



UNIVERSITY OF SASKATCHEWAN

College of Medicine

DEPARTMENT OF BIOCHEMISTRY,
MICROBIOLOGY AND IMMUNOLOGY
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Proteomics Research in Interactions

PRISM

and Structure of Macromolecules

COMBINED SEMINAR SERIES

Department of Biochemistry, Microbiology & Immunology
and PRISM Research Centre

Thursday October 15, 2026

11:30 am - 12:30 pm

HLTH GB06

Dr. Selena Sagan, PhD

Professor and Canada Research Chair in RNA Biology & Viral Infections
Department of Microbiology & Immunology, University of British Columbia

"Architecture of a coup: Spatial and temporal coupling of viral replication and virion assembly"



Orthoflaviviruses, including Zika virus, dengue virus and West Nile virus, infect ~400 million people every year and can cause severe health outcomes, ranging from fetal microcephaly to fatal vascular shock.

Despite this immense global disease burden, there are no approved orthoflavivirus antivirals. Herein, we explore the structural and spatial organization of the orthoflavivirus replication complex as well as the mechanism coupling viral RNA replication with virion assembly.

Dr. Selena M. Sagan, Ph.D. is a Professor and Canada Research Chair in RNA Biology & Viral Infections in the Department of Microbiology & Immunology at the University of British Columbia (UBC). She is the co-director of the Prepare for Pandemics through Advanced Research in Evolution (PrePARE) research cluster and is the President of the Canadian Society for Virology.

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