

ERIC ZHOU



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Work and Research Experience

Research Associate

02/2016 - Present

Gilead Biosciences: *Foster City, California*

- Performed phenotyping on patient isolates gathered from HCV clinical trials for Voxilaprevir, Velpatasvir and Sofosbuvir development, which supported NDAs and iVSRs for approval for novel drug use globally.
- Maintained mammalian cell lines as well as stable cell lines for transient and stable transfection.
- Trouble-shooted non-replicating transfections either through primer manipulations or nucleotide purification.
- Designed and ordered primers for site-directed mutagenesis (SDM) to incorporate the mutation of interest into the amplicon.
- Analyzed the effects of NS3 and NS5b mutations on HCV protease and RNA polymerase inhibitors by using data gathered from patient isolates and/or SDM samples.

Lab Student Researcher

03/2014 - 12/2014

UCLA Virology Lab: *Los Angeles, California*

- Discovered and isolated a novel Mycobacteriophage from LA soil in attempt to find a benign specimen with genetic similarities to *M. Tuberculosis*.
- Performed wet lab selection of the phage and subsequent analysis of structural components to discover its specific physical characteristics.
- Isolated DNA from the phage and sent to the UCLA Genotyping and Sequencing core for 454 DNA pyrosequencing.
- Annotated the 70k BP genome for ORFs, genes and putative functions using bioinformatics tools to discover its specific genomic characteristics.

Student Research Project Genome Curator

01/2015 - 06/2015

UCLA MIMG Computer Lab: *Los Angeles, California*

- Curated Bacteriophage genomes for publication in GenBank and other databases.
- Assessed gene potentials, locations, and parsed ORFs into digitally read format (FASTA) with corresponding gene lists.
- Compared genomes with other published genomes and visualized with a phylogenetic tree and dot plots.



Education

University of California - Los Angeles

09/2011 - 06/2015

Bachelor of Science

Major: Microbiology, Immunology, and Molecular Genetics

Publications

Mycobacteriophage Horchata

- Published to Phagesdb.org
- Pending publication to NCBI Genbank



Skills

Equipment Lab Knowledge and Safety

- Primer Design and PCR Amplification
- SDS-Page, E-Gel, Gel Electrophoresis and Extraction
- In-fusion Cloning, Transformation, Bacterial Selection
- Midi/Mini DNA Extraction, Linearization, and Transcription
- Mammalian Cell Culture Techniques and Media Preparation
- Microscopes (Electron, Light, Phase-Contrast)
- Transient and Stable Transfection
- Site-Directed Mutagenesis

Other Relevant Skills

- Microsoft Office XP (Word, Excel, PowerPoint)
- Data Analysis (Graphpad Prism, NMR, EC50)
- Chemical Chromatography Procedures (TLC, Affinity)
- Bioinformatics Tools (Vector NTI, BLAST, Phylogenetics)
- Programming Languages: Python, Ruby, VBA
- Windows and Mac with WPM of 75+
- Adobe Photoshop, InDesign, Illustrator
- Fluent in three languages (Chinese, Spanish, English)