

2020-10-13

Plant-microbe interactions Växt-mikrobinteraktioner

BI1354

COURSE SCHEDULE 2020/2021

All lectures are in the videoconference rooms of the Ultuna library (Room Arenander) or Undervisningshuset (U-hus; Education Building, Room H), central Ultuna, while all other theoretical exercises are in the indicated rooms in the BioCenter. Compulsory parts are marked*.

Week 45

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| Mon 2/11 | 13.15-15.00 | Course introduction (Daniel Hofius) (Ultuna library, PRIMA)* |
| Tue 3/11 | 11.15-12.00 | L1: Significance of plant diseases and disease resistance (Jari Valkonen) (Ultuna library, Arenander) |
| | 12.15-13.00 | L2: Defence mechanisms of plants (Daniel Hofius) (Arenander) |
| Wed 4/11 | 11.15-13.00 | L3: Infection by viruses (Anders Hafren) (Arenander) |
| Thu 5/11 | 11.15-13.00 | L4: Infection by biotrophic fungi and oomycetes (Eeva Marttinen) (Arenander) |
| Fri 6/11 | 11.15-13.00 | L5: Fungal and oomycete effectors (Christina Dixelius) (Arenander) |

Week 46

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| Mon 9/11 | 10.15-12.00 | Discussion of study questions (BioC Room A-502) |
| | 13.15-14.00 | Literature Project work: Introduction (BioC Room A-502)* |
| Tue 10/11 | 11.15-13.00 | L6: Infection by bacteria (Minna Pirhonen) (Arenander) |
| Wed 11/11 | 11.15-13.00 | L7: Bacterial virulence factors and secretion systems (Minna Pirhonen) (Group study room) |
| Thu 12/11 | 11.15-13.00 | L8: Vascular plant pathogenic bacteria (Minna Haapalainen) (Arenander) |
| Fri 13/11 | 11.15-13.00 | L9: Infection by necrotrophic fungi (Åke Olson) (Arenander) |

Week 47

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| Mon 16/11 | 10.15-12.00 | Discussion of study questions (BioC Room A-502) |
| Tue 17/11 | 11.15-13.00 | L10: Nematode-plant interactions (Maria Viketoft) (Arenander) |
| Wed 18/11 | 11.15-13.00 | L11: Plant disease dynamics in natural populations (Hanna Susi) (Arenander) |
| Thu 19/11 | 11.15-13.00 | L12: Signalling in plant defence I, Plant hormones (Kirk Overmyer) (Arenander) |

Fri 20/11	11.15-13.00	L13: Signalling in plant defence II, PCD (Daniel Hofius) (Arenander)
Week 48		
Mon 23/11	10.15-12.00	Discussion of study questions (BioC Room A-502)
Tue 24/11	11.15-11.00	L14: Transcriptional responses to abiotic stress (Kurt Fagerstedt) (U-hus Room H)
Wed 25/11	11.15-13.00	L15: Defence to viruses by gene silencing and gene-for-gene interaction (Anders Haftrén) (U-hus Room H)
Thu 26/11	11.15-13.00	L16: Transgenic resistance to pathogens (Anders Kvarnheden) (U-hus Room H)
Fri 27/11	11.15-13.00	L17: Biological control of plant diseases (Johan Meijer) (U-hus Room H)
Week 49		
Mon 30/11	10.15-12.00	Discussion of study questions (BioC Room A-502)
Tue 1/12	11.15-11.00	L18: Symbiotic interactions with bacteria (Per-Olof Lundquist) (U-hus Room H)
Wed 2/12	11.15-13.00	L19: Fungal symbiosis and parasitism; nutrients and ectomycorrhiza (Malin Elfstrand) (U-hus Room H)
Thu 3/12	11.15-13.00	L20: Molecular regulation of mycorrhizal interactions (Malin Elfstrand) (U-hus Room H)
Fri 4/12	10.15-12.00	Research Project work: Introduction of Lab I projects (BioC Room A-502)
Week 50		
Mon 7/12	9.15-16.00	Lab II: DNA sequence analysis (Datorsal Hugin & Munin, VHC)* (Anders Kvarnheden)
Tue 8/12	10.15-12.00	Discussion of study questions (BioC Room A-502)
Wed 9/12	No teaching	
Thu 10/12	No teaching	
Fri 11/12	09.15-13.00	Presentation of literature project (BioC Room A-502) Literature project: handed in.
Week 51		
Mon 14/12	No teaching	
Tue 15/12	10.15-12.00	Questions before the examination (BioC Room A-502)

Wed 16/12 No teaching

Thu 17/12 No teaching

Fri 18/12 09.15-12.00 **Written examination** (to be announced)*
(FINAL DATE AND TIME WILL BE COORDINATED WITH HELSINKI)

Week 52 -> Week 53 / 2020

21/12 - 1/1 Christmas vacation

Week 1 (2021)

Mi 6/1 Trettondedag jul / Epiphany holiday

4/1- 8/1 **Lab I: Practical part in research groups**

Week 2 (2021)

13/1-15/1 **Lab I: Practical part in research groups**

Fri 15/1 09.15-12.00 **Research Project work:** Presentations (BioC Room A-402)*
13.15-14.00 **Course evaluation** (BioC Room A-402)