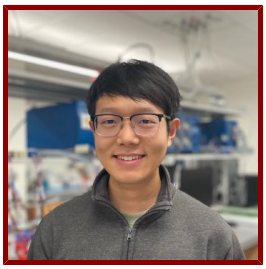
Stanford



Siliang Li

Postdoctoral Scholar, Microbiology and Immunology

Bio

BIO

Siliang Li, PhD, is a postdoctoral scholar in the Justin Sonnenburg Laboratory in the Department of Microbiology and Immunology at Stanford University. He earned his BS in Biological Sciences from Wuhan University and his PhD in Biochemistry and Cell Biology from Rice University. During his doctoral training with Caroline Ajo-Franklin, he combined microbiology, synthetic biology, and electrochemistry to investigate bacterial redox metabolism and develop microbial bioelectronic sensors. At Stanford, Dr. Li studies how beneficial gut bacteria adapt to their host's chemical environment and how these adaptations influence colonization and host health. He integrates bacterial physiology with microbial engineering to develop effective live biotherapeutic products. His long-term goal is to translate fundamental discoveries into microbial diagnostics and therapeutics that improve human health.

HONORS AND AWARDS

- Innovation Fellowship, Liu Idea Lab for Innovation & Entrepreneurship, Rice University (2026)
- George J. Schroepfer, Jr. Award for Outstanding Ph.D. Thesis, Department of BioSciences, Rice University (2025)
- NSF Research Traineeship (NRT) Program Fellowship, Rice University (2020-2022)
- Outstanding Undergraduate Thesis Award, Wuhan University (2019)

PROFESSIONAL EDUCATION

- PhD, Rice University , Biochemistry and Cell Biology (2025)
- BS, Wuhan University , Biological Sciences (2019)

STANFORD ADVISORS

- Justin Sonnenburg, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Synthetic microbial co-cultures for modular bioelectronic sensing in diverse environments.** *Nature biotechnology*
  Li, S., Zhu, D., Saha, K., Kundu, B. B., Sonkusale, S., Britton, R. A., Ajo-Franklin, C. M.
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- **Bioelectrochemical systems for the detection and removal of environmental pollutants.** *Current opinion in biotechnology*
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- **Characterizing Mediated Extracellular Electron Transfer in Lactic Acid Bacteria with a Three-Electrode, Two-Chamber Bioelectrochemical System.** *Journal of visualized experiments : JoVE*
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- **ANXA2 Facilitates Enterovirus 71 Infection by Interacting with 3D Polymerase and PI4KB to Assist the Assembly of Replication Organelles.** *Virologica Sinica*
  Zhang, Q., Li, S., Lei, P., Li, Z., Chen, F., Chen, Q., Wang, Y., Gong, J., Tang, Q., Liu, X., Lan, K., Wu, S.
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- **Emetine protects mice from enterovirus infection by inhibiting viral translation.** *Antiviral research*
  Tang, Q., Li, S., Du, L., Chen, S., Gao, J., Cai, Y., Xu, Z., Zhao, Z., Lan, K., Wu, S.
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- **Synthesis and structure-activity relationship study of arylsulfonamides as novel potent H5N1 inhibitors.** *European journal of medicinal chemistry*
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