Yesol Sapozhnikov

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Education

Current	PhD Candidate in Bioinformatics and Computational Biology University of Idaho, Moscow, ID Major Professor: Craig Miller, PhD Dissertation topic: Investigating the Influence of Capsid Protein Stability on Viral Fitness Using Systematic, High-throughput Approaches
2017	MS, Biomedical Science Cedars-Sinai Medical Center, Los Angeles, CA Advisor: Mark Goodarzi, MD, PhD Thesis: Statistical Genetic and Bioinformatic Investigation of Lipoprotein Lipase Activity in Mexican Americans
2012	MS, Nursing University of California, Los Angeles, CA
2009	BS, Biochemistry University of California, Los Angeles, CA

Professional Experience

Current	Research Assistant The Idaho Office of Underserved and Rural Medical Research WWAMI Medical Education Program University of Idaho, Moscow, ID
2018-2024	Research Assistant Wichman-Miller Lab Department of Biological Sciences University of Idaho, Moscow, ID
2014-2018	Education Program Coordinator Medical-Surgical Nursing Services Cedars-Sinai Medical Center, Los Angeles, CA
2012-2014	Clinical Nurse II, Hematology/Oncology/Bone Marrow Transplant Medical-Surgical Nursing Services Cedars-Sinai Medical Center, Los Angeles, CA
2004-2011	Licensed Vocational Nurse Various acute care and long-term care facilities in Los Angeles, CA

Teaching Experience

2024	Research Methods: *Screening and Diagnostic Studies*
2022	Data Carpentry: *Data Wrangling and Processing for Genomics* Software Carpentry: *What they forgot to teach you about R*
2021	Software Carpentry (helper): *Unix, Git, and Programming (R/Python) for Novices*
2015-2018	Basic Electrocardiography Course for Medical-Surgical Nurses Medical-Surgical Skills Lab Stem Cell Transplant Course: *Introduction to Immune System* Chemotherapy Practicum: *Chemotherapy Drugs* Oncology Core Curriculum Review: *Carcinogenesis* Medical-Surgical Nursing Certification Review: *Cardiovascular System Disorders; Immune System Disorders*

Publications

Peer-reviewed Publications:

Sapozhnikov, Y., Patel, J. S., Ytreberg, F. M., & Miller, C. R. (2023). Statistical modeling to quantify the uncertainty of FoldX-predicted protein folding and binding stability. *BMC Bioinformatics*, *24*(1), 426.

Faber, M. S., Van Leuven, J. T., Ederer, M. M., **Sapozhnikov, Y.**, Wilson, Z. L., Wichman, H. A., Whitehead, T. A., & Miller, C. R. (2020). Saturation Mutagenesis Genome Engineering of Infective ΦX174 Bacteriophage via Unamplified Oligo Pools and Golden Gate Assembly. *ACS Synthetic Biology*, *9*(1), 125–131.

Manuscripts in Preparation:

Tovissodé, C. F., **Sapozhnikov, Y.**, & Miller, C. R. A multistage binomial model with measurement errors: application to protein viability prediction.

Sapozhnikov, Y., Tovissodé, C. F., Van Leuven, J. T., Patel, J. S., & Miller, C. R. Modeling the relationship between the capsid spike protein stability and fitness in ϕX174 bacteriophage.

Conference Presentations:

Sapozhnikov, Y., Patel, J. S., Ytreberg, F. M., & Miller, C. R. (2024). Statistical modeling to quantify the uncertainty of FoldX-predicted protein folding and binding stability. *Society for Industrial and Applied Mathematics* (Poster)