Neuroscience lectures - DENTISTRY

spring semester 2016

Monday: 17:20 - 18:40 Campus A 11/ 327

	Date	Topic	Lecturer
1.	22.2.	1. Structural arrangement of the nervous system. 2. Blood-brain barrier, nervous tissue.	A
2.	29.2.	3. Brain and behavior, environment of the neuron. 4. Neurons as the signaling units of NS.	P
3.	7.3.	5. Chemical synapses. 6. Information processing in the NS. Principals of sensation and perception.	P
4.	14.3.	7. Visual pathways. 8. Pathways of auditory, vestibular, olfactory, and gustatory systems.	A
5.	21.3.	9. Physiological optics, information processing in the retina. Perception of motion, depth, form and color. 10. Auditory and vestibular systems, chemical senses.	P
7.	4.4.	11. Somatosensory and viscerosensory pathways.	A
8.	11.4.	12. Central representation of the touch. Pain and stress analgesia. 13. Somatomotor pathways.	A
9.	18.4.	14. Posture, locomotion and grasping movements. 15. Motor control in man (clinical findings). 16. Modulatory systems of the brain.	P
10.	25.4.	17. Pathways of the cerebellum and the basal ganglia. 18. Spinal motor reflexes. Eye movements.	A
11.	2.5.	19. Limbic forebrain and motivation. Emotions and feelings. 20. Structure and function of the cerebral cortex.	P
12.	9.5.	21. Autonomic nervous system.	A
13.	16.5.	22. Arousal mechanisms, sleep. EEG. 23. Learning and memory. 24. Language, functional asymmetry of the hemispheres. 25. Consciousness and attention. Prefrontal cortex.	P
14.	23.5.	26. Ontogenic development of the brain, critical periods. Neuronal plasticity and regeneration.	A

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

Supervisor: Prof. Dr. Petr Dubovy, CSc.