

# CURRICULUM VITAE

Ilmin Kwon, PhD

## Education

1996-2003	BS in Biology, Hanyang University
2003-2005	MS in Biology, Seoul National University
2005-2009	PhD in Biology, Seoul National University

## Positions

2009-2010	Post-doctoral Fellow, Seoul National University
2010-2015	Post-doctoral Fellow, University of Texas Southwestern Medical Center
2015-2018	Assistant Professor, Sungkyunkwan University School of Medicine
2019-present	Associate Professor, Sungkyunkwan University School of Medicine

## Publications

An X, Lee J, Kim GH, Kim H, Pyo H, Kwon I\* and Cho H\* (2022) Modulation of IKs channel–PIP2 interaction by PRMT1 plays a critical role in the control of cardiac repolarization. *J. Cell. Physiol.* 1-11. <https://doi.org/10.1002/jcp.30775> (\*Co-corresponding authors)

Jo Y\*, Lee J\*, Lee S\*, Kwon I\*\* and Cho H\*\* (2022) Poly-dipeptides produced from *C9orf72* hexanucleotide repeats cause selective motor neuron hyperexcitability in ALS. *Proc. Natl. Acad. Sci.* 119 (11) e2113813119. (\*Co-first authors; \*\*Co-corresponding authors)

Kim GH and Kwon I (2021) Distinct roles of hnRNPH1 low-complexity domains in splicing and transcription. *Proc. Natl. Acad. Sci.* 118 (50) e2109668118.

Kim E and Kwon I (2021) Phase transition of fibrillar LC domain regulates localization and protein interaction of fibrillar. *Biochem. J.* 478 (4):799-810.

Lee S, Vuong TA, So H, Kim H, Kim YB, Kang J, Kwon I\*, and Cho H\* (2020) PRMT7 deficiency causes dysregulation of the HCN channels in the CA1 pyramidal cells and impairment of social behaviors. *Exp. Mol. Med.* 52(4):604-614. (\*Co-corresponding authors)

Lee S, Vuong TA, Wen X, Jeong H, So H, Kwon I, Kang J, and Cho H (2019) Methylation determines the extracellular calcium sensitivity of the leak channel NALCN in hippocampal dentate granule cells. *Exp. Mol. Med.* 51(10):119.

Kim JG, Leem Y, Kwon I, Kang J, Bae YM, and Cho H (2018) Estrogen modulates serotonin effects on vasoconstriction through Src inhibition. *Exp. Mol. Med.* 50:167.

Lee J, Park E, Kim GH, Kwon I\*, Kim K\* (2018) A splice variant of human Bmal1 acts as a negative regulator of the molecular circadian clock. *Exp. Mol. Med.* 50:159. (\*Co-corresponding authors)

Lin Y, Mori E, Kato M, Xiang S, Wu L, Kwon I\*, and McKnight SL\* (2016) Toxic PR poly-dipeptides encoded by the C9orf72 repeat expansion target LC domain polymers. *Cell.* 167:789-802. (\*Co-corresponding authors)

Kwon I, Xiang S, Kato M, Wu L, Theodoropoulos P, Wang T, Kim J, Yun J, Xie Y, and McKnight SL (2014) Poly-dipeptides encoded by the C9ORF72 repeats bind nucleoli, impede RNA biogenesis, and kill cells. *Science.* 345:1139-45.

Kwon I\*, Kato M\*, Xiang S, Wu L, Theodoropoulos P, Mirzaei H, Han T, Xie S, Corden JL, and McKnight SL (2013) Phosphorylation-regulated binding of RNA polymerase II to fibrous polymers of low-complexity domains. *Cell.* 155:1049-60. (\*Co-first authors)