

Pathophysiology - practicals

Autumn/2020 – General Medicine (en)

Department of Pathophysiology FoM MU

UKB Kamenice 5/A18 – seminar room I/112 (ground floor)

Mondays (10:00 – 12:30); Mondays & Tuesdays & Thursdays (13:00 – 15:30)

week	date			topic	teachers
1	5.10.	6.10.	8.10.	Introduction, health & safety in the lab. Principles and demonstration of peripheral blood flow examination using ultrasonography. Training of techniques for experimental practice	as scheduled
2	12.10.	13.10.	15.10.	Interindividual variability (tutorial). Training of techniques for experimental practice	as scheduled
3	19.10.	20.10.	22.10.	Principles and ethics of experimental use of laboratory animals, basic surgical skills, general principles of work with lab. animals & explorative laparotomy	as scheduled
4	26.10.	27.10.	29.10.	Principles of ECG analysis, demonstration of selected pathological ECG patterns	Dr. J. Máchal, Ph.D./ as scheduled
5	2.11.	3.11.	5.11.	Conductive disorders (seminar), ECG monitoring of exp. induced arrhythmias in lab. animal	as scheduled
6	9.11.	10.11.	12.11.	Exp. induced renal ischemia (part 1)	Mgr. Lukáš Pácal, Ph.D.; Ing. Hana Polanská, Ph.D.
7	16.11.	17.11.	19.11.	Exp. induced changes in blood flow in the splanchnic region of the experimental animal	as scheduled
8	23.11.	24.11.	26.11.	Pathophysiology of ventilation disorders and pulmonary gas exchange – spirometry.	as scheduled
9	30.11.	1.12.	3.12.	Exp. induced renal ischemia – detection of renal renin expression (part 2)	Mgr. Lukáš Pácal, Ph.D.; Ing. Hana Polanská, Ph.D.
10	7.12.	8.12.	10.12.	Exp. induced acute renal insufficiency in lab. animal – measurement of GFR based on kinetics of renal inulin excretion	Mgr. Lukáš Pácal, Ph.D.; Mgr. Lucie Válková
11	14.12.	15.12.	17.12.	Cell cycle, oncogenes and suppressor genes, cancer development. (tutorial)	Dr. J. Gumulec, Ph.D.; Dr. Jan Balvan, Ph.D.
12	4.1.	5.1.	7.1.	Genetic susceptibility to disease – monogenic vs. complex diseases (tutorial)	as scheduled
13	11.1.	12.1.	14.1.	Statistical analysis of experiments (introduction).	Dr. Michal Jurajda, Ph.D.; Dr. Jan Máchal, Ph.D.
14	18.1.	19.1.	21.1.	Tests, credits	as scheduled

Literatura:

1. Kaňková K, Pácal L, Jurajda M, Izakovičová-Hollá L, Bienertová-Vašků J, Masařík M, Vašků A: Pathophysiology practicals for General Medicine and Dental Medicine courses. Portal of MU's Faculty of Medicine [online] 2008-12-15, last modif. 2008-12-16 [cit. 2008-12-17]. Available from <http://portal.med.muni.cz/article-477-pathophysiology-practicals-for-general-medicine-and-dental-medicine-courses.html>

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