

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Fall Quarter 2024 – CRN 39234

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

“Feline Infectious Peritonitis: A Cat-and-Mouse Game of Vaccination”

Research Bio

Brostoff received her Ph.D. in integrative pathobiology and her D.V.M. from the UC Davis through the Veterinary Scientists Training Program. She then worked in companion animal private practice for several years before returning to academia to complete a postdoctoral fellowship under the guidance of Professor Peter Ernst as a collaboration between UC San Diego and UC Davis. During this time, she also achieved board certification in veterinary microbiology with subspecialties in immunology and virology. She is currently an assistant professor at the UC Davis School of Veterinary Medicine in the department of Pathology, Microbiology, and Immunology. Her laboratory focuses on developing novel diagnostic tests and vaccines. In addition to their clinical applications, also uses these tools to better understand host-pathogen interactions and the immune responses to both infection and vaccination. Her recent work has been developing a vaccine to prevent feline infectious peritonitis, a highly fatal disease of young cats caused by feline coronavirus. Her team is also using the vaccine to investigate the importance of an immune response directed towards the viral nucleocapsid protein during viral infection.

Publications

Brostoff T, Savage HP, Jackson KA, Dutra JC, Fontaine JH, Hartigan-O'Connor DJ, Carney RP, Pesavento PA. “Feline Infectious Peritonitis mRNA Vaccine Elicits Both Humoral and Cellular Immune Responses in Mice”. *Vaccines (Basel)*. 2024 Jun 24;12(7):705. doi: 10.3390/vaccines12070705. PMID: 39066343; PMCID: PMC11281389.

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Assistant Professor
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University of California, Davis

Oct. 4, 2024
12:10 – 1 p.m.
GBSF Auditorium
Room 1005
In-person presentation

Medical Microbiology
and Immunology
School of Medicine

Seminar Contact:
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We hope to see you there!