

The 65th Annual Meeting of Korean Physiological Society

Discovery of Colorful Life

KPS 2013

22-24 | 10 | 2013

Chung-Ang University Art Center

Korean Physiological Society
Chung-Ang University

Tuesday, October 22

Chung-Ang University

17:30-18:30 **Opening Lecture** : Stem cell and physiology

Hong Jun Lee (Chung-Ang University, Korea)

Wednesday, October 23

Art center of Chung-Ang University

Time	Hall A	Hall B
09:30-13:20	Registration	
10:00-12:00	Satellite Symposium : The roles of cation channels in pathophysiology of the human bodies (Sponsored by Seoul national University TRP Research Lab) <i>Chair : Insuk So (Seoul National University TRP Research Lab)</i> Gating mechanisms of Orai1 and TRPC channels by STIM1 <i>Shmuel Muallem (NIH, USA)</i> Generating and sensing the flow signal for establishing left-right asymmetry <i>Hiroshi Yamada (Osaka University, Japan)</i> TMC-1 is a cation channel for sodium sensation in C. elegans nociceptor neurons <i>SunWook Hwang (Korea University, Korea)</i> The roles of cation channels in pacemaking activity in Interstitial Cells of Cajal <i>Byung Joo Kim (Pusan National University, Korea)</i> Neurotoxic action of oxidized TRPC5 in abnormal glutathione homeostasis <i>Chansik Hong (Seoul National University, Korea)</i>	
11:40-12:00	Advisory Board Meeting (11F R&D Center University Club)	
12:00-13:20	Board of Directors Meeting (11F R&D Center University Club)	
13:20-13:30	Opening Ceremony	
13:30-14:30	Plenary Lecture : Dynamic aspects of the function and stoichiometry of ion channel complexes <i>Chair : Byung-Il Min / Yoshihiro Kubo (NIPS, Japan)</i>	
14:30-16:30	Symposium I : Learning and memory (Sponsored by Neuro-Immune Information Storage Network MRC) <i>Chair : Sang Jeong Kim</i> Synapse-to-nucleus and nucleus-to-synapse signaling: molecular mechanisms of Arc/Arg3.1 regulation and its role on synaptic function <i>Hiroaki Okuno (Medical Innovation Center Kyoto University, Japan)</i> Structural and molecular remodeling of single dendritic spines during long-term potentiation <i>Yasunori Hayashi (Brain Science Institute, RIKEN, Japan)</i> Mechanism and adult treatment for the memory deficits associated with mouse models of RASopathy <i>Yong-Seok Lee (Chung-Ang University, Korea)</i> Neuron-glia crosstalk under pathological condition of Alzheimer's disease <i>Inhee Mook-Jung (Seoul National University, Korea)</i>	Special Focus Session I : Ion channels in mechanotransduction <i>Chair : Young Min Bae</i> Revisiting ion channel mechanosensitivity <i>Young Min Bae (Konkuk University, Korea)</i> The mechanosensitivity of TREK-2 channel: Role of PLC activation by membrane stretch <i>Joohyun Nam (Dongguk University, Korea)</i> Segregation of TRP channels in Drosophila mechanosensory cilia <i>Yun Doo Chung (University of Seoul, Korea)</i> Ectopic pacemaking in atrial myocytes under fluid pressure <i>Sun-Hee Woo (Chungnam National University, Korea)</i>
16:30-18:00	Poster oral presentation I : Ion channels, muscles, and molecular physiology	Poster Presentation
18:00	Standing Reception (Faculty office building / Gymnasium)	

Thursday, October 24

Art center of Chung-Ang University

Time	Hall A	Hall B
9:00-9:30	Youdang Scholarship Award Lecture	
09:30-12:00	Symposium II : Integrative and computational physiology <i>Chair : Chae Hun Leem</i> Modelling for better understanding physiological phenomena <i>Chae Hun Leem (Ulsan University, Korea)</i> Simulation of pacemaker activity in Interstitial Cells of Cajal <i>Jae Boum Youm (Inje University, Korea)</i> A physiomic model for the analysis of heart mechanics and blood circulation <i>Eun Bo Shim (Kangwon National University, Korea)</i> Basic and clinical application of cardiac arrhythmia in-silico modeling <i>Hui-Nam Pak (Yonsei University, Korea)</i> Hemodynamics in vascular disease <i>Kyehan Rhee (Myongji University, Korea)</i>	Special Focus Session II :Physiological studies using Drosophila melanogaster : from molecules to behaviors <i>Chair : Ji hye Lee</i> Why do we study Drosophila melanogaster? : a powerful genetic model system to study molecular functions and relevant behaviors <i>Ji hye Lee (Pusan National University, Korea)</i> Sensory discrimination of polymodal TRPA1 in Drosophila <i>KyeongJin Kang (Sungkyunkwan University, Korea)</i> Modeling and studying Parkinson's disease using Drosophila genetics <i>Hyongjong Koh (Dong-A University, Korea)</i> A Stress Hormone Regulates the Female Reproduction by Facilitating the Sperm Storage <i>Young-Joon Kim (GIST, Korea)</i> Role for dCLOCK in behavioral synchronization to daily temperature cycle <i>Eun Young Kim (Ajou University, Korea)</i>
12:00-12:30	General Assembly	
12:30-13:30	Photograph and Lunch (College of Business Administration)	
13:30-15:00	Poster oral presentation II : Neuronal, Systemic, and Integrative physiology Symposium III : Disease animal models <i>Chair : Tong Mook Kang</i> The power of mouse genetics <i>Han-Woong Lee (Yonsei University, Korea)</i> Prediction of gene function through mouse phenotype analysis in metabolic syndrome <i>Je Kyung Seong (Seoul National University, Korea)</i> Mechanism and therapy for vascular malformation: lesson from animal models <i>S. Paul Oh (Gachon University, Korea)</i> A rat model of atopic pruritus <i>Heung Sik Na (Korea University, Korea)</i>	Poster Presentation Special Focus Session III : Inner Ear Physiology <i>Chair : Min Sun Kim</i> Electrophysiology related cochlear implantation <i>Jae Young Choi (Yonsei University, Korea)</i> Noise induced hearing loss & hair cell regeneration <i>Jong Woo Chung (Ulsan University, Korea)</i> Vestibular afferent signaling & homeostasis <i>Gyu Cheol Han (Gachon University, Korea)</i> Role of vestibular system in function of basal ganglia in rats <i>Min Sun Kim (Wonkwang University, Korea)</i>
17:00-17:30	Poster Prize Award and Closing Ceremony	