



•Field Neuroimmunology •Office Life Sciences Building 8612  
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## Education background

Undergraduate Degree (B.S., 2011)  
Department of Biochemistry  
Yonsei University  
Seoul, Republic of Korea

Graduate Degree (Ph.D., 2016)  
Biomedical Science and Engineering  
Interdisciplinary Program  
Korea Advanced Institute of Science and  
Technology (KAIST)  
Daejeon, Republic of Korea

## Major careers

2021 - present Hallym University (Assistant  
Professor)

2020 - 2021 UT Southwestern Medical Center  
(Postdoctoral Researcher)

2019 - 2020 Asan Institute for Life Sciences  
(Research Assistant Professor)

2016 - 2019 Asan Institute for Life Sciences  
(Postdoctoral Researcher)

## Publications (2018~)

- 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)

## I Others

### ■ Research subjects

- Neuroinflammation
- Metabolism
- Neuroscience
- Brain development

### ■ Awards and Grants

- 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