

Laura K. Hilton, PhD

Curriculum Vitae

Education

2013	PhD, Molecular Biology and Biochemistry, Simon Fraser University Advisor: Dr. Lynne Quarmby Thesis: The NIMA-Related Kinases as Regulators of Ciliary Assembly and Disassembly
2008	BSc Hons with Distinction, Molecular Biology and Biochemistry, Simon Fraser University

Appointments

Jan. 2022 – Present	Adjunct Professor, Molecular Biology and Biochemistry, Simon Fraser University
Feb. 2020 – Present	Staff Scientist, Lymphoid Cancer Research, BC Cancer Research Centre Research interests: Genomic and transcriptomic approaches to characterizing and classifying non-Hodgkin lymphomas; tumour evolution and lymphomagenesis.
Feb. 2018 – Jan. 2020	Postdoctoral Fellow, Morin Lab, Molecular Biology and Biochemistry, Simon Fraser University Research interests: Whole genome and targeted sequencing approaches to identify genetic drivers of therapeutic resistance in non-Hodgkin lymphoma.
Sep. 2019 – Dec. 2019	Sessional Instructor, Molecular Biology and Biochemistry, Simon Fraser University. Course: MBB 460/829, combined undergraduate and graduate level course in Cancer Genomics
Sep. 2013 – Jan. 2017	Postdoctoral Research Assistant, Quarmby Lab, Molecular Biology and Biochemistry, Simon Fraser University
Aug. 2015 – Mar. 2017	Visiting Teaching Fellow, Life Sciences, Quest University Canada.

Awards and Honours

2019	15-ICML Travel Award for Top 10-ranked Abstract
2013	SFU Faculty of Science Graduate Teaching Assistant Award
2013	Brandhorst Graduate Prize for Best Publication by an MBB Graduate Student
2013	SFU Graduate Student Research Award
2013	Bruce Brandhorst Graduate Award – Best Oral Presentation
2010-2012	NSERC Alexander Graham Bell Canada Graduate Scholarship – Doctoral
2012	IODE Seaman Morley Scott Memorial Graduate Scholarship
2012	Phyllis Carter Burr Graduate Scholarship in Developmental Biology and Cell Biology
2012	SFU Graduate Fellowship
2011	SFU President's Research Stipend
2008-2010	NSERC Alexander Graham Bell Canada Graduate Scholarship – Masters

Publications

Published Peer-Reviewed Articles and Preprints

39 total; 12 as (co-)first author

**Equal contributions*

- Alduaij, W., Jiang, A., Villa, D., Collinge, B., Ben-Neriah, S., Boyle, M., Meissner, B., Hilton, L.K., Farinha, P., Slack, G.W., Craig, J.W., Gerrie, A.S., Freeman, C.L., Mungall, A.J., Steidl, C., Sehn, L.H., Scott, D.W., Savage, K.J., **2025**. [CNS relapse in high-grade B-cell lymphoma with MYC and BCL2 rearrangements and dark-zone signature-expressing DLBCL](#). *Blood*. **145**, 590–596.
- Alduaij, W., Sehn, L.H., Champagne, J.-N., Collinge, B., Ben-Neriah, S., Jiang, A., Hilton, L.K., Boyle, M., Meissner, B., Slack, G.W., Farinha, P., Craig, J.W., Savage, K.J., Villa, D., Gerrie, A.S., Freeman, C.L., Mungall, A.J., Steidl, C., Scott, D.W., **2025**. [Population-Wide Introduction of Dose-Adjusted EPOCH-R In High-grade B-cell Lymphoma with MYC/BCL2 Rearrangements, DLBCL Morphology](#). *Blood Adv.* bloodadvances.2025017282.
- Champagne, J.-N., Villa, D., Gerrie, A.S., Venner, C.P., Slack, G.W., Farinha, P., Craig, J.W., Hilton, L.K., Savage, K.J., Scott, D.W., Sehn, L.H., **2025**. [Retreatment with R-CHOP-like Therapy in Patients with Late Relapse of Diffuse Large B-Cell Lymphoma](#). *Blood Adv.* bloodadvances.2025017620.
- Collinge, B., Hilton, L.K., Wong, J., Alduaij, W., Ben-Neriah, S., Slack, G.W., Farinha, P., Boyle, M., Meissner, B., Cook, J.R., Ott, G., Rosenwald, A., Campo, E., Amador, C., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Ondrejka, S.L., Jaffe, E.S., Weisenburger, D.D., Chan, W.C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Iqbal, J., Wright, G., Savage, K.J., Mungall, A.J., Staudt, L.M., Steidl, C., Feldman, A.L., Morin, R.D., Rimsza, L.M., Scott, D.W.,

