Genetics II		
Course code:	5MO099	
Time:	2020-12-03 – 2021-01-15	
Lecture halls:	Zoom or A103, Building 6A **(unless otherwise stated)**	
Course requirements:	1. 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. 2. Information will be in lectures, in the discussion sessions and the course book (information at start of course).	
Literature, Course book:	Hartwell *et al.*: GENETICS, from genes to genomes. 6th edition or 5th edition.	
Examination:	Written exam Written re-exam	2021-01-15, **18.00-22.00** Östra Paviljongen 2021-02-27 (*preliminary*)
Course leader:	Jan Larsson (JL)	jan.larsson@molbiol.umu.se
Course administrator:	Ingela Nilsson	ingela.nilsson@umu.se
Teachers on labs and calculation workshops:	Alexander Glotov (AG) Anton Björk (AB)	alexander.glotov@umu.se anton.bjork@umu.se
Lecturers	Lectures and tutoring: Lectures and tutoring: Lectures: Tutoring:	Jan Larsson (JL), Molecular Biology Yuri Schwartz (YS), Molecular Biology Mattias Alenius (MA), Molecular Biology Johan Henriksson (JH), Molecular Biology

Thu 3/12	09.00 – 10.00	**Welcome, Roll call + Course Introduction** (JL)	Zoom or A103
	10.00 – 12.00	**Repetition** (JL)	
	13.30 – 15.30	**Chromatin and chromatin techniques** (JL)	
Fri 4/12	09.00 – 12.00	**Quiz and problem solving I** (AG, AB, JL)	Zoom or A103
	12.00 – 14.00	***Work with the Chromatin lecture***	
	14.00 – 15.00	**Discussion of questions - Chromatin lecture,** (JL)	
Mon 7/12	09.00 – 11.00	**Genomics** (YS)	Zoom or A103
	12.00 – 13.00	***Work with the Genomics lecture***	
	13.00 – 14.00	**Discussion of questions** (YS)	
Tue 8/12	09.00 - 11.00	**Genes and chromosomes in 3D** (YS)	Zoom or A103
	11.00 – 13.00	***Work with the Genes and chromosomes in 3D lecture***	
	13.00 – 15.00	**Discussion of questions** (YS)	
	15.00 – 17.00	**Introduction to primary literature work** (JL)	
Wed 9/12	09.00 – 11.00	**Gene regulation** (JL)	Zoom or A103
	12.00 – 13.00	***Work with the Gene regulation lecture***	
	13.00 – 15.00	**Discussion of questions** (JL)	
Thu 10/12	09.00 – 11.00	**Introduction of labs** (AG, AB) 1) Population genetics 2) Genomics lab	Zoom or A103
	11.00 – 13.00	**Time to try the labs (ensure to list all questions you have for the session after lunch)** 1) Population genetics 2) Genomics lab	
	13.00 – 15.00	**Problem solving II** (AG, AB)	
	15.00 – 17.00	**Labs: Questions / Discussion** (AG, AB)	
Fri 11/12	09.00 – 11.00	**Epigenetics** (JL)	Zoom or A103
	12.00 – 13.00	***Work with the Epigenetics lecture***	
	13.00 – 15.00	**Discussion of questions** (JL)	

Mon 14/12	09.00 – 12.00	**Problem solving III** (AG, AB)	Zoom or A103
	13.00 – 16.00	**Meeting I: Paper tutoring** (JL, YS, JH)	
Tue 15/12	09.00 – 11.00	**Population genetics and evolution** (JL)	Zoom or A103
	12.00 – 13.00	***Work with the Population genetics and evolution lecture***	
	13.00 – 15.00	**Discussion of questions** (JL)	
Wed 16/12	09.00 – 11.00	**Genome evolution** (JL)	Zoom or A103
	12.00 – 13.00	***Work with the Genome evolution lecture***	
	13.00 – 15.00	**Discussion of questions** (JL)	
Thu 17/12	09.00 – 11.00	**Forward and reverse genetics** (MA)	Zoom or A103
	11.00 – 13.00	***Work with the Forward and Reverse genetics lecture***	
	13.00 – 16.00	**Discussion of questions** (MA)	
Fri 18/12	09.00 – 15.00	**Meeting II: Paper tutoring** (JL, YS, JH)	Zoom or A103

Enjoy your holidays ☺

21/12 – 23/12 and 7/1 - 8/1		**Lab 1 and 2 + work on paper presentation and problems**	Cambro
Mon 11/1	09.00 – 11.00	**Probability and practical statistics** (JL)	Zoom or A103
	13.00 – 17.00	**Problem solving IV** (AG, AB)**+ study time**	
Tue 12/1	9.00 – 17.00	**Paper presentation** (JL) **/Lab discussion** (AG, AB) **(separate schedule)**	Zoom or A103
Wed 13/1	09.00 – 14.45	**Paper presentation** (JL) **/Lab discussion** (AG, AB) **(separate schedule)**	Zoom or A103
Thu 14/1	10.00 – 12.00	**Old exams – Discuss questions and solutions / Time for questions** (JL)	Zoom or A103
	13.00 – 16.00	**Problem solving V** (AG, AB)	
Fri 15/1	09.00 – 13.00	**EXAM**	

IMPORTANT: Lab report deadlines

- January 24th: Lab reports – first examination
- February 21th: Lab reports – second examination
- March 21th: Lab reports – third examination