

2021-10-11

Plant-microbe interactions Växt-mikrobinteraktioner

BI1354

COURSE SCHEDULE 2021/2022

All lectures are via ZOOM while all other theoretical exercises are in the indicated rooms in the BioCenter. Compulsory parts are marked*.

Week 44

- Tue 2/11 9.15-11.00 **Course introduction** (Daniel Hofius) (PRIMA, Ultuna library)*
- Wed 3/11 9.15-10.00 **L1: Significance of plant diseases and disease resistance** (Minna Pirhonen)
- 10.15-11.00 **L2: Defence mechanisms of plants** (Daniel Hofius)
- Thu 4/11 9.15-11.00 **L3: Infection by viruses** (Anders Hafren)
- Fri 5/11 9.15-11.00 **L4: Infection by bacteria** (Minna Pirhonen)

Week 45

- Mon 8/11 9.15-11.00 **Discussion of study questions** (BioC Room A-402)
- 11.15-12.00 **Literature Project work: Introduction** (BioC Room A-402)*
- Tue 9/11 9.15-11.00 **L5: Bacterial virulence factors and secretion systems** (Minna Pirhonen)
- Wed 10/11 9.15-11.00 **L6: Vascular plant pathogenic bacteria** (Minna Haapalainen)
- Thu 11/11 9.15-11.00 **L7: Infection by biotrophic fungi and oomycetes** (Eeva Marttinen)
- Fri 12/11 9.15-11.00 **L8: Fungal and oomycete effectors** (Christina Dixelius)

Week 46

- Mon 15/11 9.15-11.00 **Discussion of study questions** (BioC Room A-402)
- Tue 16/11 9.15-11.00 **L9: Infection by necrotrophic fungi** (Åke Olson)
- Wed 17/11 9.15-11.00 **L10: Nematode-plant interactions** (Maria Viketoft)
- Thu 18/11 9.15-11.00 **L11: Plant disease dynamics in natural populations** (Hanna Susi)
- Fri 19/11 9.15-11.00 **L12: Signalling in plant defence I, Plant hormones** (Kirk Overmyer)

Week 47

- Mon 22/11 9.15-11.00 **Discussion of study questions** (BioC Room A-402)
- Tue 23/11 9.15-11.00 **L13: Signalling in plant defence II, PCD** (Daniel Hofius)

Wed 24/11	9.15-11.00	L14: Transcriptional responses to abiotic stress (Kurt Fagerstedt)
Thu 25/11	9.15-11.00	L15: Defence to viruses by gene silencing and gene-for-gene interaction (Anders Hafrén)
Fri 26/11	9.15-11.00	L16: Transgenic resistance to pathogens (Anders Kvarnheden)
Week 48		
Mon 29/11	9.15-11.00	Discussion of study questions (BioC Room A-402)
Tue 30/11	9.15-11.00	L17: Symbiotic interactions with bacteria (Per-Olof Lundquist)
Wed 1/12	9.15-11.00	L18: Fungal symbiosis and parasitism; nutrients and ectomycorrhiza (Malin Elfstrand)
Thu 2/12	9.15-11.00 13.15-15.00	L19: Molecular regulation of mycorrhizal interactions (Malin Elfstrand) Research Project work: Introduction of Lab I projects (BioC Room A-402)
Fri 3/12	9.15-11.00	L20: Biological control of plant diseases (Johan Meijer)
Week 49		
Mon 6/12	9.15-11.00	Discussion of study questions (BioC Room A-402)
Tue 7/12	No teaching	
Wed 8/12	No teaching	
Thu 9/12	No teaching	
Fri 10/12	9.15-13.00	Presentation of literature project (BioC Room A-402) Literature project: handed in.
Week 50		
Mon 13/12	9.15-16.00	Lab II: DNA sequence analysis (Computer room 1, Ulls Hus)* (Anders Kvarnheden)
Tue 14/12	No teaching	
Wed 15/12	9.15-11.00	Questions before the examination (BioC Room A-402)
Thu 16/12	No teaching	
Fri 17/12	09.15-12.00	Written examination (to be announced)*

Week 51 -> Week 53 Christmas vacation

Week 1 (2022)

3/1- 6/1 **Lab I: Practical part in research groups**

Thu 7/1 Trettondedag jul / Epiphany holiday

Week 2 (2022)

10/1-14/1 **Lab I: Practical part in research groups**

Fri 14/1 09.15-11.00 **Research Project work:** Presentations (BioC Room A-402)*
11.15-12.00 **Course evaluation** (BioC Room A-402)