



Neurobiology BIOR58, 28 Aug. - 27 Oct., 2017

Department of Biology, Lund University

Neurobiology is an internationally important research area where biological basic research and medical research align. We teach an introductory course that will allow you to continue to more specialized courses in neuroscience, to a degree project including own research or to a position in a biomedical company. At the same time, if you do not want to specialize in this field, the course gives you a broad overview that is very useful in many respects, whether you want to study animal behaviour, ecology, become a science journalist or a teacher.

Course leader, incl contact details: Eric Warrant (EW) (eric.warrant@biol.lu.se)

Other Teachers: Emily Baird (EB), Adrian Bell (AB), Eva Ekblad (EE), Per Ekström (PE), Stanley Heinze (SH), Pierre Tichit (PT), Sandra Chaib (SC), Lana Khaldy (LK), David Dreyer (DD), James Foster (JF), Almut Kelber (AK), Andrea Adden (AA), Dan-Eric Nilsson

Location: Biology Building (Building D), Sölvegatan 35 Lund

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

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 is e.g. that you are ill, but not that you are travelling!

Literature:

[Before the introduction meeting you should read the documents "House information and Safety Regulations" and "Plagiarism and Cheating policy"](#)

[You can also read about Student rights and guidelines](#)

[Learning platform Live@Lund](#)

Date	Time	Activity	Compulsory (mark w. C!)	Description	Teacher	Location
Mo. 28 Aug.	9.00-10.30	L	C	Introduction, Compulsory, Roll call, division into lab groups, tutorial groups, taking photos of all students	EW and others	D215
	10.30-11.30	L		LECTURE 1: "From genes to robots" – Introduction	EW	
Tu. 29 Aug.	9.00-10.00	L		LECTURE 2: The cellular components of the nervous system	AH	
	10.20-11.20	L		LECTURE 3: The resting potential [Ch 7]	EW	
	11.30-12.30	L	C	Essay and Tutorial Introduction	SH	
We. 30 Aug.	9.00-10.00	L		LECTURE 4: Graded potentials and action potentials	EW	
	10.20-11.20	L		LECTURE 5: Synapses [Ch 8]	SH	
	13.00-13.50		C	General information, compulsory for all new students:		Hörsalen, Biology building
Th. 31 Aug.	9.00-10.00	L		LECTURE 6: Neurotransmitters [Ch 6]	SH	
	10.20-11.20	L		LECTURE 7: Neuronal molecular signalling [Ch 6]	SH	
	14.00-15.30		C	Meet your programme coordinator and general information, compulsory for all new Master's students;		location will be announce by mail
Fr. 1 Sept.	13.00-15.00	L	C	TUTORIAL 1		
Mo. 4 Sept.	13.00-14.00	L		LECTURE 8: Synaptic plasticity [Ch 8]	EW	
	14.20-15.20	L		LECTURE 9: Neuronal coding of information [Ch 8]	AK	
Tu. 5 Sept.	13.00-14.00	L		LECTURE 10: Neurogenesis I [Ch 3]	PE	
	14.20-15.20	L		LECTURE 11: Neurogenesis II [Ch 3]	PE	
We. 6 Sept.	9.00-10.00	L		LECTURE 12: Invertebrate nervous systems I [Ch 3]	DN	
	10.20-11.20	L		RESEARCH LECTURE	PE	
	13.00-14.10		C	Lecture: Library information, Kristina Arnebrant, compulsory for all new students		Hörsalen Biology building



