

DEPUTY EDITOR-IN-CHIEF'S PREFACE TO ISSUE 3, 2026

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Dear colleagues!

What is a scientific article? It is not only a logically complete, structured authorial work devoted to a specific scientific problem, phenomenon, research method, etc. It is a means of conveying scientific knowledge, experience, and the efforts of entire groups of scientists, presented in a concise form and intended for familiarization, critical analysis, and application in further work by the scientific community and practicing specialists. The summer issue of the journal *Acta Biomedica Scientifica* includes experimental studies to which we would particularly like to draw the readers' attention.

Two papers are devoted to tuberculosis research, a pressing problem for many regions. A team of authors from Moscow (**Reshetnikov M.N. et al.**) presented a new perspective on the alimentary route of tuberculosis infection using a rabbit model. The second study, also conducted by a team from Moscow (**Zaitseva A.S. et al.**), performed a comparative analysis of the characteristics of macrophage interactions with antigens of tuberculous and non-tuberculosis mycobacteria *in vitro*. More detailed results can be found in the relevant section of the journal.

Emotional overeating has long been considered one of the foremost problems of the 21st century. However, some neurohormonal mechanisms in the pathogenesis of this pathological process remain obscure. Authors from Saint Petersburg (**Dedanishvili N.S. et al.**) investigated the dose- and time-dependent effects of the dual GIP/GLP-1 receptor agonist Tirzepatide on emotional overeating in a rat model of intracranial self-stimulation. The study demonstrated that the drug exerted an effect upon repeated administration, manifesting as a reduction in food intake on days 3 and 7 of the experiment.

The pediatrics section proved to be equally interesting. A team of authors from Novosibirsk (**Izyumov A.O. et al.**) analyzed the course of chronic adenoiditis in children aged 3-6 years who received probiotic support. Probiotics demonstrated efficacy in alleviating breathing difficulties and sleep disturbances.

In Voronezh (**Bavykina I.A. et al.**), the dynamics of intestinal fatty acid-binding protein (I-FABP) and Claudin-2 in the blood serum of children during the first 24 months of life were studied. According to the results, the interpretation of these markers requires consideration of age and gestational age.

A team of researchers from Irkutsk (**Gomellya M.V. et al.**) presented an interesting clinical case of hereditary hypofibrinogenemia in a pediatric outpatient setting. The case highlights the importance of more thorough investigation into inherited coagulopathies in patients with abnormal coagulation tests, even when there are no clinical symptoms present.

Fields such as oncology and COVID-19 continue to enrich the medical knowledge base with new methods and data. The authors from Irkutsk (**Shcherbatykh A.V. et al.**) investigated the use of low-intensity photodynamic therapy for stage I basal cell carcinoma. This development not only improves the efficacy of cancer treatment, but also significantly reduces healthcare costs for certain types of cancer.

The impact of the COVID-19 pandemic on the dynamics of pediatric hospitalizations for acute intestinal infections, including rotavirus infection, in Chita, was studied by a team from the Trans-Baikal Territory (**Andreeva E.V. et al.**), and the prediction of risk of post-COVID disorder using NLRP3 and GSDMD markers

in patients with bronchial asthma who recovered from COVID-19, was presented by authors from Vladivostok (**Lobova T.G. et al.**). Both studies are of interest to a wide readership.

We would like to highlight two particularly significant studies. The first study was conducted in cooperation between several leading educational institutions in Penza, Grozny, Astrakhan, and Palermo, Italy (**Zenin O.K. et al.**), who compared the outcomes of predicting the diameters of daughter segments of coronary artery bifurcations under normal conditions using graph neural networks and well-known numerical modeling methods. The second study was conducted by three prominent research institutions in Yakutsk and Moscow (**Prokopyev E.S. et al.**) with regard to implementing a two-component model for the clinical and radiological screening of pulmonary tuberculosis in the thinly populated area of the Republic of Sakha (Yakutia). Both studies will contribute significantly to the quality and efficiency of data processing, even in remote areas.

*Another significant event occurred during the preparation of this issue of the journal. On May 31, Professor **Oleg L. Lakhman**, a Corresponding Member of the Russian Academy of Sciences, Doctor of Medical Sciences, Professor, and Director of the East Siberian Institute of Medical and Environmental Research, turned 60 years old! On behalf of all colleagues and the editorial board, we would like to extend our heartfelt congratulations to Oleg Leonidovich on this milestone occasion. We wish him excellent health and continued success in all his professional pursuits.*

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