Message from the President

I am honored to serve as the president of AKN for the term 2008-2010. I am passionate toward AKN and have been a strong supporter for this organization. I am one of the founding members of the AKN and have served secretary for the first 14 years since its inception in 1982 and served one term of the President in 1996-1998. AKN has grown a lot since my direct involvement, in terms of both the number of attendance and the quality of science. This requires much more sophisticated way to run AKN and its annual meeting. It also takes a lot bigger funds to run this organization. This necessitates an effective fund raising activity, which I will concentrate on. I pledge that I will faithfully serve for the growth of AKN following my predecessors’ strong accomplishment.

I hope to see everyone at our next annual meeting in San Diego on November of 2010.

I wish best everyone on their scientific endeavor.

Jin Mo Chung, Ph.D.

President of AKN
Professor
Department of Neuroscience and Cell Biology
University Of Texas Medical Branch Galveston

AKN 2009 Annual Meeting Summary

1. A very successful annual AKN meeting was held at Ida Noyes Hall, University of Chicago, Chicago, Illinois, from 5:30 PM till 9:00 PM on October 19, 2009.
2. Over 200 members attended the meeting, 166 of which were registered. Of the registered attendees, 89 were from Korea and 77 were from either the US or other foreign countries.

3. The meeting was conducted by Dr. Kyung-Tai Min, the Executive Secretary of the AKN, and progressed on the following schedule as presented in page 4.

4. A total of 37 posters were presented by the members and 11 AKN Research Awards were presented to the following members listed in page 3. Congratulations to all the awardees!

5. There was a special AKN logo contest. Among 10 logo applications (below), the winner was Kyu-Hee Kim from Seoul National University. Hee-Young Kim from UTMB Galveston was the runner-up. The winner’s logo is adopted as the official logo of AKN from this day on.

6. The meeting was adjourned at 9:00 PM with a promise of reconnecting next year in San Diego (November 15, 2010)

7. We are grateful for the support of the sponsors of AKN meeting in 2009, listed in page 7.
**List of 2009 AKN Research Awardees**

<table>
<thead>
<tr>
<th>Category</th>
<th>Awardees</th>
<th>Affiliation</th>
<th>Award Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-doc</td>
<td>Young Ho Suh, Ph.D.</td>
<td>NINDS</td>
<td>NIH-Brain Res Center</td>
</tr>
<tr>
<td>Post-doc</td>
<td>Ji-Eun Kim, Ph.D.</td>
<td>University of California, San Diego</td>
<td>Stem Cell Res Center</td>
</tr>
<tr>
<td>Post-doc</td>
<td>Jin Sung Choi, Ph.D.</td>
<td>Yale University</td>
<td>Korean Society for Brain and Neural Sciences</td>
</tr>
<tr>
<td>Post-doc</td>
<td>Yong Duck Yang, Ph.D.</td>
<td>Seoul National University</td>
<td>SK Life Science</td>
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<tr>
<td>Pre-doc</td>
<td>Moonnoh Ryan Lee</td>
<td>Mayo Clinic College of Medicine</td>
<td>Acupuncture and Meridian Science Research Center</td>
</tr>
<tr>
<td>Pre-doc</td>
<td>Seok-Kyu Kwon</td>
<td>KAIST</td>
<td>AKN</td>
</tr>
<tr>
<td>Pre-doc</td>
<td>Kyu-Hee Lee</td>
<td>Seoul National University</td>
<td>Center for Neural Science, KIST</td>
</tr>
<tr>
<td>Pre-doc</td>
<td>Wha Young Kim</td>
<td>Yonsei University</td>
<td>Scitech Korea</td>
</tr>
<tr>
<td>Pre-doc</td>
<td>Jong Won Lee</td>
<td>Ajou University</td>
<td>Neuroscience Research Institute</td>
</tr>
<tr>
<td>Pre-doc</td>
<td>Hyusu Lee</td>
<td>Seoul National University</td>
<td>AKN</td>
</tr>
<tr>
<td>Pre-doc</td>
<td>Chul-Kyu Park</td>
<td>Seoul National University</td>
<td>AKN</td>
</tr>
</tbody>
</table>

“200 members attended at 2009 AKN events were able to socialize and exchange their scientific interests”
2009 AKN Annual Meeting Program

Ida Noyes Hall, University of Chicago
Chicago, IL, USA
Monday, October 19, 2009, 5:30 p.m. - 9:00 p.m.

