

Medicinski fakultet u Rijeci

**IZVEDBENI NASTAVNI PLAN
2021/2022**

Za kolegij

Immunity and Aging

Studij:	Medical Studies in English (R) (izborni) Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	Centar za proteomiku
Nositelj kolegija:	izv. prof. dr. sc. Brzić Ilija, mag. ing. biotechn.
Godina studija:	3
ECTS:	1.5
Stimulativni ECTS:	0 (0.00%)
Strani jezik:	Mogućnost izvođenja na stranom jeziku

Podaci o kolegiju:

Immunity and Aging is an elective course designed for medical students in their third year of study. This course explores the impact of aging on the immune system and its associated effects. The course is structured with a combination of lectures, seminars, and practical laboratory sessions, totaling 26 hours of instruction (equivalent to 1.5 ECTS credits). Attendance in all types of classes is required.

Number of students:

To maintain the quality of practical courses, the number of students who can participate in the course should be no more than 15.

The goal of the course:

This course provides theoretical knowledge about how the immune system changes as people age and the impact of these changes on health. It also equips students with the skills needed to effectively analyze immune cells using flow cytometry and understand how immune cells change with aging.

Course content:

We will explore how the innate and adaptive immune responses change as people get older and the factors influencing these changes. The role of herpesviruses, particularly cytomegalovirus, in the aging of the immune system, as well as the unique characteristics of the immune response to cytomegalovirus infection will be presented. We'll examine the primary reasons and mechanisms behind reduced vaccination effectiveness in older individuals. We'll analyze what factors influence the immune response to pathogens and tumors as people age. Finally, we'll study immune cell analysis in the peripheral blood of older and younger donors or mice to gain insights into age-related differences.

Students obligations:

The Immunity and Aging course consists of lectures, seminars, and practical sessions. The class schedule can be found on the Teams group of the course and the Center for Proteomics website. Lectures and seminars will take place in designated lecture halls as per the schedule. Laboratory tasks will be conducted in the dedicated laboratory of the Department for Histology and Embryology/Center for Proteomics, following the provided schedule.

Attendance will be closely monitored for all students throughout the course. It's important to note that classes will start precisely as scheduled, so arriving late will be considered as an absence. Additionally, students are expected to come prepared for seminars.

Popis obvezne ispitne literature:

1. Students' notes from lectures and seminars.
2. Basic immunology : functions and disorders of the immune system / Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai ; illustrations by David L. Baker, Aleksandra Baker, 5th Edition, Elsevier
3. Abbas AK, Lichtman AH, Pillai S. Cellular and molecular immunology, 8th. edition, Elsevier, - will be made available by the lecturer
4. Valquiria Bueno, Janet M. Lord, Thomas A. Jackson, The Ageing Immune System and Health, Springer International Publishing, 2017. - will be made available by the lecturer

Popis dopunske literature:

Recommended scientific papers and reviews.

Nastavni plan:

Obveze studenata:

Regular class attendance (lectures, seminars, labs), writing, and presenting the seminar, taking the final exam.

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):

Evaluation and assessment will be done in accordance with the Book of rules on Assessment and evaluation of student work of the Medical Faculty in Rijeka, which are based on the Book of rules on studies on University of Rijeka, and Decision of Medical Faculty council.

Students will be graded using ECTS points and will receive numbered grades (1-5). Grading will be performed using absolute distribution and according to undergraduate criteria of grading.

The course Immunity and aging will be held during 3d year of study and is comprised of lectures (9 hours), seminars (8 hours) and practical course (8 hours)

Final exam

The final exam of the Immunity and aging course is written (40% grade).

Final grade:

The final grade of students will be a sum of final exam grades and grades assigned during the course and the student's seminar work.

90 - 100 %	A (excellent - 5)
75 - 89 %	B (very good - 4)
60 - 74 %	C (good - 3)
50 - 59 %	D (dovoljan - 2)

Ostale napomene (vezane uz kolegij) važne za studente:

-

SATNICA IZVOĐENJA NASTAVE 2021/2022

Immunity and Aging

Popis predavanja, seminara i vježbi:

ISPITNI TERMINI (završni ispit):
