Morgan Sheng
(Genentech)

"Life, death and disease of synaptics"

Coffee Break (14:15-14:30)

S10 NeuroTools (14:30-16:50)

- S10-01 Hyung-Cheul Shin (Hallym Univ)*
Odorant discrimination by decoding many single units from main olfactory bulb
- S10-02 Beop-Min Kim (Korea Univ)
Development of near-infrared (NIR) based neurotool for brain machine interface (BMI)
- S10-03 Chun Kee Chung (Seoul Nat'l Univ)
Foreseeing brain's motor intention and implication in brain-machine interface
- S10-04 Mincheol Kim (LAXTHA Inc.)
EEG and ECG detection using electric contactless electric potential
- S10-05 Yoonkey Nam (KAIST)
In vitro neural stimulation tools for synaptic plasticity
- S10-06 Sunyoung Kim (Seoul Nat'l Univ)
Ultrasound image-guided gene delivery technology and its application in brain and neurodegenerative disease research
- S10-07 Chulhee Choi (KAIST)
Novel ICG fluorescence imaging for cerebral blood flow measurement in small animals

S12 Stress (14:30-16:30)

- S12-01 Trevour Robbins (Cambridge Univ)
A topic in psychopharmacology
- S12-02 Pyung-Lim Han (Ewha Womans Univ)*
Behavioral stress promotes depression via metabolic stress
- S12-03 Hong-Won Suh (Hallym Univ)
Behavioral stress causes alterations in multiple signal pathways in the mouse brain
- S12-04 Ja-Hyun Baik (Korea Univ)
Dopamine D2 receptor in stress and addiction
- S12-05 Daesoo Kim (KAIST)
Activity lateralization of mPFC hemispheres induced by social defeat stress
- S12-06 In-Kyoon Lyoo (Seoul Nat'l Univ)
Metabolic stress and depression

Coffee Break (16:30-16:50)

S11 GPCR (17:10-18:10)

- S11-01 Kazuyoshi Tsutsui (Waseda Univ)
Origin and molecular evolution of gonadotropin-inhibitory hormone (GnIH)
- S11-02 Jae Young Seong (Korea Univ)*
Identification of novel neuropeptides acting at GPCRs
- S11-03 Young Joon Kim (GIST)
Central peptidergic ensembles modulate the mating decision of female Drosophila melanogaster

S13 Pain (16:50-18:10)

- S13-01 Seog-Bae Oh (Seoul Nat'l Univ)
TRPV1 in GABAergic interneurons mediates long-term depression and disinhibition in the spinal cord: implication for mechanical allodynia
- S13-02 Jang-Hern Lee (Seoul Nat'l Univ)
The mechanism of spinal sigma-1 receptor mediated phosphorylation of NMDA receptor NR1 subunit in pain
- S13-03 Heung-Sik Na (Korea Univ)*
Chronically relapsing pruritic dermatitis manifested in rats by neonatal treatment of capsaicin

Coffee Break (18:10-18:20)

Forum for Neuroscience (18:10-19:30)

Interview for Lecturer (18:10-19:30)

Banquet Dinner

29, June (Fri.)

Plenary Lecture (08:30-09:15)

"To be announced"

Coffee Break (09:15-09:30)

S14 BioClock (09:30-10:50)

- S14-01 Hugh Piggins (Manchester Univ)
To be announced
- S14-02 Seung-Hee Yoo (UT Southwestern Medical Center Neuroscience)
Positional Cloning and Characterization of Circadian Mutant Past-time
- S14-03 Kyungjin Kim (Seoul Nat'l Univ)*
Nuclear receptor, rev-erb alpha impacts on circadian regulation of mood
- S14-04 Joon-Ho Choe (KAIST)
Sleep regulation of histamine receptors in Drosophila

S15 Alzheimer's Disease (09:30-10:50)

- S15-01 Peter St. George-Hyslop (Cambridge Univ)
Genetics of alzheimer's disease
- S15-02 Yoo-Hun Suh (Seoul Nat'l Univ)
Stem cell therapy for Alzheimer's disease
- S15-03 Yong-Keun Jung (Seoul Nat'l Univ)*
New target validation and modifier of amyloid pathway in Alzheimer's disease
- S15-04 Ho-Jin Jang (CrystalGenomics, Inc.)
Drug discovery against LynK for the treatment of AD

Closing & Dismiss

Lunch (12:25-13:30)

▶ **Transportation**



● **Airline**

- **Korean Air (kr.koreanair.com)**
Promotion fare (Mon~Thur): 73,,400 KRW / Normal fare (Fri~Sun): 84,000 KRW
- **Asiana (www.flyasiana.com/)**
Promotion fare (Mon~Thur): 73,,400 KRW / Normal fare (Fri~Sun): 84,000 KRW
- **Jeju Air (www.jejuair.net)**
Promotion fare (Mon~Thur): 58,800 KRW / Normal fare (Fri~Sun): 67,600 KRW
- **Jin Air (www.jinair.com)**
Promotion fare (Mon~Thur): 58,800 KRW / Normal fare (Fri~Sun): 67,600 KRW

● **Free Shuttle** (Jeju Int'l Airport ➔ ShineVille Luxury Resort)

- Operation Time : 08:30 / 09:00 / 10:30 / 11:00 / 13:30 / 15:30 / 17:00 / 20:30
- Place of departure : Jeju Int'l Airport parking lot no.7, Limousine bus with grey Shineville logo

● **Taxi** (Jeju Int'l Airport ➔ ShineVille Luxury Resort)

- Cost of Pyo-sun(Inc.) Call Taxi service : 25,000 KRW (064-787-5252/8282)
- Cost of Jeju(Inc.) Taxi service : 35,000 KRW