

MSc/PhD-course “Plant Protection Biology: improving plant health under climate change and other stresses”, SLU-P0065, August 8 – 19, 2022 Alnarp, Sweden

Course schedule Updated: 28 January 2022

Organisers: LTV-faculty SLU Alnarp, ELLS

Date	Time	Items	Teachers	Location
Monday Aug 8	Morning			
	10.00 – 10.30	Introduction and Instructions	EA	Crafoord Hall
	10:30 – 11.30	Tour of campus and practical issues	EA	
	Lunch			
	13.00 – 15:00	Short student presentation about research area/background	All in groups	
	15.00 – 16.00	Very short history of plant protection	EA	
	16.00 – 16.30	Student presentations continued	All in groups	
16.30 – 17.00	Introduction to the “case study” and ELLS iPBL competition	EA		
	18:00	Welcome dinner in Alnarp		
Tuesday Aug 9	09.00 – 11.00	Biology of plant pathogenic fungi	HJ	Crafoord Hall
	11.00 – 12.00	Plant pathogenic viruses and bacteria	RV	
	Lunch			
	13.00 – 14.00	Plant pathogenic viruses and bacteria cont.	RV	
	14.00 – 16.00	Pathogenic oomycetes	TBC	
	16.00 – 17.30	Group discussions/Literature seminar 1 [Papers 1-4]	SR/EA	

Wednesday Aug 10	09.00 – 11.00	Plant pests	TBA	Crafoord Hall
	11.00 – 12.00	Plant-insect interactions and pollinators	TBA	
	Lunch 13.00 – 15.00	<i>ELLS internal online meeting</i> General introduction to forest protection strategies	KR	
	15.00 – 16.00	Introduction to the world of wildfires	RB	
	16.30 – 17.00	Current phytopathological problems in forest protection	MM	
	17.00	Hand in of title for Case study		
Thursday Aug 11	09.00 – 10.30	From transgenic plants to endophytic fungi: contrasting approaches to disease control in plants	DCB	Crafoord Hall
	10.30 – 12.00	Group discussion/Literature seminar 2 [Papers 5-8]	EA/SR	
	Lunch 13.00-14.30	Introduction to UN Sustainable Development Goals with exercise	AA/EA	
	14.30 – 16.30	UN Sustainable Development Goals exercise + mid-term evaluation)	AA/EA	

Friday Aug 12	9.00 – 11.00	Ecosystems and multi-trophic interactions	KKG	Crafoord Hall
	11.00 –12.00	THEME Climate change and Abiotic stress! Potential of hydrogels to mitigate drought stress in forests	KR	
	Lunch 13.00 – 15.00	Climate change and the effect on biocontrol agents	AW	
	15.00-16.00	Climate change and the production of mycotoxins	HJ	
Saturday-Sunday		Self-studies		
Monday Aug 15	09.00 – 12:00	Molecular aspects of host resistance	EA	Crafoord Hall/Online
	Lunch			
	13.00 – 14.00	Conventional pesticides	SR	
	14.00 – 15.00	Biologicals	SR	
	15.00-17.00	Biological control: concepts, status and possibilities	MT	

Tuesday Aug 16	09.00 – 11.00	Plant breeding for resistance	ML	Plantan	
	11.00 – 12.00	Exploiting crop relatives for resistance breeding	MR		
	Lunch 13.00 – 14.00	Breeding for plant resistance at a breeding company	TBA		Bus excursion
	14.00 – 16.00	Study visit to apple orchard with coffee			
Wednesday Aug 17	11.00 – 12.00	Ecosystems: concepts and comparison between agriculture and forest ecosystem	ML	Crafoord Hall	
	Lunch 13.00 – 17.00	Climate change, modelling and plant pathogens including modelling lab	VL		
Thursday Aug 18	09.00 – 10.30	Brief introduction to remote and proximal sensing in plant protection and plant stress sensing	EA	Crafoord Hall	
	10.30 – 12.00	Group discussions/Literature seminar 3 [Papers 9-12]			
	12.00 –	Study and preparation time case study			
Friday Aug 19	9.00 – 15.00	Student presentations of case study and final discussions Course evaluation	EA/SR	Plantan	

Invited teachers (ELLS teachers in green):

AW - Andreas Walzer, BOKU, Austria

DBC – David B. Collinge, University of Copenhagen, Denmark

HJ – Hans Jørgen Lyngs Jørgensen, University of Copenhagen, Denmark

KR- Karolina Resnerová, Czech University of Life Sciences Prague

ML – Morten Lillemo, NMBU
MM - Markéta Macháčová, Czech University of Life Sciences Prague
MT – Marco Tasin
RB - Roman Berčák, Czech University of Life Sciences
VL – Veiko Lehsten, Lund University, Sweden

SLU-teachers:

AA – Assem Abouhatab
EA – Erik Alexandersson
KKG – Kristina Karlsson Green
qML – Mattias Larsson
MR – Mahbubjon Rahmatov
RV – Ramesh Vetukuri
SR – Svante Resjö