

Genetics II	
Course code:	5MO099
Time:	2021-12-03 – 2022-01-14
Lecture halls:	We aim to have lectures and sessions on campus, in a lecture hall (mainly in A103), but it will depend on updated recommendations. Sessions during the period December 19 th to January 7 th will be on Zoom and/or Canvas.
Course requirements:	<ol style="list-style-type: none"> All lab work and student presentations are mandatory. Attendance to lectures, discussions and the calculation workshops are strongly recommended. In case of absence due to sickness, inform JL without delay. Information will be in lectures, in the discussion sessions and the course book (information at start of course).
Literature, Course book:	Hartwell <i>et al.</i> : GENETICS, from genes to genomes. 7 th edition or 6 th edition.
Examination:	Written exam 2022-01-14, Written re-exam 2022-02-26 (<i>preliminary</i>)
Course leader:	Jan Larsson (JL) jan.larsson@molbiol.umu.se
Course administrator:	Ingela Nilsson studieadm.molbiol@umu.se
Teachers on labs and calculation workshops:	To be decided
Lecturers	Lectures and tutoring: Jan Larsson (JL), Molecular Biology Lectures and tutoring: Yuri Schwartz (YS), Molecular Biology Lectures: Mattias Alenius (MA), Molecular Biology Tutoring: Johan Henriksson (JH), Molecular Biology
Important Notes	Stay updated on what adaptations have been necessary due to COVID-19 at UmU: https://www.umu.se/en/student/changes-due-to-covid-19/ <ul style="list-style-type: none"> We recommend you to get vaccinated. You find information below, after the schedule. Stay at home if you have any symptoms (even mild). If you have taken a COVID-19 test and received a positive test result, you are recommended to inform your course coordinator or other teacher. We all must ensure and respect social distance in lecture halls, labs and other premises. Wash your hands. Together we will do our best to ensure our safety.



Fri 3/12	09.00 – 10.00	Welcome, Roll call + Course Introduction (JL)	A103
	10.00 – 12.00	Repetition (JL)	
	13.30 – 15.30	Chromatin and chromatin techniques (JL)	
Mon 6/12	09.00 – 12.00	Quiz and problem solving I (? , JL)	A103
	12.00 – 14.00	<i>Work with the Chromatin lecture</i>	
	14.00 – 15.00	Discussion of questions - Chromatin lecture, (JL)	
Tue 7/12	09.00 – 11.00	Genomics (YS)	A103
	12.00 – 13.00	<i>Work with the Genomics lecture</i>	
	13.00 – 14.00	Discussion of questions (YS)	
Wed 8/12	09.00 - 11.00	Genes and chromosomes in 3D (YS)	A103
	11.00 – 13.00	<i>Work with the Genes and chromosomes in 3D lecture</i>	
	13.00 – 15.00	Discussion of questions (YS)	
	15.00 – 17.00	Introduction to Primary literature project (JL)	
Thu 9/12	09.00 – 11.00	Gene regulation (JL)	A103
	12.00 – 13.00	<i>Work with the Gene regulation lecture</i>	
	13.00 – 14.15	Discussion of questions (JL)	
	14.30 – 16.30	Introduction of labs (?) 1) Population genetics 2) Genomics lab	
Fri 10/12	09.00 – 13.00	Time to try the labs (ensure to list all questions you have for the session later today) 1) Population genetics 2) Genomics lab	Free
	13.00 – 15.00	Problem solving II (?)	A103
	15.00 – 17.00	Labs: Questions / Discussion (?)	



Mon 13/12	09.00 – 11.00	Epigenetics (JL)	A103
	12.00 – 13.00	<i>Work with the Epigenetics lecture</i>	
	13.00 – 15.00	Discussion of questions (JL)	
Tue 14/12	09.00 – 11.00	Population genetics and evolution (JL)	A103
	12.00 – 13.00	<i>Work with the Population genetics and evolution lecture</i>	
	13.00 – 15.00	Discussion of questions (JL)	
	15.00 – 17.00	Meeting I: Tutoring - Primary literature project (JH)	
Wed 15/12	09.00 – 11.00	Problem solving III (?)	A103
	13.00 – 16.00	Meeting I: Tutoring - Primary literature project (JL, YS)	
Thu 16/12	09.00 – 11.00	Genome evolution (JL)	A103
	12.00 – 13.00	<i>Work with the Genome evolution lecture</i>	
	13.00 – 15.00	Discussion of questions (JL)	
Fri 17/12	09.00 – 11.00	Forward and reverse genetics (MA)	A103
	11.00 – 13.00	<i>Work with the Forward and reverse genetics lecture</i>	
	13.00 – 16.00	Discussion of questions (MA)	
Mon 20/12	09.00 – 11.00	Lab discussion	A103 stream on Zoom
Tue 21/12		Meeting II: Tutoring - Primary literature project (JL, YS, JH)	Zoom

Enjoy your holidays 😊

20/12 – 23/12 and 4/1 - 7/1		Lab 1 and 2 + work on paper presentation and problems	Canvas
Wed 5/1	10.00 – 12.00	Open Zoom session: Lab help / Q&A / problems (?, JL)	Zoom
Mon 10/1	09.00 – 12.00	Probability and practical statistics (JL)	A103
	13.00 – 17.00	Problem solving IV (?) + study time	
Tue 11/1	08.00 – 18.00	Presentations - Primary literature project (JL) (separate schedule)	A103



Wed 12/1	08.00 – 18.00	Presentations - Primary literature project (JL) (separate schedule)	A103
Thu 13/1	09.00 – 12.00	Problem solving V (?)	A103
	13.00 – 15.00	Old exams – Discuss questions and solutions / Time for questions (JL)	
Fri 14/1	09.00 – 12.00	EXAM	

IMPORTANT: Lab report deadlines

- January 23th: Lab reports – first examination
- February 20th: Lab reports – second examination
- March 20th: Lab reports – third examination

PRELIMINARY



Please note:

Region Västerbotten offers drop-in vaccination against COVID-19 on Campus Umeå. Take your chance to get vaccinated. You find the vaccination centre in the Universum Building – use the entrance from the University Square where the fountain is.

If you study at Umeå University or the Swedish University of Agricultural Sciences, you can get vaccinated against COVID-19 at a temporary drop-in vaccination centre on Campus Umeå. Vaccination against COVID-19 is free of charge.

The vaccination centre on Campus Umeå is found in the Universum Building. Choose the entrance from the University Square where the fountain is. If the queue is long to the drop-in centre, please come back later. Times and days for opening are added continuously.

If you do not have a Swedish personal identity number, you can still use the drop-in vaccination centre and will receive a reserve number from the vaccination centre.

Remember:

You need to show some form of identification to get vaccinated.

If you are taking your second dose of vaccine, you need to take information on the date when you got the first dose as well as which vaccine you received.

Read more at: <https://www.umu.se/en/student/changes-due-to-covid-19/vaccination-on-campus-umea/>

Info from the health care regarding vaccination:
<https://www.1177.se/en/Vasterbotten/other-languages/other-languages/covid-19/vaccin-engelska/>