

Nationality: **Canadian**  
Born: Jan. 11<sup>th</sup>, 1971 (Whitehorse, Yukon)  
Languages: English and French

**Department of Pathology, Dalhousie University**  
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**PROFESSIONAL EXPERIENCE:**

- 2016-present** **Professor**, Departments of Pathology, and Biochemistry & Molecular Biology, Dalhousie University. Halifax, Canada
- 2016** **Visiting Associate Professor**, Department of Urology, University of British Columbia, Vancouver, Canada
- 2012-2016** **Associate Professor**, Departments of Pathology, and Biochemistry & Molecular Biology, Dalhousie University. Halifax, Canada
- 2010- present** **Senior Scientist**, Beatrice Hunter Cancer Research Institute, Halifax, Canada
- 2007-2012** **Assistant Professor**, Departments of Pathology, and Biochemistry & Molecular Biology, Dalhousie University. Halifax, Canada
- 2006-2007** **Research Associate**, Programme in Genetics and Genome Biology, The Hospital for Sick Children, Toronto, Canada
- 2002-2006** **CIHR Senior Postdoctoral Fellow**, The Hospital for Sick Children, Toronto, Canada.
- 1999-2002** **Postdoctoral Associate/MRC Scientific Staff**, MRC-Human Genetics Unit, Edinburgh, United Kingdom.
- 1993** **Research Assistant**, Terry Fox Laboratory, Vancouver, Canada
- 1992** **Research Assistant**, Medical Genetics, University of British Columbia.

Professional Consulting

- 2020** **Scientific Consultant**, Pest Management Regulatory Agency (PMRA), Health Canada
- 2018-2019** **Scientific Consultant**, Quorum Technologies, Puslinch, Ontario, Canada
- 1998-2001** **Scientific Consultant**, Procrea Bioscience Inc., Mount-Royal, Quebec, Canada

**EDUCATION:**

- 1998** **Ph.D. Experimental Medicine** (Dean's Honor List)  
Dept. of Medicine, Div. of Experimental Medicine, McGill University, Canada.
- 1993** **B.Sc. (Hon) Biochemistry & Molecular Biology** (First Class Honors)  
University of British Columbia, Canada.

**DISTINCTIONS**

- 2007-2016** **Cameron Research Scientist of the Dalhousie Cancer Research Program**

**AWARDS AND FELLOWSHIPS:**

- 2021** **Faculty of Medicine Award for Excellence in Research Mentorship of Faculty**, Dalhousie University
- 2013** **Janigan Teaching Award**, Dept. of Pathology, Dalhousie University
- 2009-2014** **CIHR New Investigator Award**
- 2007-2009** **CIHR Senior Research Fellowship (Phase II)**
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- 2003-2005** **CIHR Senior Research Fellowship (Phase I)**
- 1999-2002** **Medical Research Council of Canada Postdoctoral Fellowship**
- 1997-1999** **NSERC Post Graduate Scholarship (PGS B)**
- 1996-1997** **Hydro Quebec Fellowship**
- 1994-1996** **NSERC Post Graduate Scholarship (PGS A)**
- 1993-1994** **Honorary Fellow: Hydro Quebec Fellowship**
- 1992-1993** **B.C. Medical Foundation Studentship**
- 1989-1990** **B.C. Provincial Scholarship**

**A) RESEARCH FUNDING** (CIHR, NSERC, CFI, CBCF-Atlantic, BCSC, PCC, DMRF)

As Principal Investigator: \$ 9,343,361

As Co-Applicant: \$30,081,627

Total: **\$39,430,988**

**B) PUBLICATIONS**

Co-authors whom I supervised are underlined below.

**H-index: 48; i10 index: 92**

**Google Scholar (<https://tinyurl.com/jrrqya9>)**

Peer Reviewed, last 10 years

**(Total: 112)**

- 1) Merlin, J.P.J., S. Mathavarajah, **G. Dellaire**, K. Murphy, HPV. Rupasinghe (2022) “*Dietary antioxidant formulation ameliorate DNA damage caused by  $\gamma$ -irradiation in normal human bronchial epithelial cells in vitro*” **Antioxidants** 11(7):1407 <https://www.mdpi.com/2076-3921/11/7/1407>
- 2) Kratzer, K., L.J. Getz, T. Pettrini, J-Y. Masson, **G. Dellaire** (2022) “*Addressing the dark matter of gene therapy: technical and ethical barriers to clinical application*” **Human Genetics** 141(6):1175-1193 **IF: 4.13** <https://link.springer.com/article/10.1007/s00439-021-02272-5>
- 3) Mathavarajah, S., and **G. Dellaire** (2022) “*SARS-CoV-2 and wastewater: what does it mean for non-human primates?*” **Am. J. Primatol.** 84(4-5):e23340. **IF: 2**
- 4) Habib, EB, S. Mathavarajah, and G. Dellaire (2022) “*Tinker, Tailor, Tumour Suppressor: The many functions of PRP4K*” **New Frontiers in Genetics** 13: 839963 **IF:3.79** <https://www.frontiersin.org/articles/10.3389/fgene.2022.839963/full>
- 5) Mcphee, KJ, J. Salsman, J. Foster, J. Thompson, S. Mathavarajah, **G. Dellaire**† and ND. Ridgway†(2022) “*Running 'LAPS' around nLD: Nuclear lipid droplet form and function*” **Frontiers in Cell and Developmental Biology** (†Co-corresponding authors) 10: 837406 **IF: 5.87** <https://doi.org/10.3389/fcell.2022.837406>
- 6) Martinez-Pastor, B., GG. Silveira, TL. Clarke, D. Chung, Y.Gu, C. Cosentino, LS. Davidow, G. Mata, S. Hassanieh, J. Salsman, A. Ciccia, N. Bae, MT. Bedford, D. Megias, LL Rubin, A. Efeyan, **G. Dellaire**†, R. Mostoslavsky† (†Co-corresponding authors). (2021) “*Assessing kinetics and recruitment of DNA repair factors using high content screens*” **Cell Reports** 37(13): 110176 <https://doi.org/10.1016/j.celrep.2021.110176> **IF: 9.42**
- 7) Clarke, L.E., A. Cook, S. Mathavarajah, A. Bera, J. Salsman, E. Habib, C. Van Iderstine, M. Bydoun, S.M. Lewis, and **G. Dellaire** (2021) “*Haploinsufficient tumour suppressor PRP4K is negatively regulated during epithelial-to-mesenchymal transition*” **FASEB J.** 35(11): e22001 **IF: 4.97 BioRxiv Preprint** <https://www.biorxiv.org/content/10.1101/2020.04.19.043851v2>

- 8) Merlin, J.P.J., **G. Dellaire**, K. Murphy, HPV. Rupasinghe (2021) “*Vitamin-Containing Antioxidant Formulation Reduces Carcinogen-Induced DNA Damage through ATR/Chk1 Signaling in Bronchial Epithelial Cells In Vitro.*” **Biomedicines** 9(11):1665 **IF: 6.1**
- 9) Habib, E., A. Cook, S. Mathavarajah, and **G. Dellaire** (2021) “*Adding some ‘Splice’ to Stress Eating: Autophagy, ESCRT and Alternative Splicing Orchestrate the Cellular Stress Response*” **Genes** 12(8):1196 **IF: 3.69** <https://doi.org/10.3390/genes12081196>
- 10) Cruickshank, B., M-C.D. Wasson, J.M. Brown, W. Fernando, J. Venkatesh, O.L. Walker, F. Morales-Quintanilla, M.L. Dahn, C.A. Dean, D. Vidovic, C. Van Iderstine, **G. Dellaire**, P. Marcato (2021) “*LncRNA PART1 promotes survival, is associated with cancer stem cells, and alters the miRNA landscape in triple-negative breast cancer*” **Cancers** 13(11): 2644 **IF: 6.64** <https://doi.org/10.3390/cancers13112644>
- 11) Merlin, J.P., H.P.V. Rupasinghe, **G. Dellaire**, and K. Murphy (2021) “*Role of dietary antioxidants in p53-mediated cancer chemoprevention and tumor suppression*” **Oxid. Med. Cell. Longev.** 2021:9924328 **IF:6.5**  
<https://www.hindawi.com/journals/omcl/2021/9924328/>
- 12) Mathavarajah, S., C. Van Iderstine, **G. Dellaire**, R.J. Huber (2021) “*Cancer and the breakdown of multicellularity: What Dictyostelium discoideum, a social amoeba, can teach us*” **Bioessays** 43(4):e2000156. **IF: 4.35**
- 13) Mathavarajah, S., Amina K. Stoddart, Graham G. Gagnon, **G. Dellaire** (2020) “*Pandemic danger to the deep: the risk of marine mammals contracting SARS-CoV-2 from wastewater*” **Science of the Total Environment (STOTEN)** doi: 10.1016/j.scitotenv.2020.143346 **IF: 7.96** Subject of a Podcast ([SickBoy Podcast, Sept. 4, 2020](#)), and News Coverage in [Fortune Magazine](#), [The Scientist](#) and [Med-News.net](#) **BioRxiv Preprint:** <https://www.biorxiv.org/content/10.1101/2020.08.13.249904v1>
- 14) Tam, N., D. Chung, L. Xu, J. Rainey, **G. Dellaire** and J. Frampton (2020) “*Material properties of disulfide-crosslinked hyaluronic acid hydrogels influence prostate cancer cell growth and metabolism*” **Journal of Materials and Chemistry B** 8(42):9718-9733 **IF: 6.33**
- 15) \*Mathavarajah, S., and **G. Dellaire** (2020) “*Lions and Tigers and Kittens Too: ACE2 and susceptibility to COVID19*” **Evolution Medicine and Public Health** 2020(1):109-11 **IF: 2.95** \*News coverage of this article by [CBC Halifax](#).
- 16) Suraweera, T.L., H.P.V Rupasinghe, **G. Dellaire**, and Z. Xu (2020) “*Regulation of Nrf2/ARE pathway by dietary flavonoids: a friend or foe for cancer management?*” **Antioxidants** 9(10):973 **IF: 6.31**<https://doi.org/10.3390/antiox9100973>
- 17) Lee J., J. Salsman, J. Foster, **G. Dellaire**†, N. Ridgway† (2020) “*Lipid-associated PML structures assemble nuclear lipid droplets containing CCTα and Lipin*”. **Life Science Alliance** 3(8):e202000751. (†Co-corresponding authors) **IF: 4.59**  
**BioRxiv Preprint:** <https://doi.org/10.1101/2020.03.10.986380>

- 18) Getz, L., and **G. Dellaire** (2020) “*Back to Basics: Application of the principles of bioethics to heritable genome interventions*” **Science and Engineering Ethics** 26(5):2735-2748  
**IF: 3.52**
- 19) Rajan, V., N. Melong, W.H. Wong, B. King, R.S. Tong, N. Mahajan, D. Gaston, T. Lund, D. Rittenberg, **G. Dellaire**, C.J.V. Campbell, T. Druley, J.N. Berman (2020) “*Humanized Zebrafish Enhance Human Hematopoietic Stem Cell Survival and Promote AML Clonal Diversity*” **Haematologica** 105(10):2391-2399 **IF: 9.94**
- 20) Pringle, E.S., J. Wertman, N. Melong, A.J. Coombs, A. Young, D. O’Leary, C. Veinotte, C. Robinson, M.N. Ha, **G. Dellaire**, T. Druley, C. McCormick, and J.N. Berman (2019) “*The zebrafish xenograft platform – a novel tool for modeling KSHV-associated diseases*” **Viruses** 12(1): 12; <https://doi.org/10.3390/v12010012> **IF: 5.05**
- 21) Beauchemin, H., P. Shooshtharizadeh, J. Pinder, **G. Dellaire**, and T. Moroy (2020) “*Dominant negative Gfi1b mutations cause moderate thrombocytopenia and an impaired stress thrombopoiesis associated with mild erythropoietic abnormalities in mice*” **Haematologica** 105(10):2457-2470 **IF: 9.94**
- 22) Attwood, K.M., J. Salsman, D. Chung, S. Mathavarajah, and **G. Dellaire** (2020). “*PML isoform expression and DNA break location relative to PML nuclear bodies impacts the efficiency of homologous recombination*”. **Biochemistry and Cell Biology** 98(3):314-326  
**IF: 3.63**
- 23) Guisier F, M.C. Barros-Filho MC, L.D. Rock, M. Strachan-Whaley, E.A. Marshall, **G. Dellaire**, W.L. Lam (2020) “*Janus or Hydra: the many faces of T helper cells in the human tumour microenvironment*”. **Advances in Experimental Medicine and Biology**, 1224:35-51  
**IF:2.62**
- 24) Mathavarajah, S., J. Salsman, and **G. Dellaire** (2019) “*An emerging role for calcium signalling in innate and autoimmunity via the cGAS-STING axis*” **Cytokine & Growth Factor Reviews** 50:43-51. <https://doi.org/10.1016/j.cytogfr.2019.04.003> **IF: 7.64**
- 25) Darracq, A., H. Pak, V. Bourgoin, **G. Dellaire**, E.B. Affar, and E. Milot. (2019) “*NPM and NPM-MLF1 interact with chromatin remodeling complexes and influence their recruitment to specific genes*” **PLoS Genetics** 15(11):e1008463 **IF: 5.92**  
<https://doi.org/10.1371/journal.pgen.1008463>
- 26) Rodrigue, A., G. Margailan, T.T. Gomes, Y. Coulombe, M. Ducy, S. da Costa e Silva Carvalho, G. De-Gregoriis, L. Milano de Souza, **G. Dellaire**, W.A. da Silva Jr, A. Monteiro, M. Carvalho, J. Simard, and J-Y. Masson. (2019) “*A global functional analysis of missense mutations reveals two major hotspots in the PALB2 tumor suppressor*” **Nucl. Acids Res.** 47(20):10662-10677 **IF: 16.97**

- 27) \*Chung, D., J. Salsman, and G. Dellaire. (2019) "*Inhibition of neddylation induces mitotic defects and alters MKLPI accumulation at the midbody during cytokinesis*" **Cell Cycle** 18(10):1135-1153 \*Journal Cover **IF: 3.58**
- 28) Deveryshetty, J., M. Ryzhikov<sup>1</sup>, N. Brahiti, T. Peterlini, G. Dellaire, J-Y. Masson and S. Korolev (2019) "*Novel RNA and DNA strand exchange activity of the PALB2 DNA Binding Domain and its critical role for DNA repair in cells.*" **eLife** 8. pii: e44063. doi: [10.7554/eLife.44063](https://doi.org/10.7554/eLife.44063) **IF:7.57** BioRxiv <https://doi.org/10.1101/495192>
- 29) Martin, L.T.P., M.W. Nachtigal, T. Selman, E. Nguyen, J. Salsman, G. Dellaire, and D.J. Dupré (2019) "*Bitter taste receptors are expressed in human epithelial ovarian and prostate cancers and impact cell survival*" **Molecular and Cellular Biochemistry** 454(1-2):203–21 **IF:3.4** doi.org/10.1007/s11010-018-3464-z
- 30) George V.C., S. Ansari, V.S. Chelakkot, A.L. Chelakkot, C. Chelakkot, V. Menon, W. Ramadan, K.R. Ethiraj, R. El-Awady, T. Mantso, M. Mitsiogianni, M.I. Panagiotidis, G. Dellaire, and H.P.V. Rupasingh (2019) "*DNA-dependent protein kinase: Epigenetic alterations and the role in genomic stability of cancer*" **Mutation Research** 780:92-105 **IF: 5.66**
- 31) Castroviejo-Bermejo, M., C. Cruz, A. Llop-Guevara, S. Gutiérrez-Enríquez, M. Ducy, Y. Ibrahim, A. Gris-Oliver, A. Bruna, M. Guzmán, O. Rodríguez, J. Grueso, S. Bonache, A. Moles-Fernández, C. Viaplana, P. Gómez-Pardo, M. Vidal, V. Peg, X. Serres-Créixams, G. Dellaire, J. Simard, P. Nuciforo, I. Rubio, R. Dienstmann, C.J. Barret, C. Caldas, J. Baselga, C. Saura, J. Cortés, O. Déas, J. Jonkers, J-Y. Masson, S. Cairo, J-G. Judde, M. O'Connor, O. Díez, J. Balmaña, and V. Serra (2018) "*RAD51 score identifies homologous recombination repair deficient tumors with PARP inhibitor sensitivity and is feasible in routine clinical samples of breast cancer*". **EMBO Molecular Medicine** pii. e9172. doi: [10.15252/emmm.201809172](https://doi.org/10.15252/emmm.201809172). **IF: 12.13**
- 32) Stairs, C., L. Eme, A. Cohen, G. Dellaire, J. Shepherd, J. Fawcett, and A. Roger (2018) "*Microbial eukaryotes have adapted to hypoxia by a horizontal acquisition of a gene involved in rhodoquinone biosynthesis*" **eLife** 7. pii: e34292 doi.org/10.7554/eLife.34292 **IF:7.57**
- 33) Getz, L.J., and G. Dellaire (2018) "*Angels and Devils: Dilemmas in Dual-Use Biotechnology*" **Trends Biotechnol.** pii: S0167-7799(18)30207-5. **IF:19.54**
- 34) \*Sage, A.P., V.D. Martinez, B.C. Minatel, M.E. Pewarchuk, G.M. MacAulay, E.A. Marshall, R. Hubaux, D.D. Pearson, A.A. Goodarzi, G. Dellaire, W.L. Lam (2018) "*Genomics and epigenetics of malignant mesothelioma*" **High-Throughput** 7(3):20 \*Cover article doi: [10.3390/ht7030020](https://doi.org/10.3390/ht7030020) **IF:2.76**
- 35) Baranes-Bachar, K., A. Levy-Barda, J. Oehler, D.A. Reid, I. Soria-Bretones, T.C. Voss, D. Chung, Y. Park, C. Liu, J-B. Yoon, W. Li, G. Dellaire, T. Misteli, P. Huertas, E. Rothenberg, K. Ramadan, Y. Ziv, and Y. Shiloh (2018) "*The ubiquitin E3/E4 ligase, UBE4A,*