- 2025.** [High-grade B-cell lymphoma, not otherwise specified: An LLMP study.](#) *Blood Adv.* **9**, 5409–5422.
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- Feldman, A.L., Dasari, S., Rimsza, L.M., Scott, D.W., Oishi, N., Hu, G., Farinha, P., Amador, C., Campo, E., Chan, W.C., Cook, J.R., Delabie, J., Fu, K., Greiner, T.C., Hilton, L.K., Inghirami, G.G., Iqbal, J., Jaffe, E.S., Morin, R., Ondrejka, S.L., Ott, G., Pittaluga, S., Raess, P.W., Rosenwald, A., Savage, K.J., Slack, G.W., Slager, S.L., Song, J.Y., Wright, G., Wang, H.-W., Zeng, Y., Yoshino, T., Wu, X., Wilcox, R.A., Wang, X., Shi, M., Satou, A., Perry, A.M., Miranda, R.N., Medeiros, L.J.J., Maurer, M.J., Mou, E., Ko, Y.H., Karube, K., Kahl, B.S., Jiang, L., Jaye, D.L., Gru, A., de Leval, L.L., Chen, W., Chapman, J.R., Cerhan, J.R., Barrionuevo, C., Ansell, S.M., Aljudi, A., **2025.** [Gene expression profiling reveals two overarching types of ALCL with distinct targetable biology: An LLMP study.](#) *Blood.* blood.2024027700.
- Hilton, L.K., Collinge, B., Scott, D.W., **2025.** [Genomic Taxonomy of Aggressive B-Cell Lymphoid Neoplasms.](#) *Annu Rev Pathol.*
- Klossok, L., Dreval, K., Cruz, M., Wong, J.C.H., Gillis, S., Collinge, B., Steidl, C., Scott, D.W., Hilton, L.K., Morin, R.D., **2025.** [DLBCLone: A unified framework for neighbourhood-based genetic subtyping of lymphomas.](#) *medRxiv.* 2025.09.18.25335809.
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- Ott, G., Petrello, H., Reynolds, S.J., Swerdlow, S.H., Traverse-Glehen, A., Wilson, W.H., Marra, M.A., Staudt, L.M., Scott, D.W., Esteller, M., Morin, R.D., **2025**. [DNA Methylation Epitypes of Burkitt Lymphoma with Distinct Molecular and Clinical Features](#). *Blood Cancer Discov.* **6**, 325–342.
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- Hilton, L.K., Collinge, B., Ben-Neriah, S., Alduaij, W., Shaalan, H., Weng, A.P., Cruz, M., Slack, G.W., Farinha, P., Miyata-Takata, T., Boyle, M., Meissner, B., Cook, J.R., Ondrejka, S.L., Ott, G., Rosenwald, A., Campo, E., Amador, C., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Jaffe, E.S., Weisenburger, D.D., Chan, W.C., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Iqbal, J., Wright, G., Sehn, L.H., Savage, K.J., Mungall, A.J., Feldman, A.L., Staudt, L.M., Steidl, C., Rimsza, L.M., Morin, R.D., Scott, D.W., **2024**. [Motive and opportunity: MYC rearrangements in high-grade B-cell lymphoma with MYC and BCL2 rearrangements \(an LLMPP study\)](#). *Blood.* **144**, 525–540.
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- Hilton, L.K., Scott, D.W., Morin, R.D., **2023**. [Biological heterogeneity in diffuse large B-cell lymphoma](#). *Semin Hematol.* **60**, 267–276.
- Hilton, L.K., Ngu, H.S., Collinge, B., Dreval, K., Ben-Neriah, S., Rushton, C.K., Wong, J.C.H., Cruz, M., Roth, A., Boyle, M., Meissner, B., Slack, G.W., Farinha, P., Craig, J.W., Gerrie, A.S.,

