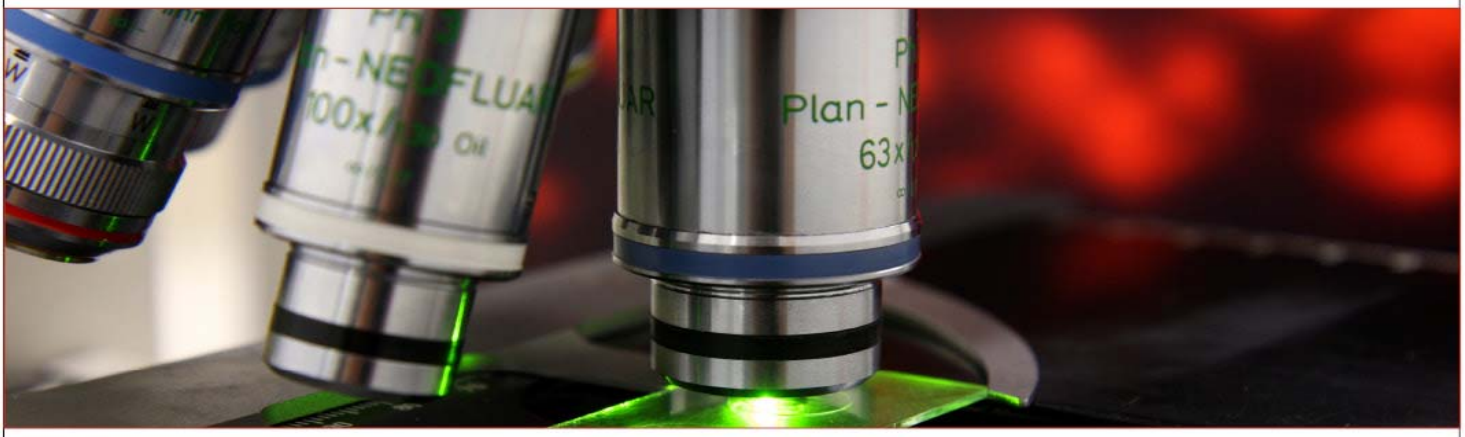
SÉMINAIRES ET CONFÉRENCES



Laurent Terradot

CNRS – Université de Lyon

« Structural Biology of Type IV secretion system effectors»

Bacterial infections are a major human health problem worldwide, causing more than 14 million deaths per year. Antibiotic resistances are rising in numerous bacterial pathogens and are a major threat on human populations. There is thus a need to better define the molecular basis of bacterial infections and define new ways of combatting them. During the course of evolution, bacteria have developed remarkable strategies to counter-attack the immune-response response by subverting signaling pathways. Our group studies the structural biology of bacterial pathogens that produce type IV secretion systems, a molecular device used to inject protein effectors into host cells. These effectors are remarkably diverse and can have multiple and detrimental effects on the human cells. Although we have focused our work on the bacterial pathogen Helicobacter pylori, we have recently investigated the infections by other pathogens, in particular Brucella and Legionella species.
Here I will present some examples of these bacterial T4SS effectors studied in our laboratory, including novel ones, and show how structure determination of these proteins can contribute to our understanding of bacterial pathogenesis.

Faculté de médecine
Département de biochimie
et médecine moléculaire
Université de Montréal

Le jeudi 19 juillet 2018, 14h00

Pavillon Roger-Gaudry
Salle : G-715
Invité Christian Baron
Tél : (514) 343-6300 courriel : christian.baron@umontreal.ca