



[Medicinski fakultet u Rijeci]

IZVEDBENI NASTAVNI PLAN 2021/2022

[Za kolegij]

Oxidative Stress and Antioxidants

Studij: Medical Studies in English (R) (izborni)
[Sveučilišni integrirani prijediplomski i diplomski studij]

Katedra: [Katedra za medicinsku kemiju, biokemiju i kliničku kemiju]
Nositelj kolegija: prof. dr. sc. Domitrović Robert, univ. mag. med. biochem.

Godina studija: 2
ECTS: 1.5
Stimulativni ECTS: 0 (0.00%)

Strani jezik: Mogućnost izvođenja na stranom jeziku

Podaci o kolegiju:

Free radicals as extremely reactive chemical species represent a potential danger to all cells and contribute to the development of cardiovascular, neurodegenerative and inflammatory diseases, tumors, diabetes and other pathological conditions. However, at the same time, free radicals and other reactive oxygen and nitrogen species (ROS, "reactive oxygen species", RNS, "reactive nitrogen species"), by participating in phagocytosis and oxygenation, have a significant positive effect on metabolism. Within the framework of the course, the modes of action and effects of free radicals and ROS and RNS molecules in oxidative stress and the pathogenesis of various diseases will be discussed. In addition, students will be able to explain how the organism is protected from their harmful effects.

| ISPITNI TERMINI (završni ispit): | _ |
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| Popis predavanja, seminara i vježbi: | |
| SATNICA IZVOĐENJA NASTAVE 2021/2022 Oxidative Stress and Antioxidants | |
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| Ostale napomene (vezane uz kolegij) važne za studente: | |
| Student evaluation is carried out according to the valid Rulebook on studies of the University of Rijeka and according to the Rulebook on student evaluation at the Faculty of Medicine in Rijeka. | |
| Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja): | |
| Attendance and active participation of students in classes. The student must, in agreement with the course leader, prepare seminar paper and make a PowerPoint presentation from a specific area related to oxidative stress. Students present their PowerPoint presentations in front of the leader and other colleagues. Every student is obliged to submit his seminar paper a PowerPoint presentation in electronic form. | |
| Obveze studenata: | |
| Nastavni plan: | |
| 1. Internet databases. | |
| Popis dopunske literature: | |
| 1. Selected scientific papers. | |
| Popis obvezne ispitne literature: | |
| molecules in oxidative stress and the pathogenesis of various diseases will be discussed. In addition, students will be able to explain how the organism is protected from their harmful effects. |) |