

MEDICAL STUDY IN ENGLISH**SUBJECT: IMMUNOLOGY****Head of the department:** Professor Ivan Čavar, MD, Ph.D.**Teachers:** Professor Ivan Čavar, MD, Ph.D.; Professor Drago Batinić, MD, Ph.D.; Associate professor Vesna Lukinović-Škudar, MD, Ph.D.; Assistant professor Katarina Cvitković, MD, Ph.D.; Jelena Sulić, MD**IMPLEMENTATION PLAN FOR THE ACADEMIC YEAR 2023/2024**

Day	Time	Group	Theme (Chapter)	Lecturer
MON May 20, 2024	14.00-15.30	All	(L) Innate and acquired immunity, types of acquired immunity, characteristics of acquired immune responses (Chapter 1)	Drago Batinić
	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
TUE May 21, 2024	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 Sulić
	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)	Jelena Sulić
WDS May 22, 2024	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 Sulić
	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)	Jelena Sulić
THU May 23, 2024	14.00-15.30	All	(L) Phases of T lymphocyte response, antigen recognition and costimulation, biochemical pathways of T lymphocyte activation (Chapter 5)	Jelena Sulić
	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 Sulić
	17.30-19.00	All	(L) Complement system (Chapter 2 and 8)	Jelena Sulić
FRI May 24, 2024	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 Sulić

Day	Time	Group	Theme (Chapter)	Lecturer
MON May 27, 2024	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)	
TUE May 28, 2024	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)	
WDS May 29, 2024	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)	
THU May 30, 2024	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)	
FRI May 31, 2024	13.30-14.00	All	Repeat Test (for extra points on the test)	Ivan Čavar Jelena Sulić Jelena Sulić
	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 = June 7, 2024, 9.00 h

Summer terms: July 3, 2024, 12.00 h; July 17, 2024, 12.00 h

Autumn terms: September 11, 2024, 12 h; September 25, 2024, 12 h