

RESEARCH INTERESTS AND UNDERGRADUATE RESEARCH TRAINING

- An established researcher in cellular medicine related to cancer, developmental neurobiology and neurodegenerative disorders
- Over 10 years' experience successfully supervising undergraduate research students in biotechnology practicums, thesis, summer or part-time appointments and international programs
- Proven publication success with undergraduates as primary authors
- Track record of high ROI from external funding (\$26 000 per high impact publication)

EDUCATION

Doctor of Philosophy (Neuroscience), Department of Psychiatry, Faculty of Medicine, University of British Columbia (UBC), Vancouver, British Columbia (1993-1998)

Thesis Title: Regulation of Amyloid Precursor Protein Secretion *In Vitro*

Master of Science (Pharmacology and Toxicology), Department of Pharmacology and Toxicology, Faculty of Medicine, Queen's University, Kingston, Ontario (1989-1992)

Thesis Title: Glutamate Neurotoxicity in Basal Forebrain Cholinergic Neurons *In Vitro*

Bachelor of Science (Honours) (Biology), Biosciences Complex, Queen's University, Kingston, Ontario (1983-1987)

FACULTY POSITIONS, POST-DOCTORAL FELLOWSHIPS AND GRADUATE STUDIES

Associate Professor (Tenured), Assistant Professor, and Director Biotechnology Program, Department of Biology, Faculty of Natural and Applied Sciences (FNAS), Trinity Western University (TWU), Langley, British Columbia (2007-present)

Received tenure and promoted from Assistant to Associate Professor after 5 years

Research Focus: Anti-integrin-linked kinase (ILK) therapies in central nervous system cancers

- Currently uncovering a novel relationship between ILK and another oncogenic kinase Abl with the goal of treating brain cancers such as pediatric glioblastomas
- Uncovered ILK as a target for chemotherapy-induced mitotic catastrophe and senescence
- Characterized the relationship between the tumour suppressor Rb and oncosuppressive outcomes for anti-ILK therapies
- Serendipitously, discovered that ILK was found within loukoumasomes, doughnut shaped cytoskeletal structures thought to be involved in division
- Advanced our knowledge of ILK in cell survival and metabolic signalling pathways

Post-Doctoral Fellow, British Columbia Cancer Research Centre (BCCRC), University of British Columbia (UBC), Vancouver, British Columbia (1999-2006)

Research Focus: Role of integrin-linked kinase (ILK) in neuronal cell survival and growth

- The first to discover a unique role for ILK in neuronal differentiation
- Characterized developmental brain abnormalities in *Cre-loxP* mice lacking normal ILK expression
- Uncovered a novel role for ILK in the proliferation of stem cells by regionally inactivating ILK in

the mouse brain

- Uncovered a novel role for ILK in the survival effects of trophic factors
- Discovered that ILK is critical for proper expansion of various tissues during development
- Characterized the cytoskeletal localization of ILK and related proteins in prostate cells

Research for Doctoral Degree, Department of Psychiatry, University of British Columbia (1993 - 1998)

Advisor: Peter B. Reiner, PhD

Thesis Title: Regulation of Amyloid Precursor Protein Secretion *In Vitro*

- Characterized cholinergic regulation of amyloid precursor protein secretion in primary neurons
- Discovered a novel signaling pathway responsible for amyloid precursor protein catabolism
- Discovered a novel excitatory amino acid receptor involved in regulating amyloid precursor protein secretion
- Advanced the “amyloid cascade hypothesis” in Alzheimer’s disease research

Research for Master’s Degree, Department of Pharmacology and Toxicology, Queen’s University (1989 - 1992)

Advisor: Richard J. Riopelle, PhD

Thesis Title: Glutamate Neurotoxicity in Basal Forebrain Cholinergic Neurons *In Vitro*

- Characterized the effects of NMDA receptor antagonists on glutamate-induced neurotoxicity

ADMINISTRATIVE EXPERIENCE

ADMINISTRATIVE EXPERIENCE OVERVIEW

- A collaborative leader who supports academic excellence across faculty, staff and students and who promotes student-centered and work-integrated learning
- Experience in developing a future-focused biotechnology curriculum in accordance with university, industry and government standards
- Background in strategic planning, program planning, budget planning and project management
- Director of a unique life sciences program who manages staff and student relations while supporting internal and external relationships across programs, departments, the university and industry
- Responsibilities have included the oversight and coordination of activities that supported student recruitment, education and retention
- Exceptional interpersonal skills with the ability to maintain relationships with academic, industrial and community members and government bodies

