

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Spring Quarter 2025 – CRN 47397

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

Genome and Biomedical Sciences Facility, Room 1005

“Targeting Oncogenic Vulnerabilities in Triple-Negative Breast Cancer”

Research Bio

Our research program’s mission is to advance the understanding of the epigenetic regulation of mammalian gene expression. We believe that epigenetic mechanisms provide an avenue for more effective intervention and treatment strategies. We are driven to develop cutting-edge tools, reagents, and therapeutics for key areas of medical research, with emphasis on childhood neurodevelopmental disorders and breast cancer.

Publications

Krzywinska E, **Bhatnagar S**, Sweet L, Chatterjee D, Schorey JS. “Mycobacterium avium 104 deleted of the methyltransferase D gene by allelic replacement lacks serotype-specific glycopeptidolipids and shows attenuated virulence in mice”. *Mol Microbiol.* 2005 Jun;56(5):1262-73. doi: 10.1111/j.1365-2958.2005.04608.x. PubMed PMID: 15882419.

Bhatnagar S, Schorey JS. “Elevated mitogen-activated protein kinase signalling and increased macrophage activation in cells infected with a glycopeptidolipid-deficient Mycobacterium avium”. *Cell Microbiol.* 2006 Jan;8(1):85-96. doi: 10.1111/j.1462-5822.2005.00602.x. PubMed PMID: 16367868.

Bhatnagar S, Schorey JS. “Exosomes released from infected macrophages contain Mycobacterium avium glycopeptidolipids and are proinflammatory”. *J Biol Chem.* 2007 Aug 31;282(35):25779-89. doi: 10.1074/jbc.M702277200. Epub 2007 Jun 25. PubMed PMID: 17591775; PubMed Central PMCID: PMC3636815.

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Department of Medical
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University of California, Davis

**May 2, 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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We hope to see you there!