- fine-tunes protein ubiquitylation and accumulation at sites of DNA damage facilitating double-strand break repair" **Molecular Cell** 69(5):866-878.e7 IF:17.97*
- 36) Vadnais, C., R. Chen, J. Fraszczak, J. Pinder, D. Frank, C. Khandanpour, J. Hébert, G. Dellaire, S. Richard, A. Orthwein, E. Drobetsky, and T. Möröy (2018) "*GFII1 is required for efficient DNA Repair by regulating PRMT1 dependent methylation of MRE11 and 53BP1*". **Nature Communications** 9(1):1418 IF:14.92
- 37) Corkery, D., L. Clarke, S. Gebremeskel, J. Salsman, J. Pinder, C. Le Page, Z. Xu, Anne-Marie Mes-Masson, B. Johnston, J.N. Berman, and G. Dellaire. (2018) "*Loss of PRP4K drives anoikis resistance in part by dysregulation of epidermal growth factor receptor endosomal trafficking*" **Oncogene** 37(2):174-184 IF:9.87
- 38) Salsman J, J-Y.Masson, A. Orthwein, and G. Dellaire (2017) "*CRISPR/Cas9 Gene Editing: From Basic Mechanisms To Improved Strategies For Enhanced Genome Engineering In Vivo.*" **Curr Gene Ther.** 17(4):263-274 IF:4.39
- 39) Gebremeskel, S., L. Lobert, K. Tanner, B. Walker, T. Oliphant, L. Clarke, G. Dellaire, and B. Johnston. (2017). "*Natural killer T cell immunotherapy in combination with chemotherapy-induced immunogenic cell death targets metastatic breast cancer*". **Cancer Immunology Research** 5(12):1086-1097 IF:11.15
- 40) Melong, N., S. Steele, M. MacDonald, A. Holly, C.C. Collins, A. Zoubeidi, J.N. Berman, and G. Dellaire (2017) "*Enzalutamide inhibits testosterone-induced growth of human prostate cancer xenografts in zebrafish and can induce bradycardia*", **Scientific Reports** 7(1):14698 IF: 4.41
- 41) Lobbardi, R., J. Pinder, B. Martinez, J.S. Blackburn, N.S. Abdelfattah, D. Toiber, M. de Waard, E. Jain, R.I. Sadreyev, J.M. Asara, R. Mostoslavsky, G. Dellaire, D.M. Langenau. (2017) "*TOX Regulates Growth, DNA Repair, and Genomic Instability in T-cell Acute Lymphoblastic Leukemia*" **Cancer Discovery** 7(11):1336-1353 IF: 39.40
- 42) \*Agudelo, D., A. Durringer, L. Bozoyan, D., C.C. Huard, S. Carter, J. Loehr, M. Drouin, J. Salsman, G. Dellaire, J. Laganière, and Y. Doyon. (2017) "*Marker-free coselection for CRISPR-driven genome editing in human cells*" **Nature Methods** 14(6):615-620 \*Journal Cover IF:28.55
- 43) Salsman, J., LM Rapkin, NN Margam, R. Duncan, D.P. Bazett-Jones, G. Dellaire. (2017). "*Myogenic differentiation triggers PML nuclear body loss and DAXX relocalization to chromocentres*". **Cell Death & Disease** 8(3):e2724 IF: 8.47
- 44) Salsman, S., A. Stathakis, E. Parker, D. Chung, L. Anthes, K.L. Koskowich, S. Lahsae, D. Gaston, K.R. Kukurba, K.S. Smith, I.C. Chute, D. Léger, L.D. Frost, S.B. Montgomery, S.M. Lewis, C. Eskiw, and G. Dellaire. (2017) "*PML nuclear bodies contribute to the basal expression of the mTOR inhibitor DDIT4*", **Scientific Reports** 7:45038 IF: 4.41



- 45) Ramdzan, Z.M., V. Ginjala, J.B. Pinder, D. Chung, C.M. Donovan, S. Kaur, L. Leduy, **G. Dellaire**, S. Ganesan, and A. Nepveu. (2017) “*The DNA Repair Function of CUX1 Contributes to Radioresistance*” **Oncotarget** 8(12):19021-19038 **IF: 3.33**
- 46) Buisson, R., N. Joshi, A. Rodrigue, C.K. Ho, J. Kreuzer, T.K. Foo, E.J.-L. Hardy, **G. Dellaire**, W. Haas, B. Xia, J.-Y. Masson, and L. Zou. (2017) “*Coupling of Homologous Recombination and the Checkpoint by ATR*” **Molecular Cell** 65(2):336-346 **IF:17.97**
- 47) Salsman, J., and **G. Dellaire**. (2017) “*Precision Genome Editing in the CRISPR era*” **Biochemistry and Cell Biology** 29:1-15 **IF: 3.63**
- 48) Pauty, J., A. Couturier, A. Rodrigue, M. Caron, Y. Coulombe, **G. Dellaire** and J.-Y. Masson (2017) “*Cancer-causing mutations in the tumour suppressor PALB2 reveals a novel cancer mechanism using hidden nuclear export signal in the WD40 repeat motif*” **Nucleic Acids Research** 45(5):2644-2657
- 49) George, C.J., **G. Dellaire**, and H.P.V. Rapasinghe. (2017) “*Plant flavonoids in cancer chemoprevention: Role in genome stability*”. **The Journal of Nutritional Biochemistry** 45:1-14.
- 50) Couturier, A., H. Fleury, A-M. Patenaude, V. Bentley, Y. Coulombe, A. Rodrigue, N. Joshi, J. Pauty, J. Berman, **G. Dellaire**, J. di Noia, A-M. Mes-Masson, and J-Y. Masson. (2016) “*Functions for APRIN (PDS5B) in homologous recombination and in ovarian cancer prediction*”. **Nucleic Acids Research** 44(22):10879-10897 **IF: 16.97**
- 51) Kahn, I., B. Yoo, O. Masson, S. Baron, D. Corkery, **G. Dellaire**, L. Attardi, and K. Rosen. (2016) “*ErbB2-dependent downregulation of a pro-apoptotic protein Perp is required for oncogenic transformation of breast epithelial cells.*” **Oncogene** 35(44):5759-5769 **IF:9.87**
- 52) Lahsae S, D.P. Corkery, L.E. Anthes, A. Holly, J. Salsman, and **G. Dellaire** (2016) “*Estrogen receptor alpha (ESR1)-signalling regulates the expression of the taxane-response biomarker PRP4K.*” **Experimental Cell Research** 340(1):125-31 **IF:3.91**
- 53) Wertman, J., C.J. Veinotte, **G. Dellaire**, J.N. Berman. (2016) “*The Zebrafish Xenograft Platform: Evolution of a Novel Cancer Model and Preclinical Screening Tool*”. **Adv Exp Med Biol** 916:289-314 **IF:2.62**
- 54) Rajan, V., **G. Dellaire**, and J.N. Berman. (2016) “*Modeling Leukemogenesis in the Zebrafish Using*” Genetic and Xenograft Models. **Methods Mol Biol.** 1451:171-89 **IF:1.17**
- 55) Orthwein, A., S.M. Noordermeer, M.D. Wilson, S. Landry, R.I. Enchev, A. Sherker, M. Munro, J. Pinder, J. Salsman **G. Dellaire**, B. Xia, M. Peter, and D. Durocher. (2015) “*A mechanism for the suppression of homologous recombination in G1 cells*” **Nature** 528(7582):422-6 **IF:49.96**

- 56) \*Pinder, J., J. Salsman, and **G. Dellaire**. (2015). “Nuclear domain “knock-in” screen for the evaluation and identification of small molecule enhancers of CRISPR-based genome editing” **Nucleic Acids Research** 43(19):9379-92\* *Journal Cover* **IF: 16.97**
- 57) Chung, D., and **G. Dellaire** (2015) “The Role of the COP9 Signalosome and Neddylation in DNA Damage Signaling and Repair”. **Biomolecules** 5(4):2388-416 **IF:4.57**
- 58) Corkery, D., A. Holly, S. Lahsae, and **G. Dellaire**. (2015). “Connecting the Speckles: Splicing kinases and their role in tumorigenesis and treatment response” **Nucleus** 6(4):279-88 **IF:4.2**
- 59) El-Naggar, A.M., C.J Veinotte, H. Cheng, T.G.P. Grunewald, G. Luca Negri, S. Prakash Somasekharan, D.P. Corkery, F. Tirode, J. Mathers, D. Khan, A.H Kyle, J.H Baker, N.E. LePard, S.McKinney, S.Hajee, M. Bosiljcic, G. Leprivier, C.E. Tognon, A.I. Minchinton, K.L. Bennewith, O.Delattre, Y. Wang, **G. Dellaire**, J.N. Berman, and P.H. Sorensen. (2015) “Translational activation of HIF1a by YB-1 promotes sarcoma metastasis”. **Cancer Cell** 27(5):682-97 **IF:31.74**
- 60) \*Corkery, D.P., L. Meunier , C. Le Page , D.M. Provencher , A-M Mes-Masson and **G. Dellaire** (2015) “PRP4K is a Her2-regulated modifier of taxane sensitivity” **Cell Cycle** 14(7):1059-69 \**Journal Cover* **IF: 3.58**
- 61) Kalousi, A., A-S. Hoffbeck, P. Selemenakis, J. Pinder, K.I. Savage, K.K. Khanna, L. Brino, **G. Dellaire**, V.G. Gorgoulis, and E. Soutoglou (2015) “The nuclear oncogene SET controls DNA repair by KAP1 and HP1 retention on chromatin”. **Cell Reports** pii: S2211-1247(15)00257-0 **IF: 9.42**
- 62) Sidik, S., J. Salsman, **G. Dellaire**, and J. Rohde (2015) “Shigella infection interferes with SUMOylation and increases PML-NB number”. **PLoS ONE** 10(4):e0122585 **IF: 3.24**
- 63) Bentley, V., C. Veinotte, D. Corkery, J. Pinder, M.A. Leblanc, K. Bedard, A.P Weng, J.N. Berman\*, and **G. Dellaire\*** (2015) “Focused chemical genomics using zebrafish xenotransplantation as a preclinical therapeutic platform for T-cell acute lymphoblastic leukemia” **Haematologica** 100(1):70-6 \**Co-corresponding authors*. **IF: 9.94**
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- 1) The Functional Nucleus. (2016) **Eds. Dellaire** and Bazett-Jones. Springer DE. ISBN: 978-3-319-38882-3
- 2) Cancer Genomics: From bench to personalized medicine. (2014) **Eds. Dellaire**, Berman, Arceci. Elsevier. ISBN: 0123969670

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### **PATENTS**

- 1) **Methods for measuring cell response to DNA damaging agents using promyelocytic leukemia protein nuclear bodies**

US patent application: 20100248226

Inventors: **Graham Dellaire, David Bazett-Jones**

- 2) **Methods of in situ detection of proteins using aptamers.**

US patent application: 20070134665

Inventors: **Graham Dellaire, David Bazett-Jones**

- 3) **A method to map and isolate regions of chromosomes that interact or associate functionally within or between chromosomes *in vivo***

**USA patent No. 6342354, PCT No. WO9855610**

Issued: January 29, 2002

Inventors: Pierre Chartrand, **Graham Dellaire**

### **PUBLISHED ABSTRACTS - CONFERENCE PROCEEDINGS** (last 10 years)

- 1) Thompson, J., J. Salsman, F-M. Boisvert, B. Caradec, **G. Dellaire**, and N. Ridgway (2022) "*Proteome analysis of nuclear Lipid-Associated Promyelocytic Leukemia (PML) Structures (LAPS) Using Biotin Proximity Labelling*" **FASEB Journal** 36(S1):R2137
- 2) McPhee, M.J., J. Lee, **G. Dellaire**, Steven Pelech, and N. Ridgway (2022) "*CTP: phosphocholine cytidyltransferase alpha regulates nLD biogenesis in Caco2 cells*" **FASEB Journal** 36(S1)
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- 8) Rajan V, N Melong, CJV Campbell **G Dellaire**, JN Berman. (2015) "*Fishing with a Transgenic Line: Using Zebrafish to Elucidate Mechanisms and Therapeutics in NUP98-NSDI AML*" **Blood** 126(23):1638
- 9) Filiaggi C, AP Deveau, S Prykhozhiy, **G Dellaire**, JN Berman. (2015) "*A Humanized Zebrafish Transplant Model Expressing CXCL12 Provides an Enhanced In Vivo Therapeutic Screening Platform for T-ALL*" **Blood** 126(23):4273
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Co-authors whom I supervised are underlined below  
(\* indicates oral presentations)

- 1) \*Kratzer, K., and **G. Dellaire** (April 8, 2022) "*Genomic safe harbour site characterization for improved gene editing outcomes*" **2022 Genomics in Medicine Symposium**, Halifax, Canada  
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- 2) Foster, J., **G. Dellaire**, and N. Ridgway (April 2-5, 2022) "*The rate-limiting enzyme in the CDP-choline pathway is regulated by phosphorylation-domain charge density*" **ASMB Experimental Biology 2022**, Philadelphia, USA
- 3) McPhee, M.J., J. Lee, **G. Dellaire**, S. Pelech, and N. Ridgway (April 2-5, 2022) "*CTP:phosphocholine cytidyltransferase alpha regulates nLD biogenesis in Caco2 cells*" **ASMB Experimental Biology 2022**, Philadelphia, USA
- 4) Thompson, J., J. Caradec, J. Saslman, F-M. Boisvert, **G. Dellaire**, and N. Ridgway (April 2-5, 2022) "*Proteome analysis of nuclear Lipid-Associated Promyelocytic Leukemia (PML) Structures (LAPS) Using Biotin Proximity Labelling*" **ASMB Experimental Biology 2022**, Philadelphia, USA
- 5) Van Iderstine, C.R., E. Habib, J. Salsman, M. Whaley, B. Johnston, and G. Dellaire (Nov. 8-11, 2021) "*The pre-mRNA splicing factor 4 kinase (PRP4K) is a tumour suppressor in lung adenocarcinoma*" **2021 Canadian Cancer Research Conference** (Virtual)
- 6) \*Merlin, J.P.J., G. Dellaire, K. Murphy, and H.P.V. Rupasinghe (Nov. 8-11, 2021) "*Dietary antioxidant formulation reduces carcinogen-induced DNA damage in bronchial epithelial cells in vitro*" **2021 Canadian Cancer Research Conference** (Virtual) \*Oral Presentation
- 7) Mathavarajah, S., J. Salsman, I. Braasch, S. Roy, and G. Dellaire (June 14-17, 2021). "*PML and PML-like exon 9 (Plex9) proteins regulate LINE retrotransposition in anamniotes*" **Canadian Society of Molecular Biosciences 64th Annual Conference**. Virtual Conference
- 8) Cook, A., S. Mathavarajah, L. Clarke, J. Salsman, D.P. Corkery, and G. Dellaire (Nov 10-11, 2020) "*Linking PRP4K cytoplasmic functions to tumour suppression*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
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- 11) \*Kratzer, K, J. Salsman, and **G. Dellaire**. (Dec 5-6, 2019) "*Identifying genomic safe harbour sites to reduce the risk of mutation during gene editing*" **2019 Genomics in Medicine Conference, Emerging Technologies and Bioinformatic Challenge**, Halifax, Canada.  
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- 12) Clarke, L., D. Corkery, S. Gebremeskel, A. Cook, S.M. Lewis, B. Johnston, **G. Dellaire**. (Nov 3-5, 2019) "*PRP4K is a potential biomarker for metastasis and its loss is linked to anoikis resistance and partial epithelial-to-mesenchymal transition (EMT)*" **2019 Canadian Cancer Research Conference**, Ottawa, Canada.
- 13) Salsman, J., M. Strachan-Whaley, C. Van Iderstine, R. Al-Sharkawi, B. Johnston, **G. Dellaire**. (Nov 3-5, 2019) "*Impact of promyelocytic leukemia protein loss in the progression and treatment response of a mouse syngeneic model of lung carcinoma*" **2019 Canadian Cancer Research Conference**, Ottawa, Canada.
- 14) Van Iderstine, C.R., M. Whaley, W.W. Lockwood, K. Bedard, B. Johnston, **G. Dellaire**. (Nov 3-5, 2019) "*Impact of pre-mRNA splicing factor 4 kinase (PRP4K) loss on Lung Adenocarcinoma*" **2019 Canadian Cancer Research Conference**, Ottawa, Canada.
- 15) Cruickshank, B., J. Brown, F. Morales, D. Vidovic, C. Dean, C. Van Iderstine, K. Bedard, **G. Dellaire**, P. Marcato. (Nov 3-5, 2019) "*Long non-coding RNA PART1 contributes to cell proliferation and stem cell maintenance in triple-negative breast cancer*" **2019 Canadian Cancer Research Conference**, Ottawa, Canada.
- 16) Lee, J., J. Salsman, **G. Dellaire**, and N. Ridgway. (April 6-10, 2019) "*A Regulatory Mechanism for Nuclear Lipid Droplet Biogenesis*" **ASMB Experimental Biology 2019**, Orlando, USA.
- 17) Salsman, J., K. Attwood, D. Chung, S. Mathavarajah, C. Eskiw and **G. Dellaire**. (March 17-21, 2019) "*PML nuclear bodies as regulatory hubs for the transcription and repair of chromosomal domains*" **Keystone Symposium on 3D Genome: Gene Regulation and Disease (X6)**, Banff, Canada.
- 18) Clarke, L.E., D.P. Corkery, S. Gebremeskel, J. Curwin, S.M. Lewis, B. Johnston, and **G. Dellaire** (Nov 5-6, 2018) "*PRP4K is a potential biomarker for metastasis potential and its loss is linked to anoikis resistance and partial epithelial-to-mesenchymal transition (EMT)*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 19) Van Iderstine, C., L.E. Clarke, K. Bedard, and **G. Dellaire** (Nov 5-6, 2018) "*The Regulation of PRP4K in Lung Cancer and its Role in Treatment Response and Metastasis*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.



