Experimental Methods in Chemistry Course 2025 (5 hp)

Re-exam: 2025-12-18

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v 41	8/10	10:00: Introduction (MN) - Reading a scientific paper (MN)	Reading
	9/10	10:00 Spatial omics (MN)	Reading
	10/10	Reading	Reading
v 42	13/10	Lecture on NGS (MF)	Tutorial on Bash scripting
	14/10	Lecture on yeast screening and ERG pathways (Stefan Åström)	Tutorial on DNA-seq yeast variant calling
	15/10	Bioinformatics (MF)	Tutorial on DNA-seq yeast variant calling
	16/10	Study time	Tutorial on DNA-seq yeast variant calling
	17/10	Study time	Tutorial on DNA-seq yeast variant calling (including plenary discussion about results)
v 43	20/10	Structural biochemistry (RH)	Structural biochemistry (JC)
	21/10	Structural biochem data lab (grp A)	Literature seminar
	22/10	Structural biochem data lab (grp A)	Study time
	2310	Cryo_EM lecture and demo (MC) (SciLifeLab)	Site visit Cryo-EM SciLifeLab (MC)
	24/10	Structural biochem data lab (grp B)	Structural biochem data lab (grp B)
v 44	27/10	Study time	Study time
	28/10	Study time	Study time
	29/10	Study time	Study time
	30/10	9:00-13:00 Examination:	

Course coordinator
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Lecturers
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Rebecca Howard (RH), rebecca.howard@scilifelab.se
John Cowgill (JC), john.cowgill@scilifelab.se

Structural biochem data lab
Sofia Appelgren, sofia.appelgren@dbb.su.se
Ana Paula Lobez Rodriguez, ana.paula.lobez@dbb.su.se

Literature seminar:
Sofia Appelgren, sofia.appelgren@dbb.su.se (paper 1)
Rickard Hedman, rickard.hedman@dbb.su.se (paper 4)
Agustín Robles, agustin.robles@scilifelab.se (paper 3)

Literature: Issued material, as well as lecture notes

Examination and grading criteria:
The course includes hand-in assignments and laboratory reports that are to be submitted in a given deadline. The final grade on the course will be the average grade of the given tasks.

Participation in all practical exercises/seminars / laboratory exercises is compulsory. Attendance will be registered.

Attendance of the lectures is a requirement for good understanding of the course material and laboratory exercises. The presence in the lectures is taken into account together with the rest assignments at the end of the course.