



Olga A. Tarasova graduated from the Pirogov Russian State Medical University in 2008, and received the PhD degree in Mathematical Biology and Bioinformatics from the Institute of Biomedical Chemistry (IBMC), Moscow, Russia in 2012.

Currently, she is a Head of the Laboratory for Big Data Analysis in Digital Pharmacology (Department of Bioinformatics) of IBMC. This novel Young-Scientists Laboratory is established in 2024 for the purpose of big data analysis in medical virology for the search of effective and safe antiviral compounds and optimization of therapy of infectious diseases supported by the Program of Basic Scientific Research in the Russian Federation for the long-term period (2021-2030) (project No. 124050800018-9).

O.A. Tarasova is the author/co-author of over seventy papers published in peer reviewed journals and several book chapters; 38 publications are indexed by Web of Science Core Collection, 42 are indexed by Scopus.

Olga Tarasova was the Leader of the projects supported by the Russian Foundation of Basic Research "Fighting drug resistance to HIV-1 reverse transcriptase inhibitors" (grant No. 16-34-60187) and Russian Science Foundation "Analysis of HIV resistance mechanisms to HIV reverse transcriptase and protease inhibitors using bio- and chemoinformatics approaches" "Analysis of the interactions between HIV and human organism considering prescribed HIV/AIDS therapy" (grant No. 19-75-10097), which were performed in 2016-2022. In the framework of these projects, the web platform hiv-host [<https://www.way2drug.com/hiv-host/>] was developed, which provides a set of computational methods and web services for the analysis of interactions between HIV and the human body, as well as the host response to HIV infection.

In 2024 Olga Tarasova was awarded with the First-Degree Prize for the Best Investigation at the Forum of Young Scientists dedicated to the 300th anniversary of the Russian Academy of Sciences and the 80th anniversary of the Academy of Medical Sciences of the USSR (RAMS) "Medical Science: yesterday, today, tomorrow". The prize was awarded for the study "Analysis of HIV-host interaction using bioinformatics methods" in the section "Innovative methods and technologies".

Her research interests include bioinformatics, cheminformatics, computer-aided drug design, virology, analysis of virus-host interactions, text & data mining.