



# Prestige Seminars

Thursday 28<sup>th</sup> of May, 11:00: Marc Ridet room (INRA Campus)

## Genomic screens identify a new phytochemical MAMP and an Arabidopsis receptor-like kinase required for immune elicitation



**David S. Guttman** (*Department of Cell and Systems Biology, Centre for the Analysis of Genome Evolution & Function, University of Toronto*)

The recognition of microbe-associated molecular patterns (MAMPs) by plant receptor-like protein kinases (RLKs) during infection is central to mounting of an effective immune response. I will discuss new comparative and functional genomic screens to identify bacterial MAMPs and *Arabidopsis thaliana* RLKs required for the recognition of these elicitors, as well as the characterization of a specific MAMP – RLK pair. This work provides a path for the rapid identification of new components of the plant immune system.

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## Type III Effectors and the Plant Immune Response

**Darrell Desveaux** (*Department of Cell and Systems Biology, Centre for the Analysis of Genome Evolution & Function, University of Toronto*)

The phytopathogen *Pseudomonas syringae* uses a type III secretion system to deliver effector proteins into plant cells. Many of these effectors suppress plant immunity, however their recognition by plant resistance proteins can induce an immune response that thwarts pathogen growth. Our recent efforts to functionally characterize the type III effector HopZ1a are revealing novel phytopathogen virulence strategies as well as components of the plant immune system.



## A round table only for Master, PhD students, Post-docs...

Friday 29<sup>th</sup> of May: Lunch (12:30) & round table (13:30)

A round table will be especially dedicated for informal discussions between our invited speakers and all the students and post-docs of our labs. It will take place after the plenary session and a lunch offered by TULIP in company of D.Desveaux & D.Guttman in the biotech hall (at the back of M.Ridet room). It will start at 13:30 in room 131. In this way, you will have the opportunity to discuss about your or their research projects in a convivial atmosphere. **For logistical reasons, please register here.**