

2023-10-26

Plant-microbe interactions Växt-mikrobinteraktioner

BI1354

COURSE SCHEDULE 2023/2024

All lectures are taking place via videoconferencing at Arenander (Ultuna library) and Sal H (Undervisningshuset, U-hus) teaching rooms while all other exercises/events are in the indicated rooms in the BioCenter (note the different room numbers A-436 or A-402!). The computer lab takes place at the Computer room 2 (Ulls Hus). The written exam will be held in Tentamenssal 1 (U-hus). Compulsory parts are marked*.

Week 44

- Tue 31/10 9.15-11.00 **Course introduction*** (Daniel Hofius) (Group room M1/M2, U-hus)
- Wed 1/11 9.15-10.00 **L1:** Significance of plant diseases and disease resistance (Minna Pirhonen) (Arenander, library)
- 10.15-11.00 **L2:** Defence mechanisms of plants (Daniel Hofius) (Arenander, library)
- Thu 2/11 9.15-11.00 **L3:** Infection by viruses (Anders Hafrén) (Arenander, library)
- Fri 3/11 9.15-11.00 **L4:** Interactions of bacteria with plants (Minna Pirhonen) (Arenander, library)

Week 45

- Mon 6/11 9.15-11.00 **Discussion of study questions** (BioC Room A-436)
11.15-12.00 **Literature project work: Introduction*** (BioC Room A-436)
- Tue 7/11 9.15-11.00 **L5:** Necrotrophic and hemibiotrophic bacteria causing plant diseases (Minna Pirhonen) (Arenander, library)
- Wed 8/11 9.15-11.00 **L6:** Biotrophic bacteria causing plant diseases (Minna Pirhonen) (Arenander, library)
- Thu 9/11 9.15-11.00 **L7:** Infection by biotrophic fungi and oomycetes (Eeva Marttinen) (Arenander, library)
- Fri 10/11 9.15-11.00 **L8:** Fungal and oomycete effectors (Christina Dixelius) (Arenander, library)

Week 46

- Mon 13/11 9.15-11.00 **Discussion of study questions** (BioC Room A-436)
13.15-15.00 **Lab I:** Introduction of projects in research groups* (BioC Room A-402)
- Tue 14/11 9.15-11.00 **L9:** Infection by necrotrophic fungi (Åke Olson) (Arenander, library)
- Wed 15/11 9.15-11.00 **L10:** Nematode-plant interactions (Maria Viketoft) (Arenander, library)

Thu 16/11	9.15-11.00	L11: Plant disease dynamics in natural populations (Hanna Susi) (Arenander, library)
Fri 17/11	9.15-11.00	L12: Signalling in plant defence I, Plant hormones (Kirk Overmyer) (Arenander, library)
Week 47		
Mon 20/11	9.15-11.00	Discussion of study questions (BioC Room A-436)
Tue 21/11	9.15-11.00	L13: Signalling in plant defence II, PCD (Daniel Hofius) (Room H, U-hus)
Wed 22/11	9.15-11.00	L14: Transcriptional responses to abiotic stress (Saijaliisa Kangasjärvi) (Room H, U-hus)
Thu 23/11	9.15-11.00	L15: Defence to viruses by gene silencing and gene-for-gene interaction (Anders Hafren) (Room H, U-hus)
Fri 24/11	9.15-11.00	L16: Transgenic resistance to pathogens (Anders Kvarnheden) (Room H, U-hus)
Week 48		
Mon 27/11	9.15-11.00	Discussion of study questions (BioC Room A-436)
Tue 28/11	9.15-11.00	L17: Symbiotic interactions with bacteria (Per-Olof Lundquist) (Room H, U-hus)
Wed 29/11	9.15-11.00	L18: Fungal symbiosis and parasitism; nutrients and ectomycorrhiza (Judith Lundberg-Felten) (Room H, U-hus)
Thu 30/11	9.15-11.00	L19: Molecular regulation of mycorrhizal interactions (Judith Lundberg-Felten) (Room H, U-hus)
Fri 1/12	9.15-11.00	L20: Biological control of plant diseases (Derek Lundberg) (Room H, U-hus) Literature project work: Report handed in*
Week 49		
Mon 4/12	9.15-11.00	Discussion of study questions (BioC Room A-436)
	13.15-16.00	Lab I: Practical part in research groups*
Tue 5/12- Fri 8/12	9.15-16.00	Lab I: Practical part in research groups*
Week 50		
Mon 11/12- Fri 15/12	9.15-16.00	Lab I: Practical part in research groups*
Week 51		
Mon 18/12	09.15-11.00	Questions before the examination (BioC Room A-402)

Tue 19/12 No teaching

Wed 20/12 08.15-12.00 **Written examination*** (Examination room 1, U-hus)

Thu 21/12 No teaching

Fri 22/22 No teaching

Week 1(2024)

Tue 02/01-

Fri 05/01 No teaching **Lab I:** Research project report handed in*

Week 2 (2024)

Mon 08/01 **Lab II:** DNA sequence analysis* (Computer room 2, Ulls Hus A-block)
(Anders Kvarnheden)

Tue 09/01 No teaching

Wed 10/01 9:15-12.00 **Presentation of literature projects** (BioC Room A-436)

Thu 11/01 No teaching

Fri 12/01 9.15-11.00 **Lab I:** Presentation of research projects ((BioC Room A-402)
11.15-12.00 **Course evaluation**