- Freeman, C.L., Villa, D., Rodrigo, J.A., Song, K., Crump, M., Shepherd, L., Hay, A.E., Kuruvilla, J., Savage, K.J., Kridel, R., Karsan, A., Marra, M.A., Sehn, L.H., Steidl, C., Morin, R.D., Scott, D.W., **2023**. [Relapse Timing Is Associated With Distinct Evolutionary Dynamics in Diffuse Large B-Cell Lymphoma](#). *J Clin Oncol*. **41**, 4164–4177.
- Sircar, A., Singh, S., Xu-Monette, Z.Y., Coyle, K.M., Hilton, L.K., Chavdoula, E., Ranganathan, P., Jain, N., Hanel, W., Tschlis, P., Alinari, L., Peterson, B.R., Tao, J., Muthusamy, N., Baiocchi, R., Epperla, N., Young, K.H., Morin, R., Sehgal, L., **2023**. [Exploiting the fibroblast growth factor receptor-1 vulnerability to therapeutically restrict the MYC-EZH2-CDKN1C axis-driven proliferation in Mantle cell lymphoma](#). *Leukemia*. **37**, 2094–2106.
- Thomas, N., Dreval, K., Gerhard, D.S., Hilton, L.K., Abramson, J.S., Ambinder, R.F., Barta, S., Bartlett, N.L., Bethony, J., Bhatia, K., Bowen, J., Bryan, A.C., Cesarman, E., Casper, C., Chadburn, A., Cruz, M., Dittmer, D.P., Dyer, M.A., Farinha, P., Gastier-Foster, J.M., Gerrie, A.S., Grande, B.M., Greiner, T., Griner, N.B., Gross, T.G., Harris, N.L., Irvin, J.D., Jaffe, E.S., Henry, D., Huppi, R., Leal, F.E., Lee, M.S., Martin, J.P., Martin, M.-R., Mbulaiteye, S.M., Mitsuyasu, R., Morris, V., Mullighan, C.G., Mungall, A.J., Mungall, K., Mutyaba, I., Nokta, M., Namirembe, C., Noy, A., Ogwang, M.D., Omoding, A., Orem, J., Ott, G., Petrello, H., Pittaluga, S., Phelan, J.D., Ramos, J.C., Ratner, L., Reynolds, S.J., Rubinstein, P.G., Sissolak, G., Slack, G., Soudi, S., Swerdlow, S.H., Traverse-Glehen, A., Wilson, W.H., Wong, J., Yarchoan, R., Zenklusen, J.C., Marra, M.A., Staudt, L.M., Scott, D.W., Morin, R.D., **2023**. [Genetic subgroups inform on pathobiology in adult and pediatric Burkitt lymphoma](#). *Blood*. **141**, 904–916.
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- or obinutuzumab treatment. *Blood Adv.* **5**, 2945–2957.
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- *Jiang, A., *Hilton, L.K., Tang, J., Rushton, C.K., Grande, B.M., Scott, D.W., Morin, R.D., **2020**. [PRPS-ST: A protocol-agnostic self-training method for gene expression-based classification of blood cancers](#). *Blood Cancer Discov.* **1**, 244–257.
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- Hilton, L.K., Meili, F., Buckoll, P.D., Rodriguez-Pike, J.C., Choutka, C.P., Kirschner, J.A., Warner, F., Lethan, M., Garces, F.A., Qi, J., Quarmby, L.M., **2016**. [A Forward Genetic Screen and Whole Genome Sequencing Identify Deflagellation Defective Mutants in Chlamydomonas, Including Assignment of ADF1 as a TRP Channel](#). *G3 (Bethesda)*. **6**, 3409–3418.
- Hilton, L.K., Gunawardane, K., Kim, J.W., Schwarz, M.C., Quarmby, L.M., **2013**. [The kinases LF4 and CNK2 control ciliary length by feedback regulation of assembly and disassembly rates](#). *Curr Biol.* **23**, 2208–2214.
- *Parker, J.D.K., *Hilton, L.K., Diener, D.R., Rasi, M.Q., Mahjoub, M.R., Rosenbaum, J.L., Quarmby, L.M., **2010**. [Centrioles are freed from cilia by severing prior to mitosis](#). *Cytoskeleton (Hoboken)*. **67**, 425–430.
- Hilton, L.K., White, M.C., Quarmby, L.M., **2009**. [The NIMA-related kinase NEK1 cycles through the nucleus](#). *Biochem Biophys Res Commun.* **389**, 52–56.

