**CATHERINE YU**

**3148 East 49th Avenue, Vancouver, BC, V5Y 2PV**

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**SUMMARY**

* Reliable and hard-working student excellent at collaborating with others and individualistic tasks.
* Self-motivated learner who can adapt and apply new concepts quickly.
* Excellent communicator in oral, written, and technological settings with experience communicating with individuals of varying technical backgrounds.

**EDUCATION**

**University of British Columbia         Sept 2018 - present**

*Bachelor of Science, Microbiology & Immunology, 4th Year*                   **90% sessional GPA (2020W)**

* Science Scholar (2019), Dean’s Honour List (2018, 2019), Fred Muir Memorial Scholarship in Science (2019)

**TECHNICAL PROJECTS**

**Development of a Fluorescence Assay for the Screening of a Promoter Library            Sept-Dec 2021**

* Designed a fluorescence assay to screen a promoter library for phenylalanine-interacting promoters. Generated growth curve data and normalized fluorescence data to support the induction of GFP in *E. coli* K12-MG1655 in response to environmental stimuli. Kept organized records of lab observations and experimental data and summarized findings in a scientific report to be published in The Undergraduate Journal of Experimental Microbiology and Immunology (UJEMI).

**Separation and Identification of Unknown Neutral and Acidic Compounds            Oct-Nov 2019**

* Designed and conducted an experiment using liquid-liquid extraction, rotary evaporation, solubility testing, recrystallization, vacuum filtration and melting point analysis to separate and identify one neutral and one acidic organic compound from an unknown sample. Kept organized records of lab observations and experimental data, and summarized findings in a scientific report prepared using Microsoft® Word. Accurately identified the compounds and received a grade of 94% on this project.

**PROFESSIONAL EXPERIENCE               Lack Lab, Vancouver Prostate Centre Jan 2021- Aug 2021**

*Research Assistant*

* Characterized novel drug targets to treat aggressive late-stage prostate cancer
* Performed protein purification and crystallization studies to assess structure and interaction of novel transcription factor HOXB13
* Assisted in the development of a luciferase assay to assess interaction of HOXB13 in HEK293t cells
* Generated 50+ bacterial clones to be used for bacterial and mammalian protein studies

**APASS Education Group, Vancouver                 Nov 2018- Dec 2019**

*Mathematics Tutor*

* Provided individual math support for students ranging from grades 5 to 12
* Continuously motivated and assisted students with schoolwork, assigned weekly homework assignments, and prepared students for standardized exams including the SSAT
* Developed tutoring resources and detailed lesson plans tailored for each individual student

**SKILLS AND ABILITIES**
**Technical**: Proficient: Microsoft Word, Excel and PowerPoint | Familiar: R and R Suite

**REFERENCES:** Available on request.