

MICROBIOLOGIE, INFECTIOLOGIE ET IMMUNOLOGIE

Université 
de Montréal

CONFÉRENCE

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Genomics of the Immune System

Characterizing the genetic and epigenetic factors controlling innate immune responses to bacterial infection

Infectious diseases have always been a major public health problem throughout the world. Although a significant proportion of inter-individual variation in susceptibility to particular microbes can be attributed to environmental factors such as malnutrition or poor hygienic conditions, a substantial portion is due to host genetic factors. Using a multidisciplinary approach that combines genomic techniques with immunological and evolutionary genetic tools, our laboratory has been able to identify individual genes, as well as entire pathways, whose transcriptional response to distinct bacterial infections varies among individuals and populations and can be mapped to specific genetic loci (QTLs). I will also discuss some recent results from our lab that highlight the key importance of epigenetic changes in the control of immune responses to infection.

Jeudi 20 novembre 2014 à 11h30
Pavillon Claire-McNicoll, Salle Z-210

Invité par Dr Hugo Soudeyns
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