Administrative Appointments

Director of Biotechnology, Department of Biology, FNAS, TWU (2007 - present)

Biotechnology Program Launch, Awareness and Retention

- Launched Biotechnology Program (a unique and applied life sciences program) from “ground zero”
- Spearheaded practicum and co-op program
- Initiated promotional campaign for the Biotechnology Program and related disciplines that included the production of posters, program fact sheets, press releases, social media and paid placement campaigns

- Extensively revised website including a “landing page” for Biotechnology Program
- Responsible for the oversight and coordination of activities that supported student recruitment, education and retention

Program Reviews and Exempt Status Reports

- Participated in Ministry of Advanced Education annual Exempt Status reports (2008 - 2015) assessing the Biotechnology Program
- Participated in Degree Quality Assessment Board (DQAB) site visits
- Contributed to a successful Biotechnology Program Review (2016), required by the Ministry of Advanced Education

Science Advisory Board, Dean and Strategic Redesign

- Met with the Science Advisory Board to develop strategic partnerships, improve FNAS infrastructure and increase research capacity
- Partnered with the President, Vice-President Provost and faculty Dean to implement TWU’s strategic redesign and planning of the FNAS

Staff Relations

- Took part in weekly Dean, Chairs and Directors meetings to manage programs and personnel and to participate in enrollment-based planning
- Participated in the selection of TWU’s Director of Research and the faculty’s Deans and staff
- Met with Department Chairs, faculty and staff as needed to ensure appropriate communications and compliance with the university’s policies
- Supervised faculty and staff within the Biology Department and Biotechnology Program

Fundraising Initiatives

- Collaborated with the Vice President of TWU, Development and the Director of Charitable Giving to showcase the faculty’s and Biotechnology Program’s funding needs
- Partnered with the faculty Deans for the acquisition of funding for undergraduate research consumables and infrastructure

Internship, Co-op, Thesis Student Placements and the Training of Highly Qualified Personnel

- Organized and placed practicum students within and outside TWU in first, second and upper year practicums (100+) and co-op positions
- Supervised undergraduate honours thesis students, summer students and part-time students (co-op and work-study) in my research laboratory

Curriculum Projects

- Substantially redesigned the Biotechnology Interdisciplinary degree program to closely reflect changes to Bachelor of Arts minor requirements

Budget Management

- Worked with faculty Deans, Chairs, and staff for budget planning and implementation

Committee Memberships

Work-Integrated Learning Committee, TWU (2019)

- Worked with members of the learning commons to better define work-integrated learning on campus and to ensure compliance with Co-operative Education and Work-Integrated Learning (CEWIL) Canada

Tier 2 Canada Research Chair Steering Committee, TWU (2017 - 2018)

- Reviewed Tier 2 Canada Research Chair applications

- Ranked and nominated applicants for external chair applications

Program Developer and Co-Director of the Institute of Chronic Conditions and Aging (ICCA), TWU (2011 - present)

- Worked with proposed ICCA founding members to develop and substantially revise several drafts of a précis prepared for the Office of Provost
- As the primary contact, liaised with the Vice President of Research to develop and edit the précis that was accepted by the Office of Research in 2012
- Continue to work with ICCA founding members to promote collaborations and partnerships for interdisciplinary health research and knowledge exchange with the ultimate goal to improve the health and quality of life of people living with chronic conditions and our aging population.

Ad hoc Committee Member for the New Research Science Vivarium Design and Completion, FNAS, TWU (2010 - 2016)

- Coordinated with the architectural design team to design and construct the animal vivarium (a mechanically and regulatory complex facility)
- Applied for the Canadian Foundation for Innovation Leaders Opportunity Fund in 2012 (\$107,386) that was used in the design plan for Phase II of this facility
- Liaised with TWU's Scientific Advisory Council, the development team, faculty Dean and Vice President of Research to seek funding for Phase II of this facility

Founding Member and Committee Member of the Institutional Animal Care Committee, FNAS, TWU (2009 - present)

- Involved in TWU's certification by the Canadian Council for Animal Care
- Collaborated with veterinarian consultant in the architectural design of a mouse vivarium
- Ensured that the teaching and research activities involving live vertebrate animals complied with Good Animal Practices (including regular reviews of Standard Operating Procedures and Animal Use Protocols)

