

**MEDICAL STUDY IN ENGLISH****SUBJECT: IMMUNOLOGY****Head of the department:** Associate professor Ivan Čavar, MD, Ph.D.**Teachers:** Associate professor Ivan Čavar, MD, Ph.D.; Associate professor Vesna Lukinović-Škudar, MD, Ph.D.; Katarina Cvitković, MD; Jelena Skoko, MD**IMPLEMENTATION PLAN FOR THE ACADEMIC YEAR 2020-2021**

Day	Time	Group	Theme (Chapter)	Lecturer
<b>MON</b> <b>31. 05.</b>	14.00-15.30	All	(L) Innate and acquired immunity, types of acquired immunity, characteristics of acquired immune responses (Chapter 1)	Ivan Čavar
	15.45-17.15	All	(L) Immune system cells and tissues, review of immune responses to microorganisms (Chapter 1)	Ivan Čavar
	17.30-19.00	All	(L) Basic characteristics and specificity of innate immune responses, cellular receptors for microorganisms and damaged cells (Chapter 2)	Ivan Čavar
<b>TUE</b> <b>01. 06.</b>	14.00-15.30	All	(L) Components, reactions and role of innate immunity in stimulating acquired immune responses (Chapter 2)	Ivan Čavar
	15.45-17.15	All	(S) Antigens recognized by T lymphocytes, the way how APC collect protein antigens, structure and function of HLA/MHC molecules (Chapter 3)	Jelena Skoko
	17.30-19.00	All	(L) Processing and presentation of protein antigens, other roles of APS and recognition of antigens by B lymphocytes (Chapter 3)	Ivan Čavar
<b>WDS</b> <b>02. 06.</b>	14.00-15.30	All	(L) Cytokines and chemokines (Chapters 2 and 5)	Ivan Čavar
	15.45-17.15	All	(S) Antigenic lymphocyte receptors; Antibodies and T lymphocyte receptors (Chapter 4)	Jelena Skoko
	17.30-19.00	All	(L) Development of immune repertoire; Lymphocyte development, emergence of diverse antigen receptors, maturation and selection of T and B lymphocytes (Chapter 4)	Ivan Čavar
<b>THU</b> <b>03. 06.</b>	14.00-15.30	All	(L) Phases of T lymphocyte response, antigen recognition and costimulation, biochemical pathways of T lymphocyte activation (Chapter 5)	Ivan Čavar
	15.45-17.15	All	(S) Functional responses of T lymphocytes to antigen and costimulation and their migration in cellular immunity responses (Chapter 5)	Jelena Skoko
	17.30-19.00	All	(L) Complement system (Chapter 2 and 8)	Ivan Čavar
<b>FRI</b> <b>04. 06.</b>	14.00-15.30	All	(P) Executive mechanisms of T lymphocyte-mediated immunity (Chapter 6)	Ivan Čavar
	15.45-17.15	All	(E) ELISA and immunofluorescence - computer simulation	Jelena Skoko

Day	Time	Group	Theme (Chapter)	Lecturer
<b>MON</b> <b>07. 06.</b>	13.30-14.00	All	Repeat Test (for extra points on the test)	Vesna Lukinović-Škudar
	14.00-15.30	All	(S) Phases and types of humoral immune responses, stimulation of lymphocytes B by antigen (Chapter 7)	
	15.45-17.15	All	(S) Roles of helper T lymphocytes and antibodies in humoral immune responses (Chapter 7)	
	17.30-19.00	All	(L) The executive mechanisms of humoral immunity (Chapter 8)	
<b>TUE</b> <b>08. 06.</b>	14.00-15.30	All	(S) Immunological tolerance: significance and mechanisms; Central and peripheral tolerance mediated by T lymphocytes (Chapter 9)	Vesna Lukinović-Škudar
	15.45-17.15	All	(L) Tolerance mediated by lymphocytes B; Tolerance of commensal microorganisms and fetal antigens; Autoimmunity (Chapter 9)	
<b>WDS</b> <b>09. 06.</b>	14.00-15.30	All	(S) Immune responses to tumors (Chapter 10)	Vesna Lukinović-Škudar
	15.45-17.15	All	(L) Immune responses to transplants (Chapter 10)	
<b>THU</b> <b>10. 06.</b>	14.00-15.30	All	(S) Types of hypersensitivity reactions; Early hypersensitivity (Chapter 11)	Vesna Lukinović-Škudar
	15.45-17.15	All	(L) Diseases caused by antibodies, immunocomplexes and T lymphocytes (Chapter 11)	
<b>FRI</b> <b>11. 06.</b>	13.30-14.00	All	Repeat Test (for extra points on the test)	Ivan Čavar Jelena Skoko <a href="#">Ivan Čavar</a>
	14.00-15.30	All	(E) Flow cytometry - computer simulation	
	15.45-17.15	All	(L) Congenital and acquired immunodeficiencies	

**L=Lecture, S=Seminar, E=Exercise**

**LITERATURE: Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai. Basic immunology: functions and disorders of the immune system. 6th Edition, Elsevier, 2020. ISBN: 978-0-323-54943-1**

**Exams:**

**1st term = FRIDAY, 18. 6. 2021., 9.00 h**

**Summer terms: Tuesday 6. 7. 2021., 9.00 h; Tuesday 20. 7. 2021., 9.00 h**

**Autumn terms: Tuesday 14. 9. 2021., 12 h; Tuesday 28. 9. 2021., 12 h**