ROSHAN NORONHA

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EDUCATION

BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND BIOCHEMISTRY
Simon Fraser University, Burnaby BC, Canada | 2016 – 2019

CERTIFICATE IN GENOMICS
Simon Fraser University, Burnaby BC, Canada | 2018 – 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

+ Programmed R and Python scripts to computationally predict novel ciliary genes.
+ Utilized molecular biology techniques such as GFP tagging to identify novel ciliary proteins.
+ Facilitated lab research goals by meticulously maintaining a variety of *C. elegans* strains.

CLEAN TECH INTERN – Langara College
Vancouver, BC, Canada | May 2017 – April 2018

Insect Based Sustainability
+ Designed and ran a one-year experiment proving mealworms could consume waste food and Styrofoam.
+ Supervised a team of seven students to navigate experiment through different phases of completion.
+ Lead author on a research paper to be published in Fall 2019.

Microbial Analysis of Beer
+ Designed PCR primers against 16S and ITS rRNA to check for beer-spoiling bacteria
+ Worked with industry partners to identify the molecular causes of beer yeast degradation.
+ Presented research goals and results to technical and non-technical audiences.

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.
+ Designed and programmed a new quality control pipeline to increase the speed of microarray analyses.
+ Multitasked and coped with changing priorities to complete projects on time or ahead of schedule.

PUBLICATIONS

Noronha R, Stewart M & Moniz de Sá M. (2019). **The Effect of Sustainably-Sourced Waste Food Diets on Yellow Mealworm Larvae (*Tenebrio Molitor*)**. *SFU Science Undergraduate Research Journal*. Manuscript in press.

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.

PROJECTS

Environmental Sensors: Leading a team of four, my team and I programmed and built custom temperature and humidity sensors. (http://bit.ly/labsensors)

Portable and Efficient PCR Machine: Using 3D modeling and an Arduino, I designed and built a miniature PCR machine. (http://bit.ly/PCRMachine)

Shiny Diversity: As part of a hackathon, we created a web tool to visualize alpha and beta diversity in different microbial communities. (http://bit.ly/shinytool)