Ivan V Grishagin PhD

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EXPERIENCE

2015-present   *Bioinformatician*
Rancho BioSciences   **Rockville, MD**
- R development: code refactoring, debugging, and optimization; building packages.
- Implemented complex statistical methods and visualization tools into a Protein Array Analyzer R package; developed R-based pipeline for pathway integration and visualization.
- VBA development: MS Excel add-ins for data curation; MS Word and MS PowerPoint macros.
- Data cleanup, harmonization, and alignment with standardized ontological vocabularies.
- Sequencing, biosensor, biological assay data analysis and visualization.
- Project management, architecture, and specifications; proposal preparation.
- On-site liaison and bioinformatician at NIH NCATS.

2014-2015   *Research Fellow*
Queen's University Belfast, CCRCB   **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.
- Analyzed response of leukemia to salinomycin at the transcription level.
- Used connectivity mapping to identify approved drugs efficacious against drivers of leukemia.
- Designed and completed a comprehensive screen of 760 FDA-approved drugs.

2010-2014   *Research Assistant*
University of Southern California, School of Pharmacy   **Los Angeles, CA**
- Determined high in vitro and in vivo anticancer efficacy of topographical mimetics of HIF1α.
- 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, ImageJ Macro Language, JavaScript, HTML5/CSS3, Python, Markdown, bash, Cypher, SQL, data mining and organization.
- Cell biology: viability assays, gene expression analysis, western blot, protein array analysis, flow cytometry, molecular cloning, reporter assays high-throughput screening.
- 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.
Dissertation: "Small Molecule Modulators of HIF1α Signaling."

Lomonosov Moscow State University, Department of Chemistry   **Moscow, Russia**
Diploma in Polymer Chemistry (**Summa cum Laude**, Gold Medal), 2008.
Thesis: "Formation of Interpolyelectrolyte Complexes in Organic Media of Low Polarity".