

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

“New perspectives on an ancient developmental pathway that controls tissue shape”

Research Bio

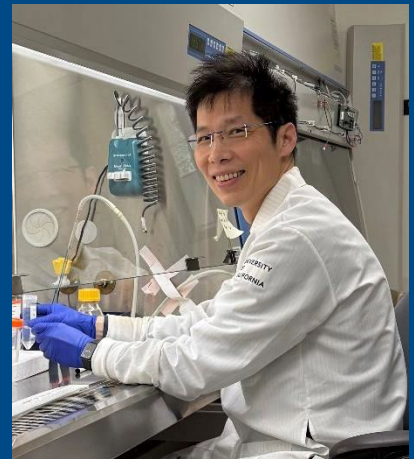
Henry Ho received his undergraduate degree in Biochemistry from UCLA. He did his Ph.D. with Marc Kirschner at Harvard Medical School, where he used biochemical approaches, such as protein fractionation and reconstitution, to investigate the mechanisms of actin nucleation. As a Damon Runyon Cancer Research Foundation fellow in the laboratory of Michael Greenberg, also at Harvard, Ho studied how unconventional receptor tyrosine kinases orchestrate embryonic development and brain wiring. Ho started his independent lab at UC Davis in 2013. His lab has continued to use an intersectional approach of protein biochemistry, cell biology and mouse/human genetics to understand how an ancient developmental signaling pathway called the Wnt5a-Ror pathway controls tissue shape, and how defects in the pathway give rise to various pathological conditions.

Publications

Griffiths SC, Tan J, Wagner A, Blazer LL, Adams JJ, Srinivasan S, Moghisaei S, Sidhu SS, Siebold C, **Ho HH**. “Structure and function of the ROR2 cysteine-rich domain in vertebrate noncanonical WNT5A signaling”. *Elife*. 2024 May 23;13:e71980. doi: 10.7554/eLife.71980. PMID: 38780011; PMCID: PMC11219042.

Konopelski Snavelly SE, Susman MW, Kunz RC, Tan J, Srinivasan S, Cohen MD, Okada K, Lamb H, Choi SS, Karuna EP, Scales MK, Gygi SP, Greenberg ME, **Ho HH**. “Proteomic analysis identifies the E3 ubiquitin ligase Pdzrn3 as a regulatory target of Wnt5a-Ror signaling”. *Proc Natl Acad Sci U S A*. 2021 Jun 22;118(25):e2104944118. doi:

Mar.
14



Henry Ho., Ph.D.
Associate Professor
Cell Biology and Human Anatomy
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**March 14, 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!