

Course name and code BIOR21, 21 Jan. - 22 March, 2019

Dept. of Biology, <http://www.biology.lu.se/education>

Short information about this course

Course leader, incl contact details: Stina Oredsson, stina.oredsson@biol.lu.se, mobile: 0703771393

Other Teachers: Sofia Kamlund, sofia.kamlund@biol.lu.se: Atena Malakpour, atena.malakpour@biol.lu.se: Wendy Soria, wendy.soria_sotillo@biol.lu.se: John Stegmayr, john.stegmayr@med.lu.se: Anna Forsby, annaf@neurochem.su.se: Fredrik Johansson, per_fredrik.johansson@biol.lu.se: Leif Bjellin, leif.bjellin@biol.lu.se: Kathrin Zeller, kathrin.zeller@immun.lth.se

Location: see web schedule at L@L

Teaching activities: L (lecture), Sem (seminar), G (group exercise), Lab, Proj (Project)

Compulsory activities on this course are marked with "C". If you are absent from a compulsory activity without a valid reason you are not guaranteed to complete this part until the next time the course is offered. A valid reason can be e.g. that you are ill, but not that you are on a trip!

Literature: Literature: Mechanistic Toxicology. The molecular basis of how chemicals disrupt biological targets. Urs A. Boelsterli. Taylor & Francis. DO NOT PURCHASE. PDF (2003) on line is sufficient for the course.

Before the start of the course you must read the documents "General information" and Plagiarism and cheating

[General information](#)

[Plagiarism and cheating](#)

Additional information for students can be found at

[Current student at LU](#)

[Current student at Dept. of Biol.](#)

[Students rights and guidelines](#)

[Learning platform: L@L](#)

Date	Time	Activity	Compulsory	Description	Teacher
Mo. 21 Jan.	9.00-10.00		C	Introduction, Compulsory!	
	10.15-12.00	Lecture	C	Cell culture as a technique	Stina Oredsson
	13.00-17.00	Practical	C	Sterile technique. Group A	Wendy Soria, Atena Malakpour
Tu. 22 Jan.	10.00-12.00	Lecture	C	Fundamental and cell toxicology I	Stina Oredsson
	13.00-17.00	Practical	C	Sterile technique. Group B	Atena Malakpour, Wendy Soria
We. 23 Jan.	10.00-12.00	Lecture	C	Fundamental and cell toxicology II	Stina Oredsson
	13.00-17.00	Practical	C	Sterile technique. Group C	Wendy Soria, Sofia Kamlund
Th. 24 Jan.	08.30-12.30	Practical	C	Sterile technique. Group D	Atena Malakpour, Sofia Kamlund
	13.00-14.30			Information om utbytesstudier (in Swedish)	Tina Ledje
Fr. 25 Jan.	10.00-12.00	Lecture	C	Risk analysis	Stina Oredsson
Mo. 28 Jan.	09.00-12.00	Practical	C	Group 1 Growth curve	
	13.00-16.00	Practical	C	Group 2 Growth curve	Wendy Soria
Tu. 29 Jan.	09.00-12.00	Practical	C	Group 1 Growth curve	Sofia Kamlund
	13.00-16.00	Practical	C	Group 2 Growth curve	Atena Malakpour
We. 30 Jan.	09.00-12.00	Practical	C	Group 1 Growth curve	Sofia Kamlund
	10.00-12.00	Excel		Practice if you feel insecure with excel	Stina Oredsson
	13.00-16.00	Practical	C	Group 2 Growth curve	Atena Malakpour
	13.00-15.00	Excel		Practice if you feel insecure with excel	Stina Oredsson
Th. 31 Jan.	08.00-10.00	Practical	C	Group 1 Growth curve	Wendy Soria

