



## MMI 291 Seminar Series

Current Theme: Interdisciplinary Research

Fall Quarter 2020 – **CRN 41538**

**Friday Seminar – 12:10-1 p.m.**



**“SARS-CoV-2 Small Animal Models for Therapeutic Evaluation”**

### Research / Bio

**Dr. Christopher Weiss** is a postdoctoral scholar in the lab of Dr. Lark Coffey. His work focuses on virus evolution and its consequences for host-pathogen interactions and rational vaccine design against emerging viral threats. A key area of interest is the development safer live-attenuated vaccine models accounting for genetic reversion potential of the vaccine. As part of the pandemic mobilization effort of UC Davis scientists with high containment virology experience, his work has recently shifted to establishing high quality small animal models for evaluating COVID-19 treatments and understanding key differences in SARS-CoV-2 infection outcomes.

### Publications

*Engineering a fidelity-variant live-attenuated vaccine for chikungunya virus. NPJ Vaccines. Weiss CM et al. eCollection 2020.*

*The Interferon-Induced Exonuclease ISG20 Exerts Antiviral Activity through Upregulation of Type I Interferon Response Proteins. Weiss CM et al. mSphere. 2018 Sep*

*Respiratory tract explant infection dynamics of influenza A virus in California sea lions, northern elephant seals, and rhesus macaques and severe acute respiratory syndrome virus-2 in rhesus macaques. Liu H et al. In Review. 2020 doi:*

<https://doi.org/10.1101/2020.10.15.342055>

Nov.  
13



**Christopher Weiss , PhD**  
Postdoc Scholar  
Pathology, Microbiology  
and Immunology  
UC Davis School  
of Veterinary Medicine

**Nov. 13, 2020  
12:10 – 1 p.m.  
ZOOM Meeting**

Medical Microbiology  
& Immunology  
School of Medicine

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We hope to see you there!