Polina Savosina

Laboratory of Structure-Function Based Drug Design | Institute of Biomedical Chemistry | Moscow, Russia

EDUCATION

Polina Savosina received a M.S. (medicinal–cybernetics) from the faculty of biomedicine of the Pirogov Russian National Research Medical University in 2019. In the same year she started her PhD research in mathematical biology and bioinformatics at the Institute of Biomedical Chemistry (IBMC).

RESEARCH PROJECTS

Since 2016 she works at the Laboratory of Structure-Function Based Drug Design of the IBMC. During her work Polina Savosina took part in the research on Big Data analysis to discovery anti-HIV compounds. Also, she participated in the study on drugs repositioning for the treatment of COVID-19.

The main focus of her research is the analysis of the worldwide approved drugs, its pharmacodynamics, pharmacokinetics and therapeutic indications. Polina Savosina and co-authors created the first database of pharmaceutical substances approved for medicinal use in 71 countries.

SCIENTIFIC INTERESTS

Cheminformatics, Approved Drugs Database, Drug Research and Development.

SELECTED PUBLICATIONS

- *Savosina, P. I., Druzhilovskiy, D. S., Poroikov, V. V.* (2021). COVID-19: Analysis of Drug Repositioning Practice. Pharm. Chem. J., 54(10), 989–996.
- *Druzhilovskiy, D.S., Stolbov, L.A., Savosina, P.I., Pogodin, P.V., Filimonov, D.A., Veselovsky, A.V., Stefanisk,o K., Tarasova, N.I., Nicklaus, M.C., Poroikov, V.V.* (2020) Computational Approaches to Identify a Hidden Pharmacological Potential in Large Chemical Libraries, Superfri., 7(3), 57-76.
- *Savosina, P. I., Stolbov, L. A., Druzhilovskiy, D. S., Filimonov, D. A., Nicklaus, M. C., Poroikov, V. V.* (2019). Discovering new antiretroviral compounds in "Big Data" chemical space of the SAVI library. Biomed. Khim., 65(2), 73–79.