TEACHING EXPERIENCE

Associate Professor (Tenured) and Assistant Professor, Department of Biology, FNAS, TWU (2007-present)

- Created and developed curriculum for novel Biotechnology Program
 - Taught undergraduate 1st, 2nd and 3rd year courses of novel Biotechnology Program including introductory course, ethics course, and onsite laboratory practicum
- Taught 3rd year undergraduate Human Physiology and Human Histology courses
- Taught 2nd year undergraduate Cell Biology course
- Received tenure and promoted from Assistant to Associate Professor after five years

Part-time Instructor, Department of Biology, FNAS, TWU (2006)

- Taught 3rd year Histology course to undergraduates and premedical students

Teaching and Laboratory Mentoring, BCCRC (1999-2006)

- Routinely led laboratory meetings and research seminars to academic audiences within and outside our facility
- Taught doctoral and post-doctoral students confocal microscopy and protein isolation techniques

Teaching and Laboratory Mentoring, Department of Psychiatry, Faculty of Medicine, UBC (1993-1998)

- Routinely led laboratory meetings and research seminars to academic, public and industrial audiences
- Demonstrated, assisted and taught individuals (undergraduate, doctoral, and post-doctoral students and technicians) protein chemistry and cell culture techniques

Teaching Assistant, Department of Pharmacology and Toxicology, Faculty of Medicine, Queen's University (1989-1992)

- Presented scientific information to medical students
- Demonstrated and taught pharmacological techniques to medical students

EXTERNAL APPOINTMENTS

External Associate Member, Department of Cellular and Physiological Sciences, Faculty of Medicine, UBC (2009-2012)

- Strengthened research collaborations with external institutes to enhance research programs and supervise graduate students
- Collaborated with members from this department to acquire clinical samples and co-author numerous articles including recent publications in Cell Cycle and PLoS One

Adjunct Professor, Department of Molecular Biology and Biochemistry, Faculty of Science, Simon Fraser University (SFU) (2008-2013; 2015-2020)

- Strengthened research collaborations with external institutes to enhance research programs and supervise graduate students
- Participated in departmental seminars and meetings hosted by the Centre for Cell Biology, Development, and Disease (C2D2)
- Took part in departmental reviews

OTHER SERVICE ACTIVITIES (SELECTED EXAMPLES BELOW)

Poster Judge, Research Day and Undergraduate Research Conference, TWU (2018 and 2019)

- Poster Judge for undergraduate students attending Undergraduate Research Conference (a regional conference that includes TWU, University of the Fraser Valley, Thompson Rivers University (TRU) and UBC Okanagan) or Research Day (a local TWU conference)

Poster Judge, American Association for the Advancement of Science, Vancouver, BC (2012)

- Judge for the Student Poster Competition on Cellular and Molecular Biology

Contributing Scientist, Strategic Science-Technology Branch, Natural Resources Canada (2010)

- Participated in an online program called "Ask a Scientist" that was supported by Natural Resources Canada

Mentor, Student Biotechnology Network (SBN), Vancouver, BC (2007)

- Mentored and helped to address the unique needs of female scientists through SBN's partnership with the Society for Canadian Women in Science and Technology

Coordinator, Careers in Bio-Medical Science Seminar Series, U of T, Toronto, ON (1998 and 1999)

- Jointly spearheaded a campus-wide seminar series on career options for Ph.D. students and

Post-Doctoral Fellows

- Arranged bimonthly presentations from individuals in the academic and business community to promote awareness of traditional and nontraditional career paths for science graduates

CONSULTING

Consultant, Cortex Human Resources Inc., Toronto, ON (1999)

- Assisted in consulting and recruiting scientists at a province-wide biofair

EDITORIAL AND GRANT REVIEW ACTIVITIES

Manuscript Reviewer, Journal of Neurochemistry (2014, 2015 and 2018); Experimental Gerontology, Experimental Cell Research (2017); Biomedicine and Pharmacotherapy (2017); PLoS One (2015) (see PLoS ONE 11(2): e0150341. doi:10.1371/journal.pone.0150341)

Adjudication Committee Member, Prostate Cancer Foundation Grant-in-Aid Award, Vancouver, BC (2014, 2016 and 2019)

Grant Reviewer, Childhood Eye Cancer Trust (2015) and M.J. Murdock Charitable Trust (2015 and 2018)