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Th. 7 Sept.	9.00-10.00	L		LECTURE 13: Invertebrate nervous systems II: Invertebrates	DN	
	10.20-11.20	L		RESEARCH LECTURE	DN	
	11.30-12.30	L		The use of animals for scientific purposes [Ch 5]	EE	
	14.15-15.00		C	Lecture: Cheating and plagiarism, Carin Jarl Sunesson, compulsory for all new students		Hörsalen Biology building
Fr. 8 Sept.	13.00-15.00	L	C	TUTORIAL 2		
Mo. 11 Sept.	9.00-13.00		C	EXAM 1	AA	
Tu. 12 Sept.	14.00-15.00	L		LECTURE 14: Vertebrate nervous systems I [Ch 23]	EW	
	15.20-16.20	L		LECTURE 15: Vertebrate nervous systems II [Ch 24]	EW	
We. 13 Sept.	9.00-10.00	L		LECTURE 16: Motor systems and feedback [Ch 25]	EB	
	10.20-11.20	L		RESEARCH LECTURE	EW	
	13.00-15.00		C	Lecture: Scientific writing, Jep Agrell		Hörsalen Biology building
Th. 14 Sept.	9.00-10.00	L		LECTURE 17: Reflexes and pattern generators [Ch 26]	EB	
	10.20-11.20	L		RESEARCH LECTURE	EB	
Fr. 15 Sept.	13.00-15.00	L	C	TUTORIAL 3		
Mo. 18 Sept.	9.00-10.00	L		LECTURE 18: Sleep and wakefulness	JF	
	10.20-11.20	L		LECTURE 19: Neuronal control of behaviour	DD	
Tu. 19 Sept.	9.00-10.00	L		LECTURE 20: Neurobiology of learning and memory	JF	
	10.20-11.20	L		RESEARCH LECTURE	SH	
We. 20 Sept.	9.00-10.00	L		LECTURE 21: Human emotion [Ch 24]	JF	
	10.20-11.20	L		LECTURE 22: Sex, sexuality and the brain	DD	
	11.30-12.30	L	C	LAB Introduction	AA	
Th. 21 Sept.	9.00-10.00	L		LECTURE 23: Cognition [Ch 28,29]	SH	
	10.20-11.20	L		RESEARCH LECTURE	AK	
Fr. 22 Sept.	13.00-15.00	L	C	TUTORIAL 4		
Mo. 25 Sept.	9.00-17.00	Lab	C	LAB DAY 1	LK	
Tu. 26 Sept.	9.00-17.00	Lab	C	LAB DAY 2	PT	
We. 27 Sept.	9.00-17.00	Lab	C	LAB DAY 3	AA	
	12.15-14.00			Education fair - information about Biology courses and programmes	"All teachers"	Ecology Building
Th. 28 Sept.	9.00-17.00	Lab	C	LAB DAY 4	SC	
	13.30-15.00			Information: Exchange studies	Tina Ledje Kristina Miolin	Heden, Ecology building
Mo. 2 Oct.	9.00-15.00		C	EXAM 2	AA	
Tu. 3 Oct.	9.00-17.00		C	Essay Research and Writing		
We. 4 Oct.	9.00-17.00		C	Essay Research and Writing		
Th. 5 Oct.	9.00-17.00		C	Essay Research and Writing		
Fr. 6 Oct.	13.00-15.00		C	TUTORIAL 7 (Last day for handing in reports for Lab 3 and Lab 4)		
Mo. 9 Oct.	9.00-17.00	Lab	C	LAB DAY 5		
Tu. 10 Oct.	9.00-17.00	Lab	C	LAB DAY 6		
We. 11 Oct.	9.00-17.00	Lab	C	LAB DAY 7		
Th. 12 Oct.	9.00-17.00	Lab	C	LAB DAY 8		
Fr. 13 Oct.	13.00-15.00	L	C	TUTORIAL 6 (Last day for handing in reports for Lab 1 and Lab 2)		
Mo. 16 Oct.	9.00-17.00		C	Essay Research and Writing		
Tu. 17 Oct.	9.00-17.00		C	Essay Research and Writing		
We. 18 Oct.	9.00-17.00		C	Essay Research and Writing		



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Th. 19 Oct.	9.00-17.00		C	Essay Research and Writing		
Fr. 20 Oct.	13.00-15.00		C	TUTORIAL 8		
Mo. 23 Oct.	9.00-17.00		C	Essay Research and Writing (Last day for handing in Essay)		
Tu. 24 Oct.	9.00-17.00	Sem		Seminar Preparation		
We. 25 Oct.	9.00-17.00	Sem	C	Neurobiology Seminar Day and Course Evaluation		
Th. 26 Oct.				Exam Preparation		
Fr. 27 Oct.	9.00-13.00			Re-exam 1	PT	
	14.00-18.00			Re-exam 2	LK	