

# Organism Biology course

## Plant disease epidemiology– from theory to applications (4.5 credits)

### Monday 07 December – Zoom

#### *Principles and tools*

08:10-08:15	Course open (Jiasui Zhan, SLU)
08:15-10:00	Principles and concepts (Jonathan Yuen, SLU)
10:15-12:00	Field Epidemiology (Jeremy Burden, CSRIO, Australia)
12:00-13:00	Lunch
13:00-14:45	Molecular Epidemiology (Anders Kvarnheden, SLU)*
15:00-16:45	Landscape Epidemiology (Julien Papaix/ Loup Rimbaud, INRAE, France)

### Tuesday 08 December - Zoom

#### *Population biology of pathogens*

08:15-09:10	Modeling (Alexey Mikaberidze, Reading University, UK*)
10:15-12:00	Genomics (Nils Högberg, SLU)
12:00-13:00	Lunch
13:00-14:45	Molecular (Anna Berlin, SLU)
15:00-16:45	Risk assessment (Bruce McDonald, ETHZ, Switzerland)

### Wednesday 09 December – Zoom

#### *Ecology*

08:15-09:10	Functional ecology (Jan Stenlid, SLU)
10:15-12:00	Pathogen-host interaction (Salim Bourras, SLU)
12:00-13:00	Lunch
13:00-14:45	Pathogen community - modeling (Hanna Friberg/Miguel Redondo)
15:00-16:45	Pathogen-host interaction (Christopher Mundt, OSU, USA)

### Thursday 10 December -Zoom

#### *Mitigations*

08:15-10:00	Host resistance (Magnus Karlsson, SLU)
10:15-12:00	Bio-agents (Dan Funck Jensen, SLU)
12:00-13:00	Lunch
13:00-14:45	Chemicals (Björn Andersson, SLU)
15:00-16:45	Evo-ecology (Jiasui Zhan/Johanna Boberg, SLU)

### Friday 11 December -Zoom

#### *examinations*

08:15-15:00	Write reports, student presentation etc
15:00-15:30	Submit reports to course organizer (Jiasui.Zhan@slu.se)
15:30-16:00	Course close (Jiasui Zhan, SLU, Sweden)

\*These two lectures may need to be switched the order due to time conflict of a teacher.