

## CURRICULUM VITAE

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## EDUCATION

### **University of Science & Technology (@ KIST)**

Seoul, Korea  
**Ph.D.**, Neuroscience, 2007 (Advisor: Dr. Hee-Sup Shin)

### **Korea University**

Seoul, Korea  
**M.A.**, Psychology, 2002 (Advisor: Dr. Hyun-Taek Kim)  
**B.A.**, Psychology, 2000

## RESEARCH EXPERIENCE

### **Postdoctoral Fellow**, University of Calgary/Hotchkiss Brain Institute, 2009 – 2013

Mechanisms of therapeutic deep brain stimulation(DBS) for dystonia  
Advisor: Dr. Zlema HT Kiss, Department of Clinical Neurosciences

### **Postdoctoral Fellow**, Korea Institute of Science and Technology, 2007 – 2009

The sleep spindle generation in thalamocortical networks  
Advisor: Dr. Hee-Sup Shin, Center for Neural Science

### **Research Assistant (Doctoral research)**, Korea Institute of Science and Technology, 2004 – 2007

The role of T-type calcium channels in sleep and thalamocortical oscillations  
Advisor: Dr. Hee-Sup Shin, Center for Neural Science

### **Research Assistant** Korea Institute of Science and Technology, 2002 – 2004

The role of T-type calcium channels in sensory gating, sleep and thalamocortical oscillations  
Advisor: Dr. Hee-Sup Shin, Center for Neural Science

### **Masters Research**, Korea University, 2000 – 2002

Effects of chronic mild stress on emotion and cognition  
Advisor: Dr. Hyun-Taek Kim, Department of Psychology

## PUBLICATIONS

- J. Lee**, K.Song, K.Lee, J.Hong, H.Lee, S.Chae, E.Cheong, and H-S.Shin (2013) "Sleep spindles are generated in the absence of T-type calcium channel-mediated low-threshold burst firing of thalamocortical neurons" PNAS 110(50) 20266-20271.
- J. Lee**, Z.H.T.Kiss. (2014) "Interhemispheric difference of pallidal local field potential activity in cervical dystonia" J Neurol Neurosurg Psychiatry. 85: 306-310
- E. Cheong, Y. Zheng, K. Lee, **J. Lee**, S Kim, M Sanati, S Lee, YS Kim and H-S. Shin. (2009) "Deletion of phospholipase C  $\beta 4$  in thalamocortical relay nucleus leads to absence seizure" PNAS 106(51) 21912-21917.
- H-S. Shin, E. Cheong, S. Choi, **J. Lee**, H-S. Na. (2008) "T-type  $\text{Ca}^{2+}$  channels as therapeutic targets in the nervous system" Curr Opin Pharmacol. 8(1):33-41.
- H-Y. Koh, D. Kim, **J. Lee**, S. Lee, H-S. Shin. (2008) "Deficits in social behavior and sensorimotor gating in mice lacking phospholipase  $\text{C}\beta 1$ " Genes, Brain and Behavior 7(1):120-8.
- J. Lee**, H-S. Shin (2007) "T-type calcium channels and thalamocortical rhythms in sleep: a perspective from studies of T-type calcium channel knockout mice" CNS Neurol Disord Drug Targets. (1):63-9.
- S. Choi, H.S. Na, J. Kim, **J. Lee**, S. Lee, D. Kim, J. Park, C-C. Chen, K. P. Campbell, and H-S, Shin (2007) "Attenuated pain responses in mice lacking  $\text{CaV}3.2$  T-type channels" Genes, Brain and Behavior 6(5):425-31.
- H-S. Shin, **J. Lee**, I. Song (2006) "Genetic studies on the role of T-type  $\text{Ca}^{2+}$  channels in sleep and absence epilepsy" CNS Neurol Disord Drug Targets. (6):629-38.
- D. Kim, S. Chae, **J. Lee**, H. Yang and H.-S. Shin (2005) "Variations in the behaviors to novel objects among five inbred strains of mice" Genes, Brain and Behavior, 4: 302-306.
- J. Lee**, D. Kim, H-S. Shin (2004) "Lack of delta oscillations and sleep disturbances during non-rapid eye movement sleep in mice lacking  $\alpha 1\text{G}$ -subunit of T-type calcium channels" PNAS 101(52) 18195-18199.
- H.T. Kim, I.H. Kim, K.J. Lee, **J.R.Lee**, S.K. Park, Y-H. Chun, H. Kim. and I. J. Rhyu. (2002) "Specific plasticity of parallel fiber/Purkinje cell spine synapse by motor skill learning" Neuroreport 13(13) 1607-1610.
- J.W.Lee, E.J.Lee, S.H.Hong, W.H.Chung, H.T.Lee, T.W.Lee, **J.R.Lee**, H.T.Kim, J.G.Suh, T.Y.Kim, Z.Y.Ryoo. (2001) "Circling Mouse: Possible Aniaml Model for Deafness" Comparative Medicine 51(6) 550-554.