

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Winter Quarter 2025 – CRN 30957

Friday Seminar at 12:10-1 p.m.

Genome and Biomedical Sciences Facility, Room 1005

“The Contribution of Western Diet and Microbiome to Psoriatic Inflammation”

Research Bio

Samuel Hwang, Professor and Chair of Dermatology at UC Davis School of Medicine, is a board-certified dermatologist with extensive training as a physician scientist. He has a strong interest in immunological diseases of the skin, including psoriasis, and in the biology of skin cancers, including melanoma and cutaneous T cell lymphoma. Starting as a scientist and then senior scientist at NIH, Professor Hwang has had over 20 years of experience in the field of leukocyte and cancer cell trafficking and has had a long-standing interest in the role of chemokine receptors, including CCR6 and CXCR4 in psoriasis as well as cancer cells. Prior to being appointed tenured Chair and Professor of Dermatology at the University of California Davis in 2016, he was Chair and Thomas Russell Professor of Dermatology at the Medical College of Wisconsin. He has published original and review articles in the *Journal of Clinical Investigation*, *Journal of Experimental Medicine*, *Cancer Research*, *Journal of Immunology*, *Journal of Investigative Dermatology*, *JAMA Dermatology*, and *PNAS*. Lecturing nationally and internationally on psoriasis, Professor Hwang is recognized for his impactful contributions to basic and translational psoriasis research. In 2020, he was awarded the Psoriasis Research Achievement Award by the American Skin Association, and, in 2022, he was named the National Psoriasis Foundation's Professional Volunteer of the Year at the AAD meeting New Orleans, LA.

Publications

Shi Z, Wu X, Yu S, Huynh M, Jena PK, Nguyen M, Wan YY, **Hwang ST**. “Short-Term Exposure to a Western Diet Induces Psoriasiform Dermatitis by Promoting Accumulation of IL-17A-Producing $\gamma\delta$ T Cells”. *J Invest Dermatol*. 2020 Sep;140(9):1815-1823. doi: 10.1016/j.jid.2020.01.020. Epub 2020 Feb 10. PMID: 32057839; PMCID: PMC7537492.

Shi Z, Wu X, Santos Rocha C, Rolston M, Garcia-Melchor E, Huynh M, Nguyen M, Law T, Haas KN, Yamada D, Millar NL, Wan YY, Dandekar S, **Hwang ST**. “Short-Term Western Diet Intake Promotes IL-23-Mediated Skin and Joint Inflammation Accompanied by Changes to the Gut Microbiota in Mice”. *J Invest Dermatol*. 2021 Jul;141(7):1780-1791. doi: 10.1016/j.jid.2020.11.032. Epub 2021 Jan 22. PMID: 33485880; PMCID: PMC8634664.

Feb.
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Samuel T. Hwang, M.D., Ph.D.
Professor and Chair
Dermatology
University of California, Davis
School of Medicine

February 21, 2025
12:10 – 1 p.m.

**Genome and
Biomedical Sciences
Facility, Room 1005**

In-person presentation

Medical Microbiology and
Immunology
School of Medicine

Seminar Contact:
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We hope to see you there!