

Ivan V Grishagin PhD

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EXPERIENCE

2015-present

National Center for Advancing Translational Sciences

Bioinformatician

Rockville, MD

- On-site liaison and bioinformatician.
- **NCATS BioPlanet**: integration and visualization of pathway maps; UI/UX design; oversight.
- **Inxight Drugs**: project oversight; data preparation; UI/UX design and development.
- Annotation of 50K chemical compounds: management, UI/UX, db design and specifications.
- Responsible for coordination and management of external collaborations.

2015-present

Rancho BioSciences

Bioinformatician

Rockville, MD

- R development: code refactoring, debugging, and optimization; building packages.
- Developed statistical methods and visualization tools for Protein Array Analyzer R package.
- **VBA development**: MS Excel add-ins for data curation; MS Word and MS PowerPoint macros.
- Data cleanup, harmonization, and alignment with standardized ontological vocabularies.
- Project management, architecture, and specifications; proposal preparation.

2014-2015

Queen's University Belfast, CCRCB

Research Fellow

Belfast, Northern Ireland

- Main project: repurposing FDA-approved drugs for blood cancer therapies.
- Developed a solution for automatic data processing of Illumina BeadArray output with R.
- Designed and completed a comprehensive screen of 760 FDA-approved drugs.

2010-2014

University of Southern California, School of Pharmacy

Research Assistant

Los Angeles, CA

- Determined high in vitro and in vivo anticancer efficacy of topographical mimetics of HIF1 α .
- Investigated uptake, toxicity, and in vivo anticancer efficacy of rhomboidal Pt(II) metallacycles.
- Designed and completed a screen of 105 compounds in a breast cancer cell line.
- Designed and developed a robust method to count live mammalian cells automatically.
- Supervised and taught undergraduate and junior graduate students.

SKILLS

- Programming and Data Analysis: R, VBA, Git, Python, ImageJ Macro Language, JavaScript, HTML5/CSS3, jQuery, Markdown, bash, Cypher, SQL, data mining and organization.
- Cell biology: viability and reporter assays, gene expression analysis, PCR, low-throughput screening, western blot, microscopy, flow cytometry and cell sorting, molecular cloning.
- In vivo testing: xenografts, IP/IV injections, in vivo imaging, histology.
- Chemistry: organic synthesis, NMR, HPLC, LC-MS, IR, UV-Vis, dynamic/static light scattering.
- Languages: English (Fluent), Russian (Native), German (Intermediate), French (Intermediate).

EDUCATION

University of Southern California, School of Pharmacy

Los Angeles, CA

PhD in Pharmaceutical Sciences (**GPA 3.91**), 2014.

Lomonosov Moscow State University, Department of Chemistry

Moscow, Russia

Diploma in Polymer Chemistry (**Summa cum Laude**, Gold Medal), 2008.