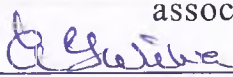


Federal State Budgetary Educational Institution of Higher Education  
«North-Ossetia State Medical Academy» of the Ministry of Healthcare of the  
Russian Federation

Department of biological chemistry

Approved  
Head of the department,  
associate professor

 A. E. Gurina  
" 27 " 08 2020 year.

Calendar-thematic plan of lectures

Discipline of biological chemistry

Course 2

Medical faculty

for the autumn semester 2020-2021 school year

№	date	The title of the topic	lecturer
1.	02.09.20	Introduction to biochemistry. Chemistry and structure of simple proteins.	associate professor A. E. Gurina
2.	16.09.20	Classification and structure of complex proteins.	associate professor A. E. Gurina
3.	30.09.20	Enzymes as biocatalysts. Mechanisms of action of enzymes.	associate professor A. E. Gurina
4.	14.10.20	Regulation of enzyme activity. Medical aspects of enzymology.	associate professor A. E. Gurina
5.	28.10.20	Lipid structure, fat-soluble vitamins. Lipids of biological membranes, mechanisms of signal transmission to the cell.	associate professor A. E. Gurina
6.	11.11.20	Introduction to metabolism. Biological oxidation. Reactive oxygen species and their decontamination.	associate professor A. E. Gurina
7.	25.12.20	Common pathways of catabolism. Krebs cycle.	associate professor A. E. Gurina

8.	09.12.20	Carbohydrate metabolism. Processes of digestion and absorption of carbohydrates. Glycolysis, glycogenolysis.	associate professor A. E. Gurina
9.	23.12.20	Aerobic oxidation of glucose. The pentose cycle, its biological significance.	associate professor A. E. Gurina
10.	20.01.21	Regulation of glucose blood level. Disorders of carbohydrate metabolism.	associate professor A. E. Gurina

Head of the department  
associate professor

A. E. Gurina  
"27" 08 2020 year.