

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

| Week 35 | Introduction/how do we study plants-transcription | | Locale | Teacher | Category | Comment |
|----------------|---|---|---|---------------|----------|---------|
| Monday 30/8 | 09.00-12.00 | Campus specific introductions and course registration | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | | | |
| | 15.00-16.00 | Welcome course introduction | Zoom | JS/IL/VH | | |
| Tuesday 31/8 | 10.30-12.30 | DNA-RNA-protein and the Central dogma | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | SJ | Lecture | |
| Wednesday 1/9 | 10.30-12.30 | How do we study plants* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | SJ | Lecture | |
| Thursday 2/9 | 10.30-12.30 | Plant cell architecture* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JH | Lecture | |
| Friday 3/9 | 10.30-12.30 | Transcriptional regulation | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Lecture | |
| | 13.30-15.30 | How to write about Biology/Writing exercise A. | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Lecture | |
| Week 36 | How do we study plants-proteins and models | | | | | |
| Monday 6/9 | 10.30-12.30 | How do we study RNA levels | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Lecture | |
| Tuesday 7/9 | 10.30-12.30 | Protein synthesis and regulation* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JH | Lecture | |
| | 13.30-15.30 | How do we study protein levels* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JH | Lecture | |
| Wednesday 8/9 | 10.30-12.30 | Plant anatomy/ Exchange of texts, Student Self correction | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Lecture | |
| Thursday 9/9 | 10.30-12.30 | Mutants transgenes Crispr* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Lecture | |
| Friday 10/9 | 10.30-12.30 | Model systems* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Lecture | |
| | 13.30-15.30 | Seminar about the UN-SDGs | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Seminar | |
| Week 37 | Hormones and signalling | | | | | |
| Monday 13/9 | 09.00-10.00 | 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 | LB | Lecture | |
| Tuesday 14/9 | 10.30-12.30 | Introduction to signalling* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JH | Lecture | |
| Wednesday 15/9 | 10.30-12.30 | Hormones 1.* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JH | Lecture | |
| Thursday 16/9 | 10.30-12.30 | | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JH | Lecture | |
| Friday 17/9 | 10.30-12.30 | Hormones 2.* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS/IL | Lecture | |
| | 13.30-15.30 | Journal Club 1, Student Self correction of writing exercise B | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | | | |
| Week 38 | Omics | | | | | |
| Monday 20/9 | 09.00-10.00 | Follow up on Writing exercise B/Introduction to Journal Club 2 (Writing exercise C) | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Seminar | |
| Tuesday 21/9 | 10.30-12.30 | Introduction Next Generation Sequencing | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | NS | Lecture | OK |
| Wednesday 22/9 | 10.30-12.30 | RNAseq | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | NS | Lecture | OK |
| | 13.30-15.30 | Introduction to lab practical/primer design | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS/IL | | |
| Thursday 23/9 | 10.30-12.30 | Introduction to Plant Proteomics | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | SR | Lecture | Asked |
| Friday 24/9 | 10.30-12.30 | Metabolomics | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | Hans Stenlund | Lecture | Asked |
| | 13.30-15.30 | Journal Club 2 | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS/IL | | |
| Week 39 | Ethics | | | | | |
| Monday 27/9 | 10.30-12.30 | Genomes and signalling* | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | ÅS | Lecture | OK |
| | 13.30-15.30 | Ethics | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | Per Sandin | Seminar | OK |
| Tuesday 28/9 | 10.30-12.30 | Plant Genetic Resources and the Nagoya protocol | Ultuna: Sal H, Umeå: Rönne, Alnarp: Plantan | JS | Seminar | |

| Week 35 | | Introduction/how do we study plants-transcription | Locale | Teacher | Category | Comment |
|-----------------|---------------|---|--|------------|-----------|---------|
| Wednesday 29/9 | 10.30 – 12.30 | Ethics | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | Per Sandin | Seminar | OK |
| Thursday 30/9 | 10.30 – 12.30 | Scientific communication | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | JS | Lecture | |
| Friday 1/10 | 10.30 – 12.30 | Food evolution | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | JS | Seminar | |
| Week 40 | | Evolution | | | | |
| Monday 4/10 | 10.30 – 12.30 | Introduction to evolutionary biology | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | ÅL | Lecture | Asked |
| | Pm | Group work | | | | |
| Tuesday 5/10 | Am | Group work | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | ÅL | | Asked |
| | 13.30-15.30 | Presentations, evolutionary biology | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | ÅL | Seminar | |
| Wednesday 6/10 | | Lab manual dead-line/Planting of seeds | | | | |
| Thursday 7/10 | | Self Studies | | | | |
| Friday 8/10 | | Self Studies | | | | |
| Week 41 | | Exam week | | | | |
| Monday 11/10 | 10.30 – 12.30 | Introduction to home-exam | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | JS/IL/VH | Lecture | |
| Tuesday 12/10 | | Oral exams | Zoom | | | |
| Wednesday 13/10 | | Oral exams | Zoom | JS/IL | | |
| Thursday 14/10 | 13.00-16.00 | Oral exams | Zoom | JS/IL | Seminar | |
| Friday 15/10 | | Dead-line home-exam | | | | |
| Week 42 | | LAB Week | | | | |
| Monday 18/10 | am | LAB: Nutrient media application Day1 | BÖL1 | AK/MLL | Practical | |
| | pm | LAB: revision of lab manual | BÖL1 | AK/MLL | Practical | |
| Tuesday 19/10 | am | LAB: Nutrient media application Day2 | BÖL1 | AK/MLL | Practical | |
| | pm | LAB | BÖL1 | AK/MLL | Practical | |
| Wednesday 20/10 | am | LAB: Nitrate reduction measurements | BÖL1 | AK/MLL | Practical | |
| | pm | LAB | BÖL1 | AK/MLL | Practical | |
| Thursday 21/10 | am | LAB: RNA prep and cDNA synth. | BÖL1 | AK/MLL | Practical | |
| | pm | LAB | BÖL1 | AK/MLL | Practical | |
| Friday 22/10 | am | LAB: PCR and writing of lab report | BÖL1 | AK/MLL | Practical | |
| | pm | LAB | BÖL1 | AK/MLL | Practical | |
| Week 43 | | Presentation week | | | | |
| Monday 25/10 | | Dead-line lab reports | | | | |
| Tuesday 26/10 | 08.00-16.00 | Presentations of written Lab-results | | | | |
| Wednesday 27/10 | 08.00-16.00 | Presentations of home-exam | Ultuna: Sal H, Umeå: Rönner, Alnarp: Plantan | JS/IL | | |
| Thursday 28/10 | | Self Studies | | | | |
| Friday 29/10 | 08.00-16.00 | Presentations of home-exam | Alnarp: Articum1 Ultuna:Tentamenssal2 | | | |