

Hybrid Structural Methods to Probe Atomic Features of The Type III Secretion Injectisome of Pathogenic Bacteria

Monday
Dec. 9, 2019

11:15 a.m. in Innovation Hall
Bruneau Centre (IIC-2001)

.....
Bacteria have evolved several sophisticated assemblies to transport proteins across their biological membrane, including those required specifically for pathogenicity.

Recent advances in our understanding of the molecular details governing the molecular action of these protein secretion systems has benefited from an integrated x-ray crystallography, NMR, mass-spectroscopy, electron microscopy, and molecular modeling toolbox.

Highlights of recent advances in our piece wise structure/function analysis of the multi-membrane spanning Type III Secretion system "injectisome" will be presented. A molecular understanding of the Type III systems being garnered from these studies provides the foundation for development of new classes of antibacterials and vaccines to combat infection in the clinic and community.



**DR. NATALIE
STRYNADKA**

*Department of Biochemistry and
Molecular Biology
University of British Columbia*



BIOCHEMISTRY
Faculty of Science