Curriculum Vitae/Resume

Education

Johns Hopkins University
September 2010 – June 2014
Bachelor of Sciences in Biomedical Engineering and Applied Mathematics and Statistics

Seoul National University
September 2014 – September 2016
Master of Science in Biomedical Sciences

Seoul National University
September 2014 – Present
Candidate for Doctor of Philosophy in Biomedical Sciences

Employment History:

Research
July 2011 – August 2011
Research Assistant to Yuri Cho, Ph.D at the Immunology Laboratory of the Yonsei University Medical Center, South Korea; worked on rat pancreatic beta islet cells by apoptosis, cell proliferation and other assays as well as Western blotting for specific proteins

December 2011 – June 2014
Research Assitant to Dr. Neeraj Vij of Pediatrics Department of Johns Hopkins Hospital in Baltimore, MD; worked on inhibition of H1299 NSCLC cell proliferation and progression and on chronic obstructive lung diseases and potential therapeutic small molecule drugs. Further work on developing targeted nanoparticle delivery system to lung tumors.

June 2014 – Present
M.S./Ph,D combined program to Dr. Yong Tae Kwon of the Department of Biomedical Sciences at Seoul National University, Korea; working on the N-terminal arginylation branch of the N-end rule pathway and its physiological significance in disease settings. Further work on developing synthetic ligands mimicking N-end rule properties to induce cellular autophagy for degradation of pathological aggregation-prone substrates.

June 2018 – Present
Research Department of Autotac Bio Co., LTD (founded by Dr. Yong Tae Kwon); working on developing synthetic ligands to selectively target specific proteins for degradation by autophagy.

Intern

June 2011 – August 2011
Research intern to Dr. Yuri Cho of the Immunology lab at the Department of Allergy and Immunology, Yonsei University.

April 2012 – November 2013
Research intern to Dr. Neeraj Vij of Pediatrics Department at Johns Hopkins Hospital in Baltimore, MD, USA: research projects were focused on characterizing potential therapeutic small molecule drugs on inhibition of non-small cell lung carcinoma proliferation and progression and on chronic obstructive lung diseases.

July 2013 – August 2013
Intern to Chief Engineer Lee Seung Jun of Samsung Electronics Co., LTD, Health and Medical Equipment Business Department; worked on *in vitro* blood test diagnostics device LABGEO PT10™ for better absorption and retainment of blood plasma.

Publications

1. Ni I, Ji C, Vij N. Second-hand cigarette smoke impairs bacterial phagocytosis in macrophages bhy modulating CFTR dependent lipid-rafts (2015). *PLoS One*, **10:** e0121200.

2. Tran I, Ji C, Ni I, Min T, Tang D, Vij N (2015). Role of cigarette smoke-induced aggresome formation in chronic obstructive pulmonary disease-emphysema pathogenesis. *Am. J. Respir. Cell Mol. Biol.,* **53:** 159-73.

3. Yoo YD, Lee DH, Cha-Molstad H, Kim H, Mun SR, Ji C et al. Glioma-derived cancer stem cells are hypersensitive to proteasomal inhibition (2017). *EMBO Rep.*, **18**: 150-168.

4. Jeong M, Jang E, Choi SS, Ji C, Lee K, Youn J. The function of FK506-binding protein 13 in protein quality control protects plasma cells from endoplasmic reticulum stress-associated apoptosis (2017). *Front. Immunol.,* **8**: 222.

5. Ji CH, Kwon YT. Crosstalk and interplay between the ubiquitin-proteasome system and autophagy (2017). *Mol. Cells.,* **40**: 441-449.

6. Yoo YD, Mun SR, Ji CH et al. N-terminal arginylation generates a bimodal degron that modulates autophagic proteolysis (2018). *Proc. Natl. Acad. Sci. USA,* **115:** E2716-E2724.

7. Zhang Y, Mun SR, Linares JF, Ahn J, Towers CG, Ji CH et al. ZZ-dependent regulation of p62/SQSTM1 in autophagy (2018). *Nat. Commun.*, **9:** 4373.

8. Ji CH, Kim HY, Heo AJ, Lee SH, Lee MJ, Kim SB et al. The N-degron pathway mediates ER-phagy (2019). *Mol. Cell.,* **19:** S1097-2765.

9. Ji CH, Kim HY, Heo AJ, Lee MJ, Park DY, Kim DH et al. Regulation of reticulophagy by the N-degron pathway. *Autophagy*, **in press**.