



•Field Neuroscience  
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### Education background

2016 Ph.D. Biomedical Science and Engineering  
Interdisciplinary Program, KAIST, Daejeon  
2011 B.S. Department of Biochemistry,  
Yonsei University, Seoul

### Major careers

2021-Present Assistant Professor, Hallym Univ.  
2020-2021 Postdoc Researcher,  
UT Southwestern Medical Center  
2019-2020 Research Assistant Professor,  
Asan Institute for Life Sciences  
2016-2019 Postdoc Researcher,

### Publications (2018 ~ present)

Metformin ameliorates olanzapine-induced obesity and glucose intolerance by regulating hypothalamic inflammation and microglial activation in female mice, *Frontiers in Pharmacology* (2022.10)

Ginsenoside Rd ameliorates muscle wasting by suppressing the signal transducer and activator of transcription 3 pathway, *Journal of Cachexia, Sarcopenia, and muscle* (2022.09)

Etoposide-induced microRNA-205-5p suppresses proliferation and migration by targeting ERBB4 in MCF-6 cells, *Anticancer research* (2022.09)

Metformin ameliorates olanzapine-induced disturbances in POMC neuron number, axonal projection, and hypothalamic leptin resistance, *BMB Reports* (2022.06)

Exercise, mitohormesis, and mitochondrial ORF of the 12S rRNA type-C (MOTS-c), *Journal of Obesity & Metabolic Syndrome* (2022.05)

Mechanisms of weight control by primary cilia, *Molecules and Cells* (2022.04)

Mitohormesis in hypothalamic Pomc neurons mediates regular exercise-induced high-turnover metabolism  
*Cell Metabolism* (2021.2)

Primary cilia mediate early life programming of adiposity through lysosomal regulation in the developing mouse hypothalamus, *Nature Communications* (2020.11)

Cellular contributors to hypothalamic inflammation in obesity, *Molecules and Cells* (2020.5)

Cellular source of hypothalamic macrophage accumulation in diet-induced obesity, *Journal of Neuroinflammation* (2019.11)

Hypothalamic macrophage inducible nitric oxide synthase mediates obesity-associated hypothalamic inflammation, *Cell Reports* (2018.10)

Effects of chronic NAD supplementation on energy metabolism and diurnal rhythm in obese mice, *Obesity* (2018.9)

Exogenous nicotinamide adenine dinucleotide regulates energy metabolism via hypothalamic connexin 43, *Metabolism* (2018.9)

Role of Angptl4/Fiaf in exercise-induced skeletal muscle AMPK activation, *Journal of Applied Physiology* (2018.9)

## 기타

### **Research subjects**

Neuroscience

Neuroinflammation

Immunology

Obesity & Metabolic diseases

### **Awards and Grants**

2022-2025 National Research Foundation of Korea

2018-2021 National Research Foundation of Korea

Aug 30th, 2019, Asia-Oceania Conference on Obesity  
Aug 26th, 2019, Korean Society for Molecular and Cellular Biology  
Apr 6th, 2019, Korean Society for the Study of Obesity  
Oct 8th, 2018, Keystone symposia  
Apr 7th, 2018, Korean Society for the Study of Obesity  
Apr 26th, 2018, Japan Endocrine Society  
Dec 1st, 2017, Korean Neuroendocrine Study Group  
Oct 25th, 2014, Korean Society for the Study of Obesity  
Oct 25th, 2014, Korean Society for the Study of Obesity  
Apr 19th, 2014, Korean Society for the Study of Obesity