Invited Commentary

- Hilton, L.K., **2024**. [A nu mouse model of diffuse large B-cell lymphoma in constitutional Atm loss](#). *Haematologica*. **109**, 3841–3843.
- Hilton, L.K., Scott, D.W., **2021**. [Harnessing Mitochondrial Mutations to ATAC Clonal Evolution in CLL](#). *Cancer Discov.* **11**, 2965–2967.
- Hilton, L.K., Quarmby, L.M., **2011**. *Cilia*. Nabi, I.R. (Ed.), Cellular Domains. Wiley, Hoboken.

Presentations

Invited Presentations

2025	Plenary introduction: Diffuse large B-cell lymphoma classification and ancestry. American Society of Hematology Annual Meeting, Orlando, FL, USA.
2024	The Biology of Relapsed/Refractory DLBCL. Women in Lymphoma Webinar, virtual.
2023	The Biology and Evolution of Relapse in DLBCL. SWOG Fall 2023 Group Meeting, Chicago, IL.
2023	From Cell of Origin to Mutational Landscape 20 years of Evolving Molecular Classification in DLBCL. International Ullmann Chicago Lymphoma Symposium, Chicago, IL.
2022	Relapse Timing Is Associated with Distinct Evolutionary Dynamics and Response to Salvage Therapy in DLBCL. BC Cancer Summit, Vancouver, BC.
2021	Invited Departmental Seminar, Molecular Biology and Biochemistry, Simon Fraser University.
2021	Guest lecture on alternate academic career paths, MBB 801, Simon Fraser University, Canada.
2021	Guest lecture on lymphoma genomics and transcriptomics, Cancer Biology, Quest University, Canada.
2020	Guest lecture on transcriptomic analysis, MBB 460/669 Cancer Genomics, Simon Fraser University, Canada.
2020	Guest lecture on alternate academic career paths, MBB 801, Simon Fraser University, Canada.
2019	Oxford Nanopore long-read sequencing to refine somatic variant identification. Precision Medicine and Ion Channel Retreat, Vancouver, BC.
2016	From Cilia to Climate Change: The Algae Connection. Hot Topics in Science Seminar, Quest University Canada.
2017	Forward Genetics in the Era of Next Gen Sequencing. Guest Lecture, BIOL436 Intro to Functional Genomics, UBC.

Conference Oral Presentations

Alduaij, W., Sehn, L.H., Champagne, J., Collinge, B., Ben-Neriah, S., Jiang, A., Hilton, L.K., Boyle, M., Meissner, B., Slack, G.W., Farinha, P., Craig, J.W., Savage, K.J., Villa, D., Gerrie, A.S., Freeman, C.L., Mungall, A.J., Steidl, C., Scott, D.W., **2025**. Population-Wide Introduction of Dose-Adjusted Epoch-R in High-Grade B-Cell Lymphoma with Myc and Bcl2 Rearrangements with Dlbcl Morphology. International Conference on Malignant Lymphoma. Lugano, CH.