MEMBERSHIPS

2007 - 2019 Member, Life Sciences BC

2012 - 2013 Member, American Society for Cell Biology (ASCB)

2011 - 2012 Member, Alzheimer's Association International Society

TEXT AND YOU-TUBE INTERVIEWS

2016/09/19 TWU Graduate Creates Nanomaterial That Could Help Repair Spinal Cord Injuries, www.twu.ca/news/2016

2016/04/26 TWU Life Video, <https://drive.google.com/file/d/0BznLPbFw13qc0R5bHQ1WjEzTWM/view>

2013/04/17 \$50,000 Grant Helps Advance Cancer Research at TWU, www.twu.ca/news/2013

2011/10/27 BC Cancer Researchers Provide Opportunity and Advice for TWU Biotech Student, <http://www.twu.ca/about/news/general/2009/biotech-internship.html>

2010/07/09 Student Helps Conduct Advanced Embryo Research

2008/11/26 TWU Biotechnology Co-op Student Works to Change Chicken Farming One Protein at a Time

TECHNICAL TRAINING

Mass Spectrometry, Nashville, TN (2013)

- Attended a week long Advanced Imaging Mass Spectrometry course at Vanderbilt University to receive training on the Maldi-TOF, Mass Spectrometer (similar to one housed in the Chemistry research laboratory at TWU) for use in biological systems

INTERNATIONAL COLLABORATION ACTIVITIES

2013 - 2015. Principal Investigator, Dr. Bruce Ksander United States

Dr. Bruce Ksander, Schepens Eye Research Institute, and Department of Ophthalmology, Harvard Medical School is an author on our manuscript Duminuco et al., 2015. He provided technical advice and the Rb positive retinoblastoma cell line.

2013 - 2016. Principal Investigator Dr. Nicholas Dyson, United States

Dr. Nicholas Dyson, Department of Medicine, Massachusetts General Hospital Cancer Centre and Harvard Medical School is acknowledged in our manuscript Duminuco et al., 2015 for his provision of the T98G cell lines along with his technical advice. He has also provided other cell lines and the Rb construct. He continues to be a rich ongoing resource for his knowledge of Rb-related signalling pathways and his technical expertise.

2013 - 2016. Principal Investigator Dr. Edward Chan, United States

This collaboration with Dr. Edward Chan at the University of Florida was initiated in order to complete the manuscript Noble et al., 2016 and to generate preliminary data for grant applications.

2008 - 2019. Principal Investigator, Drs. Gail Seigel and Murat Digicaylioglu, United States

Dr. Gail Seigel at the University of Buffalo provided some of the cell lines that were used in four manuscripts (Sikkema et al., 2014, Duminuco et al., 2015, Noble et al., 2016 and Tan et al., 2019). Dr. Murat Digicaylioglu provided *in vitro* kinase assay data for our most recent publication (Tan et al., 2019). This most recent work was accepted with revisions to PLOS ONE. Lack of funding delayed the revisions that were requested and the manuscript had to be withdrawn. Eventually, this manuscript was revised and accepted to the journal Heliyon in 2019.

AWARDS AND ACHIEVEMENTS

Cancer Research Society Grant Application (2019; In Progress)

Provost Research Grant, TWU (2019)

M.J. Murdock Charitable Trust, Science Research Initiation Grant (2016, 2017 and 2018)

Internal Research Award, TWU (2016, Fall 2010 and Spring 2010)

Murdock College Research Program for Life Sciences Award (2013 - 2015 and 2011 - 2013)

Diabetes Research Endowment Fund, TWU (2009)

Medical Research Council Post-Doctoral Fellowship, UBC (2000 - 2002)

Medical Research Council Post-Doctoral Fellowship, University of Toronto (1999 - 2000)

Alzheimer Society of Ontario Post-Doctoral Fellow Award, University of Toronto (1998 - 1999)

Alzheimer Society of Canada Doctoral Award, UBC (1993 - 1997)

Graduate Student Travel Fund, UBC (1993 - 1994)

Friends of the Scottish Society Award, Queen's University (1989 - 1991)

Eldon Boyd Fellowship, Queen's University (1989)

Leonard Foundation Award, Queen's University (1983)

PUBLICATIONS AND OTHER SCHOLARLY OUTPUT

Refereed Publications

***Tan J., Wang S.X.J., Dresselhuys J.,** Digicaylioglu M., Seigel G.M., Dedhar S. and **Mills J.** (2019) Insulin Attenuates Apoptosis in Neuronal Cells by an Integrin-Linked Kinase-Dependent Mechanism. *Heliyon* 5 e02294.

