

CURRICULUM VITAE



Vladimir Vasilievich Poroikov (Poroykov)

Born: 1 August 1951, Krolevetz, Sumy Region, USSR

Married, three children.

EDUCATION

Certificate of Completion of the Training Workshop “Prospects for the development of Professional Educational Skills”, (The Pirogov Russian National Research Medical University, Moscow, 2010), **Certificate of Completion** of the Training Workshop “Fundamentals of Intellectual Assets Management” (Licensing Executives Society, Chicago, USA, 2007); **Manager Diploma** (Iskra Business School, Tokyo, Japan, 1993); **M. Sc. Diploma in Physics** (Department of Physics, Moscow State University, 1974).

SCIENTIFIC DEGREES

Professor in Mathematical Biology and Bioinformatics (Institute of Biomedical Chemistry, Moscow, 2013); **Professor in Biochemistry** (Institute of Biomedical Chemistry, Moscow, 2000); **D.Sc. in Pharmacology** (National Research Center for Biologically Active Compounds, Staraya Kupavna, Moscow Region, 1995); **Ph.D. in Biophysics** (Department of Biology, Moscow State University, 1981).

APPOINTMENTS

Principal Researcher, at the Institute of Biomedical Chemistry (IBMC, Moscow), since 1st July 2016; **Head of Bioinformatics Department** at the IBMC, since 2008; **Head of Laboratory** for Structure-Function Based Drug Design at the IBMC, since 1995; **Professor** of Medical & Biological Faculty of Russian State Medical University, 1996-2015; **Vice-Director (Research)** at the IBMC, 1998-2008; **Head of Department, Head of Laboratory, Senior Researcher, Junior Researcher, Engineer**, National Research Center for Biologically Active Compounds (former name - Research Institute for Biological Testing of Chemical Compounds, Staraya Kupavna, Moscow Region), 1974-1995.

TEACHING EXPERIENCE

In 1996-2015 Professor of Medical & Biological Faculty of the Pirogov Russian National Research Medical University. Special course "Bioinformatics and Computer-Aided Drug Discovery" for graduate students, special course "Current Trends in Biomedical Chemistry" for undergraduate students.

Supervision: 1 Doctor of Sciences, 14 PhDs; 18 Graduate Students, 2000-2017.

INTERNATIONAL PROJECTS

Exploration of Chemical-Biological Space via a Very Large Database of Synthesizable Compounds to Discover Novel Anti-HIV Agents (RFBR/NIH grant No. 17-54-3001517-NIH_A, jointly with NCI/NIH, USA), 2017-2019. **Co-PI.**

A Knowledge Based Approach to Drug Repurposing for Socially Important and Rare Diseases (RSCF-DST grant No. 16-45-02012, jointly with CSIR – Indian Institute of Chemical Technology), 2016-2018. **Co-PI.**

Integrated Estimation of Xenobiotics Toxicity Taking into Account Their Metabolism in a Human by Isoforms 3A4, 2C9, 2C19, 2D6, 1A2 of Cytochrome P450 (RSCF grant No. 14-15-00449), 2016-2018. **TL (Team Leader).**

Computer-Aided Design and Biological Testing of Novel Compounds towards Prevention and Cure of HIV/AIDS (RFBR/NIH grant No. 13-04-91455-NIH_A, jointly with NCI/NIH, USA), 2013-2014. **Co-PI.**

Computer-Aided Design of New Biologically Active Compounds (RFBR/UkrFBR grant No. 13-04-9042513, jointly with Lviv Polytechnics University, Ukraine), 2013-2014. **Co-PI.**

Virtual Screening and Biological Testing of Anti-HIV Microbicides (RFBR/NIH grant No. 12-04-91445-NIH_A, jointly with NCI/NIH, USA), 2012-2012. **Co-PI.**

Computer-Aided Study of Hidden Potential in Traditional Indian Medicine and Its Pharmacological Validation. (RFBR grant No. 11-04-92713-IND_a, jointly with Department of Pharmaceutical Sciences and Drug Research, Punjabi University, India), 2011-2012, **Co-PI.**

Optimization of the Methods for Identification of Gene Clusters Directing the Biosynthesis of Secondary Metabolites in Bacteria. (International Foundation of Technology and Investment grant No. RU.55229907.00160, jointly with Norwegian University of Science and Technology), 2011-2011, **PI.**

OpenTox – An Open Source Predictive Toxicology Framework (OpenTox). (European Commission FP7 grant No. 200787, jointly with Technical University of Munich, Germany; Istituto Superiore di Sanita, Italy; Douglas Connect, Switzerland; EPA, USA; a.o.), 2008-2011. **TL.**

Development and Application of QSAR Rodent Toxicity Models for Chemical Compounds. (ISTC grant No. 3777, jointly with IPAC RAS), 2008-2011. **Co-PI.**

From Gene Regulatory Networks to Drug Prediction (Net2Drug). (European Commission FP6 grant No. LSHB-CT-2007-037590, jointly with BioBase, Germany; National Public Health Institute, Finland; Progenika Biopharma S.L., Spain; Karolinska Institute, Sweden; a.o.), 2007-2010. **TL.**

Computer-Aided Finding of New HIV-1 Inhibitors. (ISTC grant No. 3197, jointly with NCI/NIH, USA), 2005-2009. **PI.**

Prediction of Biological Activity on the Customer's Requests. (on request of Teva Pharmaceuticals, Israel). 2007-2007. **PI.**

Computer-Aided Prediction of Drug-Like Compounds Biotransformation in the Human Organism. IFTI grant No. DPG.55229907.00190 (on request of KIST, Korea), 2006-2007. **PI.**

