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Social dysfunction in brain disorders

Dr. Kim and colleagues will employ a multi-disciplinary approach including optogenetics, *in vivo* and *ex vivo* electrophysiological, pharmacological and imaging techniques to find mechanistic explanations for how social information mediates behavior in health and disease.



Research keywords

Social-cognitive dysfunction, Brain disorder. (neurodegeneration, neuroinflammation)

Curriculum Vitae

2017~Present : Principal Investigator, KBRI
 2017~2017 : Research Fellow, IBS
 2012~2016 : Postdoctoral Fellow, KIST
 2011~2011 : Research prof. Ewha Univ.
 2010~2011 : BK21 Postdoctoral Fellow, Seoul National Univ.

Academic Credential

2008 : Ph.D., Biological Sciences, Seoul Nat. Univ.
 2002 : M.S., Interdisciplinary Graduate program in
 Genetic engineering, Seoul Nat. Univ.
 2000 : B.S., Biology, Ewha Univ.

Awards/Honors/Memberships

2018 : Member, Korean Society for Brain and Neuroscience
 2018 : Member, Society for Neuroscience
 2007 : Best poster presentation The Korean Brain society
 2005 : Travel award in Extinction Conference at Ponce, Puerto Rico

Key techniques

- *In vivo*, *ex vivo* electrophysiology. (extracellular field recording, patch-clamp recording, *in vivo* unit recording)
- Behavioral analysis. (social cue-associated avoidance behavior, etc)
- Optogenetics, calcium imaging, *in vivo* microdialysis.

Research Interests/Topics

- Synaptic circuit in neurodegeneration.
- Hippocampal CA2 function in health and disease.
- Social dysfunction.

Research Publications (selected)

- Lee JY, Nam JH, Nam Y, Nam HY, Yoon G, Ko E, Kim SB, Bautista MR, Capule CC, Koyanagi T, Leriche G, Choi HG, Yang J, **Kim J***, Hoe HS#. The small molecule CA140 inhibits the neuroinflammatory response in wild-type mice and a mouse model of AD. *J Neuroinflammation*, 15(1):286, 2018. (co-corresponding)
- **Kim J**, An B*, Kim J*, Park S, Park S, Hong I, Lee S, Park K, Choi S. mGluR2/3 in the Lateral Amygdala is Required for Fear Extinction: Cortical Input Synapses onto the Lateral Amygdala as a Target Site of the mGluR2/3 Action. *Neuropsychopharmacology*, 40(13):2916-28, 2015. (co-first)
- Lee S*, Song B*, **Kim J***, Park K, Hong I, An B, Song S, Lee J, Park S, Kim J, Park D, Lee CJ, Kim K, Shin KS, Tsien RW, Choi S. *Nat. Neurosci.*, 16(10):1436-44, 2013. (co-first)
- Hong I*, Kim J*, **Kim J**, Lee S, Ko HG, Nader K, Kaang BK, Tsien RW, Choi S. AMPA receptor exchange underlies transient memory destabilization on retrieval. *Proc. Natl. Acad. Sci. USA*, 110:8218-23, 2013. (co-first)
- **Kim J***, Lee S*, Park K*, Hong I*, Song B*, Son G, Park H, Kim WR, Park E, Choe HK, Kim H, Lee C, Sun W, Kim K, Shin KS, Choi S. Amygdala depotentiation and fear extinction. *Proc. Natl. Acad. Sci. USA*, 104:20955-60, 2007. (co-first)