Fong, A., Collinge, B., Hilton, L.K., Rai, S., Cassidy, C., Ben-Neriah, S., Boyle, M., Telenius, A., Meissner, B., Farinha, P., Lytle, A., Slack, G., Venturruti, L., Roth, A., Steidl, C., Morin, R.D., Scott, D.W., **2025**. Multi-Omic Profiling of Dark Zone Lymphomas Uncovers Dysregulated Gene Regulatory Networks Reflecting Dz-Lz B-Cell Transition Dynamics. International Conference on Malignant Lymphoma. Lugano, CH.

Hilton, L.K., Fujisawa, M., Tse, E., Sarkozy, C., Lo, A.C., Dreval, K., Meissner, B., Boyle, M., Craig, J.W., Slack, G.W., Farinha, P., Lytle, A., Freeman, C.L., Gerrie, A.S., Villa, D., Savage, K.J.,

- Sehn, L.H., Karsan, A., Morin, R.D., Steidl, C., Scott, D.W., **2025**. Whole Genome Sequencing of Serial FI Biopsies from 96 Patients with Follicular Lymphoma Reveal Treatment-Specific Patterns of Tumour Evolution. International Conference on Malignant Lymphoma. Lugano, CH.
- Parker, H., Stevens, B., Mirandari, A., Jaramillo-Oquendo, C., Duran-ferrer, M., Buermann, L., Amarasinghe, H., Thomas, J., Carr, L., Syeda, S., Sakthipakan, M., Parry, M., Rose-Zerilli, M., Davis, Z., McIver-Brown, N., Xochelli, A., Ennis, S., Scarfo, L., Ghia, P., Kalpadakis, C., Pangalis, G., Rossi, D., Ahearne, M., PD Dr. Seifert, M., Plass, C., Weichenhan, D., Kimby, E., Sutton, L.A., Rosenquist, R., Pratt, G., Forconi, F., Stamatopoulos, K., Salido, M., Prince-Eladnani, R., Thieblemont, C., Hilton, L., Morin, R., Walewska, R., Martin-Subero, J., Oscier, D., Oakes, C., Gibson, J., Bryant, D., Strefford, J., **2025**. [Integrated multi-omic profiling reveals two biologically distinct subgroups of splenic marginal zone lymphoma with prognostic relevance](#). American Society of Hematology Annual Meeting. Orlando, FL, USA.
- Pelzer, B., Meydan, C., Spiegel, I., Karagiannidis, I., Xia, M., Teater, M., Welter, E., Searcy, Z., Hilton, L., Barisic, D., Fa, P., Sethi, S., Isgor, I., Fielding, J., Karbalyhareh, A., Burdette, C., Tumuluru, S., Debek, S., Lee, S., Massoni-Badosa, R., Durmaz, C., Salataj, E., Pararajalingam, P., Chen, Z., Pelzl, R., Shah, S., Rivas, M., Hoehn, K., Mlynarczyk, C., Isles, H., Dogan, A., Elenitoba-Johnson, K., Scott, D., Dreval, K., Morin, R., Leslie, C., Puri, R., Geri, J., Chin, C., Chadburn, A., Mason, C., Reinhardt, H.C., Anguera, M., Béguelin, W., Venturutti, L., Melnick, A., **2025**. [Spen loss drives extra-follicular diffuse large B cell lymphoma with female-specific lethality and TLR pathway therapeutic vulnerabilities](#). American Society of Hematology Annual Meeting. Orlando, FL, USA.
