

AMENDMENTS AND CHANGES TO THE CURRICULUM IN THE EDUCATIONAL DISCIPLINE «BIOLOGICAL CHEMISTRY» for the specialty 7-07-09111-01 «General Medicine»

for 2026/2027 academic year

Amendments and changes	Basis/Reason
1. Use in the educational process as the basic (main) literature: - Биологическая химия = Biological Chemistry: учебное пособие/ А.Д. Таганович, А.В. Колб, Н.Н. Ковганко [и др.]; под ред. А.Д. Тагановича. - Минск: Новое знание, 2025. - 356 с.	Department meeting (protocol # 12 of 15.05.2026)
2. The practical skills has been changed: students will evaluate biochemical blood and urine tests in patients using computer testing.	Department meeting (protocol # 12 of 15.05.2026)
3. The topic "Blood Biochemistry. Physicochemical Properties of Blood" has been supplemented with data on: - Changes in plasma urea and creatinine levels in patients with traumatic brain injury. - The effect of mometasone and nortriptyline on the production of IL-6, 8, 17A, interferon γ, and TNF-α by mononuclear cells in the presence of a stimulated immune response in vitro. - Potential for the use of protein kinase inhibitors to reduce the inflammatory response in allergic rhinitis. - Expression of the CD44 receptor on lymphocytes, monocytes, and granulocytes in the peripheral blood of patients with COPD. 4. The topic "Matrix biosyntheses (synthesis of DNA, RNA, and proteins)." The sections "Modern Methods of Molecular Biology," "Enzymes," and "Structural Organization of Proteins" have been supplemented with data on (about): - Molecular mechanisms of DNA repair and the impact of tumor suppressor gene mutations on the development and treatment of human cancer. - Mutational resistance of PARP1 inhibitors in small cell lung cancer. 5. The section "Biochemistry of Hormones" has been supplemented with data on (about): - The impact of thyroid hormones on the development of neurodegeneration pathogenesis.	The acts of introduction of the research results to educational process

The curriculum is revised and approved at the department of biological chemistry meeting (protocol # 12 of 15.05.2026)

Head of the Department of Biological Chemistry

A.D. Taganovich

APPROVED

Dean of the Faculty of International Students

O.S. Ishutin