- 20) Tam, N.W., **G. Dellaire** and J.P. Frampton. (Nov 5-6, 2018) "*Understanding prostate cancer progression using 3D cell culture in hyaluronic acid hydrogels*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 21) Salsman, J., J. Pinder, K.L. Koskowich, D. Salsman, S. Mathavarajah, M. Whaley, and **G. Dellaire** (Nov 5-6, 2018) "*KSHV ORF45 is a SIM-Containing Protein that Associates with the Promyelocytic Leukemia Protein (PML) During Lytic Replication*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 22) Tam, N.W., **G. Dellaire** and J.P. Frampton. (October 17-20, 2018) "*Understanding prostate cancer progression using 3D cell culture in hyaluronic acid hydrogels*". **Biomedical Engineering Society (BMES) 2018 Annual Meeting**. Atlanta, USA
- 23) Bouzanis, K., C-A. Robinson, J. Salsman, E. Pringle, **G. Dellaire** and C. McCormick (June 13-15, 2018) "*PML isoform switching during KSHV lytic reactivation*" **CSV2018: The 2nd Symposium of the Canadian Society for Virology**, Halifax, Canada
- 24) \*Clarke, L., D. Corkery, S. Gebremeskel, J. Salsman, J. Pinder, C. Le Page, L. Meunier, Z. Xu, A-M. Mes-Masson, J. Berman, B. Johnston, **G. Dellaire**. (May 26-29, 2018) "*PremRNA Splicing Factor 4 Kinase (PRP4K): A novel prognostic biomarker in ovarian cancer whose loss is associated with taxane and anoikis resistance.*" **Canadian Conference on Ovarian Cancer Research**, Edmonton, Canada \*Oral Presentation
- 25) Rodrigue, A., M. Ducy, T. Wiltshire, Y. Coulombe, G. Marguillan, J. Pauty, P. Soucy, **G. Dellaire**, M.A. Carvalho, A. Monteiro, F.J. Couch, J. Simard, and Jean-Yves Masson (May 8-11, 2018) "*Functional analysis of the PALB2 tumor suppressor*" **BRCA 2018 From the Personal to the Population, 7th International Symposium on Hereditary Breast and Ovarian Cancer**, Montreal, Canada
- 26) \*Richardson, M., V. Rajan, C. Veinotte, A. Balboni, G. Dellaire, K. Stegmaier, Jason N Berman (April 17, 2018). "*Mutation Induced Loss of STAG2 Promotes the Metastasis of Ewing Sarcoma*" **Department of Pediatrics Research Day, IWK Health Centre**, Halifax, Canada.
- 27) Clarke, L., D. Corkery, S. Gebremeske, J. Salsman, J. Pinder, C. Le Page, L. Meunier, Z. Xu, A-M. Mes-Masson, J. Berman, B. Johnston, **G. Dellaire**. (Nov 5-7, 2017) "*Reduced PRP4K expression alters epidermal growth factor receptor trafficking and contributes to metastasis by suppressing anoikis*" **Canadian Cancer Research Conference**, Vancouver, Canada
- 28) Wertman, J., B. Razaghi, S. Steele, **G. Dellaire**, M. Irwin, J. Berman. (Nov 5-7, 2017) "*A zebrafish model to screen for compounds that protect against cisplatin-induced toxicities*" **Canadian Cancer Research Conference**, Vancouver, Canada
- 29) Melong, N., S. Steele, M. MacDonald, A. Holly, C.C. Collins, A. Zoubeidi, J.N. Berman, and **G. Dellaire** (Nov 5-7, 2017) "*Enzalutamide inhibits testosterone-induced growth of human*

*prostate cancer xenografts in zebrafish and can induce bradycardia*” **Canadian Cancer Research Conference**, Vancouver, Canada

- 30) Anthes, L.E., J. Salsman, and G. Dellaire (June 24-27, 2017). “*Characterizing metformin treatment response and sensitivity biomarkers in breast cancer.*” **EACR-AACR-SIC Special Conference 2017 - The Challenges of Optimizing Immuno- and Targeted Therapies : From Cancer Biology to the Clinic**, Florence, Italy.
- 31) Melong, N., S. Steele, M. MacDonald, A. Holly, C.C. Collins, A. Zoubeidi, J.N. Berman, and G. Dellaire (June 11-13, 2017) "*Enzalutamide inhibits testosterone-induced growth of human prostate cancer xenografts in zebrafish and can induce bradycardia*" **North Atlantic Zebrafish Research Symposium (NAZRS)**, Orono, Maine, USA
- 32) Rajan, V., S.V. Prykhkhozhij, A. Pandey, J. Rainey, G. Dellaire, and J.N. Berman (April 27, 2017). “*The D816V mutation results in KIT activation independent of protein dimerization*” **Department of Pediatrics Research Day, IWK Health Centre**, Halifax, Canada
- 33) \*Richardson, M., G. Dellaire, and J.N. Berman (April 27, 2017). “*Mutation induced loss of STAG2 promotes the metastasis of Ewing’s Sarcoma*” **Department of Pediatrics Research Day, IWK Health Centre**, Halifax, Canada \*Oral presentation
- 34) \*Filiaggi, C., G. Dellaire, and J.N. Berman (April 27, 2017). “*Using zebrafish to investigate the role of NUP98-NSDI oncogene and loss of NUP98 in acute myeloid leukemia*” **Department of Pediatrics Research Day, IWK Health Centre**, Halifax, Canada \*Oral presentation
- 35) Wertman, J., B. Razaghi, S. Steele, **G. Dellaire**, and J.N. Berman (April 27, 2017). “*Developing a model to screen for compounds that protect against cisplatin-induced toxicities*” **Department of Pediatrics Research Day, IWK Health Centre**, Halifax, Canada
- 36) Gawron, N., and G. Dellaire (Feb 11, 2017) “*Effects of Promyelocytic Leukemia (Pml) Expression Loss On Breast Cancer Cell Growth and Stemness*” **31<sup>st</sup> Annual Cameron Conference in Biology and Marine Biology**, Halifax, Canada.
- 37) Couturier A.M., R. Buisson, A. Rodrigue, J. Pauty, N. Joshi, M.C. Caron, Y. Coulombe, **G. Dellaire**, L. Zou and \*J.Y. Masson (Jan. 8-13, 2017) "*Regulation of the tumor suppressor PALB2: A critical player for homologous recombination at a CRISPR/Cas9-induced DNA double-strand break*" \*Platform presentation by J.Y. Masson. **Keystone Symposium on Precision Genome Engineering**, Breckenridge, USA
- 38) Enfield, K.S.S., D.A. Rowbotham, A. Holly, C. Anderson, K.W. Ng, B. de Carvalho Minatel, **G. Dellaire**, C. Pastrello, I. Jurisica, C. MacAulay, S. Lam, and W.L. Lam (Dec 4-7, 2016) "*Overexpression of miR-106a and miR-106b improves the prognostic value of mesenchymal lung adenocarcinoma*" **IASLC 17TH World Conference on Lung Cancer**, Vienna, Austria

- 39) \*Anthes, L., J. Salsman, and **G. Dellaire** (Nov 7-8, 2016) "*Characterizing Metformin Response and Sensitivity Biomarkers In Breast Cancer*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada. \*Platform presentation by L.A.
- 40) Chung, D., and **G. Dellaire** (Nov 7-8, 2016) "*Intracellular Localization of the COP9 Signalosome Subunits and the effect in the DNA Damage Response*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 41) Bolous, Y., S. Gebremeskel, J. Salsman, **G. Dellaire** and B. Johnston (Nov 7-8, 2016) "*Knockdown of the Promyelocytic Leukemia Protein in a Murine 4T1 Breast Cancer Model Promotes Tumor Growth and Proliferation*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 42) Corkery, D., L. Clarke, S. Gebremeskel, J. Salsman, J. Pinder, C. Le Page, Z. Xu, Anne-Marie Mes-Masson, B. Johnston, J.N. Berman, and **G. Dellaire**. (Nov 7-8, 2016) "*Loss of PRP4K drives anoikis resistance via dysregulation of epidermal growth factor receptor endosomal trafficking*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 43) Salsman, J., A. Stathakis, E. Parker, D. Chung, L. Anthes, K.L. Koskowich, S. Lahsae, D. Gaston, K.R. Kukurba, K.S. Smith, I.C. Chute, D. Léger, L.D. Frost, S.B. Montgomery, S.M. Lewis, C. Eskiw, and **G. Dellaire**. (Nov 7-8, 2016) "*PML regulates DDIT4 gene expression*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 44) Chung, D., K. Koskowich, J. Pinder, J. Salsman, S. O'Brien, C. McCormick and **G. Dellaire** (Nov 7-8, 2016) "*Kaposi's Sarcoma Virus Protein ORF45 interacts with Promyelocytic Leukemia Protein*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 45) Wertman, J., B. Razaghi, S. Steele, **G. Dellaire**, and J.N. Berman (Nov 7-8, 2016). "*Developing a model to screen for compounds that protect against cisplatin-induced toxicities*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 46) Rajan, V., N. Melong, C.J.V. Campbell, **G. Dellaire** and J. Berman (Nov 7-8, 2016) "*Humanizing zebrafish to study the human leukaemic microenvironment*" **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada
- 47) Amaraarathna, D.I.M, D. Chung, **G. Dellaire**, D.W. Hoskin, M. Johnston and H.P.V. Rupasinghe. (June 28, 2016) "*Flavonoid-rich Haskap berry extracts prevent NNK-induced DNA double strand breaks in lung epithelial cells*". **Summit for Cancer Immunotherapy**. Halifax, Canada.
- 48) Filiaggi, C., A.P. Deveau, S. Prykhozhiy, G. Dellaire and J.N. Berman (Dec 5-8, 2015) "*Fishing with a Transgenic Line: Using Zebrafish to Elucidate Mechanisms and Therapeutics in NUP98-NSD1 AML*" **57th Annual American Society of Hematology (ASH) Meeting**, Orlando, USA

- 49) Rajan, V., N. Melong, C.J.V. Campbell, G. Dellaire and J. Berman (Dec 5-8, 2015) "*Enhanced In vivo Therapeutic Screening Platform for T-ALL*" **57th Annual American Society of Hematology (ASH) Meeting**, Orlando, USA
- 50) Enfield, K.S.S., D.A. Rowbotham, A. Holly, C. Anderson, K.W. Ng, B. de Carvalho Minatel, **G. Dellaire**, C. Pastrello, I. Jurisica, C. MacAulay, S. Lam, and W.L. Lam (Dec 4-7, 2015) "*MiR-106a and miR-106b affect growth and metastasis of lung adenocarcinoma*" **AACR Special Conference on Noncoding RNAs and Cancer: Mechanisms to Medicines** Boston, USA
- 51) Anthes, L.E., J. Salsman, V.L. Bentley, and **G. Dellaire** (Nov 8-11, 2015). "*Characterizing the mechanisms of metformin response in breast cancer*" **Canadian Cancer Conference**, Montreal, Canada
- 52) Attwood, K.L., and **G. Dellaire** (Nov 8-11, 2015). "*The effect of chromatin structure and subnuclear localization of a DNA break on the progress of DNA repair*" **Canadian Cancer Conference**, Montreal, Canada
- 53) Corkery, D.P., S. Gebremeskel, B. Johnston, and **G. Dellaire** (Nov 8-11, 2015). "*PRP4K: a mediator of chemoresistance and acites development in ovarian cancer*" **Canadian Cancer Conference**, Montreal, Canada
- 54) Holly, A., M. MacDonald, D.P. Corkery, J.N. Berman, A. Zoubeidi, and **G. Dellaire** (Nov 8-11, 2015). "*Zebrafish Xenograft: A model for Prostate Cancer*" **Canadian Cancer Conference**, Montreal, Canada
- 55) Salsman, J., J. Pinder, and **G. Dellaire** (Nov 8-11, 2015). "*Editing the promyelocytic leukemia gene using Cas9/CRISPR technology*" **Canadian Cancer Conference**, Montreal, Canada
- 56) Pringle, E.S., A.J. Coombs, C. Veinotte, C.A. Robinson, M.N. Ha, **G. Dellaire**, J.N. Berman and C. McCormick. (Nov 8-11, 2015). "*A zebrafish model for primary effusion lymphoma*" **Canadian Cancer Conference**, Montreal, Canada
- 57) Rajan, V., S. Prykhozij, A. Pandey, J. Rainey, **G. Dellaire**, and J.N. Berman (Nov 8-11, 2015). "*A zebrafish model for primary effusion lymphoma*" **Canadian Cancer Conference**, Montreal, Canada
- 58) Veinotte C.J., N. Melong, A. El-Naggar, B. Crompton, **G. Dellaire**, K. Stegmaier, P.H.B. Sorensen, and J.N. Berman (Nov 8-11, 2015). "*Using zebrafish to investigate molecular players influencing Ewing's Sarcoma proliferation and metastasis*" **Canadian Cancer Conference**, Montreal, Canada
- 59) Wertman, J., B. Razaghi, S. Prykhozij, **G. Dellaire**, P.H.B. Sorensen, M. Irwin, and J.N. Berman (Nov 8-11, 2015). "*Investigation of the role of the HACE1 tumour suppressor in high-risk pediatric neuroblastoma*" **Canadian Cancer Conference**, Montreal, Canada

- 60) Holly, A., M. MacDonald, D. Corkery, J.N. Berman and **G. Dellaire** (June 8th, 2015) "*Zebrafish xenograft: A Model for Prostate Cancer*" **4th North Atlantic Zebrafish Research Symposium**, Halifax, Canada
- 61) Hall, S.R., J. Toulany, C.J. Veinotte, B. Razaghi, A.W. Robertson, C. Martinez-Farina, D.L. Jakeman, **G. Dellaire**, J.N. Berman, and K.B. Goralski (2015, June 20-23) "*Jadomycin B is selectively toxic to triple negative human breast cancer cells in a zebrafish xenotransplantation model*". **European Cancer Organization (EACR-AACR-SIC) Special Conference: Anticancer Drug Action and DRug Resistance: from Cancer Biology to the Clinic**. Florence, Italy.
- 62) \*Pinder, J.B., J. Salsman, and **G. Dellaire** (2015 March 1-6) "*Enhancing efficiency of Cas9-stimulated homology-directed repair*". **Keystone Symposium on Genome Instability and DNA Repair (X4)**, Whistler, Canada. \*Oral presentation by JB
- 63) Klement, K., M.S. Luijsterburg, J.B. Pinder, C.S. Cena, V. Del Nero, C.M. Wintersinger, **G. Dellaire**, H. van Attikum, and A.A. Goodarzi (2015 March 1-6) "*Opposing ISWI- and CHD-class chromatin remodelling activities orchestrate heterchromatic DNA repair*". **Keystone Symposium on Genome Instability and DNA Repair (X4)**, Whistler, Canada.
- 64) Bentley, V.L., C.J. Veinotte, D.P. Corkery, J.B. Pinder, M.A. LeBlanc, K. Bedard, A.P. Weng, J.N. Berman, **G. Dellaire**. (2015 Feb 13). "*Zebrafish xenotransplantation identifies a targetable NOTCH1 mutation in a child with T-cell acute lymphoblastic leukemia*" **Memorial-Dalhousie University Conference**, St. John's, Newfoundland
- 65) \*Lobbardi, R., J. Pinder, B. Martinez, J.S. Blackburn, N.S. Abdelfattah, D. Toiber, M. de Waard, E. Jain, R.I. Sadreyev, J.M. Asara, R. Mostoslavsky, **G. Dellaire**, D.M. Langenau (2014 Dec 6-9) "*Thymocyte Selection-Associated High-Mobility Group Box Protein (TOX) Induces Genomic Instability in T-Cell Acute Lymphoblastic Leukemia*". **56th American Society for Hematology (ASH) Annual Meeting**, San Francisco, USA \*Oral presentation
- 66) Pinder, J., C. McCormick, and **G. Dellaire** (2014 Nov 3-4) "*Comprehensive Screening of Interactions of the Kaposi's Sarcoma Herpes Virus (KSHV) Proteome with Host Ubiquitin-related Proteins*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 67) Salsman J., V. Bentley, K. Colye, S. Lewis, P. Marcato, R. Jones, and **G. Dellaire** (2014 Nov 3-4) "*Characterization of the mechanisms of action and resistance to metformin in breast cancer*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 68) Pinder, J., C. McCormick, and **G. Dellaire** (2014, Oct. 19-24) "*Comprehensive Screening of Interactions of the Kaposi's Sarcoma Herpes Virus (KSHV) Proteome with Host Ubiquitin-related Proteins*". **EMBO Conference: Ubiquitin & ubiquitin-like proteins: At the crossroads from chromatin to protein**, Buenos Aires, Argentina

- 69) Bentley, V.L., C.J. Veinotte, D.P. Corkery, J.B. Pinder, M.A. LeBlanc, K. Bedard, A.P. Weng, J.N. Berman, and G. Dellaire (2014, June 28-July 1) "*Zebrafish xenotransplantation identifies a targetable NOTCH1 mutation in a child with T-cell acute lymphoblastic leukemia*" **7th Zebrafish Disease Models Conference (ZDM7)**, Madison, USA
- 70) Lobbardi, R., N. Abdelfattah, J. Pinder, B. Martinez, D. Toiber, J.S. Blackburn, M. de Waard, **G. Dellaire**, R. Mostoslavsky, D.M. Langenau (2014, June 28-July 1) "*A large-scale transgenic screen in zebrafish identifies TOX as a novel oncogene in T-cell acute lymphoblastic leukemia.*" **7th Zebrafish Disease Models Conference (ZDM7)**, Madison, USA
- 71) \*Bentley V.L., C.J. Veinotte, Y. Liu, R.T. Peterson, J.N. Berman and G. Dellaire (2014, June 24-28) "*Modeling and preventing anthracycline and tyrosine kinase inhibitor induced cardiotoxicity in Zebrafish*" **11th Annual International Conference on Zebrafish Development and Genetics**, Madison, USA \*Oral Presentation by VLB
- 72) Veinotte, C, B. Crompton, N. Melong, K. Fraser, P.B. Sorensen, G. Dellaire, K. Stegmaier, and J.N. Berman (2014, June 24-28). "*Using Zebrafish Xenotransplantation to Evaluate Anti-Cancer Drug Efficacy: Examining the Impact of Focal Adhesion Kinase Inhibition on Ewing's Sarcoma Cell Proliferation and Metastasis.*" **11th Annual International Conference on Zebrafish Development and Genetics**, Madison, USA
- 73) Asnani, A., Y. Liu, L. Zou, V.L. Bentley, M. Yu, Y. Wang, **G. Dellaire**, K.S. Sarkar, M. Dai, H.H. Chen, D.E. Sosnovik, J.T. Shin, D.A. Haber, J.N. Berman, W.Chao, \*R.T. Peterson. (2014, June 24-28) "*Visnagin Protects Against Doxorubicin-Induced Cardiomyopathy Through Inhibition of Mitochondrial Malate Dehydrogenase.*" **11th Annual International Conference on Zebrafish Development and Genetics**, Madison, USA \*Oral Presentation by RTP
- 74) Bentley, V.L., C.J. Veinotte, Y. Liu, R. Peterson, G. Dellaire†, and J.N. Berman† (2014, April 29) "*Modeling tyrosine kinase inhibitor induced cardiotoxicity in Zebrafish*" Department of Pediatrics Research Day, IWK Health Centre, Halifax, Canada † Co-corresponding authors.
- 75) \*Bentley, V.L., C.J. Veinotte, D.P. Corkery, J.B. Pinder, M.A. LeBlanc, K. Bedard, A.P. Weng, J.N. Berman, and G. Dellaire (2014, April 29) "*Zebrafish xenotransplantation as a preclinical therapeutic platform for T-cell acute lymphoblastic leukemia*" Department of Pediatrics Research Day, IWK Health Centre, Halifax, Canada \*Oral presentation by VLB
- 76) Bentley, V.L., C.J. Veinotte, D. Corkery, M.A. Leblanc, K. Bedard, A.P. Weng, G. Dellaire, and J.N. Berman (2013 Dec 7-10) "*Zebrafish Xenotransplantation and Focused Chemical Genomics: A Preclinical Therapeutic Model For T-Cell Acute Lymphoblastic Leukemia*" **55th American Society for Hematology (ASH) Annual Meeting**, New Orleans, USA

