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Pharmacology BIOR14 EXTN45 31 Oct. 2016 - 13 Jan., 2017

Department of Biology, Lund University

Course leader: Bodil Sjögren, Department of Biology, Room B-B205, Sölvegatan 35, 223 62 LUND.
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Teachers: Johan Andersson (JA), Fredrik Johansson (FJ), Wolfgang Knecht (WK), David O'Carroll (DOC), Bodil Sjögren (BSN), Anna Stöckl (AS), Not yet determined (XX)

Location: All activities at the Department of Biologi, Sölvegatan 35/37, Lund.

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

Compulsory activities on this course are marked in bold under "Description" below: Please note that also **some lectures** are compulsory on this course. *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.*

Literature: Golan, D. E. (ed) Principles of Pharmacology – The pathophysiologic Basis of Drug Therapy. Lippincott W & W 4 ed, 2016 ISBN: 9781496320575 (International ed). We **do not** recommend earlier editions due to added/expanded chapters! Additional hand-outs etc available through teaching platform as well as some material available on specified web-pages.

Web page: L@L

Information: The course involves work with live animals. Those that have medical or ethical considerations regarding this, please contact the course leader a.s.a.p., but not later than Oct 31. 2016.

Date	Time	Activity	Description	Teacher	Location
Mo. 31 Oct.	08.15-10.00	L	Introduction Presentation, schedule, pre-test	BSN (teachers)	B-D227
Tu. 1 Nov.	10.15-12.00	L	Pharmacokinetics I	BSN	
	13.15-15.00	L	Receptors and pharmacodynamics	JA	
We. 2 Nov.	09.15-10.00	L	Pharmacodynamics: agonists and antagonists	JA	
	10.15-11.30	L	Drug toxicity and interactions	JA	
	13.00-15.00	L	Experimental animal science I	BSN	
Th. 3 Nov.	08.15-10.00	L	Pharmacokinetics II	BSN	
	10.15-12.00	L	Essay writing; on cheating, plagiarism and fraud	BSN (teachers)	
	13.00-17.00		No classes		
Fr. 4 Nov.			Holiday		
Mo. 7 Nov.	09.15-11.00	L	Drug discovery and development	WK	
	11.15-12.00	L	Instr. and distr. of themes for methodological ta	WK	
Tu. 8 Nov.			---		
We. 9 Nov.	08.30-12.00	G	Group studies 1 (Kin, dyn, tox) All groups	JA, BSN	
	13.00-15.00	L	Experimental animal science II	BSN	
Th. 10 Nov.			---		
	13.00-17.00		No classes		
Fr. 11 Nov.	10.15-12.00	L	PNS I (Overview, cholinergics)	BSN	
Mo. 14 Nov.	10.15-12.00	L	PNS II (Adrenergics, serotonergics, LA)	BSN	
	13.30-15.15	L	Inflammation, mediators and drugs	JA	
Tu. 15 Nov.			---		
We. 16 Nov.	08.30-12.00	G	Group studies 2 (Chol., Adr., Ser., LA) All grou	BSN	
Th. 17 Nov.	08.15-10.00	L	Respiratory pharmacology	JA	



	13.00-17.00		No classes		
Fr. 18 Nov.	10.15-12.00	L/G	Methodological check-up	WK	
	13.15-12.00	L	CNS intro	DOC	
Mo. 21 Nov.	13.00-16.30	G	Group studies 3 (Resp. infl.) All groups	JA	
Tu. 22 Nov.	10.15-12.00	L	Anaesthesia and analgesia	BSN	
	13.00-14.30	Lab	Lab 3, Handling of exp. animals Group 1	BSN	
	15.00-16.30	Lab	Lab 3, Handling of exp. animals Group 2	BSN	
We. 23 Nov.	08.30-12.00	G	Group studies 4 (Animals, incl. SOP) All group	BSN	
Th. 24 Nov.	08.00-12.30	Lab	Lab 4, Catheterisation Group 1	BSN	
	13.00-17.00		No classes		
Fr. 25 Nov.	08.30-12.00		Lab 4, Catheterisation Group 2	BSN	
	13.00-14.30		Lab 3, Handling of exp. animals Group 3	BSN	
Mo. 28 Nov.	08.00-14.00	Lab	Lab 5, Surgical technique Group 2	BSN	
Tu. 29 Nov.	08.30-12.00	G	Group exercise CNS All groups	DOC	
We. 30 Nov.	08.30-12.00	Lab	Lab 4, Catheterisation Group 2	BSN	
Th. 1 Dec.	10.00-14.00		ATLAS http://www.lundsaturvetarkar.se/atlas	LUNA	
	13.00-18.00		Re-exams, courses given period 1		
Fr. 2 Dec.	10.15-12.00	L	Evaluation of methodological task	WK	
Mo. 5 Dec.	13.00-16.00	Lab	Lab 1, EC50 Group 3	AS/XX	
Tu. 6 Dec.	08.30-11.30	Lab	Lab 1, EC50 Group 2	AS/XX	
	13.15-15.00	L	General cardiovascular pharmacology and anti-hypertensives	JA	
We. 7 Dec.	08.00-14.00	Lab	Lab 5, Surgical technique Group 3	BSN	
	09.00-12.00	Lab	Lab 1, EC50 Group 1	BSN	
Th. 8 Dec.	10.15-12.00	L	Pharmacology of ischemic heart disease and thrombosis	JA	
	13.00-17.00		No classes		
Fr. 9 Dec.	08.00-14.00	Lab	Lab 5, Surgical technique Group 3	BSN	
	09.00-17.00	Lab	Lab 2, Dose-response Group 2	AS/XX	
Mo. 12 Dec.	10.15-12.00	G	Peer reading of essays	Teachers	
	13.15-15.00	L	Pharmacology of arrhythmia, heart failure, and lipoprotein me	JA	
Tu. 13 Dec.	09.00-17.00	Lab	Lab 2, Dose-response Group 1	AS/XX	
We. 14 Dec.	09.00-17.00	Lab	Lab 2, Dose-response Group 3	AS/XX	
Th. 15 Dec.			---		
	13.00-17.00		No classes		
Fr. 16 Dec.			---		
Mo. 19 Dec.	12.15-13.00	L	Distribution of essays	BSN	
	13.30-17.00	G	Group studies (Cardiovasc.) All groups	JA	
Tu. 20 Dec.	08.30-12.00	Demo	Blood pressure regulation Group I	JA, BSN	
	13.30-17.00	Demo	Blood pressure regulation Group II	JA, BSN	
We. 21 Dec.	08.30-12.00	Demo	Blood pressure regulation Group III	JA, BSN	
			Final day for handing in lab reports		
Th. 22 Dec.			Winter break starts		
2017					
Sun. 8 Jan.			Winter break ends		
Mo. 9 Jan.	08.15-12.30	Sem	Presentation of essays	Teachers	
	13.30-17.00	Sem	Presentation of essays	Teachers	
Tu. 10 Jan.	08.15-12.00	Sem	Presentation of essays	Teachers	



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	13.00-17.15	Sem	Presentation of essays	Teachers	
We. 11 Jan.	10.15-12.00		Questions?	Teachers	
Th. 12 Jan.			---		
	13.00-17.00		No classes		
Fr. 13 Jan.	08.00-13.00		Written exam		
Th. 23 Feb.	13.00-18.00		Re-exam courses period 2		