SCHEDULE NEUROBIOLOGY 2018

Time: 2018–11–06 – – 2018–12–05

Lecture halls: Dept. Mol Biol. build. 6K, top floor, room: Thymine & Uracil,

Labs: A109, building 6A.

Course requirements: 1. All lab work incl. reports, practical exercises and computer labs are mandatory. Attendance to lectures is strongly recommended. In case of absence on mandatory exercises due to sickness, inform SB without delay. To be marked (examined) during the course 2018, lab reports need to be submitted to the assistants not later than November 30, January 13 and February 24.

2. Information in lectures, labs and assigned reading.

Course literature is "Neuroscience" Purves, Augustine, Fitzpatrick et al (Editors) Sinauer, 5th edition, 2012. There are a few copies at the libraries (general as well as medical library). There are also copies that can only be red at the library.

Examination: Written examination is 2018–12–05 09:00–13:00 Note – before Friday November 23 you have to register in PORTALEN that you are going to take the exam. For the resit examination, which is January 21 (14:00–18:00), you need to register before Friday January 11 2019.

Course leader and examiner:
Staffan Bohm (SB) stafan.bohm@umu.se;
Phone: 090–785 0819

Ingela Nilsson ingela.nilsson@umu.se

Viktoria Vedin (VV) viktoria.vedin@umu.se

Lecturers:
Staffan Bohm (SB) Molecular biology
Anna Berghard (AB) Molecular biology
Paolo Medini (PM) Molecular biology
Mattias Alenius (MA) Molecular biology
Simon Tuck (ST) UCCM
WEEK 45

6/11 Tuesday
13:00 – 16:00 Roll call & Introduction (Chp. 1 & 27) SB Thymine & Uracil
16:00 – 17:00 Film “All in the mind” SB Thymine & Uracil

7/11 Wednesday
09:00 – 12:00 Neuron, Neuroanatom (Chp.1, 21, app. 1) AB Thymine & Uracil
13:00 – 17:00 Lab: Gross neuroanatomy & Histology VV A109
BRING LABCOAT for your own protection!

8/11 Thursday
13:00 – 17:00 Lab: Gross neuroanatomy & Histology VV A109
BRING LABCOAT for your own protection!

9/11 Friday
09:00 – 12:00 Intro. elecrophysiologi & fMRI/PET (Chp. 1-3) SB Thymine & Uracil
12:00 – 13:00 Film David Eagleman SB Thymine & Uracil

WEEK 46

12/11 Monday
08:30 – 10:00 Nervous system C. elegans Lecture room C UNOD T9
10:15 – 17:00 Lab: C.elegans mutants Lab & Histology Lab VV A109

13/11 Tuesday
12:00 – 14:00 Lab: C.elegans mutants Lab & Histology Lab VV A109
14:00 – 16:00 Nervous system D. melanogaster (Chp. 22, 23) MA Thymine & Uracil
16:00 – 17:00 Film David Eagleman SB Thymine & Uracil

14/11 Wednesday
12:30 – 15:30 Neural circuit formation (Chp. 22, 23) SB Thymine & Uracil
15:30 – 16:30 Film “First among equals” SB Thymine & Uracil

15/11 Thursday
09:00 – 17:00 Lab: Drosophila nervous system VV A109
NB! Time slots at microscopes for some groups if possible

16/11 Friday
8:30 – 11:30 Sensory coding, somatosensory system (Chp. 9) SB Thymine & Uracil
12:30 – 17:00 Lab: Drosophila nervous system VV Microscopes at dep
NB! Time slots at microscopes only
WEEK 47

19/11 Monday
09:00 – 09:30 Quiz
09:30 – 11:30 Auditory system & Pain (Chp. 10, 13)
11:30 – 13:00 Olfactory system (Chp. 15)

20/11 Tuesday
09:00 – 13:00 Neur. excitability/Synaptic transmiss. (Chp. 1-5)

21/11 Wednesday
11:00 – 14:00 Computer lab Neurons in Action group 1
14:00 – 17:00 Computer lab Neurons in Action group 2

22/11 Thursday
09:00 – 12:00 Visual system (Chp. 11, 12)
12:00 – 13:00 Film "Mind's eye"

23/11 Friday
09:00 – 11:30 Neuroplasticity 1 (Chp. 8, 24, 31)
11:30 – 12:30 Film "Growing the mind"

WEEK 48

26/11 Monday
12:00 – 15:00 Lower/upper motor neurons (Chp. 16, 17)

27/11 Tuesday
12:00 – 15:00 Modulatory motor systems (Chp. 18, 19)

28/11 Wednesday
Own study

29/11 Thursday
13:00 – 16:05 Neuroplasticity 2 (Chp. 8, 24, 31)
--- Maze, comp lab

30/11 Friday
08:30 – 10:30 Association cortices (Chp. 26)
10:30 – 12:30 Emotions (Chp. 29)
12:30 – 13:30 Film "In the heat of the moment"

WEEK 49

3/12 Monday
Own study 10:30 – 11:30 possibility for questions

4/12 Tuesday
Own study

5/12 Wednesday
09:00–13:00 Written exam, Östra Paviljongen

21/1/2019
14:00–18:00 Resit written exam, Östra Paviljongen