- 77) Salsman, J., S. Lahsae, S. Montgomery, S. Lewis, and **G. Dellaire**. (2013 Nov. 3-6) "*Application of translation state array and next-generation RNA-sequencing to interrogate PML-regulating signalling.*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 78) Corkery, D., L. Meunier, S. Lahsae, A-M. Mes-Masson, J.N. Berman, and **G. Dellaire**. (2013 Nov. 3-6) "*Understanding the role of PRP4K in the development of taxane resistance in breast cancer*". **Canadian Cancer Research Conference**. Toronto, Canada.
- 79) Bentley, V.L., D. Corkery, C. Veinotte, M. LeBlanc, A.P. Weng, K. Bedard, J.N. Berman and **G. Dellaire**. (2013 Nov. 3-6) "*Focused chemical genomics using the zebrafish XT model to determine therapeutic options in T-cell lymphoblastic leukemia.*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 80) Pinder, J.B., C. McCormick, and **G. Dellaire**. (2013 Nov. 3-6) "*A comprehensive yeast two-hybrid library for assessing pairwise interactions with proteins encoded by the DNA tumor virus KSHV*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 81) Lahsae, S., D. Corkery, J. Salsman, C. Mitchell, and **G. Dellaire**. (2013 Nov. 3-6) "*Estradiol regulated PRP4K gene expression in breast cancer cells post-transcriptionally via its 3' UTR*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 82) Coyle, K.M., C.A. Dean, L.Z. Pan, D.G. Ahn, J. Salsman, **G. Dellaire**, P.W. Lee, and P. Marcato. (2013 Nov. 3-6) "*Total-genome-knockdown screen identifies genes involved in retinoic-acid-mediated breast tumor progression.*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 83) Pringle, E.S., C. Veinotte, M.N. Ha, **G. Dellaire**, Jason N. Berman, and C. McCormick. (2013 Nov. 3-6) "*A zebrafish model for primary effusion lymphoma.*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 84) Hall SR, C.J. Veinotte, A.W. Robertson, C. Martinez-Farina, D.L. Jakeman, **G. Dellaire**, J.N. Berman, and K.B. Goralski. (2013 Nov. 3-6) "*Jadomycins induce the generation of reactive oxygen species and are cytotoxic to human breast cancer cells both in vitro and xenotransplanted in zebrafish embryos.*" **Canadian Cancer Research Conference**. Toronto, Canada.
- 85) Hagerty M., C. Veinotte, **G. Dellaire**, and J.N. Berman (2013 Sept. 18-21) "*Zebrafish xenotransplantation as a model to predict tumour radiosensitivity*". **27th CARO Annual Scientific Meeting**, Montreal, Canada
- 86) Lahsae, S., D. Corkery, J. Salsman, C. Mitchell, **G. Dellaire** (2013 August 20-24) "*Estradiol regulates PRP4K gene expression post-transcriptionally via its 3' UTR*" **Cold Spring Harbor Symposium on Eukaryotic mRNA Processing**, Cold Spring Harbor, New York, USA
- 87) \*Berman, J.N. D. Corkery, C. Veinotte, V. Bentley, V. Rajan, S. Prykhozhiy, A.M. Forrester, D. Smithen A. El-Naggar, A. Thompson, A. Weng, P.B. Sorensen, and G. Dellaire. (2013 July



- 9-11) *“Personalized Cancer Therapy: A Zebrafish Xenograft Platform Identifies Novel Therapeutic Compounds in Leukemia and Targets for Prevention of Metastasis in Ewing sarcoma” Zebrafish Disease Models 6 (ZDM 6)*, Murcia, Spain, \*Oral presentation by J.N.B.
- 88) \*Bentley, V.L., D.Corkery, C. Veinotte, **G. Dellaire** and J.N. Berman (2013 June 15-16) *“Zebrafish xenotransplantation as a pre-clinical tool for drug discovery in T-cell acute lymphoblastic leukemia” North Atlantic Zebrafish Zebrafish Research (NAZR)*, Orono, Maine, USA \*Oral presentation by V.L.B.
- 89) Smithen, D.A., A.M. Forrester, D.P. Corkery, **G. Dellaire**, J. Colpitts, S.A. McFarland, J.N. Berman, and A. Thompson (2013 May 26-28) *“Investigations Regarding the Utility of Prodigiosenes to Treat Leukemia”*. **96th Canadian Chemistry Conference and Exhibition**, Quebec, Canada
- 90) Coyle, K. M., C. Dean, L.Z. Pan, D.G. Ahn, J. Salsman, **G. Dellaire**, P.W. Lee, and P. Marcato. (2013 May 13) *“Using total genome knockdown to explore retinoic-acid based signaling in breast cancer progression.”* **Integrated Health Research Training Partnership Research Day, Dalhousie University**, Halifax, Canada
- 91) \*Corkery, D.P., J. Berman, **G. Dellaire** (2013 May 9-11) *“Using a zebrafish xenotransplant model to study taxane resistance in breast and ovarian cancer”* **4th Annual TFRI Scientific Meeting**, Ottawa, Canada \*Abstract chosen for a oral presentation by D.P.C.
- 92) \*Bentley, V.L., D. Corkery, C. Veinotte, J.N. Berman, and **G. Dellaire** (2013 May 9-11) *“Zebrafish XT: a pre-clinical animal tumour model for the discovery of novel therapies for T-cell acute lymphoblastic leukemia”* **4th Annual TFRI Scientific Meeting**, Ottawa, Canada \*Abstract chosen for a oral presentation by V.L.B.
- 93) Hall SR, C.J. Veinotte, A.W. Robertson, C. Martinez-Farina, D.L. Jakeman, **G. Dellaire**, J.N. Berman, and K.B. Goralski. (2013 May 7) *“Analysis of Jadomycin Breast Cancer Cytotoxicity in In Vitro and In Vivo Models and the Role Played by Reactive Oxygen Species”*. **Pharmacology Graduate Research Day**. Halifax, Canada.
- 94) Bentley, V., C. Veinotte, D. Corkery, **G. Dellaire**, J.N. Berman (2013 April 30) *“Zebrafish XT: a pre-clinical animal model for the discovery of novel therapies for T-cell acute lymphoblastic leukemia”*. **Department of Pediatrics Research Day, IWK Health Centre**, Halifax, Canada
- 95) Pinder, J.B. I. Soares, F.A. Caetano, V. Ostapchenko, F.H. Beraldo, V.F. Prado, **G. Dellaire**, M.A.M. Prado. (2013 March 3-8) *“Interaction of molecular co-chaperone STII/Hop with the SUMO E3 ligase PIAS1 is required for nuclear accumulation of STII following ionizing radiation-induced DNA damage”* **Keystone Symposium on Genome Instability and DNA Repair (X3)**, Banff, Canada

- 96) Del Nero, V., J.B. Pinder, C.S. Cena, G.F. Rodrigues, H. van Attikum, **G. Dellaire**, and A.A. Goodarzi (2013 March 3-8) "RNF20-ACF1-SNF2H nucleosome remodeling counteracts KAP1-CHD3 to facilitate DNA double strand break repair in heterochromatin" **Keystone Symposium on Genome Instability and DNA Repair (X3)**, Banff, Canada
- 97) Attwood, K.M., K. Missiaen, S. Ghosh, R. Mirzayans, **G. Dellaire**, and M.J. Hendzel. (2013 March 3-8) "*Polymerized nuclear actin is required for the retention of KU80 at the site of UV-laser induced DNA double-strand breaks*" **Keystone Symposium on Genome Instability and DNA Repair (X3)**, Banff, Canada
- 98) \*Pinder, J., J. Salsman, B. Tse, M. Luke, and **G. Dellaire** (2012 Nov 5-6) "*Isoform-specific interactions of the promyelocytic leukemia protein (PML) with the translation initiation factor 3 subunits eIF3K and eIF3F*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada. \*(1<sup>st</sup> Prize Best Poster)
- 99) Salsman, J., S. Lahsaee, S. Montgomery, S. Lewis, and **G. Dellaire** (2012 Nov 5-6) "*Dissecting PML-regulated signaling using gene chip microarray and RNA-sequencing technology*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 100) Sathiyaseelan, P., S. Lahsaee, and **G. Dellaire** (2012 Nov 5-6) "*Characterization of the PRP4K gene promoter function in breast cancer cells*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 101) Corkery, D., S. Lahsaee, J.N. Berman, and **G. Dellaire** (2012 Nov 5-6) "*Mammalian PRP4K function in chemotherapy resistance in breast cancer*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 102) Lahsaee, S., D. Corkery, C. Mitchell, and **G. Dellaire** (2012 Nov 5-6) "*Regulation of PRP4K gene expression in breast cancer*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 103) Veinotte, C.J., A. El-Naggar, D. Corkery, **G. Dellaire**, M.L. Bernstein, P.B. Sorensen, and J.N. Berman (2012 Nov 5-6) "*Using zebrafish to streamline in vivo models of cancer and dive into Ewing's Sarcoma*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 104) Bentle, V.L., V. Rajan, D. Corkery, C. Veinotte, S. Prykhozhij, A.P. Weng, P. Chiu, J.N. Berman, and **G. Dellaire** (2012 Nov 5-6) "*Zebrafish XT: A pre-clinical animal tumour model for the discovery of novel therapies for T-cell acute lymphoblast leukemia*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.
- 105) Attwood, K.M., and **G. Dellaire** (2012 Nov 5-6) "*Effect of chromatin structure and the subnuclear localization of a DNA break on the progress of DNA repair*". **Beatrice Hunter Atlantic Cancer Research Symposium**, Halifax, Canada.

- 106) Berman, J.N., D. Corkery, C. Veinotte, T.B. Balci, A.M. Forrester, A. Thompson, P.B. Sorensen, A. Weng, and **G.Dellaire** (Sept. 7-9, 2012) "*A zebrafish xenograft platform as an in vivo tool for drug screening and personalized cancer therapy*" **Personalized Cancer Care Symposium**, Oslo, Norway **Funded by CIHR/NSERC via CHRP**
- 107) Corkery, D., T. Balci, J.N. Berman, and **G. Dellaire** (March 31-April 4, 2012). "*Evaluating novel targeted therapeutic agents in T-cell acute lymphoblastic leukemia using a zebrafish xenotransplantation model*" **2012 American Association for Cancer Research (AACR) Annual Meeting**, Chicago, USA **Funded by CIHR/NSERC via CHRP**
- 108) Forrester, M.A., D.A. Smithen, E. Marchal, D. Corkery, **G. Dellaire**, J.N. Berman, and A. Thompson (March 31-April 4, 2012). "*In Vivo Anti-Leukemia Activity Of Novel Prodigiosene Compounds In A Zebrafish Xenograft Model*" **2012 American Associate for Cancer Research (AACR) Annual Meeting**, Chicago, USA
- 109) Veinotte, C.J., D. Corkery, **G. Dellaire**, M.L. Bernstein, P.B. Sorensen, and J.N. Berman (March 31-April 4, 2012). "*Using zebrafish xenotransplantation to study the role of Y-Box binding protein (YB-1) in the metastasis of Ewing family tumors*" **2012 American Associate for Cancer Research (AACR) Annual Meeting**, Chicago, USA
- 110) Kepkay, R., K. Attwood, Y. Ziv, Y. Shiloh, and **G. Dellaire** (March 14-18, 2012) "*KAPping Bodies*" **55th Annual Meeting of the Canadian Society for Molecular Biosciences (CSMB): Epigenetics and Genome Stability**, Whistler, Canada **Funded by CIHR**
- 111) \*Attwood, K.M., K. Missiaen, S. Ghosh, R. Mirzayans, **G. Dellaire**, and M.J. Hendzel. (March 14-18, 2012) "*Polymerized nuclear actin is required for the retention of KU80 at the site of UV-laser induced DNA double-strand breaks*" **55th Annual Meeting of the Canadian Society for Molecular Biosciences (CSMB): Epigenetics and Genome Stability**, Whistler, Canada **Funded by CIHR** \*Travel Award
- 112) Corkery, D., T. Balci, C. Veinotte, K. Sinclair, **G. Dellaire**, J.N. Berman (March 5-8, 2012) "*Using a Zebrafish Xenotransplant Model to Study Drug Response and Metastasis in Paediatric Cancers*" **6th Canadian Developmental Biology Conference, Canadian Zebrafish Workshop**, Banf, Canada

**INVITED PRESENTATIONS** (last 10 years)

**(53 Total)**

- 1) **Dellaire, G.** (February 17, 2021) "*CRISPR/Cas9 Gene editing: Knowledge Transfer Session*" **Pest Management Regulatory Agency (PMRA) of Health Canada**, Ottawa, Canada – presentation on the use of gene editing in pest management for 230 attendees, including Health Canada Executives, Regulatory Scientists, Policy Analysts, Research Scientists, Economic Analysts, Ethicists, Legal Counselors, and Bio-statisticians.
- 2) **Dellaire, G.** (January 28, 2021) "*PML body functional pleiotropy: Regulatory hubs for lipid biogenesis, transcription & repair of chromosomal domains*" **University of Saskatchewan Seminar Series**, Saskatoon, Canada.

- 3) **Dellaire, G.** (April 5-9, 2020) "Pre-mRNA processing factor 4 kinase (*PRP4K*): a haploinsufficient tumour suppressor" **12<sup>th</sup> Conference on Signalling in Normal and Cancer Cells**, Banff, Canada. Cancelled due to COVID19 Pandemic
- 4) Chung, D.\* and **G. Dellaire.** (Dec 5-6, 2019) "*Genome editing with CRISPR/Cas9*" **2019 Genomics in Medicine Conference, Emerging Technologies and Bioinformatic Challenge**, Halifax, Canada. \*Oral Presentation by DC
- 5) **Dellaire, G.** (2019, Nov 4) "*Model Systems in Cancer Research*" **2019 Canadian Cancer Research Conference**, Ottawa, Canada.
- 6) **Dellaire, G.** (2019, Feb 27). "*CRISPR gene editing: Clinical applications and ethical concerns*". **Department of Ophthalmology Grand Rounds, Dalhousie University**, Halifax, Canada.
- 7) **Dellaire, G.** (2018, June 12). "*Focus on Cancer Diagnosis*". **7<sup>th</sup> Annual Canadian Human and Statistical Genetics Meeting**, Harrison Hotsprings, Canada.
- 8) **Dellaire, G.** (2017 Nov 4). "*Identification of small molecules for cancer therapy and enhanced gene editing using CRISPR/Cas9-based DNA repair strategies*". **2017 Canadian Cancer Research Conference**, Vancouver, Canada.
- 9) **Dellaire, G.** (2017 Oct. 12). "*Seeing beyond the diffraction limit: Super-resolution microscopy techniques and applications*". **Department of Pathology Grand Rounds, Dalhousie University**, Halifax, Canada.
- 10) **Dellaire, G.** (2017 April 16). "*PML nuclear bodies: genome organizers and hubs for DNA transcription and repair*". **2017 Quantitative Biology Workshop Series: Physical Basis of Functional Genome Organization (FGO)**, Barbados.
- 11) **Dellaire, G.** (2017 Feb. 6). "*How to edit a Genome*". **Nova Scotia Institutes of Science, 2016-2017 Lecture Series**, Halifax, Canada.
- 12) **Dellaire, G.** (2016 Sept. 28). "*Genome editing in the Era of CRISPR*" Department of Genetics, IWK Health Centre (**IWK Lab Genetics Seminars**), Halifax, Canada.
- 13) **Dellaire, G.** (2016 April 20). "*CRISPR advances in genome editing*" Department of Biochemistry & Molecular Biology and the Department of Genetics (**BMBDG Seminar Series**), University of British Columbia, Vancouver, Canada.
- 14) **Dellaire, G.** (2015 Dec. 16) "*Advances in genome engineering*". **Genome Atlantic Human Genomics/Genetics Seminar Series**, Halifax, Canada
- 15) **Dellaire, G.** (2015 Nov. 8) "*Genome Editing: A brief primer*". **Canadian Cancer Research Conference**, Montreal, Canada

- 16) **Dellaire, G.** (2015 April 14) “*Personalizing cancer therapy and mitigating treatment toxicity using the zebrafish*”. Seminar for the **Institut de recherches cliniques de Montréal (IRCM)**, Montreal, Canada
- 17) \***Pinder, J.B., J. Salsman,** and **G. Dellaire** (2015 March 1-6) “*Enhancing efficiency of Cas9-stimulated homology-directed repair*”. **Keystone Symposium on Genome Instability and DNA Repair (X4)**, Whistler, Canada. \*Oral presentation by JB
- 18) **Dellaire, G.** (2015 February 27) “*CRISPR and Fish: Novel cell and zebrafish models for cancer research*”. Seminar for the **Vancouver Prostate Cancer Centre**, Vancouver, Canada
- 19) **Dellaire, G.** (2014 August 6) “*The zebrafish as a pre-clinical animal model for precision medicine*”. Seminar for the **Genetics Unit, BC Cancer Agency**, Vancouver, Canada
- 20) **Dellaire, G.** (2014 June 13) “*The zebrafish as a pre-clinical animal model for precision medicine*”. Plenary Lecture for the **Graduate Research Symposium, Div. of Biomedical Sciences, Faculty of Medicine, Memorial University**, St. Johns, Canada
- 21) **Dellaire, G.** (2014 April 9) “*Fishing for better pre-clinical animal models: using the zebrafish as a tool for precision medicine*”. Seminar for the **Atlantic Cancer Research Institute**, Moncton, Canada
- 22) **Bristow, R.G., J. Thoms,** and **G. Dellaire** (2014 Feb 14) “*Resistance to Curative Radiotherapy in Prostate Cancer: Personalizing Therapy Using Hypoxia and Genomic Factors*” Video conferenced seminar (Vancouver, Toronto, Halifax, St. John) for the **Vancouver Prostate Cancer Centre**, Vancouver, Canada.
- 23) **Dellaire, G.** (2013 Sept 18) “*From Laptop to Bench top and back again: Building better hypotheses and testing them*” Invited seminar for the **Genome Atlantic Human Genomics/Genetics Seminar Series**, Halifax, Canada.  
<https://www.youtube.com/watch?v=S7XmYEVQrI>
- 24) **Dellaire, G.** (2012 Dec 7) “*Zooming in on DNA repair using correlative light and electron microscopy*” **Centre de Recherche Hôpital Maisonneuve-Rosemont**, Montreal, Canada.
- 25) **Dellaire, G.** (2012 Nov 5) “*What’s Hot in Molecular and Cellular Cancer Research*” **4<sup>th</sup> Annual BHCRI Cancer Research Conference in Atlantic Canada**, Halifax, Canada.
- 26) **Dellaire, G.** (2012 April 27) “*Close-up on DNA repair: High resolution imaging of the cellular response to DNA damage*”. **Dept. of Anatomy and Cell Biology, Western University**, London, Canada.
- 27) **Dellaire, G.** (2012 April 23) “*Progress towards personalized cancer therapy using the zebrafish XT tumour model*”. **Dept. of Microbiology & Immunology, Dalhousie University**, Halifax, Canada.

- 28) **Dellaire, G.** (2012 Feb 8) “*Using human cancer xenotransplantation in zebrafish as novel tumor model for anti-cancer drug discovery*”. Grand Rounds, **Capital Health/ Dept. of Pathology Dalhousie University**, Halifax, Canada.