Development of Computer Program BIOGENERATOR for Generation of Virtual Macrolides Libraries Based on *In Silico* Manipulations with Polyketides Synthases. (on request of Sinvent AS, Norway), 2004-2005. **PI.**

Building a Comprehensive Model of Mammalian Cell-Cycle Regulatory Network in Normal and Pathological States to Predict Potential Anticancer Agents for Key Target Molecules. (INTAS grant No. 03-55-5218, jointly with BioBase, Germany; Institute of Biomedical Technologies, Italy). 2004-2006, **TL.**

Computer-Assisted Combinatorial Design, Synthesis and Testing of New Cognition Enhancers, Anxiolytics and Anticonvulsants. (INTAS grant No. 00-0711, jointly with Aristotelian University of Thessaloniki, Greece; Liverpool John Moore's University, UK; Leuven University, Belgium; a.o.), 2001-2003. **TL.**

Computer-Assisted Mechanism-of-Action Analysis of Large Databases Including 250,000 Chemical Compounds Registered by NCI. (CRDF grant No. RC1-2064, jointly with NCI/NIH, USA), 2000-2001. **Co-PI.**

OTHER ACTIVITIES

Member of the American Chemical Society (Chemoinformatics Division), since 2002; Member of Society of Medicinal Plant and Natural Product Research, since 2015; Chairman of the Russian Section of The Cheminformatics and QSAR Society, 2006-2015; **Editorial Board Member** of *Biology Direct*, *SAR and QSAR in Environmental Research*, *International Journal of Quantitative Structure-Property Relationships*, *Biomedical Chemistry*, *Pharmaceutical Chemistry Journal*; **Chairman of the Organizing Committee** of the 20th European Symposium on Quantitative Structure-Activity Relationships (Saint Petersburg, Russia, August 31st – September 4th, 2014), 4th International Symposium “Computational Methods in Pharmacology and Toxicology Integrating Internet Resources” (Moscow, Russia, 1-5 September, 2007), **Co-Chairman** of the Symposium “Bioinformatics and Computer-Aided Drug Discovery” at the Annual Russian National Congresses "Man and Medicines", Moscow (1995-2017); **Chairman of the Organizing Committee** of 1st, 2nd, 4th and 5th International Conferences “Genomics, Proteomics and Bioinformatics for Medicine” (2002, 2004, 2008, 2010); **Scientific Advisory Board Member and/or Keynote/Invited/Oral Speaker of the:** International Congress “Biotechnology: State of the Art and Perspectives” (Moscow, Russia, February 20-22, 2017); 3rd Hammerman Conference on Medicinal Plants (St.-Petersburg, Russia, 31st January - 3rd February, 2017); 5th Congress of Russian Biochemists (Sochi-Dagomys, October 4-9, 2016); XX Mendeleev Congress on General and Applied Chemistry (Ekaterinburg, Russia, September 26-30, 2016); 21st European Symposium on Quantitative Structure-Activity Relationships (Verona, Italy, September 4th-8th, 2016), 10th International Multiconference on Bioinformatics of Genome Regulation and Structure\Systems Biology (Novosibirsk, Russia, August 29 – September 2, 2016); 5th Chemoinformatics Strasbourg Summer School, Strasbourg, France, June 27th – July 1st, 2016; NIH-RFBR Collaborative Research Partnership: Meeting to Identify Scientific Priorities for U.S.-Russia Research Collaboration in the Prevention and Treatment of HIV/AIDS and Co-Morbidities, St.-Petersburg, Russia, April 13-15, 2016; Mathematical Modelling Workshop “Current and Future Perspectives of Micro- and Macro Modelling of Infectious Diseases: From System Biology to Control and Dynamics”, Riga, Latvia, January 13-15, 2016; 2nd Russian Conference on Medicinal Chemistry (Novosibirsk, Russia, July 5-10, 2015); 8th International Symposium on Computational Methods on Toxicology and Pharmacology Integrating Internet Resources (Chios, Greece, June 21-25, 2015); 247th American Chemical Society National Meeting, Dallas, TX, USA, March 16-20, 2014; and others.

AWARDS

Gold medal "100 years to Professor A.N. Kost" awarded by the International Charitable Foundation "Scientific Partnership" for outstanding achievements in chemistry of heterocyclic compounds (2015), Acknowledgment of Russian Ministry of Education and Science of 20.05.2013 No. 16-1057, Acknowledgment of the Organizing Committee of Russian National Congress "Man and Drugs" (2013), Diploma of the International Foundation "Cultural Heritage" (2013), AstraZeneca Award for Winners of a Competition "Avangard of Knowledge - 2011", Diploma and Medal of the Six Moscow International Congress “Biotechnology: State of the Art and Prospects of Development” (2011), Gold Award of the International Foundation “Scientific Partnership” (2010), Diploma and Medal of the Fifth Moscow International Congress “Biotechnology: State of the Art and Prospects of Development” (2009), Diploma of Cambridge Biographic Institute (Leading Scientist in Bioinformatics and Computer-Aided Drug Discovery, 2005), Diploma of Russian Academy of Medical Sciences (2004), Special

Russian Academy of Sciences Award for Outstanding Russian Scientists (2001-2003), Gold Medal "For Scientific Partnerships" (2001), Medal "850 Years of Moscow" (1997).

PUBLICATIONS

Co-author of over 200 papers published in peer-reviewed journals and book chapters, 15 registered computer programs and databases, 12 non-open published reports in R & D of new pharmaceuticals.

h-index: 24 (Web of Science, core collection), 25 (Web of Science, all databases), 27 (Scopus), 36 (Google Academy).

More information: <https://scholar.google.ru/citations?user=F13hIJMAAAAJ&hl=ru>