

Schedule: Introduction to Plant Biology for Sustainable Production (BI1294)

Week 36	Introduction/how do we study plants-transcription	Locale	Teacher	Category	Comment
<b>Monday 31/8</b>	~09.00-12.00	Campus specific introductions			
	13.00-15.00	Welcome Course introduction	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS/IL/VH	
<b>Tuesday 1/9</b>	10.30-12.30	How do we study plants*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	SJ	Lecture
	13.00-15.00	Guided tour on UPSC, Linnean Centre and Plant Link.		JS, ON, IL	Seminar
<b>Wednesday 2/9</b>	10.30-12.30	Plant cell architecture*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	LK	Lecture
<b>Thursday 3/9</b>	10.30-12.30	DNA-RNA-protein Regulation of the Central dogma	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Lecture
<b>Friday 4/9</b>	08.00-10.00	How to write about Biology	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Seminar
	10.30-12.30	Transcriptional regulation	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Lecture
	12.30-13.00	Writing exercise A.	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Seminar
<b>Week 37</b>	<b>How do we study plants-proteins and models</b>				
<b>Monday 7/9</b>	10.30-12.30	How do we study RNA levels	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Lecture
<b>Tuesday 8/9</b>	10.30 -12.30	Protein synthesis and regulation	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Lecture
<b>Wednesday 9/9</b>	10.30 -12.30	How do we study protein levels/ Exchange of texts, Student Self correction	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Seminar
<b>Thursday 10/9</b>	10.30-12.30	Mutants transgenes Crispr*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JH	Lecture
<b>Friday 11/9</b>	08.00-10.00	Plant anatomy	Plantan + Andra salar med video I Uppsala och Umeå	JS	Lecture
	10.30-12.30	Model systems*	Plantan + Andra salar med video I Uppsala och Umeå	JH	Lecture
<b>Week 38</b>	<b>Hormones and signalling</b>				
<b>Monday 14/9</b>	08.00 - 10.00	Follow up on Writing exercise A/Introduction to Journal Club1 & Writing exercise B.	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Seminar
	10.30-12.30	Protein modification and degradation*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JH	Lecture
<b>Tuesday 15/9</b>	08.00-10.00	Introduction to Nitrogen lab /primer design.	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS/POL	Seminar
	10.30-12.30	Introduction to signalling*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JH	Lecture
<b>Wednesday 16/9</b>	10.30 - 12.30	Hormones 1.*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JH	Lecture
	13.00 - 15.00	LAB: Planting of seeds	Planting area at BioC	AK/MLL	Practical
<b>Thursday 17/9</b>	10.30 - 12.30	Hormones 2.*	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan		Lecture
<b>Friday 18/9</b>	10.30 - 12.30	Genomes and signalling*	Plantan + Andra salar med video I Uppsala och Umeå	ÅS	Lecture
	13.00 - 15.00	Journal Club1, Student Self correction of writing exercise B	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Seminar
<b>Week 39</b>	<b>Written assignment &amp; lab manual</b>				
<b>Monday 21/9</b>	10.30 - 12.30	Follow up on Writing exercise B/Introduction to Journal Club 2 (Writing exercise C) How to write a lab report info.	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Seminar
<b>Tuesday 22/9</b>		Self Studies_lab manual			
<b>Wednesday 23/9</b>	10.30 - 12.30	Plant nutrition/nitrogen uptake	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	P_O	Lecture
	pm	Lab manual dead-line			
<b>Thursday 24/9</b>		Self Studies_writing exercise C			

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Friday 25/9	10.30 – 12.30	Journal Club 2/Introduction to written assignment D/topic decision	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS/IL	Seminar	
	pm	Student Self correction of writing exercise C				
<b>Week 40</b>		<b>LAB Week</b>				
Monday 28/9	am	LAB: Nutrient media application Day1	BÖL1	AK/MLL	Practical	
	pm	LAB: revision of lab manual	BÖL1	AK/MLL	Practical	
Tuesday 29/9	am	LAB: Nutrient media application Day2	BÖL1	AK/MLL	Practical	
	pm	LAB	BÖL1	AK/MLL	Practical	
Wednesday 30/9	am	LAB: Nitrate reduction measurements	BÖL1	AK/MLL	Practical	
	pm	LAB	BÖL1	AK/MLL	Practical	
Thursday 1/10	am	LAB: RNA prep and cDNA synth.	BÖL1	AK/MLL	Practical	
	pm	LAB	BÖL1	AK/MLL	Practical	
Friday 2/10	am	LAB: PCR and writing of lab report	BÖL1	AK/MLL	Practical	
	pm	LAB	BÖL1	AK/MLL	Practical	
<b>Week 41</b>		<b>Ethics &amp; Omics</b>				
Monday 5/10	10.30 – 12.30	Ethics	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	NS /Per Sandin	Seminar Lecture	OK
Tuesday 6/10	10.30 – 12.30	Ethics	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	NS	Seminar Lecture	OK
Wednesday 7/10	13.00 – 15.00	Presentations of LAB results	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS/IL/VH	Seminar	
Thursday 8/10	08.00 – 10.00	Introduction Next Generation Sequencing	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	NS	Lecture	OK
Friday 9/10	10.30 – 12.30	RNaseq/ Lab report first version	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	NS		OK
<b>Week 42</b>		<b>Ethics &amp; Omics cont.</b>				
Monday 12/10	10.30 – 12.30	Plant Science and UN Sustainable development goals	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS	Lecture	
Tuesday 13/10	10.30 – 12.30	Plant Genetic Resources and the Nagoya protocol	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS/Dennis Eriksson	Lecture	
Wednesday 14/10	10.30 – 12.30	Metabolomics	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	Thomas Moritz	Lecture	OK
	13.00 – 15.00		Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan			Avbokas?
Thursday 15/10		Self Studies writing of exercise D				
Friday 16/10		Student Self correction of writing exercise D				
<b>Week 43</b>		<b>Evolution</b>				
Monday 19/10	10.30 – 12.30	Introduction to Plant Proteomics	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	SR	Lecture	OK
Tuesday 20/10	10.30 – 12.30	Introduction to evolutionary biology	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	ÅL	Seminar	OK
	Pm	Group work	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan		Practical	OK
Wednesday 21/10	Am	Group work	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan		Practical	OK
	13.00-15.00	Presentation of group projects	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	ÅL	Seminar	OK
Thursday 22/10		Self Studies				
Friday 23/10		Dead-line written assignment D				
<b>Week 44</b>		<b>Presentations &amp; Exam</b>				
Monday 26/10		Self Studies				
Tuesday 27/10	08.00-16.00	Presentation of written assignment	Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan	JS/IL/VH		
Wednesday 28/10		Self Studies				
Thursday 29/10		Self Studies				
Friday 30/10	09.00 – 13.00	Tentamen				