#### Other Dissemination Activities and Press

(see: <https://blogs.dal.ca/dellairelab/dellairelab-press-coverage/>)

- 2022 **Chronicle Herald (Saltwire)**(March 9, 2022) “Nova Scotia researcher takes part in DNA repair study that could improve cancer treatment”  
<https://www.saltwire.com/atlantic-canada/news/nova-scotia-researcher-takes-part-in-dna-repair-study-that-could-improve-cancer-treatment-100702693/>
- 2022 **DalNews** (Jan 21, 2022) “Unprecedented Colorful view of how damaged DNA repairs itself opens doors for new cancer therapies” <https://www.dal.ca/news/2022/01/21/an-unprecedented--colourfulview-ofdna-damage-repairopensthe-door-.html>
- 2021 **Eureka Alert** (Dec 28, 2021) “Scientists from CNIO and Massachusetts General Hospital develop tools to visualize DNA repair as never before”  
<https://www.eurekaalert.org/news-releases/938977>
- 2021 **Mirage News** (Dec 28, 2021) “Researchers from CNIO and Massachusetts General Hospital develop tools to visualize DNA repair as never before”  
<https://www.miragenews.com/researchers-from-cnio-and-massachusetts-general-701114/>
- 2021 **'Science Off Camera' podcast** (Teledyne Photometrix) <https://anchor.fm/science-off-camera>
- 2021 **Radio Interview, Hot Country 103.5, Halifax** (August 9, 2021) interview with Andrew Gordon (Forman) on “Melody & Forman in the Morning” about CFI study on Canadian arsenic and radon environmental exposures. Listen on Spotify:  
[https://open.spotify.com/episode/3BxCE3obTu2IpE2esZAckg?si=iCVY9qvTShGSqGSsWwPhnQ&dl\\_branch=1](https://open.spotify.com/episode/3BxCE3obTu2IpE2esZAckg?si=iCVY9qvTShGSqGSsWwPhnQ&dl_branch=1)
- 2021 **The Toronto Star - Canadian Press** (May 25, 2021) interview by Michael Tutton for the story: “[\*Arsenic legacy in lake-bottom sediments from historic N.S. mine worries researcher\*](#)”.
- 2021 **Chronicle Herald** (April 15, 2021) – [\*interview with Nebal Snan, “Exposure to radon and arsenic increases cancer risk. Here's what you can do in Nova Scotia to protect yourself”\*](#)
- 2021 **News 95.7 Radio – Halifax** (April 15, 2021) interview with with Todd Veinotte on “The Rick Howe Show” about CFI study on Canadian arsenic and radon environmental exposures.
- 2021 **CBC News** (April 14, 2021): “[\*Halifax researcher studying effects of radon, arsenic exposure\*](#)”
- 2021 **Maritime Noon – CBC News Radio** (April 14, 2021) interview with Bob Murphy about CFI study on Canadian arsenic and radon environmental exposures ([audio file link](#))
- 2021 **Canadian Press Interview** (April 13, 2021): “[\*Halifax cancer researcher studies effects o radon gas and arsenic exposure\*](#)” – Also published by the [Global News](#), [Globe and Mail](#), [Halifax Today](#), and [CTV Atlantic](#).

- 2020 **Daily Mail** (Nov 12, 2020) “[Whales, dolphins and seals are 'highly susceptible' to coronavirus](#)”
- 2020 **Forbes Magazine – Editor’s Pick** (Nov 10, 2020) “[Study Shows Endangered Marine Mammals Are At Risk Of Contracting Covid-19](#)”
- 2020 **CHEK News Victoria British Columbia** (Nov 10, 2020) **Zoom Television Interview with Mary Griffin** regarding COVID19 infection of marine mammals via wastewater.
- 2020 **Global News Radio 640 Toronto** (Nov 10, 2020) **Live interview with Alex Pierson** regarding marine mammals susceptible to COVID-19 via wastewater.
- 2020 **Chronicle Herald story** (Nov 9, 2020) “[COVID-19 could endanger mammals underwater, Dalhousie University study finds](#)”
- 2020 **Globe and Mail** (Nov 9, 2020) story by Bob Weber (The Canadian Press) “[Whales and other marine mammals susceptible to COVID-19 through wastewater: study](#)”
- 2020 **Canada’s National Observer** (Nov 9, 2020) story by Bob Weber “[Whales and other marine mammals susceptible to COVID-19 through wastewater: study](#)”
- 2020 **CBC Main Street** (Nov 9, 2020) Radio interview with Jeff Douglas COVID19 infection of marine mammals via wastewater.
- 2020 **Global News** (Nov 9, 2020) “[Whales and other marine mammals susceptible to COVID-19 through wastewater: study](#)”
- 2020 **CTV News Atlantic** (Nov 9, 2020) “[Under the sea: research says whales, dolphins and more could get infected by COVID-19](#)”
- 2020 **Dalhousie News** (Nov 9, 2020) “[Danger in the Deeps: COVID-19 spread through wastewater could devastate some marine mammal species](#)”
- 2020 **Haikai Magazine** (Sept 17, 2020) “[Could Marine Mammals Contract COVID-19?](#)”
- 2020 **SickBoy Podcast**, (Sept 4, 2020) “[Free Willy Might Get COVID – Feel Good Friday](#)” – discussion of our study on the risks of wastewater transmission of COVID19 on humans, primates and marine mammals.
- 2020 **Fortune Magazine** – “[Everything we know—and don’t know—about human-to-animal COVID transmission](#)”
- 2020 **News Medical.net** “[SARS-CoV-2 poses significant threat to many marine mammal species](#)”
- 2020 **Interview with Anthony King** on the risks of COVID19 for marine mammals via wastewater in **The Scientist Magazine** – “[Modeling Study Flags Species Susceptible to SARS-CoV-2](#)”
- 2020 **CBC Information Morning – Nova Scotia** (August 24, 2020) Radio interview with Portia Clark on the risks of COVID19 for marine mammals via wastewater.
- 2020 **Interview with Tony McReynolds of the American Animal Hospital Association (AHA): Web** – “[The reason cats get COVID and dogs don’t](#)”
- 2020 **Kelly Cutrara Show on Global News Radio 640 Toronto.** (July 23, 2020) Radio interview done by Ph.D. student Saby Mathavarajah on Cats and COVID19.
- 2020 **VOCM.com Local News** (July 23, 2020) Radio interview done by Ph.D. student Saby Mathavarajah on Cats and COVID19.
- 2020 **CBC News Nova Scotia** (July 20, 2020) “[New study sheds light on why cats can get COVID-19, but dogs can’t](#)” web and television interview
- 2020 **SickBoy Podcast**, (July 17, 2020) “[CRISPR? I Barely Know Her! - Feel Good Friday](#)” – discussion of CRISPR and genome editing.



- 2020 **Maritime Noon with Bob Murphy CBC Radio** (July 17, 2020) [Radio interview](#) by Ph.D. student Saby Mathavarajah on why Cats but not Dogs are susceptible to COVID19
- 2020 **\*Lab Animal**, Interview for a story by Ellen Neff (Senior Editor, Nature Research) called "[Building Avatar Armies with Fish and Flies](#)" for a special issue on the zebrafish. \*Cover story using my zebrafish microscopy images <https://www.nature.com/lab/volumes/49/issues/4>
- 2020 **Pesquisa FAPESP** (Feb. 2020), Interview for a story by Ricardo Zorzetto for the Pesquisa Brazilian News Magazine on the promises and achievements of the CRISPR/Cas9 gene editing technique. <https://revistapesquisa.fapesp.br/graham-dellaire-ciencia-com-cautela/>
- 2019 **New Scientist**, Interview for story by Michael Le Page, "*Smart bacteria halt spread of cancer in mice*" March 23, 2019 Issue: 3222 page 12. Online March 19, 2019 "[Spread of cancers halted by smart bacteria that trigger immune attack](#)"
- 2019 **CBC News Podcast New Brunswick** – Interview on environmental factors leading to high cancer rates in Atlantic Canada ([Link](#))
- 2018 **WORT 89.9 FM Radio Madison, WI, USA Interview** (Dec 3, 2018) "*CRISPR Babies and Gene Editing*" [Audio Link](#)
- 2018 **Dal News** (Feb 6, 2018) "[Dalhousie Receives \\$5.1 Million Investment in Health Research](#)" (Web)
- 2017 **Dal News (Dalhousie Press Release)** (Nov 22, 2017) "[Zebrafish lead Dalhousie researchers to important discoveries in prostate cancer and leukemia](#)" (Web)
- 2017 **Science Daily** (Oct 3, 2017) "[Protein identified that drives initiation and growth of aggressive form of leukemia](#)" (Web)
- 2017 **Dal Magazine, 2017 Winter Edition** (February, 2017) "[Divide and Conquer](#)"
- 2016 **CTV News Interview** (March 14/16) – "CRISPR" (Television and Web)
- 2016 **CBC Radio Halifax** (March 7/16) – CRISPR discovery, research funding
- 2016 **Global News Interview** (March 5/16) – "[Halifax scientist's breakthrough gene work stalled by lack of funding](#)" (Television and Web)
- 2016 **Dal News (Dalhousie Press Release)** (March 4/16) – "[Dal researcher develops technique for enhancing gene therapy](#)" (Web)
- 2016 **Dispatch Tribunal** (March 4/16) "Dal scientists develops technique that enhances gene therapy and makes it safe" (Web)
- 2016 **PHYS.ORG** (March 4/16) "Researcher develops technique for enhancing gene therapy" (Web)
- 2016 **CanadianJournal.net** (March 4/16) "Graham Dellaire: Halifax researcher develops technique for enhancing gene therapy" (Web)
- 2015 **CTV Morning News Interview** (Nov 2/15) – **Movember 2015** (Television)
- 2015 **Quote in newspaper article, Chronicle Herald** (May 16/15) – "Weekend Focus: Health and privacy — what you know could hurt you"
- 2015 **Global News Interview** (April 23/15) – "[Zebrafish research at Dalhousie offers hope for future cancer treatment](#)"
- 2015 **Newspaper article, Chronicle Herald** (April 22/15) – "[Zebrafish offer hope for treatment of rare cancer](#)" (Television, and Web)
- 2015 **Article, Dal News (April 17/15)** – "Dal Zebrafish research tests safer, less toxic cancer therapies" (Web)

- 2015 QEH Times – Advancing Breast Cancer Research (Web, Print) (Feb. 21/15)  
2015 CBC News Interview (Feb 5/15) – “[Dalhousie scientist hopes for boost in local Movember-funded research](#)” (Television, Radio and Web)  
2014 CBC Radio Cape Breton Interview – Cancer Fund Raising  
2013 CTV News Interview – “[Power of Movember: N.S. lab benefits from funds raised by 'hairy' campaign](#)” (Television and Web)  
2013 Global TV News Interview - [Movember moustaches funding research](#) (Television)  
2013 Newspaper interview, Chronicle Herald – “2013 Inaugural Movember Team Grant”  
2013 Interview in Living Healthy Magazine Vol 6. No. 2: “Research into aggressive prostate cancer treatment receives funding”

### C) TRAINING OF HIGHLY QUALIFIED PERSONELL (HQP)

**TOTAL Trainees: 94** =48 B.Sc., 16 M.Sc., 6 Ph.D., 6 PDF, 2 Med. Students, 4 Tech, 4 Res. Associates, 5 Res. Assistants, and 3 Residents

#### *Medical Residents*

- 2016-2017 Dr. Michael Ha, Resident, Dept. of Radiation Oncology, Dalhousie University, Halifax, Nova Scotia. *Currently, Research Director and Assistant Professor, Radiation Oncology, Dalhousie University*  
2012-2015 Dr. Clinton Campbell, Resident, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia. *Currently, Assistant Professor, Pathology and Molecular Medicine, McMaster University*  
2012-2013 Dr. Marlon Hagerty, Resident, Dept. of Radiation Oncology, Dalhousie University, Halifax, Nova Scotia. *Currently, A radiation oncologist with Regional Cancer Care Northwest at Thunder Bay Regional Health Sciences Centre, ON, Canada*

#### *Research Associates*

- 2019-2020 Dr. Dudley Chung (Ph.D.), Research Associate, Dept. of Pathology Dalhousie University, Halifax, Nova Scotia. *Currently a Postdoctoral fellow in the laboratory of John Archibald (Dalhousie University).*  
2018 Dr. Moamen Bydoun (Ph.D.), Research Associate, Dept. of Pathology Dalhousie University, Halifax, Nova Scotia. *Currently, a Scientist at ImmunoVaccine (IMV), Halifax, Nova Scotia*  
2015-present Dr. Jayme Salsman (Ph.D), Research Associate, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia.  
2015-2016 Dr. Dale Corkery (Ph.D), Research Associate, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia – *Currently, a Postdoctoral Fellow at the Max Planck Institute in Dortmund, Germany.*

#### *Postdoctoral*

- 2018-2020 Dr. Megan Whaley (Ph.D.) Postdoctoral Fellow, (Co-supervised with Dr. Brent Johnston), Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia. *Currently in Medical School, Dalhousie University.*  
2014-2015 Dr. Alice Holly (Ph.D), Postdoctoral Fellow, Dept. of Pathology,

- Dalhousie University, Halifax, Nova Scotia. *Currently an account manager Cambridge BioScience Ltd., Cambridge, UK.*
- 2012-2015** Dr. Jordan Pinder (Ph.D), Postdoctoral Fellow, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia. *Currently a photographer and proprietor of Scotia Shots Photography (Bridgewater, NS).*
- 2011-2014** Dr. Jayme Salsman (Ph.D), Postdoctoral Fellow, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia.
- 2011-2012** Dr. Tugce Balci (Co-supervised with Dr. Jason Berman, Dept. of Microbiology and Immunology), Dalhousie University, Halifax, Canada. *Currently, Assistant Professor, Medical Genetics Program, Western University, Canada*
- 2009-2011** Dr. Kendra Cann (Ph.D), Postdoctoral Fellow, Dept. of Pathology, Dalhousie University, Halifax, Nova Scotia. *Currently a Patent Officer at Health Canada, formerly a Patent Lawyer with Smart & Biggar, Fetherstonhaugh (LLB U of Ottawa).*

*Graduate students*

Currently supervised

- 2022-present** Mika Park (M.Sc.) Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2021-present** Elias Habib (M.Sc. candidate) Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2019-present** Kateryna Kratzer (M.Sc. candidate) Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2019-present** Jason Foster (M.Sc. Candidate) Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. Co-Supervised with: Dr. Neale Ridgway
- 2018-present** Sabateeshan Mathavarajah (Ph.D. candidate) Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2018-2019** Leah MacLean (M.Sc. candidate) (Co-supervised with Dr. Jeanette Boudreau) Dept. of Pathology, Dalhousie University, Halifax, Canada

Graduated

- 2019-2021** Allyson Cook (M.Sc.) Dept. of Pathology, Dalhousie University, Halifax, Canada. *"Linking PRP4K cytoplasmic functions to tumour suppression" Currently a medical school student, Dalhousie Medical School in New Brunswick*
- 2018-2020** Nicky Tam (M.Sc. candidate) (Co-supervised with Dr. John Frampton) School of Biomedical Engineering, Dalhousie University, Halifax, Canada. *"Modeling the prostate cancer tissue microenvironment using hyaluronan hydrogels". Currently, pursuing a Ph.D. at the Max Planck institute for Colloid and Interfaces in Potsdam, Germany*
- 2017-2020** Carter VanInderstine (M.Sc.) (Co-supervised with Dr. Karen Bedard) Dept. of Pathology, Dalhousie University, Halifax, Canada. *"The role of PRP4K as a tumor suppressor in lewis lung carcinoma cells". Currently a Pharmacy student at Dalhousie University.*
- 2012-2019** Vinothkumar Rajan (Ph.D.) (Co-supervised with Dr. Jason Berman), Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada

- 2016-2019** Title: “*Enhanced tools to model preleukemia to leukemia transformation*”  
*Currently a postdoctoral fellow at SickKids Research Institute, Toronto, Canada*  
Livia Clarke (M.Sc.) Dept. of Pathology, Dalhousie University, Halifax, Canada  
Title: “*Loss of PRP4K is linked to anoikis resistance and partial epithelial-to-mesenchymal transition*” *Currently a medical school student, Dalhousie Medical School in New Brunswick*.
- 2012–2018** Dudley Chung (Ph.D.), Dept. of Pathology, Dalhousie University, Halifax, Canada. Thesis Title: “*Evaluating the Role of the COP9 Signalosome and Neddylation during Cytokinesis and in Response to DNA Damage*” *Currently, Postdoctoral Fellow with Dr. John Archibald (Dalhousie University)*
- 2014-2017** Corey Filiaggi (M.Sc.) (Co-supervised with Dr. Jason Berman), Dept. of Pathology, Dalhousie University, Halifax, Canada Thesis Title: “*Using the Zebrafish to Investigate the Role of the NUP98-NSD1 Oncogene and Loss of NUP98 in High-Risk Pediatric Acute Myeloid Leukemia*” *Currently, in M.Sc. Genetic Counselling Program, University of Toronto.*
- 2015-2017** Livia E. Anthes (M.Sc.) Dept. of Pathology, Dalhousie University, Halifax, Canada Thesis Title: “*Characterizing metformin response and sensitivity biomarkers in breast cancer*” *Currently in Medical School at Dalhousie University, New Brunswick.*
- 2010-2016** Kathleen Attwood (Ph.D.), Dept. of Biochemistry & Molecular, Dalhousie University, Halifax, Canada Thesis Title: “*The role of nuclear architecture in DNA repair*” *Currently a postdoctoral fellow at Dalhousie University.*
- 2010-2015** Sara Lahsae (M.Sc.)(Ph.D.), Dept. of Pathology, Dalhousie University, Halifax, Canada Thesis Title: “*Estrogen receptor alpha signalling regulates the taxane response biomarker PRP4K*” *Currently an instructor at Mount Saint Vincent University, Halifax, Canada*
- 2009-2015** Dale Corkery (Ph.D.), Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada Thesis Title: “*PRP4K is a Novel HER2-Regulated Modifier of Anoikis and Taxane Resistance*”. *Currently a postdoctoral fellow at the Max Planck Institute in Dortmund, Germany (Umeå University, Umeå, Sweden)*
- 2012–2014** \*Victoria Bentley (M.Sc.) (Co-supervised with Dr. Jason Berman), Dept. of Pathology, Dalhousie University, Halifax, Canada \*Primary Supervisor Thesis Title: “*Zebrafish xenotransplantation as a preclinical therapeutic platform for T-cell acute lymphoblastic leukemia.*” *Currently in medical school at Dalhousie University.*
- 2010-2013** Chansey Veinotte (M.Sc.)(Co-supervised with Dr. Jason Berman) Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada Thesis Title: “*Zebrafish xenotransplantation as a model to investigate metastatic spread of pediatric sarcomas*”. *Currently, in Medical School at Dalhousie University.*
- 2010-2013** Cassandra Hawco (M.Sc.)(Co-supervised with Dr. Alison Thompson), Dept. of Chemistry, Dalhousie University, Halifax, Canada. Thesis Title: “*Characterization of novel prodigiosin analogues as chemotherapy agents for*

- breast cancer" Currently in Medical School at Memorial University, NFLD, Canada*
- 2009- 2011** Kathleen Fraser (M.Sc.) Faculty of Computer Science (Co-supervised with Dr. Dirk Arnold, Faculty of Computer Science), Dalhousie University. Thesis Title: "*Projected Barzilai-Borwein method with infeasible iterates for non-negative image deconvolution*". Currently, Scientist with the National Research Council of Canada, Ph.D. in artificial intelligence (University of Toronto) and Co-founder of Winterlight Labs <http://www.winterlightlabs.com/>.
- 2008- 2011** Brenda Tse (M.Sc.), Dept. of Pathology, Dalhousie University, Halifax, Canada. Thesis Title: "*Identification and characterization of PML isoform I-specific protein-protein interactions*". Currently, a research coordinator at the B.C. Women's and Children's Hospital/ University of British Columbia, Vancouver, Canada.
- 2008-2010** Jack Chen (M.Sc.), Dept. of Pathology, Dalhousie University, Halifax, Canada. Thesis Title: "*The regulation of PML phosphorylation and protein interaction in the DNA damage response pathway*". Currently, at Postdoc at the University of Exeter (UK).
- 2007-2009** Rosemarie Kepkay (M.Sc.), Dept. of Pathology, Dalhousie University, Halifax, Canada. "*The role of KAP1 in the control of PML nuclear body number*". Currently practising family medicine with an MD from U of Ottawa, in Elmsdale Nova Scotia, Canada

