

# ROSHAN NORONHA

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## EDUCATION

### **BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND BIOCHEMISTRY**

Simon Fraser University, Burnaby BC, Canada | 2016 - 2019

### **ASSOCIATE OF SCIENCE DEGREE IN BIOINFORMATICS**

Langara College, Vancouver BC, Canada | 2011 - 2016

## EXPERIENCE

### **RESEARCH ASSISTANT – Leroux Laboratory, Simon Fraser University**

Burnaby, BC, Canada | February 2018 – December 2018

- + Used R and Python to Identify novel ciliary proteins
- + Used GFP tagging to determine the localization of candidate ciliary proteins
- + Facilitated lab research goals by maintaining a variety of *C. elegans* strains

### **CLEAN TECH INTERN – Langara College**

Vancouver, BC, Canada | May 2017 – April 2018

- + Collaborated with academic and industry professionals on three federally-funded research projects

### **Insect Based Sustainability**

- + Supervised a team of seven students in proper lab technique, data collection procedures and presentation skills
- + Designed and ran a one-year experiment proving mealworms could consume waste food and Styrofoam
- + Lead author on a research paper to be published in Fall 2019

### **Waste Water Treatment**

- + Showed that biochar could be used to remove 0.5% of ammonia from contaminated water
- + Ran experiments to measure biochar's ability to absorb and store ammonia

### **Microbial Analysis of Beer**

- + Designed PCR primers against 16S and ITS rRNA to check for beer-spoiling bacteria

- + Created experiments to identify the molecular causes of beer yeast degradation
- + Prepared agar plates to grow beer specific yeast species

### **JUNIOR SOFTWARE ENGINEER – GenomeDx Biosciences**

**Vancouver, BC, Canada | May 2014 – December 2014**

- + Collaborated with researchers at the University of Miami and GenomeDx to validate prognostically-significant biomarkers
- + Created R scripts to identify relationships between immunohistochemical and gene expression data
- + Increased the speed of microarray analyses by designing a new quality control pipeline

### **LAB ASSISTANT – Morin Laboratory, Simon Fraser University**

**Burnaby, BC, Canada | September 2012 – January 2013**

- + Downloaded and installed pipeline analysis tools for a local Galaxy instance
- + Used data from BC Cancer Agency to create patient specific PCR primers
- + Aided in-lab tasks such as using an Illumina sequencer, running gels and sterilizing lab equipment

## **PUBLICATIONS**

Leung ET, Noronha R, Mirza A et al. (2018). **ShinyDiversity - Understanding Alpha and Beta Diversity through Interactive Visualizations.** *F1000Research*.

Naumann K, Moniz de Sá M, Lewis E, & Noronha R. (2018). **Supercolonies of the invasive ant, *Myrmica rubra* (Hymenoptera: Formicidae) in British Columbia, Canada.** *Journal of the Entomological Society of British Columbia*.

Pollack A, Erho N, Noronha R et al. (2015). **A Biomarker Panel Associated With Distant Metastasis (DM) in Prostate Cancer Patients Treated With Radiation Therapy Is Also Prognostic for DM in a Large Cohort of Prostatectomy Patients.** *International Journal of Radiation Oncology • Biology • Physics*.

## **PRESENTATIONS**

Noronha R (November 3, 2018). **Changing Food for a Changing World.** TEDxSFU: Uncharted, Vancouver, Canada

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