- Russler-Germain, D.A., Li, X., Singhal, K., Deng, Q., Chihara, D., Hussein, U., Foltz, J.A., Henderson, J., Wilson, A., Tobin, J., Gandhi, M.K., Schmidt, E., Nizamuddin, I., Dinh, T., Sun, R., Kesaraju, A., Hilton, L., Scott, D.W., Vega, F., Flowers, C.R., Westin, J.R., Griffith, O.L., Fehniger, T.A., Griffith, M., Green, M.R., **2025**. Large B-Cell Lymphoma Microenvironment Archetype Profiles (lymphomaps) Identify Subgroups with Greatest Benefit from Cd19 Car T-Cell Therapy. International Conference on Malignant Lymphoma. Lugano, CH.
- Li, X., Singhal, K., Deng, Q., Chihara, D., Russler-Germain, D.A., Hussein, U., Foltz, J.A., Henderson, J., Wilson, A., Schmidt, E., Nizamuddin, I.A., Dinh, T., Sun, R., Kesaraju, A., Hilton, L.K., Scott, D.W., Vega, F., Flowers, C.R., Griffith, O., Fehniger, T.A., Griffith, M., Green, M.R., **2024**. Comprehensive Characterization and Validation of the Tumor Microenvironment in Patients with Relapsed/Refractory Large B-Cell Lymphoma Identifies Subgroups with Greatest Benefit from CD19 CAR T-Cell Therapy. American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Rai, S., Aoki, T., Duns, G., Jiang, A., Lytle, A., Yin, Y., Kishida, M., Li, M.Y., Smorra, D., Lee, C., Milne, K., Telenius, A., O'Brien, L., Takata, K., Miyata-Takata, T., Boyle, M., Ben-Neriah, S., Weng, A.P., Roth, A., Nelson, B.H., Hilton, L.K., Farinha, P., Savage, K.J., Scott, D.W., Steidl, C., **2024**. CSF2RB Mutations Result in Cytokine-Dependent Gain-of-Function Phenotypes in Classic Hodgkin Lymphoma. American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Shaalán, H., Frontzek, F., Freeman, C.L., Lytle, A., Farinha, P., Alduaij, W., Ben-Neriah, S., Boyle, M., Meissner, B., Weng, A.P., Sehn, L.H., Steidl, C., Hilton, L., Scott, D.W., Morin, R., **2024**. A Novel Genetics-Based Classification of Advanced Follicular Lymphoma Identifies Prognostic Subgroups Following Bendamustine-Rituximab Immunochemotherapy. American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Wong, J.C.H., Frontzek, F., Lytle, A., Collinge, B., Hilton, L., Ben-Neriah, S., Slack, G.W., Farinha, P., Gerrie, A.S., Li, Y., Kosnopfel, C., Cook, J.R., Salaverria, I., Campo, E., Ott, G., Rosenwald, A., Amador, C., Jaffe, E.S., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Weisenburger,

