Experimental Cell Biology

Title Semester Master programme ir	Experimental Cell Biology F2024 Molekylær biologi / Chemical Biology / Molecular Health Science
Type of activity	Laboratory Course
Teaching language	English
Study regulation	Read about the Master Programme and find the Study Regulations at <u>ruc.dk</u>
	Læs mere om uddannelsen og find din studieordning på ruc.dk

REGISTRATION AND STUDY ADMINISTRATIVE

Sign up for study activities at stads selvbetjening within the announced
registration period, as you can see on the Studyadministration homepage.

When signing up for study activities, please be aware of potential conflicts between study activities or exam dates.

Registration

The planning of activities at Roskilde University is based on the recommended study programs which do not overlap. However, if you choose optional courses and/or study plans that goes beyond the recommended study programs, an overlap of lectures or exam dates may occur depending on which courses you choose.

There is a maximun of 16 studens at this course.

Selection criteria:

Number of participants a) Students at Molecular Health Science will be given first priority.

b) If there are more students who wish to take this course, than there are places for, students who have passed the highest ECTS-points will be given priority.

c) Ultimately the spots for this course will be distributed by lottery/ drawing lots.

The Master Programme/Institute reserves the right to cancel the course if fewer than 8 studentes are registered for the course.

ECTS 5 Responsible for the Ole Vang (ov@ruc.dk) activity Head of study Lotte Jelsbak (ljelsbak@ruc.dk) Teachers Study administration Exam code(s) U60185 ACADEMIC CONTENT

Overall objective The purpose of the course is to teach and train the students experimental approaches within cell biology that gives students insight into the use of various cellular models and methods.

The course will give the students hands on and knowledge in selected techniques in Experimental Cell Biology:

Growing and handling mamallian cells
Detailed
description of content
Evaluate growth (by counting, staining, flow cytometry and microscopy)

- Study cellelular responces by transfection
- Visualization of cellular components (microscopy)

Course

material and Lecture notes will be posted at moodle.ruc.dk. Reading list

Overall plan The course contain and expected work effort • Lectures: 4 hours

- Student presentations: 3 hours
- Lab work: 72 hours
- Preparation: 56 hours

- In total 135 hours

Format

The course includes formative evaluation based on dialogue between the students and the teacher(s).

Students are expected to provide constructive critique, feedback and
viewpoints during the course if it is needed for the course to have better
quality. Every other year at the end of the course, there will also be an
evaluation through a questionnaire in SurveyXact. The Study Board will
handle all evaluations along with any comments from the course
responsible teacher.

Furthermore, students can, in accordance with RUCs 'feel free to state your views' strategy through their representatives at the study board, send evaluations, comments or insights form the course to the study board during or after the course.

Programme The sepcific course schedule will be posted at moodle.ruc.dk.

• grow various cell types in vitro

ASSESSMENT

After completing the course, the students will be able to:

Overall	• select and describe relevant cell biology methods for testing a
learning	given problem
outcomes	
	 independently plan and complete experimental work based on

- standard protocols
- use good practices related to keeping laboratory journals

	• select, discuss, and use digital programs to analyse the data that has been acquired		
	 plan, complete and analyse assigned experiments using cell biological methods 		
	 analyse complex data structures with relevant mathematical and statistical models/programs. 		
	The course is passed through active, regular attendance and satisfactory participation.		
	Active participation is defined as: The student must participate in course related activities (e.g. workshops, seminars, field excursions, process study groups, working conferences, supervision groups, feedback sessions).		
Form of examination	Regular attendance is defined as: - The student must be present for minimum 80 percent of the experimental/practical parts of the course with the developed analysis and interpretation of data in reports		
	Satisfactory participation is defined as: - e.g. oral presentations (individually or in a group), peer reviews, mini projects, test, planning of a course session .		
	Assessment: Pass/Fail.		
Form of Re- examination Type of examination in special cases	Samme som ordinær eksamen / same form as ordinary exam		
Examination and assessment	The course is passed through active, regular attendance and satisfactory participation.		
	Active participation is defined as real participation in the lab-work, lectures, the student presentations and discussion.		
criteria	Regular attendance is defined as 80 percent of the parts of the lab work, analysis and interpretation of data in reports.		

Following satisfactory participation in the course, the students may

- Select and describe relevant cell biology methods for testing a given problem
- Plan and complete experimental work based on standard protocols
- Perform good practices in keeping laboratory journals
- Select, discuss, and use digital programs to analyse the data that has been acquired
- Analyse complex data structures with relevant mathematical and statistical models/programs

Exam code(s) Exam code(s) : U60185

Course days:

Hold: 1

Experimental Cell Biology (MHS)

time	07-06-2024 13:00 til	
tille	07-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

time	10-06-2024 08:30 til 10-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	11-06-2024 08:30 til 11-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	12-06-2024 08:30 til 12-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	13-06-2024 08:30 til	
	13-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	14-06-2024 08:30 til 14-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

time	17-06-2024 08:30 til 17-06-2024 17:00
forberedelsesnorm	ikke valgt

forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	18-06-2024 08:30 til	
	18-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	19-06-2024 08:30 til	
	19-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

Experimental Cell Biology (MHS)

time	20-06-2024 08:30 til	
	20-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

time	21-06-2024 08:30 til
	21-06-2024 17:00
forberedelsesnorm	ikke valgt
forberedelsesnorm D-	VIP ikke valgt
location	28a.2-11 - mødelokale a2 (16)
Teacher	Ole Vang (ov@ruc.dk)

Experimental Cell Biology (MHS)

time	24-06-2024 08:30 til	
	24-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	

time	25-06-2024 08:30 til 25-06-2024 17:00	
forberedelsesnorm	ikke valgt	
forberedelsesnorm D-VIP ikke valgt		
location	28a.2-11 - mødelokale a2 (16)	
Teacher	Ole Vang (ov@ruc.dk)	