

Christopher Zealey

Education

McGill University

Start Date: September 2015

Candidate for MSc Applied Biotechnology

University of Waterloo

2010-2015

Honour's Bachelor of Science, Co-op, Biology. Microbiology Specialization.

Focused on molecular biology, immunology, and infectious disease.

Experience

HIV Research Group, University of Toronto

Construction, characterization, and purification of adjuvanted DNA HIV vaccine candidate for mouse studies.

Transgenic mouse studies measuring CTL response to nanopeptide HIV vaccine candidate. Achieved statistically significant results.

Analytical Biochemistry R&D, SGS Life Science Services

CE-SDS and cIEF preparation and testing of pharmaceutical products.

GMP protocol design for CE-SDS/cIEF for use on drug products for release or routine testing

Upstream BRD – Bacterial/Viral Fermentation, sanofi pasteur

Preparation and maintenance of bacterial fermentations and cell/viral culture bioreactors using microcarriers. Projects: HSV-2, HIV, TB.

Bioprocess R&D Viral and Cell Culture Summer Student, sanofi pasteur

Culture of VERO cell line and infection with attenuated HSV-2 vaccine strain

Analysis of experimental data and creation of professional plots used in publications and reports

Leadership/Engagement

President/Founder of Biotechnology Graduate Student Society

Working with current and new students to aid in the transition into the program

Created the first student society for graduate students in biotechnology at McGill and a platform (website) for engagement

Christmas Food Drive Volunteer, Thornhill United Church

Collection and organization of donated non-perishable food for those in need

Homeless Shelter Volunteer, Out-of-the-Cold

Preparation of hot meals, sleeping areas, first aid, clothing, and eating areas, as well as engaged with guests