

Janice Pang

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Objective

Research associate position in leading and designing enabling reagents supporting therapeutic discoveries

Highlights and Qualifications

- Bachelor of Science student with background in molecular biology and immunology
- Biotechnology industry and academia research experience in inflammation, diabetes and antibody biochemical characterization with demonstrated proficiency in cell culture, protein expression and purification, transfection, cell culture, FACS, gel electrophoresis, qRT-PCR, confocal microscopy and Octet
- Effective leadership, planning, communication and problem-solving skills in independent and team settings as demonstrated through research and volunteer experiences

Education

Bachelor of Science - Honours Integrated Sciences (Molecular Biology and Immunology)

University of British Columbia, Vancouver, BC

Expected
Graduation:
May 2021

- Recipient of UBC Science Entrance Award; Dean's Honour List

Relevant Courses

BIOC 303 – Molecular Biochemistry: Gained understanding of structure, function and metabolism of lipids, steroids, amino acids and nucleotides, and biochemistry and molecular biology of protein expression and gene regulation

MICB 302 – Immunology: Acquired fundamental knowledge on innate and adaptive immunity, including inflammatory, cell-mediated and humoral immune responses, as well as antibody structure and applications of hybridoma technology

Laboratory Skills

Cell culture, FACS, transfection, protein expression/purification, gel electrophoresis, western blot, bio-layer interferometry (Octet), RNA isolation, cDNA preparation, RT-qPCR, biochemical assays, confocal microscopy, immunofluorescence, image analysis (ImageJ), FlowJo

Research Experience

Antibody Characterization and Discovery Undergrad Co-op

Amgen Inc., Burnaby, BC

May – Dec
2019

- Developed a novel assay for improved biochemical characterization of lead monoclonal antibody panels against diverse membrane protein targets to enable better selection of antibodies with properties meeting program design goals
- Routinely performed antibody purification using a high-throughput paramagnetic bead purification platform and immunoaffinity columns, as well as large-scale antibody quantification using bio-layer interferometry (Octet) to support subsequent biochemical characterization and functional assays
- Worked independently to design, execute and troubleshoot experiments as demonstrated through proficiency in cell culture, transfections, FACS, gel electrophoresis, protein purification, and data analysis
- Gained strong scientific writing skills through preparing technical reports and working closely with scientists in preparing a manuscript for publication

Undergraduate Research Volunteer

Laboratory of Dr. Timothy J. Kieffer, University of British Columbia, Vancouver, BC

May 2017 –
May 2019

- Worked in close collaboration with post-doctoral fellows on projects investigating microRNAs as biomarkers for diabetes. Manuscript submission in progress.
- Conducted RNA isolation, RT-qPCR, western blot, and image analysis using ImageJ

Research Summer Student

Laboratory of Dr. Amira Klip, The Hospital for Sick Children, Toronto, ON

May - Aug
2018

- Investigated glucose uptake in human microvascular endothelial cells exposed to diabetogenic conditions through RT-qPCR, confocal microscopy and glycogen content assay
- Developed and optimized protocol for measuring glycogen content in human microvascular endothelial cells
- Presented research findings at the Banting and Best Diabetes Centre Charles Hollenberg Summer Studentship Weekly Seminar Series and Summer Student Mini-Conference
- Top seven summer research student selected for oral presentations at the SickKids Summer Research Symposium Day

Research Student

Laboratory of Dr. Bruce Verchere, BC Children's Hospital Research Institute, Vancouver, BC

Jan 2012 –
June 2016

- Developed four independent research projects focused on macrophage phagocytosis, inflammation in type 2 diabetes, and potential early biomarkers for type 2 diabetes
- Contributed image analysis data to a poster presented at the 2013 Child and Family Research Institute Summer Student Poster Day
- Acquired skills in cell culture of macrophages and pancreatic islets, FACS, ELISA, immunohistochemistry, RT-qPCR and image analysis using ImageJ

Volunteer Experience**Treasurer and Sponsorship Coordinator**

Greater Vancouver Regional Science Fair (GVRSF), Vancouver, BC

Oct 2016 –
Present

- Prepared sponsorship funding applications and built solid partnerships with sponsors via email correspondences
- Coordinated student activities and UBC lab tours for over 300 students attending the science fair in close collaboration with GVRSF committee members and UBC Faculty of Science Office of the Dean administration staff
- Presented as the featured speaker at post-secondary workshops and science fair networking events
- Actively mentored Team GVRSF Canada-Wide Science Fair finalists

Honours and Awards

Banting & Best Diabetes Centre Charles Hollenberg Summer Studentship

University of Toronto

May 2018

Lunenfeld Summer Studentship

The Hospital for Sick Children

May 2018

2015 Intel International Science & Engineering Fair – Top 12
Canadian high school scientist, 4th Place Grand Award in Biomedical
and Health Science

Society for Science & the Public

May 2015

References

Available upon request