- D.D., Chan, W.C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Feldman, A.L., Savage, K.J., Mungall, A.J., Steidl, C., Lenz, G., Rimsza, L.M., Morin, R., Scott, D.W., **2024**. Biological and Prognostic Subgroups of Plasmablastic Lymphoma Defined By EBV Status and MYC Rearrangement- an L.L.M.P.P. Study. American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Bal, E., De Simone, P., Holmes, A.B., Hilton, L., Basso, K., Soni, R.K., Morin, R.D., Dalla-Favera, R., Pasqualucci, L., **2023**. [Btg2 Super-Enhancer Mutations Disrupt Tfp4 Binding and Dysregulate Btg2 Expression in Diffuse Large B-Cell Lymphoma](#). International Conference on Malignant Lymphoma. Lugano, CH.
- De Simone, P., Bal, E., Holmes, A., Hilton, L., Basso, K., Soni, R.K., Morin, R., Dalla-Favera, R., Pasqualucci, L., **2023**. [BTG2 Super-Enhancer Mutations Disrupt TFAP4 Binding and Deregate BTG2 Expression in Diffuse Large B-Cell Lymphoma](#). American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Coyle, K.M., Qureshi, Q.U.A., Ruprai, B., Kang, T., Hilton, L.K., Dreval, K., Pararajalingam, P., Rushton, C.K., Thomas, N., Audas, T.E., Morin, R.D., **2022**. [Exploring Splicing Factor Aberrations As a Therapeutic Target in Mature B-Cell Malignancies](#). American Society of Hematology Annual Meeting. New Orleans, LA, USA.
- Hilton, L.K., Ngu, H.S., Collinge, B., Dreval, K., Ben-Neriah, S., Rushton, C.K., Wong, J., Cruz, M., Roth, A., Boyle, M., Meissner, B., Slack, G.W., Farinha, P., Craig, J.W., Gerrie, A.S., Freeman, C.L., Villa, D., Savage, K.J., Sehn, L.H., Marra, M.A., Karsan, A., Steidl, C., Morin, R.D., Scott, D.W., **2022**. Relapse Timing Is Associated with Distinct Evolutionary Dynamics and Response to Salvage Therapy in DLBCL. American Society of Hematology Annual Meeting. New Orleans, LA, USA.
- Thomas, N., Dreval, K., Gerhard, D.S., Hilton, L.K., Abramson, J.S., Bartlett, N.L., Bethony, J., Bowen, J., Bryan, A., Casper, C., Dyer, M., Esteller, M., Garcia-Prieto, C., Gastier-Foster, J.M., Gerrie, A.S., Grande, B.M., Greiner, T.C., Griner, N.B., Gross, T.G., Harris, N.L., Irvin, J.D., Jaffe, E.S., Leal, F., Martin, J.P., Martin, M.-R., Mbulaiteye, S.M., Mullighan, C.G., Mungall, A.J., Mungall, K., Namirembe, C., Noy, A., Ogwang, M.D., Orem, J., Ott, G., Petrello, H., Reynolds, S.J., Swerdlow, S.H., Traverse-Glehen, A., Wilson, W.H., Marra, M.A., Staudt, L.M., Scott, D.W., Morin, R.D., **2022**. [DNA Methylation-Based Burkitt Lymphoma Epitypes Have Distinct Molecular and Clinical Features](#). American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Collinge, B.J., Hilton, L.K., Wong, J., Ben-Neriah, S., Rushton, C.K., Slack, G.W., Farinha, P., Cook, J.R., Ott, G., Rosenwald, A., Campo, E., Amador, C., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Jaffe, E.S., Weisenburger, D.D., Chan, W.C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Feldman, A.L., Savage, K.J., Mungall, A.J., Staudt, L.M., Steidl, C., Rimsza, L.M., Morin, R.D., Scott, D.W., **2021a**. [Characterization of the Genetic Landscape of High-Grade B-Cell Lymphoma, Nos – an Lmpp Project](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Collinge, B.J., Hilton, L.K., Wong, J., Ben-Neriah, S., Alduaij, W., Rushton, C.K., Slack, G.W., Farinha, P., Miyata-Takata, T., Cook, J.R., Ott, G., Rosenwald, A., Campo, E., Amador, C., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Jaffe, E.S., Weisenburger, D.D., Chan, W.C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Feldman, A.L., Sehn, L.H., Savage, K.J., Mungall, A.J., Staudt, L.M., Steidl, C., Rimsza, L.M., Morin, R.D., Scott, D.W., **2021b**. [The Mutational Landscape of Double/Triple-Hit High-Grade B-Cell Lymphoma with Bcl2 Rearrangement \(dh/Th-Bcl2\) – an Lmpp Project](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Dreval, K., Thomas, N., Gerhard, D.S., Hilton, L.K., Wong, J., Abramson, J.S., Bartlett, N.L., Bethony, J., Bowen, J., Bryan, A.C., Casper, C., Dyer, M., Gastier-Foster, J.M., Grande, B.M., Greiner, T.,

