Sarah Spagrud

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Education

University of British Columbia, Okanagan

2017 - 2021

Bachelor of Science, Zoology

Research Projects

Mock Research Grant Proposal (BIOL 422, UBCO)

Apr 2021

• "Restoration of Amazonian systems and the impacts of tropical wildfires"

Term Papers

Jan – Apr 2021

BIOL 461, UBCO

• Coauthor of "A critical analysis of CDK4/6 inhibitors which target the Rb pathway while bypassing endocrine therapy resistance in the treatment of ER+ breast cancer"

EESC 323, UBCO

• Compare-contrast article: "Plate tectonic boundaries in the Circum-Pacific Belt"

Research Interests

- The study of tumour microenvironments and translational research in order to provide more personalized cancer therapies
- The mechanisms of post-translational modifications and their potential as targets for immunotherapy
- Autoimmune conditions and the role of metabolism in the disfunction of immune cells

Scholarships and Awards

Scholarships June 2017

- Alexander Rutherford Scholarship for academic achievement; Government of Alberta (\$2500)
- RockyView Teacher's Scholarship; Alberta Teachers' Association (\$500)

Awards

Canadian Band Association Certificate of Distinction

June 2013

• Recognizing superior musicianship, leadership, dependability, loyalty, and cooperation

Skills/Techniques/Programs

Programs: Maple, R and RStudio, BIOPAC, Excel and other Microsoft software

Skills: critical thinking, communication, teamwork, adaptability

Techniques: PCR, titration, vacuum and gravity chromatography, serial dilutions, muscle and organ system dissection

Notable Courses and Training

Naloxone Training June 2022

Worksite Safety WHMIS 2015

May 2022

Cell Signalling (BIOL 461, UBCO)

Jan – Apr 2021

- Relationships between signaling transduction/pathways, disease, and therapeutic agents
- Course-related research paper: "A critical analysis of CDK4/6 inhibitors"

Comparative Animal Physiology (BIOL 356, UBCO)

Jan – Apr 2021

- Concerning the evolution and advantage of systems design in a variety of animals
- Underlying theme of homeostasis and maintaining constant internal environments in the cardiovascular, respiratory, osmoregulatory and endocrine systems

Principles of Genetics (BIOL 265, UBCO)

May – June 2019

 Focused on evolution, gene expression and molecular techniques concerning both prokaryotic and eukaryotic systems

Cell Physiology (BIOL 354, UBCO)

Sept – Dec 2019

• Analysis of cellular function with an emphasis on ion transport, signaling via secondary messengers, pH regulation and epithelial transport

Introduction to Biostatistics (BIOL 202, UBCO)

Sep – Dec 2018

- Parametric and non-parametric statistical methods, data management and analysis
- Use of R and RStudio to conduct statistical analyses

Service

Peer Note Taker Sep – Dec 2020

UBCO Disability Resource Center

 Worked with the DRC to provide class notes for students with learning disabilities/accommodations

Member

UBCO Chemistry Course Union

Sept 2017 – Apr 2019

• Attended and participated as a tutor for first year chemistry students

Women in Science and Engineering (WiSE)

Sept 2020 - Apr 2021

 UBCO sponsored mentorship program designed to help women in STEM network and build meaningful connections for the future

Community Involvement/Outreach

Volunteer

HOPE Outreach

June 2022 - Sept 2022

- Provide nighttime outreach for identified women who experience homelessness, addiction, exploitation or are at risk of exploitation, and working in sex work
- Includes Narcan outreach, community nights, educational opportunities and connections to housing, recovery, and trusted health service providers

Ki-Low-Na Friendship Society

June 2022 – Sept 2022

 Assist with larger scale events such as the Turtle Island Festival (National Indigenous Peoples Day) to share and promote aboriginal cultural distinctiveness

REACH BC April 2022 - Present

• Provincial platform designed to match research studies with potential participants based on research, health, and clinical interests

Perking Lot Coffee Shop

July 2019 – Sept 2022

• Serve as a frontline volunteer for the KGH Foundation whose goal is to raise funds in order to support world-class health care in the Okanagan region

Okanagan Interventional Pain Clinic

June – Aug 2020

 Worked as an office assistant with primary roles including patient booking and vehicle registration Will to Ride

Mar 2017 – Aug 2018

• Assisted children with mental and physical disabilities in therapeutic horseback riding and related activities

Member

Kelowna Progressive

Dec 2021 - Sept 2022

• Facilitated and attended social, cultural and involvement events to bring like-minded, progressive individuals together to connect