

# Stanford

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## Soyoung Park

Postdoctoral Scholar, Pathology

### Bio

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#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- Plenary Oral Presentation Award, Seoul International Congress of Endocrinology and Metabolism (SICEM) (Oct.2021)
- Young Investigator Research Award, International Conference of the Korean Society for Molecular and Cellular Biology (KSMCB) (Nov.2021)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, The Society for Neuroscience (2025 - present)
- Member, The Association for Research in Vision and Ophthalmology (2025 - present)
- Member, Korean Society for Biochemistry and Molecular Biology (KSBMB) (2015 - 2023)
- Member, Korean Society for Molecular and Cellular Biology (KSMCB) (2015 - 2023)

#### PROFESSIONAL EDUCATION

- Ph.D, Soonchunhyang University , Integrated Biomedical Science (2022)
- B.S, Soonchunhyang University , Medical biotechnology (2015)
- B.S, Soonchunhyang University , Biotechnology (2015)

#### STANFORD ADVISORS

- Jonathan Lin, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### LAB AFFILIATIONS

- Jonathan Lin (4/1/2024)

### Publications

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#### PUBLICATIONS

- **Targeting ATF6 reduces pathological neovascularization and improves visual outcomes in retinal disease models.** *Scientific reports* Bradley, A., Park, S., Park, S., Kim, K., Galdamez, A., Min, H., Diaz-Aguilar, M. S., Hartnett, M. E., Lee, E. J., Lin, J. H. 2025; 15 (1): 33070
- **Transcriptomic Profiling of Small Molecule Atf6 Modulators in the Retina.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*

Diaz-Aguilar, M. S., Galdamez, A., Chea, L., Le, M., Park, S., Min, H., Lee, E. J., Lin, J. H.  
2025; 39 (16): e70940

● **Single-Cell RNA-Seq Dissects ATF6 Function in Rods and Cones in Mature Retinal Organoids**

Bradley, A., Min, H., Park, S., Temme, W., Park, S., Lee, E., Lin, J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025

● **Targeting unfolded protein response mitigates retinal neovascularization in Vldlr<sup>-/-</sup> model**

Park, S., Galdamez, A., Bradley, A., Le-Maciukiewicz, M., Stevenson, E., Chea, L., Temme, W., Lee, E., Lin, J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025

● **Single-Cell RNA Sequencing Highlights ER Stress and Inflammation in Endothelial and Glial Cells in Vldlr<sup>-/-</sup> Mouse Retina**

Galdamez, A., Park, S., Bradley, A., Le, M., Stevenson, E., Chea, L., Temme, W., Lee, E., Lin, J.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025

● **The PERK-eIF2 $\alpha$ -ATF4 Axis Is Involved in Mediating ER-Stress-Induced Ferroptosis via DDIT4-mTORC1 Inhibition and Acetaminophen-Induced Hepatotoxicity. *Antioxidants (Basel, Switzerland)***

Nghiem, T. T., Nguyen, K. A., Kusuma, F., Park, S., Park, J., Joe, Y., Han, J., Chung, H. T.  
2025; 14 (3)

● **PKR Mediates the Mitochondrial Unfolded Protein Response through Double-Stranded RNA Accumulation under Mitochondrial Stress *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES***

Kusuma, F., Park, S., Nguyen, K., Elvira, R., Lee, D., Han, J.  
2024; 25 (14)

● **Neurodegeneration Risk Factor, EIF2AK3 (PERK), Influences Tau Protein Aggregation. *The Journal of biological chemistry***

Park, G., Xu, K., Chea, L., Kim, K., Safarta, L., Song, K., Wu, J., Park, S., Min, H., Hiramatsu, N., Han, J., Lin, J. H.  
2022: 102821

● **Reduction in endoplasmic reticulum stress activates beige adipocytes differentiation and alleviates high fat diet-induced metabolic phenotypes. *Biochimica et biophysica acta. Molecular basis of disease***

Lee, J. M., Park, S., Lee, D., Ginting, R. P., Lee, M. R., Lee, M. W., Han, J.  
2021; 1867 (5): 166099

● **ER Stress Induces Cell Cycle Arrest at the G2/M Phase Through eIF2 $\alpha$  Phosphorylation and GADD45 $\alpha$ . *International journal of molecular sciences***

Lee, D., Hokinson, D., Park, S., Elvira, R., Kusuma, F., Lee, J. M., Yun, M., Lee, S. G., Han, J.  
2019; 20 (24)

● **Modulation of Protein Synthesis by eIF2 $\alpha$  Phosphorylation Protects Cell from Heat Stress-Mediated Apoptosis. *Cells***

Park, S., Lim, Y., Lee, D., Elvira, R., Lee, J. M., Lee, M. R., Han, J.  
2018; 7 (12)