***Noble J.,** Hunter D.V., Roskelley C.D., Chan E.K.L., and **Mills J.** (2016) Loukoumasomes are Distinct Subcellular Structures from Rods and Rings and are Structurally Associated with MAP2 and the Nuclear Envelope in Retinal Cells. *PLoS One* Oct 31;11(10): e0165162.

***Duminuco R., Noble J., Goody J.,** Sharma M., Ksander B.R., Roskelley, C.D., Cox M.E., and **Mills J.** (2015) Integrin-Linked Kinase Regulates Senescence in an Rb-Dependent Manner in Cancer Cell Lines. *Cell Cycle* 14:18, 2924-2937.

***Sikkema K. A. W., Strikwerda A.,** Sharma M., Assi K., Salh B., Cox M.E., and **Mills J.** (2014) Regulation of Mitotic Cytoskeleton Dynamics and Cytokinesis by Integrin-Linked Kinase in Retinoblastoma Cells. *PLoS One* Jun 9;9(6):e98838.

*Assi K., **Mills J.,** Owen D., Ong C., St. Arnaud R., Dedhar S., and Salh B. (2008) Integrin-Linked Kinase Regulates Cell Proliferation and Tumour Growth in Murine Colitis-Associated Carcinogenesis. *Gut* 57, 931-940.

*McDonald P. C., Oloumi A., **Mills J.,** Dobreva I., Maidan M., Gray V., Wederell E. D., Bally M. B., Foster L. J., and Dedhar S. (2008) Rictor and Integrin-Linked Kinase Interact and Regulate AKT Phosphorylation and Cancer Cell Survival. *Cancer Res* 68, 1618-1624.

***Mills J.,** Oloumi A., Mawji N. M., Wilson J., Rico B., Reichardt L.F., and Dedhar S. (2006) Integrin-Linked Kinase is Critical for Cerebellar Granule Cell Precursor Proliferation. *J Neurosci* 26, 830-840.

*Niewmierzycka A., **Mills J.,** St-Arnaud R., Dedhar S., and Reichardt L.F. (2005) Integrin Linked Kinase (ILK) Deletion From Mouse Cortex Results In Cortical Lamination Defects Resembling Cobblestone Lissencephaly. *J Neurosci* 25, 7022-31.

*Attwell S., **Mills J.,** Troussard A., Wu C., and Dedhar S. (2003) Integration of Cell Attachment, Cytoskeletal Localization, and Signaling by Integrin-Linked Kinase (ILK), CH-ILKBP, and Tumor Suppressor PTEN. *Mol Biol Cell* 14, 4813-4825.

***Mills J.,** Digicaylioglu M., Legg A. T., Young C. E., Young S. S., Barr A. M., Fletcher L., O'Connor T. P., and Dedhar S. (2003) Role of Integrin-Linked Kinase in Nerve Growth Factor-Stimulated Neurite Outgrowth. *J Neurosci* 23, 1638-1648.

*Chen F., Yang D.-S., Petanceska S., Yang A., Tandon A., Yu G., Rozmahel R., Ghiso J., Nishimura M., Zhang D. M., Kawarai T., Levesque G., **Mills J.,** Levesque L., Song Y.-Q., Rogaeva E., Westaway D., Mount H., Gandy S., St. George-Hyslop P., and Fraser P. E. (2000) Carboxyl-terminal fragments of Alzheimer β -Amyloid Precursor Protein Accumulate in Restricted and Unpredicted Intracellular Compartments in Presenilin 1-Deficient Cells. *JBC* 275, 36794-36802.

***Mills J.** and Reiner P.B. (1999) MAPK is Involved in NMDA Receptor Regulation of APP Cleavage. *Neurosci* 94, 1333-1338.

***Mills J.** and Reiner P.B. (1999) Regulation of Amyloid Precursor Protein Cleavage. *J Neurochem* 72, 443-460.

***Mills J.**, Charest D.L., Lam F., Beyreuther K., Ida N., Pelech S.L. and Reiner P.B. (1997) Regulation of amyloid precursor protein catabolism involves the mitogen-activated protein kinase signal transduction pathway. *J Neurosci* 17, 9415-9422.

