

## HEEKYUNG JUNG

Department of Neurobiology  
Stanford University School of Medicine  
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### EDUCATION

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<b>2008-2016</b>	<b>NYU School of Medicine</b> , Developmental Genetics	<b>Ph.D.</b>
<b>2004-2006</b>	<b>Seoul National University</b> , Biomedical Science	<b>M.S.</b>
<b>1999-2003</b>	<b>Chung-Ang University</b> , Biology	<b>B.S.</b>

### RESEARCH EXPERIENCE

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<b>2016-present</b>	<b>Postdoctoral Fellow</b> Stanford University School of Medicine Department of Neurobiology Laboratory head: Andrew Huberman, Ph.D.
<b>2008-2016</b>	<b>Doctoral candidate</b> New York University School of Medicine Department of Developmental Genetics Thesis advisor: Jeremy S. Dasen, Ph.D. Thesis title: Evolving Hox Networks and the Origins of Spinal Circuits for Locomotion
<b>2007-2008</b>	<b>Research Assistant</b> New York University School of Medicine Department of Cell Biology Laboratory head: Hyung Don Ryoo, Ph.D.
<b>2006-2007</b>	<b>Research Assistant</b> Seoul National University College of Medicine, Seoul, Korea National Creative Research Initiative Centre for Alzheimer's Dementia Department of Pharmacology Laboratory head: Yoo-Hun Suh, M.D., Ph.D.
<b>2004-2006</b>	<b>Master's candidate</b> Seoul National University College of Medicine, Seoul, Korea National Creative Research Initiative Centre for Alzheimer's Dementia Department of Pharmacology Thesis advisor: Yoo-Hun Suh, M.D., Ph.D. Thesis title: The Effect of C-Terminal Fragments of Amyloid Precursor Protein (APP) on Axonal Transport of Mitochondria
<b>2003-2004</b>	<b>Lab Technician</b> Seoul National University College of Medicine, Seoul, Korea National Creative Research Initiative Centre for Alzheimer's Dementia Department of Pharmacology Laboratory head: Yoo-Hun Suh, M.D., Ph.D.

**2001-2002 Undergraduate Research Assistant**  
Chung-Ang University, Seoul, Korea  
Laboratory of Developmental Biology  
Laboratory head: Soon-Chul Park, Ph.D.

### ACADEMIC HONORS

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**2017** Dean's Postdoctoral Fellowship  
Stanford School of Medicine

**2005** Graduate School Scholarship Award  
Seoul National University College of Medicine, Seoul, Korea

**2004** Graduate School Scholarship Award, Spring semester  
Seoul National University College of Medicine, Seoul, Korea

**2002** Honor Scholarship, Spring semester  
Chung-Ang University, Seoul, Korea

**2001** Honor Scholarship, Fall semester  
Chung-Ang University, Seoul, Korea

### SCIENTIFIC MEETINGS

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**2017** Poster Presentation  
Society for Neuroscience (SFN), 47th Annual Meeting, Washington, DC  
"Parsing the neural circuits for visual empathy"

**2014** Poster Presentation  
HHMI Scientific Meeting, Washington, DC  
"The ancient origins of circuit element for land walking"

**2011** Talk  
Cost meeting, HOX and TALE Transcription Factors in Development and Disease,  
Corry-Le-Rouet, France  
"A single N-terminal repression motif in Hoxc9 controls the columnar organization  
of motor neurons"

**2005** Poster Presentation  
Society for Neuroscience (SFN), 35th Annual Meeting, Washington, DC  
"Mefenamic acid shows neuroprotective effects and improves cognitive  
impairment in in vitro and in vivo Alzheimer's Disease models"

### PUBLICATIONS

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Hanley, O., Zewdu, R., Cohen, L.J., **Jung, H.**, Lacombe, J., Philippidou, P., Lee, D.H., Selleri, L., Dasen, J.S. (2016) Parallel *Pbx*-Dependent Pathways Govern the Coalescence and Fate of Motor Columns. *Neuron* 91, 1005-1020

Tung Y.T., Lu Y.L., Peng K.C., Yen Y.P., Chang M., Li J., **Jung H.**, Thams S., Huang Y.P., Hung J.H., Chen J.A. (2015) Mir-17~92 governs motor neuron subtype survival by mediating nuclear PTEN. *Cell Reports* 11, 1305-1318.

**Jung, H.** and Dasen, J.S. (2015) Evolution of patterning systems and circuit elements for locomotion. *Developmental cell* 32, 408-422.

**Jung, H.**, Mazzoni, E.O., Soshnikova, N., Hanley, O., Venkatesh, B., Duboule, D., and Dasen, J.S. (2014) Evolving Hox activity profiles govern diversity in locomotor systems. *Developmental cell* 29, 171-187.

Biehs, B.\*, Hu, J.K.\*, Strauli, N.B., Sangiorgi, E., **Jung, H.**, Heber, R.P., Ho, S., Goodwin, A.F., Dasen, J.S., Capecchi, M.R., and Klein, O.D. (2013) BMI1 represses Ink4a/Arf and Hox genes to regulate stem cells in the rodent incisor. *Nature cell biology* 15, 846-852.

Lacombe, J.\*, Hanley, O.\*, **Jung, H.**\*, Philippidou, P., Surmeli, G., Grinstein, J., and Dasen, J.S. (2013) Genetic and functional modularity of Hox activities in the specification of limb-innervating motor neurons. *PLoS genetics* 9, e1003184.

**Jung, H.**\*, Lacombe, J.\*, Mazzoni, E.O.\*, Liem, K.F., Jr.\*, Grinstein, J., Mahony, S., Mukhopadhyay, D., Gifford, D.K., Young, R.A., Anderson, K.V., Wichterle, H., and Dasen, J.S. (2010) Global control of motor neuron topography mediated by the repressive actions of a single hox gene. *Neuron* 67, 781-796.

Shapiro, P.J.\*, Hsu, H.H.\*, **Jung, H.**\*, Robbins, E.S., and Ryoo, H.D. (2008) Regulation of the Drosophila apoptosome through feedback inhibition. *Nature cell biology* 10, 1440-1446.

\*equal contribution