IBRO 2019
The 10th IBRO World Congress of Neuroscience

21 - 25 September 2019
EXCO, Daegu, Korea
www.ibro2019.org

WELCOME TO IBRO 2019!

On behalf of the Organizing Committee, we are privileged and honored to host the 10th World Congress of Neuroscience, International Brain Research Organization (IBRO 2019) between September 21 - 25, 2019 at EXCO, Daegu, Korea. The IBRO World Congress has been held every four (4) years since 1982 and it is one of the most prestigious international meetings of its kind, attended by over 4000 neuroscientists from around the world. It is a fascinating opportunity for participants to share in the latest knowledge and scientific findings with their peers in diverse areas in brain research and neuroscience.

IBRO aims to promote neuroscience research and communication among researchers around the world. One of its foremost emphases is supporting education of young investigators in the developing countries.

We plan to meet the aims and standards of IBRO with an excellent scientific program. Plenary and keynote lectures including that of Nobel laureate Professor Erwin Neher and over 40 symposia with nearly two hundred experts in various fields of neuroscience will be the centerpiece of the conference. We will also have multiple satellite sessions and meetings for special topics in order to bring a rich content to all participants.

For product presenters, we invite you and your company to join us and take advantage of this unique event and advertise your products/services as part of the neuroscience community. The network of scientists from both academia and industry will have you exposed to new opportunities for your company.

Our organizers will make every effort to offer a rich content and diverse viewpoints unparalleled among the neuroscience meetings. We thank IBRO, FAONS (Federation of Asian-Oceanian Neuroscience Societies), City of Daegu, and all the sponsors and exhibitors for their contribution to IBRO 2019. We look forward to seeing you at EXCO in Daegu, Korea. Thank you.

Sincerely yours,

Pann-Ghill Suh and **Sung-Oh Huh**
Co-Chairs of Organizing Committee
IBRO 2019

KEY DATES

- **Abstract Submission**
  14 January - 15 May, 2019
- **Early-Bird Registration**
  14 January - 15 May, 2019
- **Deadline for the Exhibition Application**
  31 May 2019
- **Deadline for Online Hotel Reservation**
  15 August 2019

ABSTRACT SUBMISSION

IBRO 2019 Organizers are pleased to seek abstracts describing the results of original research on any aspect of the scientific study of the neuro system. You can discuss your research article, discover new ideas, and expand your network with scientists in poster presentation at the IBRO 2019. Early registration must be made prior to abstract submission. Early registration and abstract submissions are due by **April 14, 2019**. For abstract submission guidelines, please visit the IBRO 2019 website, www.ibro2019.org.

PROGRAM AT A GLANCE

DAY 1 Sat, 21 Sep	DAY 2 Sun, 22 Sep	DAY 3 Mon, 23 Sep	DAY 4 Tue, 24 Sep	DAY 5 Wed, 25 Sep
	Registration			
Registration	INVITED LECTURE Keynote Speaker Peter Mombaert	INVITED LECTURE Keynote Speaker Jerold Chun	INVITED LECTURE Keynote Speaker Hailan Hu	INVITED LECTURE Keynote Speaker Yukiko Gotoh
	Parallel Symposia (2)	Parallel Symposia (4)	Parallel Symposia (5)	Parallel Symposia (7)
Brain Initiative	INVITED LECTURE Keynote Speaker Joseph Takahashi	INVITED LECTURE IBRO-Kavli Lecture Steven E. Hyman	INVITED LECTURE Dana Neuroethics Lecture Judy Illes	INVITED LECTURE Plenary Lecture Erwin Neher
INVITED LECTURE Presidential Lecture Stanislas Dehaene	Luncheon Seminar Poster Session (1)	Luncheon Seminar Poster Session (2)	Luncheon Seminar Poster Session (3)	Luncheon Seminar Poster Session (4)
Opening Ceremony	Parallel Symposia (3)		Parallel Symposia (6)	Parallel Symposia (8)
International Brain Bee Awards	INVITED LECTURE Torsten Wiesel Lecture Hee-Sup Shin		INVITED LECTURE Keynote Speaker Masanobu Kano	Closing Ceremony
Parallel Symposia (1)				
	Banquet		Presidential Dinner	KAOS-IBRO Public Outreach

Exhibition / Poster viewing

REGISTRATION FEE

Categories		Early Bird	Standard	Late / Onsite
Category I	Professional	$250	$300	$350
	Student	$100	$120	$150
Category II, III, IV	Professional	$180	$210	$250
	Student	$60	$80	$100
KSBNS Members*	Professional	$220	$270	$320
	Student	$80	$100	$130
Accompanying Person		$50		
Banquet		$50		

Eligibility categories for reduced registration fees follows the World Bank country classifications. For detailed information on registration, visit the IBRO 2019 website, www.ibro2019.org.

