

## 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

### “Epigenetic Landscape of Pancreatic Ductal Adenocarcinoma”

#### Research Bio

Chang-Il Hwang is an assistant professor at the Department of Microbiology and Molecular Genetics, University of California, Davis. He received his D.V.M. and M.S. degrees from the Seoul National University, Seoul, Republic of Korea, and his Ph.D. degree from Cornell University. He worked as a postdoctoral fellow at the Cold Spring Harbor Laboratory from August 2012 to June 2018. He joined the Microbiology and Molecular Genetics Department in July of 2018. His lab studies the ways in which genetic and epigenetic alterations contribute to pancreatic cancer progression, and exploits contribute to pancreatic cancer progression, and exploits epigenetic vulnerabilities in cancer therapeutics. Hwang has established pancreatic organoid models of human and mouse pancreatic cancer and utilized these models for understanding the epigenetic landscape of disease progression.

#### Publications

Wang SS, Hall ML, Lee E, Kim SC, Ramesh N, Lee SH, Jang JY, Bold RJ, Ku JL, **Hwang CI**. “Whole-genome bisulfite sequencing identifies stage- and subtype-specific DNA methylation signatures in pancreatic cancer”. *iScience*. 2024 Mar 4;27(4):109414. doi: 10.1016/j.isci.2024.109414. PMID: 38532888; PMCID: PMC10963232.

Xu J, Roe JS, Lee E, Tonelli C, Ji KY, Younis OW, Somerville TDD, Yao M, Milazzo JP, Tiriack H, Kolarzyk AM, Lee E, Grem JL, Lazenby AJ, Grunkemeyer JA, Hollingsworth MA, Grandgenett PM, Borowsky AD, Park Y, Vakoc CR, Tuveson DA, **Hwang CI**. “Engrailed-1 Promotes Pancreatic Cancer Metastasis”. *Adv Sci (Weinh)*. 2024 Feb;11(6):e2308537. doi: 10.1002/adv.202308537. Epub 2023 Dec 18. PMID: 38110836; PMCID: PMC10853725.

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**Chang-Il Hwang, D.V.M., Ph.D.**  
Assistant Professor  
Microbiology and Molecular Genetics  
University of California, Davis

January 17, 2025  
12:10 – 1 p.m.

Genome and  
Biomedical  
Sciences Facility,  
Room 1005

In-person presentation

Medical Microbiology and  
Immunology  
School of Medicine

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