

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Spring Quarter 2026 – CRN 46205

**Friday Seminar at 12:10-1 p.m.
GBSF Auditorium 1005**

“Lessons on NAD⁺ homeostasis and signaling from budding yeast”

Research Bio

Su-Ju Lin is a Professor of Microbiology and Molecular Genetics at the University of California, Davis. Su-Ju carried out her graduate work on oxygen radical and metal ion homeostasis in budding yeast *Saccharomyces cerevisiae* in the laboratory of Valeria Culotta at Johns Hopkins University. After receiving her Ph.D., she pursued postdoctoral training on calorie restriction and cellular aging in budding yeast in the laboratory of Leonard Guarente at MIT. She joined UC Davis as an assistant professor in 2003. Her research interests focus on understanding the interaction between NAD⁺ homeostasis and calorie restriction related nutrient sensing pathways, and their regulation in budding yeast. The Lin Lab employs molecular genetics and biochemical strategies to identify and study factors that regulate NAD⁺ homeostasis. Understanding the mechanisms of these processes in yeast may help elucidate the molecular basis of human disorders related to aberrant NAD⁺ metabolism.

Publications

Lee, Y. C., Huang C. C., McDaniel, M., Huang, K., Lee, L. H., Lao, G., Karthi, D., and **Lin, S. J.** “The Pof1 nicotinamide mononucleotide adenylyl transferase (NMNAT) has a non-canonical role in NAD⁺ metabolism in the budding yeast *Saccharomyces cerevisiae*”. (2026) *J Biol Chem, in Press*

Groth, B., Huang, C. C., and **Lin, S. J.** “The histone deacetylases Rpd3 and Hst1 antagonistically regulate *de novo* NAD⁺ metabolism in the budding yeast” (2022) *Saccharomyces cerevisiae. J Biol Chem* **298**, 102410. [10.1016/j.jbc.2022.102410](https://doi.org/10.1016/j.jbc.2022.102410)

May
1



Su Ju Lin, Ph.D.

Professor
Department of Microbiology and
Molecular Genetics
University of California, Davis

**May 1, 2026
12:10 – 1 p.m.
GBSF Auditorium
1005**

In person presentation

Medical Microbiology
and Immunology
School of Medicine

Seminar Contact:
Autumn Vega
advega@health.ucdavis.edu

We hope to see you there!