5:30 p.m. - 6:00 p.m.
Registration/Check-In

6:00 p.m. - 7:30 p.m.
Poster Presentation and Reception

7:30 p.m. - 8:30 p.m.
Welcoming Remarks
President, Dr. Jin Mo Chung
Introduction of Sponsors and Sponsors’ Remarks
Special Presentation:
Kyung Jin Kim, Ph.D.
Professor, Brain & Neuroendocrine Res. Lab.
Department of Biological Sciences,
Seoul National University
Title: “Neuroendocrine Journey with the Hypothalamus:
From Molecules to Behavior”

Michael K. Lee, Ph.D.
Professor, Department of Neuroscience
Co-Director, Center for Neurodegenerative and Neuromuscular Diseases,
University of Minnesota Medical School
Title: “Neurodegeneration and neuroprotection in
transgenic mouse models of AD and PD”

8:30 p.m. - 9:00 p.m.
AKN Research Awards Presentation
Closing Remarks
2009 AKN Poster Presentation

Choi DC. Acupuncture improves functional outcome by alleviating apoptotic cell death via inhibition of microglial activation after spinal cord injury.

Choi JS. Nav1.7 alternative splicing contributes to time-dependent manifestation of inherited erythromelalgia.

Choo YS. Regulation of Parkin and PINK1 by Neddylation.

Chung YC. CB2 prevents BBB leakage and peripheral immune cell infiltration and protects nigrostriatal dopaminergic neurons in the MPTP model of Parkinson’s disease.

Hur EE. Correlation between structural alterations in thentserroneuron circuit and impaired oscillations in the hippocampus in the chronic ketamine model of schizophrenia.

Ha SJ. Amyloid precursor protein-binding protein 1 (APP-BP1) plays an important role in neural stem cell cycle progression.

Han SB. Inositol 1,4,5-trisphosphate 3-kinase isoform A expression is modulated by EGR-1 during neurite development.

Huh Y. Dual firing mode of Thalamocortical neurons to formalin induced pain in awake and freely moving mice.

Im HI. Striatal microRNA controls compulsive cocaine-taking by regulating expression levels of the transcription factor MeCP2.

Jeong SR. Hepatocyte growth factor inhibits glial scar formation and decreases production of chondroitin sulfate proteoglycans after spinal cord injury.

Jun SB. Ethanol potentiation of GABAergic synaptic transmission modulated by 5-HT3 receptors in neuron/bouton preparations from rat hippocampal CA1 region.

Kim HD. Generating the circadian rhythm of glucocorticoid: A link between adrenal clockwork and steroidogenesis.

Kim JE. Directed differentiation of human ES and iPS cells into forebrain neurons.

Kim SW. Minocycline, ghrelin, and an extract of Scutellaria Baicalensis Georgi inhibit temporal and spatial mitochondrial dysfunction after spinal cord injury.

Kim SY. Reorganization of perisynaptic astrocytes in layer V of perilesion motor cortex after ischemic lesions and motor rehabilitation.

Kim WY. Cocaine regulates ERM proteins and PHOA signaling in the nucleus accumbens.

Lee D. Identification of novel binding partners of inositol 1,4,5-trisphosphate 3-kinase A.

Lee H. Calcium signaling mediated by GABA regulates axonal outgrowth of newborn granule cells in hippocampal dentate gyrus.
Lee JW. Dissociation of spatial navigation and hippocampal neuronal activity from external landmark following disruption of dentate gyrus.

