



Belarusian State University  
of Informatics and Radioelectronics  
R&D Department

## Results of BSUIR participation

at the International Exhibition "ZDRAVOOKHRANENIE-2024"  
(within the frames of the International Scientific and Practical Forum  
"Russian Healthcare Week 2024")

December 2–6, 2024

Moscow, Russia

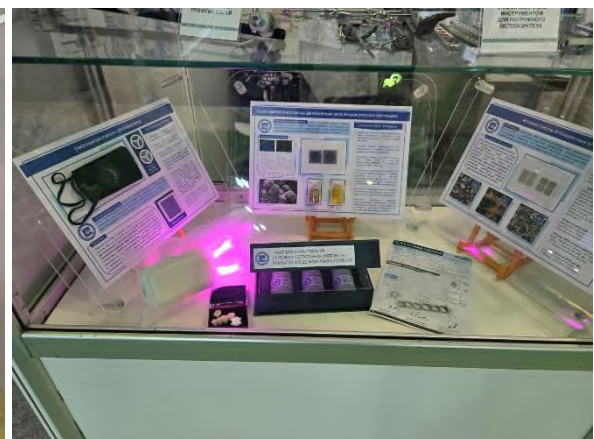
The forum traces its history back to the Healthcare exhibition, which has been held since 1974 and is one of the oldest medical forums in Europe, as well as one of the country's main federal congress and exhibition events in the field of healthcare.

At the International Exhibition "ZDRAVOOKHRANENIE-2024", the Belarusian State University of Informatics and Radioelectronics presented innovative developments in the field of plasmonics for use in medicine:

- Biodegradable nanoparticles for the visualization and analysis of biological objects using photoluminescence and Raman spectroscopy.
- Set for forming plasmonic coating on the surface of dental implants for photostimulated delamination of biofilms.
- Self-cleaning porous filters with plasmonic and photocatalytic properties for face masks.
- Photonic sensors operating on the effect of surface-enhanced Raman scattering (SERS).

*You can learn more about the developments from [the announcement](#).*

[About the developer](#)



The mentioned developments attracted the interest of specialists from a number of Russian and Chinese organizations. During the exhibition, negotiations were held with representatives of the National Research University of Electronic Technology MIET, PHOTON-BIO LLC, PROTON Plant JSC, the Joint Institute for Nuclear Research (JINR) and the testing laboratory of the RDRC BIOLIFE on the development of scientific cooperation, joint research execution, consulting activities and publication of scientific literature, as well as the development of cooperation in other areas of mutual interest. Following the negotiations with the representatives of these organizations, protocols of intent were signed, and an agreement was reached on the visit of a JINR delegation to BSUIR in December 2024 - February 2025.



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