***Mills J.** and Reiner P.B. (1996) Phorbol esters but not the cholinergic agonists oxotremorine-M and carbachol increase release of the amyloid precursor protein in cultured rat cortical neurons. *J Neurochem* 67, 1511-1518.

(*=First authors; **Bolded Names**=Undergraduate research students or myself)

Publications in Progress

Noble J., Sharma M, **Mills J.** and Cox ME. Inhibiting Integrin-Linked Kinase Sensitizes TMPRSS2-ERG Prostate Cancer Cells to Enzalutamide. *In preparation.*

Dresselhuis J., **Brown M.**, **Tan J.**, Cox ME. and **Mills J.** Integrin-Linked Kinase and Abelson kinase Interact to Regulate Cell Cycle Progression and Survival. *In preparation.*

INVITED PRESENTATIONS AND SEMINARS

Numerous Presentations. Examples include:
Seminars:

"Integrin Linked Kinase (ILK), the Retinoblastoma Tumour Suppressor (Rb) and Cell Cycle Progression in Cancer". Invited speaker to Molecular Biology and Biochemistry, SFU, British Columbia, Canada. 2016

"Mitotic Functions of Integrin Linked Kinase". Invited speaker to TRU, Kamloops, British Columbia, Canada. 2013

"Developmental Abnormalities in ILK Excised Mouse Models: A Role for ILK in Proliferation, Migration and Cell Fate Choices". Invited speaker to SFU, Burnaby, British Columbia, and UBC, Vancouver, British Columbia, Canada. 2008

Meeting Presentations:

"Integrin-Linked Kinase Regulates Cancer Cell Progression and Survival in a Retinoblastoma-Dependent Manner". Fourth Canadian Cancer Research Conference, Vancouver, British Columbia, Canada (2017)

"Regulation of Mitotic Cytoskeleton Dynamics and Cytokinesis by ILK in Retinoblastoma Cells". Genomic Instability, Gordon Research Conference, Hong Kong University of Science and Technology, Hong Kong, China (2014)

"Integrin-Linked Kinase Regulates Cytoskeletal Dynamics and Cytokinesis in Retinoblastoma Cell Lines". American Society for Cell Biology, San Francisco, California. USA (2012)

"Critical Role of ILK in Neuronal Progenitor Cell Proliferation". Fibronectin, Integrin and Related Molecules, Gordon Research Conference, Ventura, California, USA (2005)

CONFERENCE PRESENTATIONS BY UNDERGRADUATE STUDENTS IN MY LABORATORY

Poster Presentations:

Dresselhuis J., Brown M., Tan J., Noble J., Sharma M., Cox ME. **and Mills J.** (2019) Integrin Linked Kinase (ILK) and Abl in Cell Cycle Progression and Survival. Murdock Undergraduate Student Research Conference, Vancouver, WA. (presented by the undergraduate student **Jonathan Dresselhuis**)

Tan J., Noble J., Sharma M., Cox M.E., and **Mills J.** (2018) ILK Regulates Cell Cycle Progression and Survival in a Retinoblastoma-Dependent Manner. Undergraduate Research Conference. Trinity Western University, Langley, BC. (presented by the undergraduate student **Jacqueline Tan**)

Tan J., Noble J., Paixão M., Duminuco R., Sharma M., Cox, M.E., and **Mills, J.** (2016) Integrin Linked Kinase Regulates Cancer Cell Cycle Progression and Survival in a Retinoblastoma Dependent Manner. Murdock Undergraduate Student Research, Spokane, WA (presented by the undergraduate student **Jacqueline Tan** who received a First Prize Award for the best Student Poster Presentation in the Life Sciences Award)

Noble J., Goody J., Chan E.K., and **Mills J.** (2014) Loukoumasomes and Rods and Rings are Distinct Subcellular Structures in Retinal Cell Lines. Murdock Undergraduate Student Research Conference. Vancouver, WA. (presented by the undergraduate student **Jake Noble**)

Dominico R., Noble J., Goody J., Sharma M., Cox M.E., and **Mills J.** (2014) Integrin-Linked Kinase Regulates Senescence in a Rb-Dependent Manner in Cancer Cell Lines. Murdock Undergraduate Student Research Conference. Vancouver, WA. (presented by the undergraduate student **Rose Dominico**)

