

**PHYSIOLOGY and PATHOPHYSIOLOGY SUMMER SEMESTER 2022/2023**

		Lectures		Seminars	
Week	Date	Tuesday 13:00 - 14:40; classroom 247	Speaker	Tuesday 14:45 - 16:25; classroom 247	Speaker
1.	14.2.	Physiology of kidneys and lower urinary tract. Kidney failure.	Parák	Organization of lessons, work safety, ethical aspects of work with laboratory animals, experimental project, approval process.	Chalupová
2.	21.2.	Gastrointestinal tract and its functions. Pathophysiology of liver and pancreas.	Chalupová	Collection of biol. material. Laboratory animals - propedeutics. Anesthesia.	Paráková
3.	28.2.	Respiratory system and its functions. Obstructive and restrictive pulmonary processes. Respiratory Insufficiency.	Chalupová	Molecular-genetic examinations.	Kružicová
4.	7.3.	Vitamins, minerals and trace elements	Jelínek	Imaging techniques in examination, endoscopy. Practical examination methods.	Chalupová
5. *	14.3.	Acute and chronic health failure. Cardiac asthma, pulmonary heart disease. Pulmonary Arterial Hypertension.	Chalupová	Basics of pathohistological examination	Chalupová
6.	21.3.	Endocrine regulation, most common disorders I.	Paráková	Cytogenetics. Chromosomal aberations.	Chalupová
7.	28.3.	Endocrine regulation, most common disorders II.	Parák	ECG, interpretation of arrhythmias and ischemic changes	Parák
8.	4.4.	Internal environment, acid-base balance.	Jelínek	Laboratory examination methods I (biochemistry, hematology)	Jelínek
9.	11.4.	Patophysiology of skin	Parák	Diseases of old age	Parák
10.	18.4.	CNS pathophysiology (brain arterial network disorders. Pain.)	Chalupová	Visiting laboratories, experimental models	Kružicová
11. *	25.4.	Infections	Jelínek	COVID-19 infection	Jelínek
12.	2.5.	CNS physiology and pathophysiology (epilepsy, Parkinson's disease, demyelinating diseases, schizophrenia).	Paráková	Laboratory examination methods II (microbiology, imunology, virology).	Jelínek
13.	9.5.	Parazitic diseases and anthroozoonoses	Parák	Written test	Parák
14.	16.5.	Final consultations.	Chalupová	Particular topics consultation, course credit approval	Chalupová

MUDr. Tomáš Parák, Ph.D.; physiology and pathophysiology guarantee