* KSBNS (The Korean Society for Brain and Neural Sciences)

EXHIBIT PROGRAM

- Exhibit Dates | Sun. - Wed., September 22 - 25, 2019
- Location | Grand Ballroom, 3F. EXCO, Daegu, Korea
- Installation | Sat., September 21, 2019, 9 am - 10 pm
- Dismantling | Wed., September 25, 2019, 2 pm -10 pm

Type of Exhibit Booth	Exhibit Fee (US$)		
	Shell Booth	Space Only	Nonprofit Organization
One booth	$3,000	$2,500	$1,000
Two booths	$5,700	$4,700	$2,000
Three booths	$8,500	$7,000	$3,000

Exhibit cost includes four (4) free registrations per booth. Tax (10%) is excluded from the fee. For more sponsorship opportunities and additional exhibit information, visit the IBRO 2019 website, www.ibro2019.org.

How to travel to Daegu, Korea

You can fly directly to Daegu International Airport (TAE) from 22 cities across Asia. Daegu is also a short train trip away from Seoul (Incheon Airport: ICN) and Busan (Airport: PUS), two of the major hubs for international travel. Once in Daegu, information on local transportation to EXCO can be readily found at the airport and train stations. For detailed information, visit the IBRO website (www.ibro2019.org).

About the City of Daegu

The City of Daegu, home to the Korea Brain Research Institute and Daegu-Gyeongbuk Medical Innovation Foundation as well as several major research universities, is a perfect host city for IBRO 2019. Daegu is also a great place to experience the traditional culture and heritage of Korea and her modernity. Situated near the capital of an ancient dynasty, the city is surrounded by several UNESCO World Heritage Sites which are only a short bus ride away. Daegu also features venues for shopping and fine-dining as well as evening entertainments of all kinds. The City welcomes all participants of IBRO 2019!

Congress Venue – EXCO

IBRO 2019 will be held at the EXCO Convention Center in Daegu, Korea. EXCO is the major convention center in the southeastern region of Korea and an integral part of the Daegu metropolitan area serving its burgeoning business and industry sectors. Only a short distance from the airport and train station, EXCO is always ready to welcome its visitors.

INVITED SPEAKERS

PRESIDENTIAL LECTURE

Stanislas Dehaene
College de France, France

Topic
How we learn: Building bridges between neuroscience and education
Achievement
- Director of INSERM Unit 562 "Cognitive Neuroimaging"
- 1999 James S. McDonnel Foundation Centennial Fellowship

IBRO-KAVLI LECTURE

Steven E. Hyman
Stanley Center for Psychiatric Research at Broad Institute of MIT and Harvard, USA

Topic
A new molecular map of psychiatric disease mechanisms
Achievement
- 2015 President of Society for Neuroscience

DANA NEUROETHICS LECTURE

Judy Illes
Neurology and Canada Research Chair in Neuroethics at the University of British Columbia, Canada

Topic
On the ethics of neuroethics in international brain research
Achievement
- Co-Founder and President, International Neuroethics Society

KEYNOTE SPEAKER

Jerold Chun
Neuroscience Drug Discovery, Sanford Burnham Med. Discovery Institute, USA

Topic
Genomic mosaicism and the Alzheimer's disease brain
Achievement
- 2018 Leadership Award, Hydrocephalus Association
- 2016 Alzheimer's San Diego Researcher of the Year

KEYNOTE SPEAKER

Yukiko Gotoh
Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan

Topic
Chromatin-level regulation of neural stem/progenitor cell fate
Achievement
- 6th JSPS PRIZE, Japan Society for the Promotion of Science
- Japan Academy Medal

KEYNOTE SPEAKER

Peter Mombaerts
Max Planck Research Unit for Neurogenetics, Germany

Topic
Targeting olfaction
Achievement
Director, Max Planck Institute of Biophysics, Frankfurt (2006-2013)

