

Carolina Tomiyama

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EDUCATION

THE UNIVERSITY OF BRITISH COLUMBIA

KELOWNA, BC / CANADA

BSc. Biochemistry & Molecular Biology (Medical & Molecular Biol. Option)

May 2023

GPA 4.1

- Honours in Analytical Chemistry
- International Undergraduate Research Award
- Deputy Vice-Chancellor Scholarship
- Relevant coursework: DNA Manipulation (Biotechnology Laboratory), Biochemistry Laboratory, Medical Microbiology, Biochemical Basis of Disease, Pharmacology I and II

PROFESSIONAL EXPERIENCE

UBCO – IRVING K. BARBER FACULTY OF SCIENCE

KELOWNA, BC/ CANADA

Undergraduate Research Assistant

May 2022 – April 2023

Conducted research projects aiming at the characterization of milk oligosaccharides. My main project received positive attention and feedback at the symposium organized by the faculty.

- Main Project Title: Characterization of Novel Milk Oligosaccharides: A Quantitative Analysis Across Species.
- Led the dairy department team and managed multiple research projects.
- Operated LC-MS and Capillary Electrophoresis for molecular characterization.
- First to identify CD57-like oligosaccharides in human milk.

ZANDBERG LABORATORY

KELOWNA, BC/ CANADA

Undergraduate Laboratory Assistant

January 2021 – April 2022

Collaborated with numerous researchers to elucidate milk's glycobiology to improve infant nutrition.

- Participated in an investigation that targeted sialic acid in milk presented at the International Scientific Meeting in Spain.
- Collaborated on a project investigating the seasonal influence in milk bioactive glycans showcased at the GlycoNet conference in Banff.
- Developed and optimized milk extraction protocols, now widely employed in the laboratory.

UBCO – DEPARTMENT OF BIOLOGY & CHEMISTRY

KELOWNA, BC / CANADA

Undergraduate Teacher Assistant & Marker

September 2021 – April 2023

Worked with the Department of Biology and Chemistry to support UBCO students' learning and achievements.

Biostatistics – Teacher Assistant

- Led two laboratory sections for the Biostatistics course with 20 students each.
- Provided assistance with RStudios and general statistics in the biology field.

Organic Chemistry & Introductory Chemistry – Assistant TA-Marker

- Supervised Organic Chemistry laboratories, providing technical guidance.
- Invigilated and marked main tests of the Introductory Chemistry courses.

LIEDENTE

Dental Assistant

CAMPINAS, SP/ BRAZIL

May 2020 – September 2020

Assisted dental hygienists and dentists during treatment and performed clerical functions.

- Quickly grasped dental procedures and social skills to provide optimal service.
- Reduced service time by organizing tool kits for common treatments.

ADDITIONAL

LANGUAGES: English (fluent), Portuguese (fluent), Spanish (intermediary)

COMPUTATIONAL SKILLS: RStudios, Python, Excel

LABORATORY SKILLS: Capillary Electrophoresis, LC-MS, fluorescent labelling, solid phase extraction, GC-MS (basic), PCR, DNA manipulation and cloning, cell culture.

CERTIFICATES: UBC Biosafety, UBC Chemistry safety