

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Fall Quarter 2025 – CRN 38614

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

“From Villains to Allies: Decoding the Role of the Type VI Secretion System (T6SS) in Pathogenesis and Commensalism”

Research Bio

Antonio Serapio-Palacios is an Assistant Professor at the Department of Microbiology and Molecular Genetics at the University of California, Davis. The central theme of his research is the role of bacterial effector proteins in manipulating cellular processes, particularly at the host-pathogen interface and interbacterial competition. Serapio-Palacios completed his postdoctoral training at the Michael Smith Laboratories and Department of Microbiology and Immunology at the University of British Columbia, Canada. Currently, his research program focuses on the molecular mechanisms that bacterial pathogens use to subvert host cell pathways and how pathogens and commensal bacteria use sophisticated molecular weapons to eliminate bacterial competitors. For more detailed information, please visit his website:

<https://serapiopalacioslab.ucdavis.edu/>

Publications

Serapio-Palacios A, Woodward SE, Vogt SL, Deng W, Creus-Cuadros A, Huus KE, Cirstea M, Gerrie M, Barcik W, Yu H, Finlay BB. “Type VI secretion systems of pathogenic and commensal bacteria mediate niche occupancy in the gut”. *Cell Rep*. 2022 Apr 26;39(4):110731. PubMed PMID: 35476983.

Vogt SL*, **Serapio-Palacios A***, Woodward SE, Santos AS, de Vries SPW, Daigneault MC, Brandmeier LV, Grant AJ, Maskell DJ, Allen-Vercoe E, Finlay BB. “Enterohemorrhagic *Escherichia coli* responds to gut microbiota metabolites by altering metabolism and activating stress responses”. *Gut Microbes*. 2023 Jan-Dec;15(1):2190303. PubMed Central PMCID: PMC10038027.

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Oct 3, 2025
12:10 – 1 p.m.
GBSF Auditorium
Room 1005
In-person presentation

Medical Microbiology and
Immunology
School of Medicine

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We hope to see you there!