Special Seminar:
Candidate for Assistant Professor
Plant and/or Microbial Systems Biology

Dr. Youssef Belkhadir
Group Leader
Gregor Mendel Institute of Molecular Plant Biology

“Decoding cell surface receptor interaction networks by system genetics approaches.”

The vast majority of our current understanding of signaling pathways that originate at the cell surface is based on studies considering receptor systems in isolation and the pathways they control as linear entities. While these approaches provide key information on the quasi-static signaling properties of cell surface receptors, they are unsuitable for system level studies. First, I will present my laboratory efforts aimed at understanding how cell surface receptors in Arabidopsis operate in physical networks to generate adapted signaling responses to various environmental signals. Second, I will show how quantitative system genetics approaches can be leveraged as a tool of choice to map biological function onto receptor interaction networks, thereby providing a mechanistic and molecular understanding of signal specificity in cell surface signaling networks.

Monday, April 9, 2018 at 11:00 a.m.
Ramsay Wright Building, Room 432

This seminar will be recorded to be accessible within 24 hours after the event.

Refreshments will be served.
Ramsay Wright is a wheelchair accessible building.