TORSTEN WIESEL LECTURE

Hee-Sup Shin
Center for Cognition and Sociality, Institute for Basic Science, Korea

Topic
Genetic and circuit analysis of empathy behaviors in the mouse
Achievement
- 2015 Hotchkiss Lectureship Award
- 2006 National Honor Scientist, MOST

PLENARY LECTURE

Erwin Neher
Max-Planck Institute for Biophysical Chemistry Research, Germany

Topic
Modulation of short-term plasticity at a glutamatergic synapse
Achievement
- 1991 Nobel Prize in Physiology or Medicine

KEYNOTE SPEAKER

Joseph Takahashi
Southwestern Medical Center University of Texas, USA

Topic
Circadian clock genes and the transcriptional architecture of the clock mechanism
Achievement
- 2014 Thomson Reuters Highly Cited Researcher in Biology and Biochemistry
- 2012 Outstanding Scientific Achievement Award from the Sleep Research Society

KEYNOTE SPEAKER

Hailan Hu
Zhejiang University Interdisciplinary Institute of Neuroscience and Technology, China

Topic
Neural mechanism of social and emotional behavior – from pecking order to ketamine
Achievement
- 2016 Tan Jia Zhen Life Science Award
- 2015 Chang Jiang Scholar Award

KEYNOTE SPEAKER

Masanobu Kano
Department of Neurophysiology, Graduate School of Medicine, The University of Tokyo, Japan

Topic
Neural mechanisms of synapse remodeling in the developing brain
Achievement
- 2015 Uehara Award
- 2015 Medal with Purple Ribbon

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SYMPOSIA

Theme	Organizer	Symposium Titles
Cognition and behavior	Mazen Kheirbek	Visualizing and controlling circuits that generate emotional behavior
	Lucas De Oliveira Alvares	Neurobiological bases of memory updating: Brain mechanisms and clinical application
	Jin-Hee Han	Mechanism of memory engram
	Minmin Luo	Hypothalamic control of social behavior
	Andrew Lawrence	Behavioral control and reward-seeking
	Fabricio Do Monte	The "emotional thalamus" on the regulation of reward, fear, and aversion
	Hitoshi Okamoto	Imaging cognition and motivation in zebrafish
Development	Carina Hanashima	Intracellular and intercellular signaling in cortical cell fate control
	Yoichi Kosodo	Mechanical factors in brain development
	Jin Woo Kim	Transcriptional regulation of neural cell fate
	Alain Chedotal	Development and plasticity of brain connectivity
Disorders of the nervous system	Mauro Costa-Mattioli	Autism spectrum disorders: From mechanism to novel treatment
	Kazutaka Ikeda	Frontiers in neuropsychopharmacology of reward and pain
	Ja-Hyun Baik	Mouse models of neuropsychiatric disorders: Integrative analyses from genes to circuits
	Tommaso Pizzorusso	Towards an understanding of neural basis of neurodevelopmental disorders: From cells to circuits
	Toru Takumi	New perspectives on mental illness research
	Zhiying Wu	Advances in neurodegenerative diseases research
Glia, glia-neuron interactions	Tian-Ming Gao	Astrocytes in health and disease
	Kyoungho Suk	Glial regulation of brain physiology and pathology
	Lucio Annunziato	Ionic transporters in microglia, astrocytes and oligodendrocytes as putative druggable targets in neurological disorders
	Jiawei Zhou	The role of NG2 glia in brain disorders
	Sung Joong Lee	Neuron-glia interactions in sensory disorderss
Homeostatic and neuroendocrine systems	Ki Woo Kim	Homeostatic and neuroendocrine systems
	Patrick Fuller	The gating and maintenance of sleep and wake: New circuits and insights
	Keith W. Kelley	Dialing in the dialogue between infl ammation and the brain
New technology-Neurotool	Michael Roukes	Next-gen neurotech
	Won Do Heo	New technologies for visualizing and controlling the brain functions
	Haruhiko Bito	Advance in circuit interrogation technologies
Physiology: neuronal excitability and synapse function	Michisuke Yuzaki	Recent excitements about excitatory synapses
	Ted Abel	New molecular insights into the synaptic tagging and capture hypothesis
	Juan Lerma	From synaptic and network plasticity to behavior
	Nigel Emptage	The NMDA receptors in synapse physiology and brain diseases
Physiology: systems/network functions, computational neuroscience	Mayank Mehta	Network/Computation (TBA)
	Srikanth Ramaswamy	Neuromodulatory regulation of brain health and disease: Unifying experiments and computational models
	Lan Ma	Valence and reward encoding
Sensory and motor systems	Uhtaek Oh	Recent advance in studying neural mechanisms for pain
	Kazuo Kitamura	Multi-areal circuit mechanisms of action
	Kwon-Seok Chae	Magnetoreception, the sixth sense of animal: From worms to human
	Tadashi Isa	Novel concepts of the visual hierarchy
	Satoshi Kojima	Birdsong, a tractable model system for studying basal ganglia and dopamine-dependent skill learning

