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Dr. Sci. Biol., Ph.D., Assoc. Prof.

Head of Laboratory for Information Technology in Pharmacology and Computer Modeling of Drugs for Research Center of Innovative Medicines of Volgograd State Medical University;

Professor of Chair for Pharmacology and Bioinformatics of Volgograd State Medical University.

Areas of scientific interest: QSAR, molecular modeling, docking, computer-aided drug design, pharmacology, medicinal chemistry, bioinformatics, chemoinformatics, systemic biology, network pharmacology, directed searching multi-target and poly-functional drugs, data mining, machine learning, artificial neural networks, artificial intelligence, supercomputer calculations and technologies.

Created a new direction in computer-aided drug design – the hierarchical consensus approach for searching new drugs with multi-target multifunctional systemic action. The main developer of a number of software packages for search for new pharmacological substances: such as IT Microcosm, Microcosm BioS, Microcosm ADMET, etc. Widely uses in research artificial neural network technologies and supercomputer calculations. Develops new architectures of artificial neural networks that take into account the special nature of chemo-biological input data.

Author of 482 publications with a total volume of 3078 pages, including:

- 5 monographs;
- 15 book chapters;
- 116 articles in peer-reviewed journals, including:
 - 84 articles in journals indexed by WoS, Scopus and CAS, including:
 - 18 articles in Q1 journals;
 - 4 articles in Q2 journals;
 - 110 articles in journals from the HAC list;
- 22 articles in collections of materials and proceedings of universities;
- 69 articles in collections of materials and proceedings of international, all-Union and all-Russian conferences;
- 214 abstracts of reports at international, all-Union and all-Russian conferences, including 36 invited reports;
- 9 author's certificates;
- 5 patents;
- 1 certificate of state registration of a computer program;
- 15 certificates of state registration of a database;
- 1 record of 3D structure registration in the Cambridge Structural Database.

Laureate of the Lenin Komsomol Prize in Volgograd Region 1988, the Volgograd Region Government Prize 2008, the Volgograd Region Government Prize 2012.

Supervised 7 graduation theses, 6 PhD theses and 2 DrSci theses.

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