

3	17.10.2018	Role in the recognition and antigen presentation. Other polymorphic immune genes. Practical implications with emphasis on organ and stem cell transplantation.		
4	31.10.2018	Cytokines and other regulatory mechanisms of immunity Structure and function of immune mediators and their mutual relationship, anticytokine therapy. Regulatory T-cells.	2	prof. MUDr. Mgr. Milan Raška, Ph.D.
5	14.11.2018	Theoretical Basis of Clinical Immunology I - immunopathological reactions Mechanisms of immunopathological reactions (hypersensitivity types I-IV), type I reactions (allergy) incl. basic practical questions (anaphylactic shock).	2,5	doc. MUDr. František Mrázek, Ph.D.
6	28.11.2018	Theoretical Basis of Clinical Immunology II - autoimmune diseases Basic theoretical aspects, an overview of organ / systemic autoimmune diseases, new treatments based on immunological principles.	2,5	prof. MUDr. Evžen Weigl, CSc. MUDr. Zuzana Heřmanová, Ph.D
7	12.12.2018	Current news from Immunology , current research questions in the field Immunology as a field of laboratory medicine Cooperation with other specializations in clinical diagnostics and biomedical research	2	prof. MUDr. Mgr. Milan Raška, Ph.D.

Practical sessions and demonstrations:

Teachers:	prof. MUDr. Mgr. Milan Raška, Ph.D. doc. MUDr. František Mrázek, Ph.D. MUDr. Jaroslava Braunová, Ph.D. Mgr. Michal Křupka, Ph.D.
Teaching:	ongoing
Time:	11:15 - 12:50
Room:	TD 2.520 (New building - room 2.520)

	Date	Topic	Hours
1	18.9.2018	Organization of practical courses, course curriculum. Introduction to immunology laboratory diagnostics - brief indications, principles of specimen collections. Methods in cellular immunology. Demonstration of selected techniques in the laboratory. <i>prof. Raška</i>	2
2	2.10.2018	Laboratory aspects of transplantation. HLA system and immunogenetics. Demonstration of related techniques in the laboratory. <i>doc. Mrázek</i>	2
3	16.10.2018	Determination of humoral immunity parameters. Laboratory tests in autoimmune diseases, autoantibody determination. Laboratory diagnostics of allergic diseases. Demonstration of selected techniques in the laboratory. <i>Mgr. Křupka</i>	2
4	30.10.2018	Immunological aspects of dental medicine, mucosal immunity and its investigations. HIV-infection. <i>prof. Raška</i>	2
5	13.11.2018	Examination of "allergic" patient (patient history, skin testing, exposure tests, role of laboratory). Examination of "immunological" patient (patient history, clinical examination, laboratory tests). Spectrum of allergic diseases. Pollinosis. Allergic Rhinitis. <i>MUDr. Braunová</i>	2
6	27.11.2018	Respiratory infections from the perspective of dental medicine. Bronchial Asthma. <i>MUDr. Braunová</i>	2
7	11.12.2018	Allergic reaction to drugs and food components. Allergy to insects. Anaphylactic shock. <i>MUDr. Braunová</i> Practicavit	3

The practical training includes excursions into the laboratory, therefore, each student must have the coat, slippers and a identification card (badge) !!!

Requirements: Attendance of all teaching session is required to obtain the "Practicavit" signature.

Completed by: Practicavit, examination

Literature : Rabson A, Roitt IM, Delves PJ: Really Essential Immunology