

Schedule of the Course 'Immunology and Genetics at the Organismal and Molecular Levels' 15 HP (BI1280), 2020-09-01 to 2020-10-29

Obligatory sessions (**OBL** and **obl**) are in bold script.

OBL = Obligatorisk aktivitet i klass; **obl** = obligatorisk aktivitet på valfri plats

Date and time	Room	Attendance	Activity	Group	Teacher
Week 36 (course week 1) Tuesday Sep 1 09.15-10.00 10.00-10.15 10.30-12.00 13.15-17.00	Zoom Zoom Zoom Zoom or home	obl obl obl	Course introduction Distribution/selection of projects L1. Immune system 1 Project		ES ES JM
Wednesday Sep 2 10.15-12.00	Zoom		L2. Immune system 2		JM
Thursday Sep 3 10.15-12.00 13.15-15.30	Zoom Zoom	 obl	L3. Generation of antibodies Library introduction		JM AGL
Friday Sep 4 09.00-12.00 13.15-17.00	Zoom or home Zoom	obl	Project L4. Application of antibodies, application of antibodies in food science		AK
Week 37 (course week 2) Monday Sep 7 09.15-10.00 10.00-12.00	Zoom digital	obl obl	Introduction to lab report writing P1. Purification of antibodies		MLA, SM MLA, SM

12.00-17.00	digital	obl	P1. Purification of antibodies		MLA, SM
Tuesday Sep 8 10.15-12.00	Zoom		L5. Food allergies		IW
13.15-17.00	Zoom	obl	Group exercise	Group A	ES
Wednesday Sep 9 10.15-12.00	Zoom		L6. Recent Immunological Techniques; Applications of Immunoassays in Food Analysis		ES
Thursday Sep 10 09.15-12.00	Zoom	obl	Group exercise	Group B	ES
13.15-17.00	digital	OBL	P2. ELISA step 1	All	MLA, DK
Friday Sep 11 09.15-12.00	digital	OBL	P2. ELISA step 2	All	MLA, DK
13.15-15.30	digital	OBL	P2. ELISA step 3	All	MLA, DK
Week 38 (course week 3) Monday Sep 14 09.00-17.00	home	obl	Individual studies – exam preparation		
Tuesday Sep 15 09.00-17.00	home	obl	Individual studies – exam preparation		
Wednesay Sep 16 09.00-12.00	home	obl	Individual studies – exam preparation		

Thursday Sep 17 09.15-13.15	TS1	OBL	Exam on Immunology and immunological techniques	All	MLA, DK, SM
Friday Sep 18 10.15-12.00	Zoom		L7. Mitosis and Meiosis, chap.2		PI
13.15-15.00 15.15-16.00	Zoom Zoom	obl	L8. Mendelian Genetics, chap. 3 Case study, chap. 3	All	PI PI
Week 39 (course week 4) Monday Sep 21 09.45-12.00	Zoom		L9. DNA structure and analysis, chap. 9 L10. DNA Sequence Organization, chap.11		ES ES
13.00-17.00	Zoom or home	obl	Writing lab reports		
Tuesday Sep 22 09.00-12.00	Zoom or home	obl	Project		
13.15-14.15	Zoom		L11. Sex chromosomes, chap. 5		GMA
Wednesday Sep 23 10.15-12.00	Zoom		L12. Modifications of Mendelian Ratios, chap.4		PI
Thursday Sep 24 09.15-12.15	Zoom	obl	Cross-group discussions	All	ES
13.00-17.00	Zoom or home	obl	Project		

Friday Sep 25 10.15-12.00	Zoom		L13. DNA replication, chap.10	JS
13.15-15.00	Zooml		L14. Gene Mutation, Transposition, and DNA Repair, chap.14	CD
Week 40 (course week 5) Monday Sep 28 09.15-11.30	digital	obl	P3. Mutation lab (step 1)	AM, RPA, SM
13.00-17.00	Zoom or home	obl	Project	
Tuesday Sep 29 09.15-12.00	digital	obl	P3. Mutation lab (step 2)	AM, RPA, SM
13.15-17.00	digital	obl	P3. Mutation lab (step 2 continue)	AM, RPA, SM
Wednesday Sep 30 09.15-12.15	digital	obl	P3. Mutation lab (step 3)	AM, RPA, SM
Thursday Oct 1 09.15-12.15	digital	obl	P3. Mutation lab (step 4)	AM, RPA, SM
13.00-17.00	Zoom or home	obl	Project	
Friday Oct 2 09.15-11.30	Zoom		L15. Transcription, chap. 12 L16. Translation, chap.13	ES
13.00-17.00	home	obl	Writing lab reports	