Sikkema W.K.A. , Strikwerda A. Sharma M., Assi K., Salh B., Cox M.E., and **Mills J.** (2014) Regulation of Mitotic Cytoskeleton Dynamics and Cytokinesis by Integrin-Linked Kinase in Retinoblastoma Cells. Fraser Valley Undergraduate Research Conference, Trinity Western University, Langley, BC. (presented by the undergraduate student **William Sikkema**)

Dominico R., Noble J., Goody J., Sharma M., Cox M.E., **and Mills J.** (2014) Integrin-Linked Kinase Regulates Cellular Senescence of Retinoblastoma Cells in an Rb-Dependent Manner. Fraser Valley Undergraduate Research Conference, Thompson River University, Thompson River, BC. (presented by the undergraduate student **Joe Goody**)

Sikkema W.K.A., Strikwerda A. Sharma M., Assi K., Salh B., Cox M.E., and **Mills J.** (2013) Regulation of Mitotic Cytoskeleton Dynamics and Cytokinesis by Integrin-Linked Kinase in Retinoblastoma Cells. Fraser Valley Undergraduate Research Conference, TWU, Langley, BC. (presented by the undergraduate student **William Sikkema**)

Strikwerda A., Sikkema W.K.A. and Mills J. (2012) Integrin-Linked Kinase Regulates Cytoskeletal Dynamics and Cytokinesis in Retinoblastoma Cell Lines. AAAS, Vancouver, BC. (presented by the undergraduate student **Arend Strikwerda**)

Strikwerda A., Sikkema W.K.A. and Mills J. (2011) Regulation of Cytoskeleton Dynamics During Mitosis by ILK in Retinoblastoma Cells. Murdock Undergraduate Student Research Conference. Seattle, WA. (presented by the undergraduate student **William Sikkema**)

Fraser L., Digicaylioglu M., Oloumi A., and Dedhar S. and Mills J. (2008) Insulin Signalling in Diabetic Retinopathy: A Putative Role for ILK. Murdock Undergraduate Student Research Conference, Portland, OR. (presented by the undergraduate student **Laura Fraser**).

Oral Presentations:

Tan J., Duminuco R., Sharma M., Cox, M.E., and Mills, J. (2018) Integrin Linked Kinase (ILK) and Abl in Cell Cycle Progression and Survival. Centre for Cell Biology, Development and Disease (C2D2) Meeting, BC Cancer Research Centre, Vancouver, BC (presented by the undergraduate student **Jacqueline Tan**)

Tan J., Dresselhuis J., Duminuco R., Sharma M., Cox, M.E., and Mills, J. (2018) Integrin Linked Kinase (ILK) and Abl in Cell Cycle Progression and Survival. Undergraduate Research Conference Trinity Western University Campus, Langley, BC (presented by the undergraduate students **Jacqueline Tan** and **Jonathan Dresselhuis** who received a first prize for the best oral presentation)

Tan J., Wang S., Abraham H., Sharma M., Cox M.E., and Mills J. (2017) Integrin linked kinase (ILK) and Abl in Cell Cycle Progression and Survival. Student speaker for the Murdock Undergraduate Student Research Conference, Spokane, WA (presented by the undergraduate student **Jacqueline Tan**)

Abraham H., Tan J., Noble J., Paixão M., Duminuco R., Sharma M., Cox, M.E., and Mills, J. (2017) Integrin linked kinase (ILK) Regulates Cancer Cell Progression and Survival in a Retinoblastoma Dependent Manner. Centre for Cell Biology, Development, and Disease (C2D2) Meeting, Harbour Centre, Simon Fraser University, Vancouver, BC (presented by the undergraduate student **Hadassah Abrahams**)

Noble J., Goody J., Chan E.K., and Mills J. (2015) Loukoumasomes and Rods and Rings are Distinct Subcellular Structures. Student speaker for the University of British Columbia Okanagan Undergraduate Student Research & Innovation Conference, UBC Okanagan Campus, Kelowna, BC (presented by the undergraduate student **Jake Noble**)

Sikkema W.K.A., Strikwerda A. Sharma M., Assi K., Salh B., Cox M.E., and Mills J. (2013) Mitotic Functions of Integrin Linked Kinase in Retinblastoma. Student speaker for the Murdock Undergraduate Student Research Conference (presented by the undergraduate student **William Sikkema** who received a runner up award for the best Student Oral Presentation in the Life Sciences Award)