*Medical Undergraduate (Research in Medicine Program (RIM))*

- 2015** Victoria Bentley (Co-supervised with Dr. Jason Berman), Dalhousie University, Halifax, Canada
- 2014-2015** Morgan MacDonald (Co-supervised with Dr. Jason Berman), Dalhousie University, Halifax, Canada

*Undergraduate*

Honours Students

- 2021-2022** Mika Park, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.
- 2020-2021** Ryan Booth, BMedSci, Dalhousie University, Currently in Medical School at University of Toronto
- 2020-2021** Victoria MacDonald, BMedSci, Dalhousie University, Currently in Medical School at Dalhousie University
- 2019-2020** Razan Al-Sharkawi, BMedSci, Dalhousie University, Currently in Medical School at Dalhousie University
- 2017-2018** Katrina Bouzanis, Dept. of Microbiology & Immunology, Dalhousie University Co-supervised with Dr. Craig McCormick Currently, M.Sc. Dalhousie
- 2016-2017** Noah Gawron, Dept. of Biology, Dalhousie University, Currently, in Medical School, University of Toronto
- 2016-2017** DanDan Zhao, Dept. of Biochemistry & Molecular Biology, Dalhousie University Currently, in M.Sc. candidate in Biochemistry, Dalhousie University

**Curriculum Vitae**

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- 2013-2014** Alex Stathakis, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Currently in Medical School at Dalhousie University*
- 2013-2014** Robyn Broekhuizen, (Co-supervised with Dr. Jason Berman) Dept. of Microbiology & Immunology, Dalhousie University, Halifax, Canada. *Currently a consultant for Robyn Jin Consulting, Victoria, BC, Canada*
- 2012-2013** Heidi Wong, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Currently pursuing an M.Sc. in Hong Kong*
- 2012-2013** Paalini Sathiyaseelan, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Currently pursuing Ph.D. at Simon Fraser University*. Founder of SP.HERE Society for Science Policy in Health Environment Research and Ethics [infospheresociety.wixsite.com/my-site](http://infospheresociety.wixsite.com/my-site)
- 2011-2012** Kirk Sinclair, (Co-supervised with Dr. Jason Berman) Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada.
- 2010-2011** Alexandra Reda, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Currently, in Medical School, Dalhousie University*
- 2010-2011** Anne Shen, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada
- 2009-2010** Winston Tan, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Pharmacist (PharmD, Memorial University)*
- 2007-2008** Brenda Tse, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada

Co-Op Students

- 2011** Miles Luke, Dept. of Biology, Dalhousie University, Halifax, Canada. *Currently in the Pharmacy program at the University of Toronto.*

BIOL 3800 Students (Experiential Learning in Biology)

- 2017** Laura Rigg, Dept. of Biology, Dalhousie University. *Currently pursuing Nursing at Dalhousie University*

BIOC 3620 Students (Experiential Learning in Biochemistry & Molecular Biology)

- 2016** Kara Koskovich, Dept. of Biology, Dalhousie University
- 2013** Alex Stathakis, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Currently in Medical School at Dalhousie University*
- 2012** Paalini Sathiyaseelan, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. *Currently pursuing Ph.D. at UBC*

SCIE 3100 Students (Experimental Learning BioMed Sciences)

- 2020** Ryan Booth, BMedSci, Dalhousie University
- 2019** Aevan MacDonald, (Co-supervised with Dr. Brent Johnston) BMedSci, Dalhousie University
- 2019** Razan Al-Sharkawi, BMedSci, Dalhousie University

Volunteer Students

- 2015** Alexandra Stephenson, Dept. of Biology, Dalhousie University, Halifax, Canada
- 2012-2013** Hannah Kingwell, Dept. of Psychology, Dalhousie University, Halifax, Canada

Visiting Exchange Graduate Students

**2019-2020**     Gabriela Maria de Abreau Gomes, Center for Molecular Biology and Genetic Engineering CBMEG – UNICAMP, Brazil

Summer Students

**2021**     Elias Habib, Dept. of Psychology Neuroscience Program  
**2019**     Ryan Booth, BMedSci, Dalhousie University (NSERC USRA)  
**2019**     Razan Al-Sharkawi, BMedSci, Dalhousie University (NSERC USRA/BHCRI)  
**2018**     Razan Al-Sharkawi, BMedSci, Dalhousie University (NSERC USRA)  
**2018**     Jenna Curwin, Dept. of Biology, University of New Brunswick (BHCRI and NSERC USRA)  
**2017**     Tora Oliphant, (Co-supervised with Dr. Brent Johnston) Dept. of Microbiology & Immunology, Dalhousie University  
**2016**     DanDan Zhao, Dept. of Biochemistry & Molecular Biology, Dalhousie University (NSERC USRA)  
**2016**     Kara Koskovich, Dept. of Biology, Dalhousie University (NSERC USRA)  
**2015**     Kara Koskovich, Dept. of Biology, Dalhousie University (NSERC USRA)  
**2015**     Ellen Parker, Dept. of Biology, McGill University, Montreal  
**2014**     Ellen Parker, Dept. of Biology, McGill University, Montreal  
**2013**     Alex Stathakis, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada (NSERC USRA/Norah Stephens)  
**2013**     Robyn Broekhuizen, Dept. of Microbiology & Immunology, Dalhousie University, Halifax, Canada  
**2013**     Nathalia Mizuma, Science without Borders International Exchange – Brazil, Dalhousie University, Halifax, Canada  
**2012**     Paalini Sathiyaseelan, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada (Norah Stephens) – Currently, Ph.D. Simon Fraser University  
**2012**     Casper Macaulay, Dept. of Chemistry, Dalhousie University, Halifax, Canada. (NSERC USRA) – Completed a Ph.D. Chemistry, Dalhousie University, and Currently is a postdoctoral fellow at the University of Victoria, B.C., Canada  
**2011**     Kirk Sinclair, (Co-supervised with Dr. Jason Berman) Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada.  
**2011**     Alexandra Reda, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. (Norah Stephens) – Currently, M.Sc. Dalhousie University  
**2010**     Kathleen Attwood, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada (Norah Stephens)  
**2009**     Winston Tan, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. Currently enrolled in the Pharmacy Program at Memorial University, NFLD  
**2008**     MacGregor Grant, (Co-Supervised with Dr. Jan Rainey) Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. Currently in B.Sc. program at Mount Allison University  
**2007**     Brenda Tse, (Honours and grand rou Student), Dept. of Biochemistry &



Molecular Biology, Dalhousie University, Halifax, Canada

### **Technical Staff**

#### *Research Assistants*

**2020**            Carter VanInderstine (M.Sc.)  
**2019-2020**    Livia Eden Clarke (M.Sc.)  
**2019**            Allyson Cook (B.Sc.)  
**2016**            Livia Eden Clarke (B.Sc.)  
**2014-2015**    Esther Livia Anthes (B.Sc.)

#### *Technicians*

**2011-present** Joyce Chew (M.Sc.)  
**2015**            Renee Raudonis (M.Sc.)  
**2007-2010**    Colleen Mitchell (B.Sc.)

### **TRAINEE AWARDS**

**2022**            **Nova Scotia Graduate Scholarship** (Mika Park)  
                    **Dalhousie Medical Research Foundation (DMRF) - Vardy Graduate Studentship** (Mika Park)

**2021**            **Linnea Veinotte Cancer Research Training Program (CRTP) Scholar Award** from the Beatrice Hunter Cancer Research Institute (BHCRI) (Elias Habib)  
                    **Killam Pre-Doctoral Award** (Kateryna Kratzer)  
                    **Nova Scotia Graduate Scholarship** (Kateryna Kratzer)  
                    **President's Award** (Kateryna Kratzer)  
                    **Genomics in Medicine Graduate Studentship Honorary** (Dalhousie)(Kateryna Kratzer)  
                    **Beatrice Hunter Cancer Research Institute (BHCRI) Cancer Research Training Program (CRTP) Traineeship** (Kateryna Kratzer)

**2020**            **Killam Pre-Doctoral Award** (Sabateeshan Mathavarajah)  
                    **Nova Scotia Graduate Scholarship** (Sabateeshan Mathavarajah)  
                    **President's Award** (Sabateeshan Mathavarajah)  
                    **George Cooper Killam Graduate Prize** for top Killam Trainee (Sabateeshan Mathavarajah)

**NSERC USRA Summer Studentship** (Manal Quiraishi)

**NSERC USRA and Faye Sobey Undergraduate Research Award** (Ryan Booth)

**Genomics in Medicine Graduate Studentship** (Dalhousie)(Kateryna Kratzer)

**2019**            **Nova Scotia Health Research Foundation (NSHRF) M.Sc. Studentship** (Kateryna Kratzer)



**BHCRI Cancer Research Training Program (CRTP) Traineeship** (Allyson Cook)

**George Cooper Killam Graduate Prize** for top Killam Trainee (Sabateeshan Mathavarajah)

**NSERC USRA Summer Studentship** (Razan Al-Sharkawi)

**Beatrice Hunter Cancer Research Institute Summer Studentship** (Razan Al-Sharkawi)

**NSERC USRA Summer Studentship** (Ryan Booth)

**2018**      **Cancer Research Training Program (CRTP) Fellowship** (Megan Whaley)

**Cancer Research Training Program (CRTP) Traineeship** (Nicky Tam)

**NSERC CGSM Award** (Leah MacLean)

**Killam Foundation M.Sc. Studentship** (Sabateeshan Mathavarajah)

**Canadian Conference on Ovarian Cancer Research Travel Award** (Livia Clarke)

**Nova Scotia Health Research Foundation (NSHRF) M.Sc. Studentship**  
(Sabateeshan Mathavarajah)

**NSERC USRA Summer Studentship** (Razan Al-Sharkawi)

**Beatrice Hunter Cancer Research Institute Summer Studentship** (Jenna Curwin)

**NSHRF M.Sc. Studentship** (Carter Van Iderstine)

**NSERC CGSM Award** (Sabateeshan Mathavarajah)

**Runner-up, Best Platform Presentation, Pathology Research Day 2018**, Halifax, Canada (Livia Clarke)

**2017**      **Cancer Research Training Program (CRTP) Traineeship** (Livia Clarke)

**Best Platform Presentation, Graduate Student Research Day, Dalhousie University, Professional & Research Education Program (PERP)**, Halifax, Canada (Livia Anthes)

- 2016**      **Best Platform Presentation, Beatrice Hunter Cancer Research Institute (BHCRI) Cancer Research Conference**, Halifax, Canada (Livia Anthes)
- 2015 CAGS/UMI Distinguished Dissertation Award** (Dr. Dale Corkery)  
Dalhousie Doctoral Thesis Award in Natural and Medical Sciences and Engineering  
-Award for top Ph.D. Thesis at Dalhousie University
- Cancer Research Training Program (CRTP) Traineeship** (Livia Anthes)
- NSERC USRA Summer Studentship** (Kara Koskowich)
- NSERC USRA Summer Studentship** (DanDan Zhao)
- Best Platform Presentation by a Graduate Student, Pathology Research Day**,  
(Livia Anthes)
- 2015**      **Governor General's Gold Medal Award in the Sciences and Engineering 2015**  
(Victoria Bentley)
- NSERC USRA Summer Studentship and Joy Cunningham award** (Kara Koskowich)
- Canadian Breast Cancer Foundation-Atlantic Postdoctoral Fellowship** (Alice Holly)
- Cancer Research Training Program (CRTP) Traineeship** (Kathleen Attwood)
- Cancer Research Training Program (CRTP) Traineeship** (Jordan Pinder)
- NSERC Alexander Graham Bell CGS-M M.Sc. Studentship** (Livia Anthes)
- BHCRI CBCF-Atlantic Summer Studentship** (Livia Anthes)
- Best Poster, Research In Medicine (RIM) Research Day** (Morgan MacDonald)
- 2014**      **Dalhousie University Medical School Entrance Scholarship** (Victoria Bentley)
- Nova Scotia Graduate Scholarship** (Dudley Chung)
- Best Abstract** (chosen for Oral presentation) **Zebrafish Disease Modelling 7 (ZDM7)**, Madison, Wisconsin, USA (Victoria Bentley)
- Paediatric Research Day, Best Graduate Student Platform Presentation**,  
Dalhousie University, Halifax, Canada (Victoria Bentley)

**Best Poster Award, Pathology Research Day, Dalhousie University, Halifax, Canada (Jordan Pinder)**

**Best Oral Presentation, Pathology Research Day, Dalhousie University, Halifax, Canada (Dale Corkery)**

**2013 Cancer Research Training Program (CRTP) Traineeship (Victoria Bentley)**

**Cancer Research Training Program (CRTP) Traineeship (Jordan Pinder)**

**Nova Scotia Health Research Foundation Scotia M.Sc. Scholarship (Victoria Bentley)**

**Killam Foundation Ph.D. Studentship (Kathleen Attwood)**

**Norah Stephens Summer Studentship (Alex Stathakis)**

**NSERC USRA Summer Studentship (Alex Stathakis) declined**

**Best Abstract (chosen for Oral presentation) North Atlantic Zebrafish Zebrafish Research (NAZR), Orono, Maine, USA (Victoria Bentley)**

**Best Abstract (chosen for Oral presentation) 4th Annual TFRI Scientific Meeting, Ottawa, Canada (Dale Corkery)**

**Best Abstract (chosen for Oral presentation) 4th Annual TFRI Scientific Meeting, Ottawa, Canada (Victoria Bentley)**

**2012 Best Poser Award, 4<sup>th</sup> Annual BHCRI Atlantic Cancer Research Conference, Halifax, Canada (Jordan Pinder)**

**Alexander Graham Bell, Natural Science and Engineering Research Council (NSERC) PhD. Studentship (PGSD) (Kathleen Attwood)**

**Norah Stephens Summer Studentship (Paalini Sathiyaseelan)**

**Dalhousie University President's Award (Kathleen Attwood)**

**NSERC USRA Summer Studentship (Casper Macaulay)**

**Beatrice Hunter Cancer Research Institute (BHCRI) Travel Award (Kathleen Attwood)**

**Travel Award from Canadian Society of Biomedical Sciences to attend the 55th Annual Scientific Meeting,, Whistler, Canada (Kathleen Attwood)**

- 2011**      **Cancer Research Training Program (CRTP) Traineeship (Jayme Salsman)**
- Cancer Research Training Program (CRTP) Traineeship (Dale Corkery)**
- 3<sup>rd</sup> Annual BHCRI Cancer Research Conference Awards**  
                  Best Poster Presentation (Lay Audience) and Best Poster (Dale Corkery)  
                  Best Poster Presentation (Kathleen Attwood)  
                  Best Poster Presentation (Sara Lahsae)  
                  Best Poster Presentation (Chansey Veinotte )  
                  Best Poster Presentation (Dr. Jayme Salsman)
- Alexander Graham Bell, Natural Science and Engineering Research Council (NSERC) M.Sc. Studentship (CGSM) (Kathleen Attwood)**
- Norah Stephen- Canadian Breast Cancer Foundation (CBCF) - Atlantic Summer Studentship (Alexandra Reda)**
- Paediatric Research Day, Best Graduate Student Platform Presentation (Dale Corkery)**
- 2010**      **Cancer Research Training Program (CRTP) Traineeship (Kathleen Attwood)**
- Best Poster Award, BHCRI Atlantic Cancer Research Symposium, Halifax, Canada (Kathleen Attwood)**
- Canadian Breast Cancer Foundation (CBCF) - Atlantic Summer Studentship (Kathleen Attwood)**
- Travel Award from Terry Fox Research Institute to attend the 2nd Annual Scientific Meeting, Vancouver, Canada (Dale Corkery)**
- Best Poster Award, Pathology Research Day, Dalhousie University, Halifax, Canada (Dale Corkery)**
- Best Poster Award, Graduate Student Research Day, Dalhousie University, Halifax, Canada (Dale Corkery)**
- 2009**      **Nova Scotia Health Research Foundation (NSHRF) Studentship (Brenda Tse)**
- NSHRF Postdoctoral Fellowship (Kendra Cann)**
- Killam Foundation Postdoctoral Fellowship (Kendra Cann)**
- Cancer Research Training Program (CRTP) Traineeship (Dale Corkery)**
- Best Poster Award, Atlantic Cancer Research Symposium, , Halifax, Canada**

(Dale Corkery)

**2008 Cancer Research Training Program (CRTP) Traineeship (Jack Chen)**

**Runner-up Best Poster, Atlantic Cancer Research Symposium, Halifax, Canada**  
(Rosemarie Kepkay)

**2007 Natural Science and Engineering Research Council (NSERC) studentship**  
(Rosemarie Kepkay)

**Killam Foundation studentship (Rosemarie Kepkay)**

#### **D) ADMINISTRATION**

##### **Cross-Appointments**

**2007-present** Department of Biochemistry & Molecular Biology, Dalhousie University,  
Halifax, Canada

##### **Network Directorship**

**2018-present** Network Leader and Co-Founder of the Canadian Environmental Exposures  
in Cancer (CE2C) Network. <http://CE2C.ca>

##### **National Profession Committees**

**2010-2018** Atlantic Regional Representative of the Canadian Society of Molecular  
BioSciences (CSMB)

##### **Non-Governmental Organization (NGO) Scientific Committees**

**2020-present** Lead Scientist, [Evict Radon](#)

**2018- 2022** Member, Nova Scotia Institute Science (NSIS) Lecture Committee, Halifax,  
Canada

##### **Faculty and Departmental Committees**

##### **Directorship Positions**

###### *Current*

**2012- present** Director of Research, Dept. of Pathology Research Committee, Dalhousie  
University, Halifax, Canada

###### *Past*

**2012- 2015** Director, Gamma Cell CORE, Faculty of Medicine, Dalhousie University,  
Halifax, Canada

##### **Chair Positions**

###### *Current*

**2022** Chair, Tier 2 CRC “Biomedical Data Science and Personalized Medicine”  
Search Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada

**2021-present** Chair, NSHA/Dalhousie Biobank Scientific Advisory Committee, Halifax,  
Canada

- 2021-present Chair, Cellular & Molecular Digital Imaging Facility Management Committee, Dalhousie University, Halifax, Canada**
- 2020-present Chair, Dept. of Pathology Research Day Subcommittee, Dalhousie University, Halifax, Canada**
- 2020-present Co-Chair, Dept. of Pathology Research Committee, Dalhousie University, Halifax, Canada**
- Past*
- 2021 Chair, Ph.D. Comprehensive Exam, Dept. of Pathology, Dalhousie University, (Sept. 17, 2021) Halifax, Canada. Candidate: Michael Giacomantonio; Supervisor: Dr. Shashi Gujar.**
- 2020 Chair, Ph.D. Comprehensive Exam, Dept. of Pathology, Dalhousie University, (June 3, 2020) Halifax, Canada. Candidate: Lauren Westhaver; Supervisor: Dr. Jeanette Boudreau.**
- 2019 Chair, Tier 1 CRC “Functional Genomic of Inherited and Acquired Disease” Search Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada**
- 2011-2019 Chair, Dept. of Pathology Research Committee, Dalhousie University, Halifax, Canada**
- 2010-2018 Co-Chair Cancer Research Training Program (CRTP) Management Committee, Dalhousie University, Halifax, Canada**
- 2015 Chair, Janigan Award Selection Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada**
- 2013 Chair, Breast Cancer Stem Cell Selection Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada**
- 2012 Chair, Cancer Stem Cell Selection Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada**

