

Neuroscience lectures - GENERAL MEDICINE

spring semester 2016

Tuesday: 14:00 - 15:50 Campus A 22 / Aula

Wednesday: 8:15 - 10:05 Campus A 11/ 234

Date	Topic	Lecturer
23.2.	1. Structural arrangement of the nervous system.	A
	2. Blood-brain barrier, nervous tissue.	
24.2.	3. Brain and behavior, environment of the neuron.	P
1.3.	4. Neurons as the signaling units of NS.	P
2.3.	5. Chemical synapses.	P
8.3.	6. Information processing in the NS. Principals of sensation and perception.	P
9.3.	7. Physiological optics, information processing in the retina. Perception of motion, depth, form and color.	P
15.3.	8. Visual pathways.	A
16.3.	9. Pathways of auditory, vestibular, olfactory, and gustatory systems.	A
22.3.	10. Auditory and vestibular systems, chemical senses.	P
23.3.	11. Somatosensory and viscerosensory pathways.	A
29.3.	12. Central representation of the touch. Pain and stress analgesia.	A
30.3.	13. Somatomotor pathways.	A
5.4.	14. Pathways of the cerebellum and the basal ganglia.	A
6.4.	15. Spinal motor reflexes. Eye movements.	A
12.4.	16. Posture, locomotion and grasping movements.	P
13.4.	17. Motor control in man (clinical findings).	P
19.4.	18. Modulatory systems of the brain.	P
20.4.	19. Autonomic nervous system.	A
26.4.	20. Limbic forebrain and motivation. Emotions.	P
27.4.	21. Structure of the cerebral cortex.	A
3.5.	22. Arousal mechanisms, sleep. EEG.	P
4.5.	23. Learning and memory.	P
10.5.	24. Language, functional asymmetry of the hemispheres.	P
11.5.	25. Consciousness and attention. Prefrontal cortex.	P
17.5.	26. Ontogenic development of the brain, critical periods. Neuronal plasticity and regeneration.	A
18.5.	27. Reserved	
24.5.	28. Reserved	
25.5.	29. Reserved	

Lecturers: A - lecturer from Department of Anatomy
P - lecturer from Department of Physiology

Supervisor: Prof. RNDr. Petr Dubový, CSc.