

Stanford



Yunkyeong Lee

Postdoctoral Scholar, Endocrinology and Metabolism

Bio

BIO

Yunkyeong earned her PhD degree in February 2022. Her PhD work focused on the role of an epigenetic regulator in the pathogenesis of non-alcoholic fatty liver disease (NAFLD) using a high-fat diet (HFD)-induced obese mice model. In addition, she studied the crosstalk between endoplasmic reticulum (ER) stress and autophagy. She joined in Dr. Anna L. Gloyn's Lab (Translational Genomics of Diabetes Lab) as a postdoctoral researcher from August 2022. She is involved in projects investigating molecular mechanisms for pancreatic islet-cell dysfunction in type 2 diabetes (T2D). Her research goal is to expand our knowledge about the molecular mechanisms of some metabolic diseases including T2D and explore therapeutic breakthrough.

HONORS AND AWARDS

- Best Poster Award, The Korean Society for Integrative Biology (Dec 2021)
- Keystone Symposia Scholarship, Keystone Symposia (Nov 2021)
- Brain Korea 21 Scholarship, BK21 Plus (2017-2019)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Sookmyung Women's University , Biological Sciences (2022)
- Bachelor of Science, Sookmyung Women's University , Biological Sciences (2014)

STANFORD ADVISORS

- Anna Gloyn, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Anna Gloyn, Translational Genomics of Diabetes Lab (8/15/2022)

Publications

PUBLICATIONS

- **Kazinol C from *Broussonetia kazinoki* stimulates autophagy via endoplasmic reticulum stress-mediated signaling** *ANIMAL CELLS AND SYSTEMS*
Lee, Y., Kwon, J., Jeong, J., Ryu, J., Kim, K.
2022; 26 (1): 28-36
- **Inhibition of autophagy sensitizes lignan-induced endoplasmic reticulum stress-mediated cell death** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Kwon, J., Lee, Y., Jeong, J., Ryu, J., Kim, K.

2020; 526 (2): 300-305

PRESENTATIONS

- Suppression of X phosphorylation can be a potential therapeutic target for non-alcoholic steatohepatitis (NASH) by robustly reducing hepatic excess lipids - Keystone Symposia on Inter Organ Crosstalk in NASH (August 7, 2022 - August 10, 2022)
- Epigenetic regulation of X, a game changer in hepatic lipid metabolic pathways - The Korean Society for Integrative Biology Conference (December 20, 2021 - December 22, 2021)
- Impairment of X phosphorylation ameliorates the pathogenesis of non-alcoholic fatty liver diseases - Cold Spring Harbor Laboratory Conference on Mechanisms of Metabolic Signaling, Virtual (October 26, 2021 - October 29, 2021)
- The natural compound X induces autophagy via endoplasmic reticulum (ER) stress-mediated signalling - FASEB Conference on The Endoplasmic Reticulum: Structure, Function, and Disease, Virtual (June 16, 2021 - June 17, 2021)
- The natural compound X induces autophagy by regulating an endoplasmic reticulum (ER) stress response to maintain cellular homeostasis - Keystone Symposia's eSymposia on Targeted Protein Degradation: From Small Molecules to Complex Organelles (June 7, 2021 - June 8, 2021)
- Studies on the autophagy-lysosome pathway through which Ferulate degrade FoxM1 and its role on the reduction of cancer cell growth - EMBO Conference: Autophagy (September 25, 2017 - September 29, 2017)