#### **Industry Scientific Advisory Boards**

- 2019 Scientific Advisory Board Member, Quorum Technologies, Puslinch, Ontario, Canada**

#### **Committees and Working Groups**

##### *Current*

- 2020-2023 Member, Dalhousie University Faculty of Medicine, Safety and Environmental Hazards Committee, Halifax, Canada**
- 2020-2023 Member, Clinical Research Directors Committee, Faculty of Medicine, Dalhousie University, Halifax, Canada**
- 2019-present Member, Working Group for the Zebrafish Core Facility, Faculty of Medicine, Dalhousie University, Halifax, Canada**
- 2019-present Member, NSHA/Dalhousie Tissue Bank Scientific Advisory Committee, Halifax, Canada**
- 2018-present Member, NSHA/Dalhousie Tissue Bank Committee, Halifax, Canada**
- 2017-present Member, Working Group for the Cellular and Molecular Digital Imaging (CMDI) Facility, Faculty of Medicine, Dalhousie University, Halifax, Canada**
- 2014-present Member, Academic Advisory Committee, Department of Pathology, Dalhousie University, Halifax, Canada**

- 2013-2020** Member, Next-Generation Sequencing and Molecular Diagnostics Working Group, Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2011-present** Member, Histology and Research Service Laboratory Working Group, Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2009- present** Member, Graduate Studies Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada

*Past*

- 2019** Member, Selection Committee for BioBank Director, Nova Scotia Health Authority (NSHA), Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2017-2018** Member, Pharmacology Departmental Review/Survey Committee, Dalhousie University, Halifax, Canada
- 2016** Member, Review Committee for the Director of the Dept. of Biomedical Engineering, Dalhousie University, Halifax, Canada
- 2015-2018** Member, Clinician Investigator Program (CIP) / Clinician Scientist Graduate Program (CSGP), Dalhousie University, Halifax, Canada
- 2008-2015** Member, Working Group for the Cellular and Molecular Digital Imaging (CMDI) Facility, Faculty of Medicine, Dalhousie University, Halifax, Canada
- 2014** Member, Janigan Award Selection Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2013** Member, Tier II CRC in Human Genetics/Genomics, Search and Selection Committee Dept. of Pharmacology, Dalhousie University, Halifax, Canada
- 2013** Member, Tier II CRC in Tissue Engineering, Search and Selection Committee Dept. of Biomedical Engineering, Dalhousie University, Halifax, Canada
- 2012-2018** Member, Basic Heads Committee (in capacity as Director of Research in Pathology), Faculty of Medicine, Dalhousie University, Halifax, Canada
- 2012** Member, Aquatron Advisory Committee, Dalhousie University, Halifax, Canada
- 2012** Member, Research Advisory Committee, Faculty of Medicine, Dalhousie University, CDHA, IWK Hospital, Halifax, Canada
- 2011-2012** Member, Breast Pathology, Selection Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2011-2012** Member, Lymph Pathology, Selection Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2011-2012** Member, Dermatopathology, Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2011** Member, Tier II CRC in Human Genetics, Search and Selection Committee Dept. of Pathology, Dalhousie University, Halifax, Canada
- 2010** Member: Dr. Karen Bedard Reappointment Committee for the Dept. of Pathology Dalhousie University, Halifax, Canada
- 2008-2011** Member, Appointment and Promotion Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada.

**Judging**

- 2021** Judge, Medical Sciences Symposium (April 9, 2021), Dalhousie University, Halifax, Canada

- 2019** Judge, Summer Research Presentations, Medical Science Undergrad Program, Dalhousie University, Halifax, Canada
- 2016** Judge, Poster Presentations, BHCRI Cancer Research Conference, Halifax, Canada.
- 2009-2013** Judge, Biochemistry & Molecular Biology Honours Student presentations, Dalhousie University, Halifax, Canada
- 2008-2009** Judge, Graduate Student Research Day Poster Session, Faculty of Medicine, Dalhousie University, Halifax, Canada.
- 2008** Judge, Oral Presentations, 10th Annual Nova Scotia Cancer Symposium, Halifax, Canada.

#### **Internal Grant Review**

- 2020** Internal reviewer, for the Department of Pathology, Dalhousie University, 1 CIHR grant
- 2014** Internal reviewer, for the Faculty of Medicine Research Office, Dalhousie University, 1 CIHR grant
- 2013** Internal reviewer, for the Faculty of Medicine Research Office, Dalhousie University, 2 CIHR grants
- 2012** Internal reviewer, for the Faculty of Medicine Research Office, Dalhousie University, 1 CIHR grant, and 1 NSERC grant

#### **Graduate Committees** (excluding my own students and co-supervised students)

- 2020-present** Ph.D. Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada. Candidate: Leah MacLean; Supervisor: Dr. Jeanette Boudreau
- 2020-present** Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. Candidate: Jordan Thompson; Supervisor: Dr. Neale Ridgway
- 2020-present** M.Sc. Committee, Dept. of Plant, Food, and Environmental Science, Faculty of Agriculture, Dalhousie Agriculture Campus, Truro, Canada. Candidate: Tharindu Suranweera; Supervisor: Dr. Vasantha Rupasinghe
- 2019-present** M.Sc. Committee, Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada. Candidate: Jordan Lukacs; Supervisor: Dr. Brent Johnston
- 2018-present** M.Sc. Committee, Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada. Candidate: Stacy Lee; Supervisor: Dr. Jeanette Boudreau
- 2018-present** Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Halifax, Canada. Candidate: Wasitha Thilakarathna; Supervisor: Dr. Vasantha Rupasinghe
- 2018-2019** M.Sc. Committee, Dept. of Biochemistry & Molecular Biology, Halifax, Canada. Candidate: Kyle Lee; Supervisor: Dr. Neale Ridgway
- 2018-2019** Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada. Candidate: Michael McPhee; Supervisor: Dr. Kirill Rosen
- 2017-2019** M.Sc. Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada. Candidate: Keon Collett; Supervisor: Dr. Jason Berman



- 2017-2019 M.Sc. Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada.**  
Candidate: Emma Martin; Supervisor: Dr. Shashi Gujar
- 2016-2018 M.Sc. Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada.**  
Candidate: Melissa Richardson; Supervisor: Dr. Jason Berman
- 2015-present M.Sc. Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada.**  
Candidate: Mohamad Sultan; Supervisor: Dr. Paola Marcato
- 2014-2018 Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Antonietta Pietrangelo; Supervisor: Dr. Neale Ridgway
- 2014-2019 Ph.D. Committee, Dept. of Microbiology & Immunology, Dalhousie University, Halifax, Canada.** Candidate: Jaime Wertman; Supervisor: Dr. Jason Berman
- 2013-2018 Ph.D. Committee, Dept. of Pathology, Dalhousie University, Halifax, Canada.**  
Candidate: Krysta Coyle; Supervisor Dr. Paola Marcato
- 2012-2018 Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Iman Khan; Supervisor: Dr. Kirill Rosen
- 2010-2012 Ph.D. Committee, Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada.** Candidate: Michael Forrester; Supervisor: Dr. Jason Berman
- 2009-2015 Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Mary McQuaid; Supervisor: Dr. Melanie Dobson
- 2009-2012 M.Sc. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Dan Arsenault; Supervisor Dr. Neale Ridgway
- 2009-2013 Ph.D. Committee, Dept. of Microbiology and Immunology, Dalhousie University, Halifax, Canada.** Candidate: Fui Boon Kai; Supervisor Dr. Roy Duncan
- 2008-2012 M.Sc. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Ryan Holloway; Supervisor Dr. HyoSung Ro
- 2008-2011 Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Jordan Pinder; Supervisor: Dr. Melanie Dobson
- 2007-2009 Ph.D. Committee, Dept. of Biochemistry & Molecular Biology, Dalhousie University, Halifax, Canada.** Candidate: Karsten Gehrig; Supervisor: Dr. Neale Ridgway

Thesis External Examiner-Outside institutions

- 2022 Ph.D. Thesis Defense, “Characterization of a small molecular inhibitor of disulfide reductases that induces oxidative stress and lethality in lung cancer cells”** in the Dept. of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, Canada, Candidate: Fraser Johnson; Supervisor: Dr. William Lockwood.

- 2016**      **Ph.D. Thesis Defense**, “*Novel functions of MCL-1 in ATM signalling, homologous recombination, and heterochromatin dynamics*” in the Dept. of Experimental Medicine, University of British Columbia, Vancouver, Canada. Candidate: Eric Pesarchuk; Supervisor: Dr. Vincent Duronio
- 2014**      **Ph.D. Thesis Defense**, “*Multi-'omics characterization of the molecular effects of smoking and chronic inflammation on the lung*” in the Dept. of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, Canada. Candidate: Emily Ann Vucic; Supervisor: Dr. Wan Lam

Thesis Examiner (Reader and External)-Dalhousie University

- 2020**      **Ph.D. Thesis Defense**, “*Investigation into mechanisms of treatment resistance and heterogeneity in breast cancer and acute promyelocytic leukemia*” in the **Dept. of Pathology, Dalhousie University**, Halifax, Canada. Candidate: Mohammad Sultan ; Supervisor Dr. Paola Marcato
- 2020**      **M.Sc. Thesis Defense**, “*Generating tools to investigate infant leukemia disease biology and identify new therapies through rapid drug screening.*”in the **Dept. of Pathology, Dalhousie University**, Halifax, Canada. Candidate: Keon Collett; Supervisor Dr. Jason Berman
- 2020**      **M.Sc. Thesis Defense**, “*Modeling the prostate cancer tissue microenvironment using hyaluronan hydrogels*”in the **Dept. of Biomedical Engineering, Dalhousie University**, Halifax, Canada. Candidate: Nicky Tam; Supervisor Dr. John Frampton
- 2019**      **Ph.D. Thesis Defense**, “*Identification of factors regulating cytoplasmic and nuclear lipid droplets*” in the **Dept. of Biochemstry and Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Kyle Lee; Supervisor Dr. Neale Ridgway
- 2019**      **Ph.D. Thesis Defense**, “*Developing a two-pronged drug screen to identify compounds that protect against cisplatin-induced oto- and nephrotoxicity*” in the **Dept. of Microbiology and Immunology, Dalhousie University**, Halifax, Canada. Candidate: Jaime Wertman; Supervisor Dr. Jason Berman
- 2018**      **Ph.D. Thesis Defense**, “*Profiling retinoid signaling in triple-negative breast cancer: towards precision applications*” in the **Dept. of Pathology, Dalhousie University**, Halifax, Canada. Candidate: Krysta Coyle; Supervisor Dr. Paola Marcato
- 2018**      **Ph.D. Thesis Defense**, “*Orp4 is a phosphor-regulated lipid binding protein required for cell growth and maintenance of TGN morphology*” in the **Dept. of Biochemistry and Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Antonietta Pietrangelo; Supervisor Dr. Neale Ridgway
- 2015**      **Ph.D. Thesis Defense**, “*Regulation of yeast 2-micron plasmid proteins in plasmid-partitioning*” in the **Dept. of Biochemisty and Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Mary McQuaid; Supervisor Dr. Melanie Dobson
- 2013**      **Ph.D. Thesis Defense**, “*The flavonoid apigenin upregulates CD26/DPPIV on human colorectal carcinoma cells*” in the **Dept. of Pharmacology, Dalhousie**

- 2013 **University**, Halifax, Canada. Candidate: Emilie LeFort; Supervisor Dr. David Hoskin and Dr. Jonathan Blay  
**Ph.D. Thesis Defense**, “*Roles of myopodin in actin cytoskeleton remodeling and cancer cell migration*” in the **Dept. of Microbiology & Immunology, Dalhousie University**, Halifax, Canada. Candidate: Fui Boon Kai; Supervisor Dr. Roy Duncan
- 2012 **Ph.D. Thesis Defense**, “*Endosymbiotic Gene Transfer in the Nucleomorph Containing Organisms Bigeloviella Natans and Guillardia Theta*” in the **Dept. of Microbiology & Immunology, Dalhousie University**, Halifax, Canada. Candidate: Bruce Curtis; Supervisor Dr. John Archibald
- 2012 **Ph.D. Thesis Defense**, “*NUP98-HOXA9-transgenic zebrafish model of Acute Myelocytic Leukemia*” in the **Dept. of Microbiology & Immunology, Dalhousie University**, Halifax, Canada. Candidate: Michael Forrester; Supervisor Dr. Jason Berman
- 2012 **M.Sc. Thesis Defense**, “*Macrophage AEBP1 Contributes to Mammary Epithelial Cell Hyperplasia as a Novel Regulator of Shh Signalling*” in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Ryan Holloway; Supervisor Dr. HyoSung Ro
- 2012 **M.Sc. Thesis Defense**, “*AEBP1 alters matrix signalling and is responseive to inflammation in the mammary gland*” in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Greg McCluskey; Supervisor Dr. HyoSung Ro
- 2011 **M.Sc. Thesis Defense**, “*The role of the CDP-choline pathway in apoptosis resistance of ras-transformed intestinal epithelial cells*” in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Daniel Arsenault; Supervisor: Dr. Neale Ridgway
- 2011 **M.Sc. Thesis Defense**, “*Interaction of EDD and poly(A) binding protein with the mTOR-associated  $\alpha 4$  phosphoprotein*” in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: William McDonald; Supervisor: Dr. Cathy Too
- 2011 **Ph.D. Thesis Defense**, “*S100A10 Facilitates the Tumor Promoting Association of Macrophages with Tumor Cells*”. in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**, Halifax, Canada. Candidate: Kyle Phipps; Supervisor: Dr. David Waisman
- 2008 **M.Sc. Thesis Defense**, “*The Role of LKB1 Following DNA Damage*”, in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**. Halifax, Canada. Candidate: Meghan Agnew; Supervisor Dr. Paola Marignani.
- 2008 **Ph.D. Thesis Defense** “*The phospholipid transfer protein Sec14 regulates specific endosome-trans-Golgi transport pathways*” in the **Dept. of Biochemistry & Molecular Biology, Dalhousie University**. Halifax, Canada. Candidate: Amy Curwin; Supervisor Dr. Chris McMaster.
- 2007 **M.Sc. Thesis Defense**, “*Studies on the adrenergic regulation of cardiac fibrosis and cyclin dependent kinase-1 transcription*”, in the **Dept. of Pharmacology, Dalhousie University**. Halifax, Canada. Candidate: Gerard Gaspard; Supervisor: Dr. Kishore Pasumarthi.

**Peer review Panels and Committees ±**

**Grant and Award Committees/Panels**

- 2022** Beatrice Hunter Cancer Research Institute (BHCRI) Cancer Research Training Program (CRTP) Award Committee
- 2022** Terry Fox Research Institute Marathon of Hope Clinician Scientist Award Internal Review Committee (Dalhousie)
- 2021** Canadian Cancer Society (CCS) CHA-22 Challenge Grants, C3: Imaging Technology
- 2021** Member, Canadian Institutes of Health (CIHR) Cancer Biology & Therapeutics Grant Panel (Spring and Fall 2021)
- 2016-2022** Member, College or Reviewers, CIHR – Project Grants
- 2019** External Reviewer for CRC Tier 2 program for McGill University internal review process – candidate was successful in the CRC Tier 2 application.
- 2019** Member, Canadian Institutes of Health (CIHR) Cancer Biology & Therapeutics Grant Panel (Spring 2019)
- 2019** Member, Canadian Epigenetics, Environment and Health Research Consortium (CEEHRC) Grant Panel – Phase II Committee
- 2019** Member, CEEHRC CIHR Epigenetic Clinical Translation Grant Panel
- 2018** Member, Canadian Institutes of Health (CIHR) Cancer Biology & Therapeutics Grant Panel (Fall 2018)
- 2018** Scientific Officer, Cancer Biology & Therapeutics (CBT) Project Grant Panel, Canadian Institutes of Health Research (CIHR) (Spring 2018)
- 2018** Member, Beatrice Hunter Cancer Research Institute (BHCRI) New Investigator Awards Panel.
- 2018** Member, Cancer Research Society (CRS) Operating Grant Panel
- 2017** Member, CIHR Impact Grant: CEEHRC Phase II Committee
- 2017** Member, Beatrice Hunter Cancer Research Institute (BHCRI) CRTP Skills acquisition program awards committee
- 2016** Member, Beatrice Hunter Cancer Research Institute (BHCRI) New Investigator award panel
- 2014-2015** Member, Early Detection of Prostate Cancer Grant Panel B, Prostate Cancer Canada (PCC)
- 2013** Member, Canadian Institutes of Health (CIHR) Cancer Biology & Therapeutics Grant Panel (Spring and Fall competitions)
- 2012-2013** Scientific Officer, Canadian Cancer Research Institute (CCSRI) Innovation Grant Committee, Biomarkers and Genomics Panel – declined in 2014
- 2012** Member, SPARK-Ontario Genome Institute Grant Committee
- 2012** Member, Terry Fox Research Institute (TFRI) - New Frontiers in Cancer Team Grant Committee
- 2008-2012** Canadian Institutes of Health Research (CIHR) “Doctoral Research Awards A and Canada Graduate Scholarships Master’s Award A” awards panel.
- 2008-2010** Ontario Institute of Cancer Research (OICR) Translational Grant Panel Toronto, Canada.
- 2007-2011** Canadian Association of Radiation Oncologists (CARO), Rapid AstraZeneca CARO Evaluation of Radiomodifiers (RAZCER) Grant Program Advisory Committee

- 2008-2009**    **Norah Stephen Basic Science Summer Studentship review panel,**  
Dalhousie University, Halifax, Canada.
- 2008**        **AstraZeneca Graduate Student Award Committee,** Dalhousie  
University, Halifax, Canada.
- 2007**        **Cancer Research Training Program Studentship Committee,** Dalhousie  
University, Halifax, Canada.