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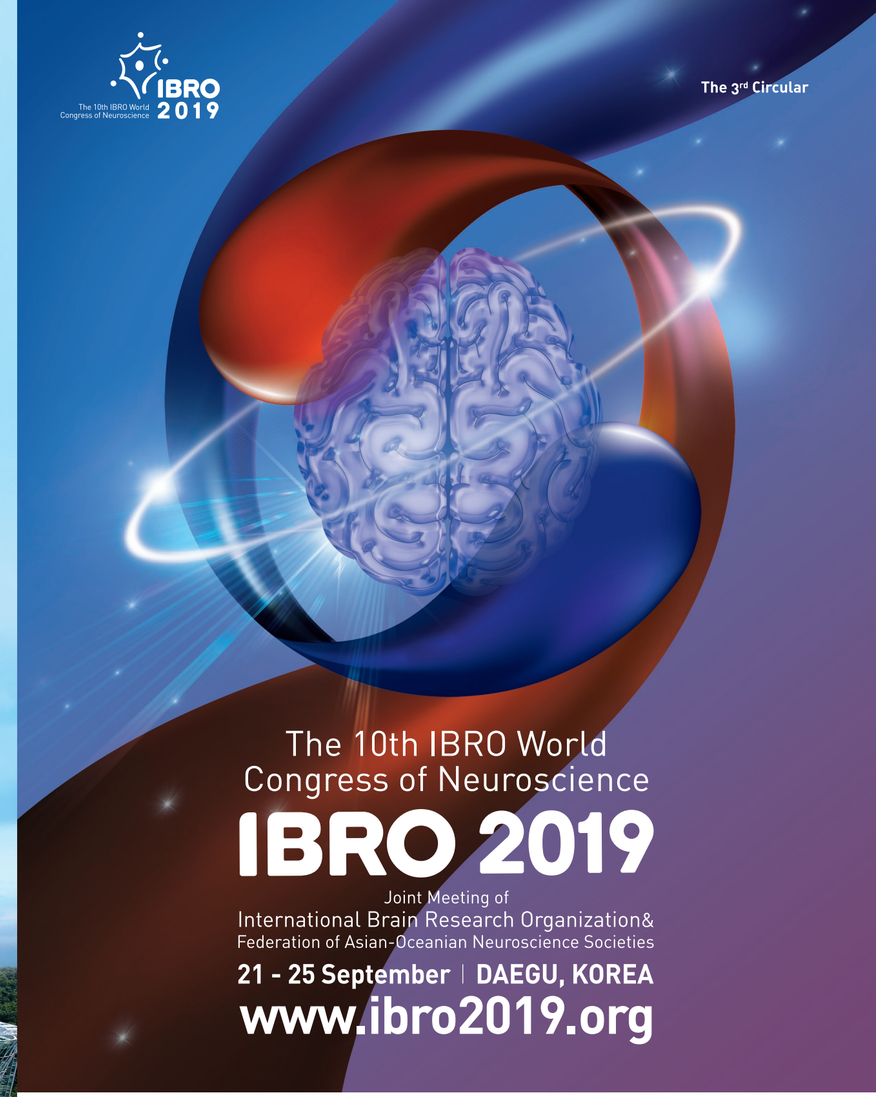
The 3rd Circular



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Joint Meeting of
International Brain Research Organization&
Federation of Asian-Oceanian Neuroscience Societies

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Korea Brain Research Institute
The Korean Society for Brain and Neural Sciences
Ministry of Science and ICT
KOREA TOURISM ORGANIZATION
DAEGU METROPOLITAN CITY
DAEGU Convention & Visitors Bureau
INTERNATIONAL BRAIN IBRO RESEARCH ORGANIZATION
FAONS