

Janina Ruffini

9077, rue D'Aillon, Montreal, QC, H1R 2L6
janina.ruffini@mail.mcgill.ca | 514.629.1196

Education

Bachelor of Agriculture and Environmental Sciences 2016-Present

McGill University, Montreal, QC

- Life Science Major
- Molecular Biology and Biotechnology Specialization
- Field course, Biology of Marine Mammals, two weeks in the Bay of Fundy, NB S2017

Diploma of College Studies Health Science 2013-2016

Dawson College, Montreal, QC

- Dean's Honors List

Languages

- English and French (fluent), Italian (intermediate)

Laboratory Experience and Skills

Dr. Jennifer Ronholm Lab, Food Science and Agricultural Chemistry Summer 2019

Laboratory Intern

Sequencing of 179 samples of *E. coli* and *S. aureus* from bovine mastitis cases

- Made pure cell cultures
- Performed DNA extraction for whole genome sequencing

Dr. Olivia Wilkins Lab, Plant Science Fall 2017 & Winter 2018

Laboratory Volunteer

Gene regulation in *Arabidopsis thaliana* tissues in response to various environmental stressors.

- Performed PCR and gel electrophoresis
- Daily watering and weighing of 80 potted poplar trees (Okanese and Walker poplar) to observe interactions between transcription factors and gene regulation in response to drought stress

Dr. Robin Beech Lab, Institute of Parasitology Winter & Summer 2017

Laboratory Volunteer

Microinjection and germline transformation of *C. elegans* with DNA containing a biomarker.

- Agarose gel electrophoresis, culturing bacteria, plasmid extraction, restriction digestion, bacterial transformation, Lac-Z blue-white screening, colony picking and colony PCR
- Practised DNA microinjections of *C. elegans*
- Re-plating of *C. elegans* worms and inoculation of agar plates with nematode growth serum
- Observed surgeries on female frogs to obtain eggs for RNA injection and electrophysiology

**McGill Herbarium supervised by Kyle Martins
Herbarium Volunteer**

Fall 2016

Completion of arctic sedges specimens.

- Mounted, repaired, annotated, and filed preserved sedges according to curatorial standards. Photographed and transferred specimen images to an online portal to build the Herbarium's database.

Awards

- Subventions Nouvelles Initiatives Undergraduate Award (\$7500) 2019

Certifications

- Workplace Hazardous Materials Information System (W.H.M.I.S.) Exp. 2021
- Safe Use of Biological Safety Cabinets Exp. 2022
- Introduction to Biosafety Exp. 2022

Conferences Attended

- Canadian Bovine Mastitis and Milk Quality Research Network April 2019

Technical Skills

- PCR
- SDS Page Gel Electrophoresis
- Solution and media-making
- Sterile technique
- Serial dilutions
- Generalized transduction
- Transposon mutagenesis
- Genomic DNA preparation
- Plasmid miniprep
- Transformation
- Herringbone patching
- Hydrophobic interaction chromatography

Teaching-Related Experience

- Math and science tutor 2015-2019

Workshops and Volunteer work

- Volunteer animator: Crazy Science, Ice cream-making workshop for kids, Beaconsfield Library, in partnership with the Institute of Parasitology Summer 2017
- Skills for Effective Study, Skills 21 Fall 2017
- Happiness: The Workshop, Skills 21 Fall 2017
- Phone-A-Thon, McGill University Fall 2017

Other Work Experience

Patisserie Rococo, *Sales Woman* 2011-2012
RBC Royal Bank of Canada, *Account Services Agent* 2008-2010