Week 41 (course week 6) Monday Oct 5 10.15-12.00 13.15-17.00	Zoom digital	OBL	L17. Regulation of gene expression, chap. 15 P4. RT-PCR lab (step 1)	All	ES AM, RPA, DK
Tuesday Oct 6 09.15-12.00 13.15-17.00	Zoom or home digital	obl OBL	Project P4. RT-PCR lab (step 2)	All	AM, RPA, DK
Wednesday Oct 7 09.15-12.15	digital	OBL	P4. RT-PCR lab (step 3)	All	AM, RPA, DK
Thursday Oct 8 09.15-12.15 13.15-17.00	digital Zoom or home	OBL obl	P4. RT-PCR lab (step 4 and 5) Project	All	AM, RPA, DK
Friday Oct 9 09.00-17.00	Zoom or home	obl	Project		
Week 42 (course week 7) Monday Oct 12 09.15-11.00 11.15-12.15 13.00	Zoom Zoom	obl obl	L18. Quantitative Genetics, chap.21 (old book chap.22) Case study, chap.21 (old book chap.22)	All	PI PI

13.15-17.00	home	obl	Deadline to submit your project to the supervisor and the reviewing group Writing lab reports		
Tuesday Oct 13 09.15-12.00	home	obl	Writing lab reports		ES
13.15-16.15	Zoom	obl	Cross-group discussions		
Wednesday Oct 14 09.15-12.15	home	obl	Writing lab reports		
Thursday Oct 15 09.00-17.00	Zoom or home	obl	Preparations for project presentation		
Friday Oct 16 09.00-17.00	Zoom or home	obl	Preparations for project presentation		
Week 43 (course week 8) Monday Oct 19 09.10-12.00	Zoom or home	obl	Project		ES
13.15-17.00	Zoom	obl	Presentation of the project		
Tuesday Oct 20 09.15-12.00	Zoom	obl	Presentation of the project		ES
13.15-15.30		obl	Writing lab reports		

	Zoom or home				
Wednesday Oct 21 09.00-10.30 10.45-12.15	Zoom Zoom		L19. Plant breeding for improved food: quantitative aspects L20. Plant breeding for improved food: qualitative aspects		PI RA
Thursday Oct 22 09.15-12.15 16.00	Zoom	obl obl	Cross-group discussions Deadline to submit final version of lab reports (labs P3 and P4)	All	ES
Friday Oct 23 09.00 -17.00	home	obl	Individual studies – exam preparation		
Week 44 (course week 9) Monday Oct 26 09.00-17.00	home	obl	Individual studies – exam preparation		
Tuesday Oct 27 10.15-12.00 13.00-17.00	Zoom home	obl	Student questions Individual studies – exam preparation		All teachers
Wednesday Oct 28 09.00 -12.00	home	obl	Individual studies – exam preparation		
Thursday Oct 29					

09.15-13.15	TS1	OBL	Exam in genetics	All	AM, RPA, DK
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Course textbooks:

1). Understanding Immunology, 3rd edition (2011), Peter Wood Pearson Education Ltd. ISBN-10: 0273730681; ISBN-13: 9780273730682

<http://www.bokus.com/bok/9780273730682/understanding-immunology/>

<http://www.adlibris.com/se/bok/understanding-immunology-9780273730682>

2). Klug, W.S., Cummings, M.R., Spencer, C.A. and Palladino, M.A. Essentials of Genetics, Ninth Edition (2016) Pearson Education Ltd. ISBN 9781292108865 or earlier editions

<http://www.adlibris.com/se/bok/essentials-of-genetics-9781292108865>

<http://www.bokus.com/bok/9781292108865/essentials-of-genetics-global-edition/>

Examination

To pass the course you have to complete lab reports, project presentation and pass the exams.

Course administrator

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Number of students registered this year: 21 (estimated)