

**Time Schedule for Applied Plant Biotechnology (APB), 15 HEC (BI1344)
2021**

Date	Time	Topic and activity	Location	Teacher
<u>Week 35</u>				
Aug 30 <i>(Mon)</i>	09:00-12:00	Course introduction (L) Genetic transformation (L)	Zoom	LZ
Aug 31 <i>(Tue)</i>				
	09:00-16:00	Start Lab. 1- Transformation (P) ¹	Kemisal (S)	Wes
	09:00-12:00	Group 1		
	13:00-16:00	Group 2		
Sept 1 <i>(Wed)</i>				
	09:00-12:00	Tissue culture & Organogenesis (L)	Zoom	LZ
Sept 2 <i>(Thurs)</i>				
	09:00-12:00	Molecular biological techniques (L)	Zoom	IL
Sept 3 <i>(Fri)</i>				
	09:00-12:00	Continue Lab 1-washing (P) ¹	Kemisal (S)	Wes
	09:00-10:30	Group 2		
	10:30-12:00	Group 1		
<u>Week 36</u>				
Sept 6 <i>(Mon)</i>	09:00-12:00	Start Lab 2-meristem establishment ¹ (P)	Kemisal (S)	Wes
	09:00-10:30	Group 1		
	10:30-12:00	Group 2		
Sept 7 <i>(Tue)</i>				
	09:00-16:00	Lab. 4 – DNA extraction and PCR (P)	Kemisal	Wes
	09:00-12:00	Group 1		
	13:00-16:00	Group 2		
Sept 8 <i>(Wed)</i>				
	09:00-12:00	Gene cloning (L)	Zoom	IL
Sept 9 <i>(Thurs)</i>				
	09:00-16:00	RNA extraction for qRT-PCR (P)	Kemisal	SK
	09:00-12:00	Group 1		
	13:00-16:00	Group 2		
Sept 10 <i>(Fri)</i>				
	09:00-12:00	New Plant Breeding Technologies (L)	Zoom	LZ

<u>Week 37</u>				
Sept. 13 (<i>Mon</i>)	09:00-12:00	Example of gene cloning: rapeseed (L)	Zoom	SK
Sept 14				
(<i>Tue</i>)	09:00-12:00	cDNA synthesis for qRT-PCR (P)	Kemisal	SK
	09:00-10:30	Group 2		
	10:30-12:00	Group 1		
Sept 15				
(<i>Wed</i>)	10:00-12:00	Question about case studies ² (optional)	Zoom	LZ
Sept 16				
(<i>Thurs</i>)	09:00-13:00	PCR and qRT-PCR (P)	Kemisal	SK
	09:00-11:00	Group 1		
	11:00-13:00	Group 2		
<u>Week 38</u>				
Sept 20 (<i>Mon</i>)	09:00-12:00	Tilling of <i>Brassica rapa</i> (L)	Zoom	RG
Sept 21				
(<i>Tue</i>)	09:00-10:30	qRT-PCR result (P)	Kemisal (or H?)	SK
		Group 1 + 2		
	10:30-12:00	Change medium Lab 1 and 2 (P)		Wes
Sept 23				
(<i>Thurs</i>)	09:00-12:00	Bioinformatics (L)	Zoom	PH
Sept 24				
(<i>Fri</i>)	09:15-10:15	Study visit – Oatly (L) ³	Zoom	KP
	10:30-12:00	Science & politics (L)	Zoom	DE
<u>Week 39</u>				
Sept 27 (<i>Mon</i>)	08:30-17:00	Start Lab3 –rooting of stem disk and change medium after 3 hours ¹ (P)	S	Wes
	08:30-12:30	Group 1 (must start earlier than 9 in order to have enough time for the lab)		
	13:30-17:00	Group 2		
Sept 28				
(<i>Tue</i>)	10:00-12:00	Study visit (Intertek Scanbi Diagnostics) ³	Zoom	PVR
Sept 29				
(<i>Wed</i>)	09.15-11.00	Proteomics (L)	Zoom	EA

Sept 30 <i>(Thurs)</i>	09:00-12:00 09:00-10:30 10:30-12:00	Change medium for Lab 3 (after 3 days) (P) Group 2 Group 1	S	Wes
<u>Week 40</u>				
Oct 1 <i>(Fri)</i>	09:00-11:00	Development and EU approval of a GM potato (L)	Zoom	PH
Oct 7 <i>(Thurs)</i>	09:00-10:30 10:45-12:00	Global gene expression analysis in plants (L) Update about how EU will regulate precision breeding (L)	Zoom Zoom	EAL DE
<u>Week 41</u>				
Oct 12 <i>(Tue)</i>	10:00-12:00	Questions about the case study (optional) ²	Zoom	LZ
<u>Week 42</u>				
Oct 18 <i>(Mon)</i>	09:00-17:00	Presentation of literature study (L)	Zoom	LZ
Oct 19 <i>(Tue)</i>		Deadline for handing in preliminary report on case study, if you wish having some comments (optional)		
Oct 22 <i>(Fri)</i>	09:00-12:00 09:00-10:30 10:30-12:00	Finishing all labs (P) Group 1 Group 2	Mikroskop	Wes
<u>Week 43</u>				
Oct. 28 <i>(Thurs)</i>	09:15-17:00	Presentations/discussion of labs (L)	Zoom	LZ, Wes
<u>Week 44</u>				
Nov. 1 <i>(Mon)</i>	09:15-17:00	Presentation of case studies (L) Deadline for handing in final report on case study	Zoom	LZ

Abbreviations and locations:

L=lecture
P=practice

Kemisal in Articum

Mikroskop in Articum

H: H-house (Horticum), please looking for Selva for the location

S: Sterile lab in Articum, beside the Kemisal.

¹Medium will be prepared by teacher, mainly due to covid-19.

²If you have any questions, you can bring them up in this occasion. It is also ok to send your questions to the course leader or course teachers by email.

³ We will see if it is possible to visit the companies physically depending on the covid-19 situation by the time being. More info will come after summer. Otherwise, the company's representative will give a lecture in Zoom.

*Be aware that the literature study and case study are not the same thing.

**The time you will spend on literature study and case study is not shown in the schedule and you will need to arrange the time yourself.

Teachers

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