IAN R. HUMPHREYS

226 Nash Hall, 2828 SW Campus Way, Corvallis, OR 541.740.5840 • ianhumph@uw.edu

EDUCATION

Matriculating Ph.D., Molecular & Cellular Biology

University of Washington, Seattle, WA

2019 M.S., Microbiology

2018 B.S. (Cum Laude), Microbiology

Oregon State University, Corvallis, OR

EXPERIENCE

2017 - 2019 Graduate Student Researcher

Dr. Thomas J. Sharpton, Computational Microbiology

Oregon State University, Department of Microbiology

- Quantifying the accuracy with which DNA sequencing data reconstructs the evolutionary history and diversity of microbiome samples through phylogenetic simulations.
- Proficient in: Unix/Linux environment, Perl and R.

2015 - 2017 Undergraduate Student Researcher

Dr. Jane E. Ishmael, Natural Products Pharmacology

Oregon State University, Department of Pharmaceutical Sciences

- Analyzed cell death signaling in response to marine natural products.
- Screened small molecule libraries in search of new compounds of interest.
- Proficient in: cell culture, dose-response assays, and western blotting.

PUBLICATIONS

Humphreys IR and Sharpton TJ. The Accuracy of Phylogenies Assembled from 16S rRNA Sequences. *Manuscript in preparation*.

- 3. Gaulke CA, Martins ML, Watral V, **Humphreys IR**, Kent ML, and Sharpton TJ. A Longitudinal Assessment of Host-Microbe-Parasite Interactions Resolves the Zebrafish Gut Microbiome's Link to Pseudocapillaria tomentosa Infection and Pathology. *Microbiome*, **2019**, 7:10.
- 2. Gaulke CA, Arnold HK, **Humphreys IR**, Kembel SW, O'Dwyer JP, and Sharpton TJ. Ecophylogenetics Clarifies the Evolutionary Association between Mammals and their Gut Microbiota. *mBio*, **2018**, <u>9:e01348-18</u>.
- 1. Wan X, Serrill JD, **Humphreys IR**, Tan M, McPhail KL, Ganley IG, and Ishmael JE. ATG5 Promotes Death Signaling in Response to the Cyclic Depsipeptides Coibamide A and Apratoxin A. *Marine Drugs*, **2018**, 16(3), 77.

HONORS & AWARDS

2018 - 2019	Mark H. Middlekauf Research Scholarship
2018 - 2019	Virginia Welch Good Samaritan Regional Medical Center Scholarship
2018	Dr. Nicholas R. Tartar Graduate Student Summer Research Fellowship
2017	OSU College of Pharmacy Summer Undergraduate Research Fellowship
2016 - 2017	OSU Department of Microbiology and College of Pharmacy Joint Research Funding
2016	OSU College of Pharmacy Summer Undergraduate Research Fellowship

SCIENTIFIC PRESENTATIONS

2019	The Accuracy of Phylogenies Assembled from 16S rRNA Sequences American Society of Microbiology, San Francisco, CA [Poster]
2019	Insights from Digital Microbial Forests: Identifying Study Parameters that Impact the Accuracy of 16S rRNA Phylogenies OSU Department of Microbiology, Corvallis, OR [Talk]
2018	The Accuracy of Phylogenies Assembled from 16S rRNA Sequences OSU Center for Genome Research and Biocomputing Conference, Corvallis, OR [Poster]
2018	Experimental Parameters to Improve the Fidelity of 16S Phylogenies OSU Center for Genome Research and Biocomputing Conference, Corvallis, OR [Poster]
2017	Use of a Cell-Based Bioluminescent Assay to Detect Small Molecule Inhibitors of the Mammalian Secretory Pathway OSU College of Pharmacy Undergraduate Symposium, Corvallis, OR [Talk]
2016	Analysis of Cell Death Signaling in Response to Marine Natural Product Coibamide A OSU College of Pharmacy Undergraduate Symposium, Corvallis, OR [Talk]

TRAINING CERTIFICATES

2017 - 2019 Center for Genome Research and Biocomputing 5 week workshops Oregon State University, Corvallis, OR

- RNAseq I & II
- Python I & II (python 2.7)
- Command-line Data Analysis
- Introduction to Unix/Linux
- Introduction to R and RStudio

SERVICE, MEMBERSHIP, & VOLUNTEERING

2019 -	American Society of Microbiology
2018 - 2019	OSU Microbiology Graduate Student Association
2017 - 2019	CASA Voices For Children, Court Appointed Special Advocate
2017 - 2018	Synapse (VP Outreach)
2017	OSU Botany and Plant Pathology Promotion and Tenure Committee
2016 - 2018	OSU Microbiology Student Association (Undergraduate)
2015 - 2017	Good Samaritan Regional Medical Center Volunteer