

ROSHAN NORONHA

www.roshannoronha.com

roshananoronha@gmail.com

github.com/roshannoronha

EXPERIENCE

CLEAN TECH INTERN – Langara College

May 2017 – April 2018

- + Designed and ran a one-year experiment to determine the feasibility of growing mealworms on a waste food diet
- + Supervised a team of seven students in proper lab technique, data collection procedures and presentation skills
- + Tested the effectiveness of biochar on the removal of nitrogen and ammonia in waste water

CONTENT MANAGER – Vancouver Biotechnology Venture Association

March 2015 – February 2017

- + Collaborated with the National Research Council of Canada and Langara College senior executives to obtain funding and facilities for new members
- + Implemented a website to market VanBVA as the go to hub for potential entrepreneurs
- + Set up informational interviews with leaders in the biotechnology industry to provide additional value to our members

JUNIOR SOFTWARE ENGINEER – GenomeDx Biosciences

May 2014 – December 2014

- + Collaborated with researchers at the University of Miami and GenomeDx to validate prognostically significant biomarkers
- + Utilized visualizations to validate any significant relationships between immunohistochemical data and gene expression data
- + Designed the implementation of the new quality control pipeline with respect to new functionalities

LAB ASSISTANT – Morin Laboratory

September 2012 – January 2013

- + Downloaded and installed pipeline analysis tools for a local instance of the Galaxy Bioinformatics web based platform

- + Used patient data from BC Cancer Agency to create PCR primers for specific mutated regions for further study
- + Aided in lab tasks such as using an Illumina sequencer, running gels and sterilizing lab equipment

RESEARCH

Leung ET, **Noronha R**, Mirza A et al. ShinyDiversity - Understanding Alpha and Beta Diversity through Interactive Visualizations [version 1; referees: 1 approved, 1 approved with reservations]. F1000Research 2018, 7:479 (doi: 10.12688/f1000research.14217.1)

Noronha R, Stewart M, Moniz de Sá M et al. (March 29, 2018) The Effect of Waste Food Diets on The Yellow Mealworm Larvae (*Tenebrio Molitor*). Langara College Scholarship Café, Burnaby, BC.

Ken Naumann, Mario Moniz de Sa, Eleanor Lewis and **Roshan Noronha** (February 19, 2017) *Super-colonies of the Invasive European Fire Ant*. Langara College Scholarship Café, Burnaby, BC.

Alan Pollack, Nicholas Erho, **Roshan Noronha** and others (February 26-28, 2015) *A biomarker panel associated with distant metastasis in prostate cancer patients [...]*. Abstract no. 08. 2015 Genitourinary Cancers Symposium, San Francisco, CA.

SOFTWARE TOOLS

Shiny Diversity: A tool that uses the Shiny R package to visualize alpha and beta diversity (<https://goo.gl/nMXZPF>)

NUMBRE: A neural network trained to recognize handwritten numbers (<https://goo.gl/rdC1Ju>)

GenBank Connect: A script that obtains FASTA sequences from GenBank given accession numbers (<https://goo.gl/juSdKD>)

EDUCATION

BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND BIOCHEMISTRY

Simon Fraser University
2016-2018

ASSOCIATE OF SCIENCE DEGREE IN BIOINFORMATICS WITH CO-OP

Langara College
2011-2016