Lee KH. Transport of K+-dependent Na+/Ca2+ exchanger2 (NCKX2) to axons is mediated by the interaction of kinesin family member 21A and the intracellular loop of NCKX2.

Lee M. Neurotensin Signaling Regulates Ethanol Intoxication and Consumption.

Lee SH. Characterization of somatic Ca2+ clearance mechanisms in young and mature hippocampal granule cells.

Lee SY. Cholesterol regulates M-type K+ channels in sympathetic neurons.

Lee YS. Neural circuitries involved in auditory categorization processing.

Nam HW. ENT1 regulates motivational effects of ethanol and CREB-mediated neuroadaptation through glutamate-neurogranin signaling in the striatum.

Park CK. Functional expression of TRPV1 in spinal SG neurons.

Park H. Three-dimensional, nanometer accuracy tracking of synaptic vesicles trafficking from distinct vesicular pools.

Park JS. Identification of phytochemical with modulatory ability on amyloidogenesis.

Pi HJ. CaMKII alpha differentially controls LTP/LTD through its phosphorylation status.

Seo JS. Neurological impairment and motor neuron degeneration in the spinal cord of Tg2576 mouse model of Alzheimer disease.

Suh YH. The role of SNAP-23 in membrane targeting of postsynaptic glutamate receptors.

Sul JH. Functional difference of rat medial prefrontal cortex and orbitofrontal cortex associated with the value based decision making.

Tian YH. Capsazepine, a TRPV1 antagonist, Blocked Methamphetamine-induced Conditioned Place Preference but not Behavioral Sensitization in mice.

Woo J, Kwon SK. Trans-synaptic adhesion between NGL-3 and LAR regulates the formation of excitatory synapses.

Yang YD. Anoctamin1 (TMEM16A) Confers Receptor Activated Calcium-dependent Chloride Conductance.

Yoo IJ. Behavioral phenotype of transient receptor potential vanilloid type 1 receptor-deficient mice.

Yoo SW. Down-regulation of monocyte chemoattractant protein-1 by mesenchymal stem cells attenuates the infiltration of peripheral immune cells triggered by ischemic injury in brain.
2009 AKN Sponsors

Neuroscience Research Institute, Gachon Medical University
Incheon, Korea
(Zhang Hee Cho, Ph.D., Director of NRI)

Brain Research Center for 21st Frontier Program in Neuroscience,
Seoul National University, Seoul, Korea
(Kyungjin Kim, Ph.D., Director of BRC)

Scitech Korea, Seoul, Korea
(Chanseung Park, Managing Director of Scitech Korea)

Center for Neural Science, KIST, Seoul, Korea
(Hee Sup Shin, M.D., Ph.D., Director of CNS)

SK Life Science, Inc., Fair Lawn, NJ
(S. James Lee, Ph.D., Vice President, Pharm Development)

Korean Society for Brain and Neural Sciences, Seoul, Korea
(Kyungjin Kim, Ph.D., President; Uhtaek Oh, Ph.D., Secretary General of KSBNS)

Stem Cell Research Center, Yonsei University, Seoul, Korea
(Dong-Wook Kim, Ph.D., Director of Stem Cell Research Center)

Acupuncture and Meridian Science Research Center (AMSRC),
College of Oriental Medicine, Kyung Hee University, Seoul, Korea
(Hyejung Lee, KMD, Ph.D., Director)

WCU NeuroSystems Research Group, KAIST, Daejeon, Korea
(Doheon Lee, Ph.D., Director of IBM-KAIST Bio-Computing Center)

Brain Dynamics Laboratory, KAIST, Daejeon, Korea
(Jaeseung Jeong, Ph.D., Director of BDL)

Department of Brain & Cognitive Sciences, College of Natural Sciences, Seoul National University, Seoul, Korea
(Sang-Hun Lee, Ph.D., Chair, Dept of BCS)

Blackrock Microsystem (BLK)
( Flori an Solzbacher, Ph.D., President of BLK)