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Education

*2004 Emory University, Atlanta, GA, USA, Department of Pharmacology
Post Doctoral Fellow*
*2001 Columbia University, New York, USA, Graduate School of Arts and Sciences
PhD in Physiology and Cellular Biophysics*
1990 The University of Chicago, Chicago, IL, USA B.A. in Chemistry

Positions held

2017-present Tenured Research Scientist, Korea Institute of Science and Technology, Korea
2015-present Director of Center for Glia-Neuron Interaction, KIST
2010-present Principal Research Scientist, Korea Institute of Science and Technology, Korea
2010-2014 Deputy Director, WCI Program, Center for Functional Connectomics
2004-2010 Senior Research Scientist, Korea Institute of Science and Technology, Korea
2001-2004 Post Doctoral Fellow, Emory University (Traynelis's Lab), Atlanta
1996-2001 Graduate Research Assist, Columbia University (MacDermott's Lab), New York
1994-1996 Research Technician, Columbia University (MacDermott's Lab), New York
1993-1994 Research Technician, Columbia University (Martin Low's Lab), New York
1991-1992 Graduate Research Assist, Columbia University, New York
1990-1991 Research Assistant, Michael Reese Hosp (Emily Foster's Lab)
1986-1990 Junior Research Assist, U of Chicago (Louis Seiden's Lab)

Awards & Honours

Korea Science & Technology Development Medal of Honor, President of Korea (2017)
The Kyung Ahm Prize in Arts & Sciences, Kyung Ahm Education & Culture Foundation (2016)
FILA Basic Science Award, The Korean Academy of Science and Technology (2014)
Jang Jin Award, Korean Society for Brain and Neuroscience (2014)
Star Professor Award, The University of Science & Technology (2013)
Outstanding Mentor Award, The University of Science & Technology (2011) (2013)
Best Mentor Award, The University of Science & Technology (2011) (2012)
Scientist of the Year Award, KIST (2011)
Outstanding Research Team Award, KIST (2011)
Outstanding Researcher Award, Prime Minister of Korea (2010)
Scientist of the Month Award, Ministry of Science & Technology, Korea (2010)
Scientist of the Month Award, KIST (2010)
Outstanding Project Award, KIST (2009)
Outstanding Teacher Award, The University of Science & Technology (2009)

Outstanding Mentor Award, The University of Science & Technology (2009)

Outstanding Researcher Award, KIST (2009)

Outstanding Researcher Award Nov 11th, Association of Korean Neuroscientists (2003),

Outstanding Researcher Award, Nov 7th Association of Korean Neuroscientists (2000)

Current editorial boards

Editor-in-chief, Experimental Neurobiology

Editorial Board, Molecular Brain

Editorial board, Molecular Pain

Selected committee work

- 2017 *Research Institution Evaluation Committee of Ministry of Future Creation Science*
(미래창조과학부 출연연구기관 임무중심형 기관평가위원)
- 2014 *Research Fellow Board Member of Presidential Advisory Council on Science & Technology*
(국가과학기술자문회의 전문위원)
- 2007 *Member of Brain Research Executive Propulsion Committee*
(뇌연구실무추진위원회 위원)

Five selected (recent) publications

1. Woo J, Min JO, Kang DS, Kim YS, Jung GH, Park HJ, Kim S, An H, Known J, Kim J, Shim I, Kim HG, **Lee CJ**, Yoon BE. (2018) Control of motor coordination by astrocytic tonic GABA release through modulation of excitation/inhibition balance in cerebellum.

Proc Natl Acad Sci U S A. 2018 Apr 24. pii: 1721187115. doi: (IF: 9.661) (Co-corresponding author)

2. Junsung Woo*, Jieun E. Kim*, Jooyeon J Im*, Jaekwang Lee, Hyeonseok S. Jeong, Seahyung Park, Soon-Young Jung, Heeyoung An, Sujung Yoon, Soo Mee Lim, Sunho Lee, Jiyoung Ma, Emily Yunha Shin, Young-Eun Han, Binna Kim, Eun Hee Lee, Linqing Feng, Heejung Chun, Bo-Eun Yoon, Ilhyang Kang, Stephen R. Dager, In Kyoon Lyoo and **C. Justin Lee.** (2018)

Astrocytic water channel aquaporin-4 modulates brain plasticity in both mice and humans: a potential gliogenetic mechanism underlying language-associated learning.

Molecular Psychiatry. 2018 Apr;23(4):1021-1030. doi: 10.1038/mp.2017.113. Epub 2017 Jun; (IF: 13.204) (Co-corresponding author)

3. Jo S, Yarishkin O, Hwang YJ, Chun YE, Park M, Woo DH, Bae JY, Kim T, Lee J, Chun H, Park HJ, Lee DY, Hong J, Kim HY, Oh SJ, Park SJ, Lee H, Yoon BE, Kim Y, Jeong Y, Shim I, Bae YC, Cho J, Kowall NW, Ryu H, Hwang E, Kim D, **Lee CJ.** (2014)

GABA from reactive astrocytes impairs memory in mouse models of Alzheimer's disease.

Nat Med. 2014 Aug;20(8):886-96. (IF: 28.054) (Co-corresponding author)

4. Dong Ho Woo, Kyung-Seok Han, Jae Wan Shim, Bo-Eun Yoon, Eunju Kim, Jin Young Bae, Soo-Jin Oh, Eun Mi Hwang, Alan D. Marmorstein, Yong Chul Bae, Jae-Yong Park, **C. Justin Lee.** (2012)

TREK-1 and Best1 channels mediate fast and slow glutamate release in astrocytes upon GPCR activation.

Cell 2012 Sep 28;151(1):25-40(IF:32.406) (Co-corresponding author)

5. Soojung Lee, Bo Eun Yoon, Ken Berglund, Hyungju Park, Hee-Sup Shin, George J. Augustine, **C. Justin Lee** (2010)

Channel-mediated Tonic GABA Release from Glia.

Science. 2010 Nov 5;330(6005):790-6 (IF: 29.747) (Corresponding author)