Plant-microbe interactions  
Växt-mikrobinteraktioner

PhD course (6 hec) in association with BI1002

COURSE SCHEDULE 2018

All lectures are in Undervisningshuset (U-hus; Education Building, Rooms K and L) or VHC hus (Audhumbla), central Ultuna, while all other theoretical exercises are in the rooms indicated. Compulsory parts are marked *.

Week 3
Tue 16/1 13.15-15.00  **Course introduction** (Daniel Hofius) (BioC Room Room C216)*

Wed 17/1 09.15-10.00  **L1:** Significance of plant diseases and disease resistance (Jari Valkonen) (U-hus Room L)
10.15-11.00  **L2:** Defence mechanisms of plants (Daniel Hofius) (U-hus Room L)
13.15-15.00  **L3:** Nematode-plant interactions (Maria Viketoft) (U-hus Room L)

Thu 18/1 No teaching

Fri 19/1 09.15-11.00  **L4:** Infection by viruses (Anders Kvarnheden) (U-hus Room L)
13.15-15.00  **L5:** Infection by biotrophic fungi and oomycetes (Asko Hannukkala) (U-hus Room L)

Week 4
Tue 23/1 13.15-15.00  **Study questions** (BioC Room A-436)

Wed 24/1 09.15-11.00  **L6:** Fungal and oomycete effectors (Christina Dixelius) (U-hus Room L)
13.15-15.00  **L7:** Infection by necrotrophic fungi (Åke Olson) (U-hus Room L)

Thu 25/1 No teaching

Fri 26/1 09.15-11.00  **L8:** Infection by bacteria (May-Bente Brurberg) (U-hus Room K)
13.15-15.00  **L9:** Bacterial virulence factors (Minna Haapalainen) (U-hus Room K)

Week 5
Tue 30/1 13.15-15.00  **Study questions** (BioC Room A-436)

Wed 31/1 09.15-11.00  **L10:** Infection by Agrobacterium (Elina Roine) (U-hus Room K)
13.15-15.00  **L11:** Signalling in plant defence I, Plant hormones (Kirk Overmyer) (U-hus Room K)

Thu 1/2 13.15-15.00  **Lab 1:** Introduction of lab projects (BioC Room A-436)

Fri 2/2 09.15-11.00  **L12:** Signalling in plant defence II, PCD (Daniel Hofius) (U Room L)
13.15-15.00  **L13:** Transcriptional responses to abiotic stress (Kurt Fagerstedt) (U-hus Room L)
Week 6
Tue 6/2 13.15-15.00 **Study questions** (BioC Room A-436)

Wed 7/2 09.15-11.00 **L14**: Transgenic resistance to pathogens (Anders Kvarnheden) (VHC hus Audhumbla)
13.15-15.00 **L15**: Defence to viruses by gene silencing (Jari Valkonen) (VHC hus Audhumbla)

Thu 8/2  No teaching

Fri 9/2 09.15-11.00 **L16**: Biological control of plant diseases (Johan Meijer) (U-hus Room L)
13.15-15.00 **L17**: Gene-for-gene interaction: molecular recognition (Jari Valkonen) (U-hus Room L)

Week 7
Tue 13/2 13.15-16.00 **Study questions** (BioC Room A-436)

Wed 14/2 09.15-11.00 **L18**: Plant disease dynamics in natural populations (Anna-Liisa Laine) (U-hus Room K)
13.15-15.00 **L19**: Symbiotic interactions with bacteria (Per-Olof Lundquist) (U-hus Room K)

Thu 15/2  No teaching

Fri 16/2 09.15-11.00 **L20**: Fungal symbiosis and parasitism; nutrients and ectomycorrhiza (Malin Elfstrand) (U-hus Room K)
13.15-15.00 **L21**: Molecular regulation of mycorrhizal interactions (Malin Elfstrand) (U-hus Room K)

Week 8
Tue 20/2 13.15-15.00 **Study questions** (BioC Room A-436)

Wed 22/2  No teaching

Thu 23/2  No teaching

Fri 24/2  No teaching **Literature Project work**: Written reports handed in

Week 9
27/2 - 2/3  **Lab 1: Practical part in research groups**

Week 10
Tue 6/3  No teaching

Wed 7/3  No teaching

Thu 8/3 10.15-12.00 **Questions before the examination** (BioC Room A-436)

Fri 9/3 09.15-12.00 **Written examination** (BioC Room C212)*
**Week 11**

Tue 13/3  No teaching  **Examination home correction**: handed in

Wed 14/3  No teaching

Thu 15/3  No teaching

Fri 16/3  09.15-11.00  **Discussion of the exam** (BioC Room A-402)
          11.15-12.00  **Course evaluation** (BioC Room A-402)