

J. Wren Kim, Ph.D.

Department of Molecular and Cell Biology
University of California, Berkeley

CONTACT INFORMATION

Barker Hall, Room 416
Berkeley, CA 94720
jwrenkim@berkeley.edu
(+1) 443-310-0948

EDUCATION

2017 – present Postdoctoral Fellow, Department of Molecular and Cell Biology, University of California, Berkeley
2010 – 2017 Ph.D. in Cellular and Molecular Physiology, Johns Hopkins University School of Medicine
2004 – 2010 B.S. in Biological Sciences, *summa cum laude*, Seoul National University
(2005 – 2006: military service in South Korea)

RESEARCH EXPERIENCE

2017 – present Postdoctoral Fellow, Department of Molecular Cell Biology, University of California, Berkeley (Advisor: Nicholas Ingolia, Ph.D.)
Molecular mechanisms of spatiotemporal gene regulation in neurons
2011 – 2017 Graduate Student and Postdoctoral Fellow, Institute for Cell Engineering and Department of Physiology, Johns Hopkins University School of Medicine
(Advisors: Valina L. Dawson, Ph.D., Ted M. Dawson, M.D., Ph.D.)
Molecular pathobiology of mRNA translation abnormality in Parkinson's disease-linked G2019S LRRK2 expressing neurons
2008 – 2010 Undergraduate Research Assistant, School of Biological Sciences, Seoul National University (Advisor: Hyunsook Lee, Ph.D.)
Cell cycle-dependent roles of BRCA2 N-terminus phosphorylation

HONORS & AWARDS

2018 FRAXA Research Foundation Postdoctoral Fellowship
2017 David Israel Macht Young Investigator Award, Johns Hopkins University School of Medicine

2010 – 2015	Doctoral Scholarship, Korea Foundation of Advanced Studies
2010	Graduate with Highest Honors, Seoul National University
2009	Academic Excellence Award, College of Natural Sciences, Seoul National University
2004 – 2009	National S&T Undergraduate Scholarship, National Research Foundation of Korea

PUBLICATIONS

1. **Kim JW**, Yin X, Martin I, Xie Z, Perez-Rosello T, Jhaldiyal A, Abalde-Atristain L, Kumar M, Lee A, Eacker SM, Surmeier DJ, Ingolia NT, Dawson TM, Dawson VL. Pathogenic LRRK2 mutation alters neuronal translome resulting in dysregulated calcium homeostasis. In revision.
2. Lee J, Stevens DA, Kang S-U, Jiang H, Lee Y-I, Ko HS, Scarffe LA, Umanah GE, Kang H, Ham S, Kam T-I, Allen K, Brahmachari S, **Kim JW**, Neifert S, Yun SP, Fiesel FC, Springer W, Dawson VL, Shin JH, Dawson TM. PINK1 primes parkin-mediated ubiquitination of PARIS in dopamine neuronal survival. *Cell Rep.* 2017 Jan;18(4):918-932.
3. Martin I, **Kim JW**, Dawson VL, Dawson TM. LRRK2 pathobiology in Parkinson's disease. *J. Neurochem.* 2014 Dec;131(5):554–65. Review.
4. Martin I, Abalde-Atristain L, **Kim JW**, Dawson TM, Dawson VL. Aberrant protein synthesis in G2019S LRRK2 Drosophila Parkinson disease-related phenotypes. *Fly (Austin).* 2014 Jul 3;8(3):165–9.
5. Martin I, **Kim JW**, Lee BD, Kang HC, Xu J-C, Jia H, Stankowski J, Kim M-S, Zhong J, Kumar M, Andrabi SA, Xiong Y, Dickson DW, Wszolek ZK, Pandey A, Dawson TM, Dawson VL. Ribosomal protein s15 phosphorylation mediates LRRK2 neurodegeneration in Parkinson's disease. *Cell.* 2014 Apr 10;157(2):472–85.

CHAPTERS

1. **Kim JW**, Abalde-Atristain L, Jia H, Martin I, Dawson VL, Dawson TM. Protein translation in Parkinson's disease. In: Verstreken P, Ed., *Parkinson's Disease: Molecular Mechanisms Underlying Pathology*. San Diego: Academic Press, 2017:281-309.

PRESENTATIONS & ABSTRACTS

1. **Kim JW**, Ingolia NT. Profiling synaptic mRNA translation through calcium- and light-dependent ribosome biotinylation. *Janelia Junior Scientist Workshop on Protein Engineering* (2019).
2. **Kim JW**, Yin X, Martin I, Xie Z, Perez-Rosello T, Jhaldiyal A, Xiong Y, Abalde-Atristain L, Kumar M, Eacker SM, Karuppagounder S, Lee A, Surmeier DJ, Ingolia NT, Dawson TM, Dawson VL. Broad Shift in 5'UTR-mediated mRNA Translation Leads to Calcium Dysregulation in G2019S LRRK2 Expressing Neurons. *Gordon Research Conference – Fragile X and Autism-Related Disorders* (2016). Poster Presentation.
3. **Kim JW**, Martin I, Xiong Y, Eacker SM, Ingolia NT, Dawson TM, Dawson VL. Parkinson's disease-linked G2019S LRRK2 mutation alters mRNA translation in human dopamine neurons and

LRRK2 transgenic mice. *Neuroscience 2015 Annual Meeting, Society for Neuroscience* (2015). Nanosymposium.

4. **Kim JW**, Martin I, Dawson TM, Dawson VL. Ribosome profiling of human dopamine neurons from G2019S LRRK2 Parkinson's disease patient-derived iPSCs. *The 7th Annual Symposium, Maryland Stem Cell Research Fund* (2014). Poster Presentation.
5. **Kim JW**, Ortega EL, Dawson TM, Dawson VL. Generation of Parkinson's disease-linked LRRK2 mutation models with genetically engineered human embryonic stem cells. *Neuroscience 2014 Annual Meeting, Society for Neuroscience* (2014). Poster Presentation.
6. **Kim JW**, Min J, Lee H. Cell cycle-dependent roles of BRCA2 N-terminal phosphorylation. *The 21st Annual Meeting, Korean Society for Molecular and Cellular Biology* (2009). Poster Presentation.

TEACHING

- 2011 – 2012 Graduate Teaching Assistant, Johns Hopkins University School of Medicine
2008 – 2009 Undergraduate Teaching Assistant of Excellence, Seoul National University