External Reviewer

- 2020**        **Natural Science and Engineering Council of Canada (NSERC) Innovation to  
Impact (I2I) Program**
- 2019**        **CFI Innovation Grant Internal review for the University of British Columbia**
- 2019**        **MITACS Accelerate Grant (declined due to conflict of interest)**
- 2019**        **Canada Research Chair Program (Tier 2)**
- 2019**        **Animal Protocol Review – University Health Network (UHN), Toronto**
- 2018**        **The World-Wide Cancer Research (formerly AICR-UK) Project Grants**
- 2018**        **The Netherlands Organisation for Scientific Research (NWO),  
Vernieuwingsimpuls Innovational Research Incentives Scheme**
- 2018**        **NSERC Discovery Grants (2X)**
- 2017**        **The Netherlands Organisation for Scientific Research (NWO),  
Vernieuwingsimpuls Innovational Research Incentives Scheme**
- 2017**        **Israel Science Foundation (ISF) – Individual Grant Program**
- 2017**        **Canada Research Chair Program (Tier 2)**
- 2016**        **Wellcome Trust, Sir Henry Dale Fellowship**
- 2016**        **MITACS Accelerate Grant**
- 2016**        **National Science and Engineering Research Council (NSERC) Discovery  
Grant**
- 2015**        **Prostate Cancer UK: Movember Translational Research Grant**
- 2015**        **MITACS Elevate Grant**
- 2015**        **National Institutes of Health (NIH)(USA) Common Fund’s 4D Nucleome  
Program “*Study of Nuclear Bodies and Compartments*” RFA-RM-14-008  
(Review Declined)**
- 2015**        **Pancreatic Cancer UK - Research Innovation Award**
- 2015**        **University of Toledo (USA) - Research Initiation Award Program**
- 2014**        **Czech Science Foundation (GACR)**
- 2014**        **Michael Smith Foundation for Health Research (MSFHR), New Investigator  
Award**
- 2014**        **Pancreatic Cancer UK - Research Innovation Award**
- 2013**        **Terry Fox Research Institute (TFRI) New Investigator Award**
- 2013**        **NSERC Discovery Grant**
- 2013**        **Czech Science Foundation (GACR)**
- 2013**        **Cancer Research UK – Career Establishment Award**
- 2012**        **TFRI New Frontiers Team Grant**
- 2012**        **Canadian Breast Cancer Foundation (CBCF) - Prairies**
- 2012**        **Biotechnology, Biological Sciences Research Council (BBSRC) UK**
- 2011**        **Canadian Foundation for Innovation (CFI) Leaders Opportunity Fund  
(LOF) Award**

- 2011** Czech Science Foundation (GACR)
- 2010** NSERC Discovery Grant
- 2010** Collaborative Health Research Program (CHRP) Grant (NSERC/CIHR)
- 2010** External Reviewer for L'Agence Nationale de la Recherche (ANR) - France
- 2009** Michael Smith Foundation for Health Research (MSFHR) Research Trainee Program Award (British Columbia, Canada)
- 2009** CFI Leaders Opportunity Fund (LOF) Award
- 2008** NSERC Discovery Grant
- 2008** Medical Research Council (MRC) UK Research Grant
- 2007** Fonds zur Förderung der wissenschaftlichen Forschung (FWF)- Austrian Science Fund Operating Grant Competition
- 2007** NSERC Idea to Innovation Program

**Book Reviews:**

- 2013** Review of “**In situ Molecular Pathology and Co-Expression Analysis**”, Gerard J. Nuovo, Elsevier/Academic Press, 2013, for the **Can. J. Path** 2013, 5(4):151.
- 2001** Review of “**The Hierarchical Genome and Differentiation Waves — Novel Unification of Development, Genetics and Evolution**”, Richard Gordon, World Scientific/Imperial College Press, 1999, for the journal **Heredity** 2001, 87:254–255

**Reviewer for 58 different journals in the past 15 years (number of times), including:**

Annals of Human Genetics (1), Biochemistry and Cell Biology (2), Biochem Soc. Trans. (1), Biomaterials (2), BMC Cancer (1), BMC Genomics, BMC Molecular Biology (2), Can J. Phys-Pharmacol (1), Cancer Research (2), Cancer Letters (1), Cell Cycle (6), Cell Death & Differentiation (1), Chromosoma (2), Chromosome Research (1), Clinical Cancer Research (3), Comp. Struc. Biotech. J.(1), Current Biology (3), DNA Repair (2), EBiomedicine (1), EMBO Journal (2), Essays in Biochemistry (1), Experimental Cell Research (2), European Journal of Cell Biology (1), FEBS Letters (1), Frontiers in Cancer Genetics (1), Frontiers in Oncology (1), Genes (1), Heredity(1), iScience (2), Journal of Cell Biology (3), Journal of Cell Science (6), Journal of Experimental Medicine (1), Journal of Haematology & Oncology (1); Journal of Gerontology (1), Journal of Molecular Biology (1), Journal of Pathology (1), Journal of Structural Biology (1), JOVE (1), Methods (1), Molecular Cancer Research (1), Molecular Cancer Research (4), Molecular Cancer Therapeutics (2), Molecular and Cellular Biology (3), Molecular Cell (1), Molecular Biology of the Cell (3), Nature Cell Biology (1), Nature Communications (1); Nucleic Acids Research (8), Oncogene (3), Oncogenesis (1), Pharmacological Research (1), PLoS Genetics (1), PLoS ONE (3), PLoS Pathology (2), Scientific Reports (9), Theronostics (1), Trends in Biotechnology (1).

**TOTAL: 109 manuscripts**

## E) TEACHING

### Teaching Awards and Recognition

2013            **Janigan Teaching Award**, Dept. of Pathology, Dalhousie University, Halifax, Canada

### Training Program Development and Administration

2012-2020    **Course Coordinator: PATH 5040/ BIOC 5503/ MICI 5040** “*Pathobiology of Cancer*”

2012            **Course Development and update of PATH 5040** “*Pathobiology of Cancer*”

2010-2018    **Co-Chair Cancer Research Training Program (CRTP) Management Committee**, Dalhousie University, Halifax, Canada

### Text Books

2016            **The Functional Nucleus**, Eds. **Dellaire** and Bazett-Jones. Springer DE. ISBN: 978-3-319-38882-3

2014            **Cancer Genomics: From bench to personalized medicine**. Eds. **Dellaire**, Berman, Arceci. Elsevier. ISBN: 0123969670

2010            Issues Essay Supplement: “*Cancer Biomarkers: What are they and when do we use them?*” **Biology 8th ed**, Campbell and Reece, Pearson/Benjamin Cummings Publishing Inc., New York

### External Contribution to Teaching at other Universities

2021            **JN8405** “*Health & Science reporting*”, **Ryerson University (Toronto)** – interviewed by Ryerson students on the paper Mathavarajah et al., 2020 Science of the Total Environment. (March 3, 2021)

### Courses

2022            **PATH 5040 (MICI 5040, BIOC 5503)** “*Pathobiology of Cancer*”, coordinator and lecturer (5) (# students)

2022            **BIOL 3037** “*Life Rewritten: Applications and Implications of Gene Editing and Synthetic Biology*”, Lecturer (25) Lecture title: “Biological Pest Control using CRISPR/Cas9 and Gene Drive Technology” (March 24, 2022)

2022            **PATH 5027** “*Molecular Mechanisms in Cancer*”, Lecturer (8) – Lecture title: “Cell Cycle Checkpoints and DNA Repair” (March 25, 2022)

2021-22        **BIOC 4604/4605** “*Honours’ Project*”, supervisor (1)

2020            **PATH 5040 (MICI 5040, BIOC 5503)** “*Pathobiology of Cancer*”, coordinator and lecturer (5)

2020            **SCIE4901/4902** “*Honours’ Project*”, supervisor (2)

2020            **PATH 5027** “*Molecular Mechanisms in Cancer*”, Lecturer (16) – Lecture title: “Cell Cycle Checkpoints and DNA Repair”

2020            **ECED 4760** “*Introduction to Biomedical Engineering and Biosignal analysis*”, Lecturer (20) – Lecture title: “Introduction to advanced cellular imaging and

- super-resolution microscopy”
- 2020 SCIE4901/4902 “Honours’ Project”, supervisor (1)
- 2020 SCIE3100 “Experiential Learning”, supervisor (1)
- 2019 PATH 5066: Directed reading course, “Autophagy and Cellular Stress Responses”  
Coordinator and lecturer (1)
- 2019 ECED 4760 “Introduction to Biomedical Engineering and Biosignal analysis”,  
Lecturer (20) – Lecture title: “Introduction to advanced cellular imaging and  
super-resolution microscopy”
- 2019 SCIE3100 “Experiential Learning”, supervisor (1)
- 2018 PATH 5040 “Pathobiology of Cancer”, coordinator and lecturer (7)
- 2017 BIOL 3800 “Experiential Learning”, supervisor (1)
- 2016-17 BIOC 4604/4605 “Honours’ Project”, supervisor (1)
- 2016-17 BIOL/MARI 4900x/y, “Honours’ Project”, supervisor (1)
- 2016 PATH 5040 “Pathobiology of Cancer”, coordinator and lecturer (9)
- 2016 BIOC 5910 “Biochemistry Seminar” seminar/abstract marking (10)
- 2014 PATH 5040 “Pathobiology of Cancer”, coordinator and lecturer (7)
- 2013-14 BIOC 4604/4605 “Honours’ Project”, supervisor (1)
- 2013-14 MICI 4900 “Honours Research and Thesis”, supervisor (1)
- 2013 BIOC 3620 “Experiential Learning in Biochemistry & Molecular Biology” (1)
- 2012-13 BIOC 4604/4605 “Honours’ Project”, supervisor (2)
- 2012 BIOC 3620 “Experiential Learning in Biochemistry & Molecular Biology” (1)
- 2012 PATH 5040 “Pathobiology of Cancer”, co-coordinator and lecturer (7)
- 2012 PATH 5027 “Molecular Mechanisms in Cancer”, co-lecturer (10)
- 2011-12 BIOC 4604/4605 “Honours’ Project”, supervisor (1)
- 2010-11 BIOC 4604/4605 “Honours’ Project”, supervisor (1)
- 2010 PATH 5027 “Molecular Mechanisms in Cancer”, co-lecturer (10)
- 2010 PATH 5066/BIOC5001: Directed reading course, “DNA Repair”  
Coordinator and lecturer (2)
- 2009 Grader for Biochemistry & Molecular Biology Seminar Course, Dalhousie  
University, Halifax, Canada
- 2007 PATH 5066: Directed reading course, “Molecular Mechanisms of DNA Repair”  
Coordinator and lecturer (1)

#### Medical Undergraduate Education

- 2012 Laboratory Tour, Foundations I Unit
- 2011 Laboratory Tour, Foundations I Unit
- 2009 Participant in the Accreditation review of Dalhousie University by the  
Liaison Committee on Medical Education (LCME) (interviewee)

#### Pathology Resident Training Program (CDHA/Dalhousie University)

- 2015 Molecular Pathology Rotation, Lecture: “Cancer Genomics and interpreting  
genomic information for clinical care” (5 residents)
- 2013 Molecular Pathology Rotation, Lecture: “Cancer Genomics and interpreting  
genomic information for clinical care” (5 residents)



### Continuing Medical Education (CME)

- 2019 **Dellaire, G.** (February 27) “*CRISPR gene editing - Clinical applications and ethical concerns*” Dept. of Ophthalmology Grand Rounds, **Nova Scotia Health Authority/Dalhousie University Faculty of Medicine**, Halifax, Canada.
- 2017 **Dellaire, G.** (October 12) “*Seeing beyond the diffraction limit: Super-resolution microscopy techniques and applications*” Dept. of Pathology Grand Rounds, **Capital Health/Dalhousie University Faculty of Medicine**, Halifax, Canada.
- 2012 **Dellaire, G.** (February 9) “*Using Human Cancer Xenotransplantation in the Zebra Fish as a Novel Tumor Model for Anti-Cancer Drug Discovery*” Dept. of Pathology Grand Rounds, **Capital Health/Dalhousie University Faculty of Medicine**, Halifax, Canada.
- 2011 **Panel Member, Integrated Health Learning Program (IHRT) Grant Mentoring Days**, Mock Studentship Panel
- 2008 **Dellaire, G.** (January 10) “*Nuclear bodies and Cancer*” Grand Rounds, **Capital Health/IWK Health Centre/Dalhousie University Faculty of Medicine**, Halifax, Canada.

### Public Education and Community Engagement

- 2020 **COVID-19 Resources Canada – Explained Series** “[\*Pandemic danger to the deep: the risk of marine mammals contracting SARS-CoV-2 from wastewater\*](#)”
- 2019 **The Big Ride (Nova Scotia Participants) Lab Tour** (Halifax, Canada)
- 2017 **Speaker/Panel member, CIHR Café Scientific – Gene Therapy** (Halifax, Canada)
- 2017 **Keynote Speaker, Nova Scotia Institute of Science – “How to edit a Genome”**, (Halifax, Canada)
- 2016 **Halifax Prostate Cancer Survivor’s Support Group – Talk** an event to raise awareness about research in prostate cancer in Nova Scotia men’s health (Halifax, Canada)
- 2015 **MoTalks, Plenary Talk - Movember** sponsored event to raise awareness about men’s health (Halifax, Canada)
- 2014 **Canadian Breast Cancer Foundation-Atlantic Laboratory Tour**
- 2014 **S for Science Club, Nashwaaksis Middle School Lab Tour** (n=25)  
<http://nms-sforscienceclub.weebly.com/>
- 2012 **Canadian Medical Hall of Fame - Discovery Day Workshop:**  
“*Fishing for a Cure – Using zebrafish to study cancer*”, Dalhousie University, Halifax, Canada
- 2010 **Canadian Medical Hall of Fame - Discovery Day Workshop:**  
“*Cancer Close-up: Fluorescence microscopy of cancer cells*”, Dalhousie University, Halifax, Canada
- 2010 **Terry Fox Cancer Foundation High School Student Lab Tour**
- 2010 **Dalhousie Medical Research Foundation (DMRF) Young President's Organization (YPO) Lab Tour** (<http://www.ypo.org/>)
- 2009 **Terry Fox Cancer Foundation High School Student Lab Tour**
- 2009 **Breakfast Television Interview, A Channel (CTV)**, Halifax, Canada

## F) OTHER SCIENTIFIC CONTRIBUTIONS

### Government Consultation (unpaid)

- 2022** **Internal Report Review for NS Government** (June 23, 2022) "*Community-level summary statistics of measured radon in indoor air in Nova Scotia*" Kennedy, G., and J. Drage for the Nova Scotia Government, Dept. of Natural Resources and Renewables.
- 2022** **Round Table Meeting with Senator Stan Kutcher Re: Bill S-5** (March 28, 2022). Round table discussion the requirements for biomonitoring and toxicogenomic capacity in Canada to support the implementation of Bill S-5 (Strengthening Environmental Protection for a Healthier Canada Act).
- 2017** **Discussion with Nova Scotia Liberal MP Andy Fillmore** (May 25, 2017) regarding the previous positive impact of the Regional Partnership Program with the Canadian Institutes of Health Research (CIHR), and ways to improve research capacity and CIHR grant success rates for Nova Scotian Scientists.

### Professional Society Membership

- 2020** **Zebrafish Disease Modelling Society (ZDMS)**  
**2013-present** **Microscopy Society of Canada (MSC)**  
**2010-present** **Canadian Society for Molecular Biosciences (CSMB)**

### Editorial Boards

- 2021-present** **Associate Editor, Chromosome Research**  
**2018-2021** **Contributing Editor, Chromosome Research**  
**2017** **Guest Editor, Special Issue of Current Gene Therapy: "CRISPR Medicine: From Bench to Bedside"** vol 17, issue 4

### Conference, Meetings and Workshops

- 2019** **\*Organizer, 1<sup>st</sup> Canadian Environmental Exposures in Cancer (CE2C) Network Meeting**, (Oct 3), Halifax, Canada \*Funded by CIHR
- 2018-2019** **Member, 2019 Canadian Cancer Research Conference Organizing Committee**
- 2015** **Session Co-Chair, "The Genome Editing Revolution", 2015 Canadian Cancer Research Conference Organizing Committee**, (Nov. 8<sup>th</sup>), Montreal, Canada
- 2014** **\*Co-organizer/Chair. "Atlantic Canada GU Bio-Bank Workshop"**, Halifax, Canada \*Co-organized with Dr. John Thoms (Memorial University, NFLD)
- 2014-2015** **Member, 2015 Canadian Cancer Research Conference Organizing Committee**
- 2011-2019** **Chair of Organizing Committee for Dept. of Pathology Research Day**  
**Highlights**  
**2019** – Gairdner Award winner- **Dr. Edward Boyden** (MIT, Boston, USA)  
**2014** – DMRF Picchione Visiting Scholar Awarded to **Dr. Stuart Orkin** (Dana Farber, Havard University, Boston, USA)

- 2011 – DMRF Picchione Visiting Scholar Awarded to Dr. Robert Bristow**  
(Ontario Cancer Institute, University of Toronto)
- 2013 Session Chair, Rapid Fire Abstracts in DNA Repair and Genome Instability, Canadian Cancer Research Conference** (Nov. 4<sup>th</sup>), Toronto, Canada
- 2012 Scientific Organizing Committee, Microscopy Society of Canada (MSC) Annual Meeting** (June 5-8), Halifax, Canada
- 2012 Workshop Co-organizer with Dr. Claire Brown (McGill)**(June 8) – *3D In vivo Imaging*, Halifax, Canada
- 2007 Session Chair, Department of Pathology, Dalhousie University, Research Symposium**, Halifax, Canada
- 2004-2006 Co-founder and organizer, Toronto Nucleus**, Toronto, Canada. A monthly meeting of Toronto researchers studying nuclear function.
- 1999 Workshop: The Human Genome Project**, University of Edinburgh, UK.  
I developed and taught a one day workshop on the Human Genome Project for the Scottish Central Council for the Curriculum. Included an interactive website I designed.

#### Documentary Contributions

- 2021 Hosted documentarian Christine McLean, who took video footage of the Dellaire laboratory to include in the documentary “[The New Human](#)” on the Nature of Things on CBC.**

#### Addgene.org [Submissions](#)

- 2019** [#122507](#) pX330-LMNA-gRNA1 (from Pinder et al., 2015 NAR)  
[#122508](#) pCR2.1 Clover-LMNA Donor (from Pinder et al., 2015 NAR)

#### NCBI GEO Submissions

- 2017** Next Generation Sequencing of Gene expression changes in U2OS osteosarcoma cells with PML silencing (GSE94126)

#### NCBI GenBank Submissions

- 2013** Homo sapiens synaptopodin 2 (SYNPO2) isoform 4 mRNA, complete cds (KF147165)
- 2013** Homo sapiens eukaryotic translation initiation factor 3 subunit K isoform 2 (EIF3K) mRNA, complete cds, alternatively spliced (JX870647)
- 2002** Homo sapiens PRP4 kinase (PRP4K) mRNA, complete cds (AF283465)
- 2002** Mus musculus PRP4 kinase (Prp4k) mRNA, complete cds (AF283466)
- 2000** Homo sapiens ATP-dependent chromatin remodelling protein (ACF1) mRNA, complete cds (AF213467)

#### Computer Code and Computational Resources

- 2021 BBii-Decon - Projected Barzilai-Borwein Image Deconvolution with Infeasible Iterates**. Python 3.8, Jupyter Notebook and Napari plugin for 2D deconvolution/ deblurring of microscopy images. **Github:** <https://github.com/gdellaire/BBii-Decon/>

**Web sites, Databases and other Internet Resources:**

- 2001-** Nuclear Protein Database (NPD) <http://npd.hgu.mrc.ac.uk/>  
- Reviewed by J. of Cell Sci, Nat. Rev. Genet. and Science.
- 1999-2002** Recombination Pages (web site)  
- Resource for information on the recombination of DNA on the Internet
- 1999-2002** CanOasis (1999-2002) (web site, job listing)  
- A resource to help expatriate Canadian researchers find work in Canada
- 1996-2002** Experimental Medicine Job Listing (EMJL) - This site ran for 22 years until 2018  
<http://www.medicine.mcgill.ca/expmed/emjl/>
- 1996-2002** News Groups: [bionet.genome.gene-structure](mailto:bionet.genome.gene-structure) & [bionet.molbio.recombination](mailto:bionet.molbio.recombination)