	10.00-12.00	Practical	C	Group 2 Growth curve	Atena Malakpour
Fr. 1 Feb.	10.00-12.00	Practical	C	Group 1 Growth curve	Wendy Soria
	10.00-12.00	BGM	C	Group 2 Base group meeting 1	Stina Oredsson
	13.00-15.00	Practical	C	Group 2 Growth curve	Atena Malakpour
	13.00-15.00	BGM	C	Group 1 Base group meeting 1	Stina Oredsson
Mo. 4 Feb.	09.00-12.00	Practical	C	Group 2 Cytotoxicity	??
	13.00-16.00	Practical	C	Group 1 Cytotoxicity	Atena Malakpour
Tu. 5 Feb..	09.00-12.00	Practical	C	Group 2 Cytotoxicity	Xiaoli Huang
	13.00-16.00	Practical	C	Group 1 Cytotoxicity	Atena Malakpour
We. 6 Feb..				Selfstudies	
Th. 7 Feb.	09.30-12.00	Lecture	C	Neurotoxicity	Anna Forsby
Th. 7 Feb.	09.30-12.00	Lecture	C	Neurotoxicity	Anna Forsby
	13.00-15.00		Comp.	Information about Master's degree projects, compulsory for Master's students in Molecular Biology	Klas Flårdh
Fr. 8 Feb.	09.00-12.00	Practical	C	Group 1 DNA synthesis tox	Atena Malakpour
	10.00-12.00	BGM	C	Group 1 Base group meeting 2	??
	13.00-15.00	Practical	C	Group 2 DNA synthesis tox	??
	13.00-15.00	BGM	C	Group 2 Base group meeting 2	??
				Hand in report: Growth curve	
Mo. 11 Feb.	10.00-12.00	Practical	C	Group 1 DNA synthesis tox	Atena Malakpour
	13.00-15.00	Practical	C	Group 2 DNA synthesis tox	??
Tu. 12 Feb.	10.00-12.00	Lecture	C	Nanotoxicology	Fredrik Johansson
	13.00-15.00	Lecture	C	Pesticides	Stina Oredsson
We. 13 Feb.	09.00-12.00	Practical	C	Group 1 DNA synthesis tox	Atena Malakpour
	10.00-12.00	BGM	C	Group 1 Base group meeting 3	Stina Oredsson
	13.00-15.00	Practical	C	Group 2 DNA synthesis tox	Sofia Kamlund
	13.00-15.00	BGM	C	Group 2 Base group meeting 3	Stina Oredsson
Th. 14 Feb.				Self studies	
Fr. 15 Feb.				Self studies	
				Hand in report: Cytotoxicity	
Mo. 18 Feb.					
Tu. 19 Feb.	10.00-12.00	Practical	C	Group 1 Neurotox	??
	13.00-15.00	Practical	C	Group 2 Neurotox	??
We. 20 Feb.	10.00-12.00	Lecture	C	Toxicokinetics	Leif Bjellin
	16.00-17.30			Biologer i utbildning och arbetsliv. Information om akademiska karriärvägar och masterprogram (in Swedish)	Jep Agrell Fredrik Johansson
Th. 21 Feb.	10-12.00	Lecture	C	In Vivo toxicology	Leif Bjellin
Fr. 22 Feb.	10.00-12.00	Practical	C	Group 1 Neurotox	??
	10.00-12.00	BGM	C	Group 2 Base group meeting 4	??
	13.00-17.00	Practical	C	Group 2 Neurotox	??
	13.15-15.15	BGM	C	Group 1 Base group meeting 4	??
				Hand in report: DNA synthesis toxicity	
Mo. 25 Feb.	09.00-12.00	Practical	C	Group 1 Neurotox and Cell death	??, ??
	13.00-16.00	Practical	C	Group 2 Neurotox and Cell death	??, ??
Tu. 26 Feb.	11.00-12.00	Practical	C	Group 1 Cell death	??
	13.00-14.00	Practical	C	Group 2 Cell death	??
We. 27 Feb.	09.30-12.00	Lecture	C	Immune toxicology	Kathrin Zeller
Th. 28 Feb.				Self studies	
	13.00-18.00			Re-exam, courses autumn period 2	
Fr. 1 Mar.	10.00-12.00	Practical	C	Group 1 Cell death	??
	10.00-12.00	BGM	C	Group 2 Base group meeting 5	Stina Oredsson

	13.00-15.00	Practical	C	Group 2 Cell death	??
	13.00-15.00	BGM	C	Group 1 Base group meeting 5	Stina Oredsson
Mo. 4 Mar.				Self studies	
Tu. 5 Mar.				Self studies	
We. 6 Mar.				Hand in report: Neurotoxicity	
Th. 7 Mar.				Hand in report: Cell death	
Fr. 8 Mar.	10.00-12.00	BGM	C	Group 1 Base group meeting 6	Stina Oredsson
	13.00-15.00	BGM	C	Group 2 Base group meeting 6	Stina Oredsson
Mo. 11 Mar.	08.00-16.00	Practical	C	Group 2 Comet assay	??,??
	10.00-18.00	Practical	C	Group 1 Comet assay	??,??
Tu. 12 Mar.				Self studies	
We. 13 Mar.	10.00-12.00	Lecture		Mechanistic toxicol.: Growth curve, Cytotox, DNA synt	Stina Oredsson
Th. 14 Mar.				Hand in report: SCGE	
Fr. 15 Mar.				Submission lab reviews latest 12.00	
				Self studies	
Mo. 18 Mar.				Self studies	
Tu. 19 Mar.	09.00-14.00	Present	C	Presentation of Lab reviews	Stina Oredsson
We. 20 Mar.				Self studies	
Th. 21 Mar.				Self studies	
Fr. 22 Mar.	09.00 -14.00			Written examination	