- Griner, N.B., Gross, T.G., Harris, N.L., Irvin, J.D., Jaffe, E., Leal, F., Martin, J.P., Martin, M.-R., Mbulaiteye, S.M., Mullighan, C.G., Mungall, A.J., Mungall, K., Namirembe, C., Noy, A., Ogwang, M.D., Orem, J., Petrello, H., Reynolds, S.J., Swerdlow, S.H., Traverse-Glehen, A., Wilson, W.H., Marra, M.A., Staudt, L.M., Scott, D.W., Morin, R.D., **2021**. [Copy Number Variation Analysis Identifies Distinct Genomic Features in Adult Burkitt Lymphoma](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Hilton, L.K., Dreval, K., Soudi, S., Ben-Neriah, S., Cruz, M., Collinge, B., Coyle, K.M., Grande, B.M., Duns, G., Rushton, C.K., Boyle, M., Meissner, B., Farinha, P., Slack, G.W., Mungall, A.J., Marra, M.A., Connors, J.M., Steidl, C., Scott, D.W., Morin, R.D., **2021**. Constrained FL: A Genetically Distinct Subgroup of Follicular Lymphoma with Low Rates of Somatic Hypermutation and a Reduced Propensity for Histologic Transformation. American Society of Hematology Annual Meeting. Atlanta, GA, USA.
- Hilton, L.K., Collinge, B., Ben-Neriah, S., Grande, B.M., Slack, G.W., Farinha, P., Miyata-Takata, T., Cook, J.R., Ott, G., Rosenwald, A., Campo, E., Amador, C., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Jaffe, E.S., Weisenburger, D.D., Chan, W.C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Feldman, A.L., Sehn, L.H., Savage, K.J., Mungall, A.J., Staudt, L.M., Steidl, C., Rimsza, L.M., Morin, R.D., Scott, D.W., **2021a**. The Topology of Myc Rearrangements in Double-Hit Lymphoma Is Constrained by the Preceding Igh-Bcl2 Rearrangement – an LImpp Project. International Conference on Malignant Lymphoma. Lugano, CH.
- Hilton, L.K., Collinge, B., Ben-Neriah, S., Grande, B.M., Slack, G.W., Farinha, P., Miyata-Takata, T., Cook, J.R., Ott, G., Rosenwald, A., Campo, E., Amador, C., Greiner, T.C., Raess, P.W., Song, J.Y., Inghirami, G., Jaffe, E.S., Weisenburger, D.D., Chan, W.C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Feldman, A.L., Sehn, L.H., Savage, K.J., Mungall, A.J., Staudt, L.M., Steidl, C., Rimsza, L.M., Morin, R.D., Scott, D.W., **2021b**. [The Topology of Myc Rearrangements in Double-Hit Lymphoma Is Constrained by the Preceding Igh-Bcl2 Rearrangement – an LImpp Project](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Hilton, L.K., Collinge, B., Rushton, C.K., Ben-Neriah, S., Dreval, K., Grande, B.M., Boyle, M., Meissner, B., Slack, G.W., Farinha, P., Craig, J.W., Gerrie, A.S., Freeman, C., Villa, D., Savage, K.J., Sehn, L.H., Marra, M.A., Steidl, C., Morin, R.D., Scott, D.W., **2021a**. Whole Genome Sequencing of Matched Primary and Relapsed DLBCL Reveals Distinct Evolutionary Dynamics Associated with Relapse Timing. International Conference on Malignant Lymphoma. Lugano, CH.
- Hilton, L.K., Collinge, B., Rushton, C.K., Ben-Neriah, S., Dreval, K., Grande, B.M., Boyle, M., Meissner, B., Slack, G.W., Farinha, P., Craig, J.W., Gerrie, A.S., Freeman, C., Villa, D., Savage, K.J., Sehn, L.H., Marra, M.A., Steidl, C., Morin, R.D., Scott, D.W., **2021b**. [Whole Genome Sequencing of Matched Primary and Relapsed DLBCL Reveals Distinct Evolutionary Dynamics Associated with Relapse Timing](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Orem, J., Martin, M.-R., Mbulaiteye, S.M., Mullighan, C.G., Mungall, A.J., Mungall, K., Namirembe, C., Noy, A., Petrello, H., Ogwang, M.D., Martin, J.-P., Reynolds, S.J., Swerdlow, S.H., Traverse-Glehen, A., Wilson, W.H., Marra, M.A., Staudt, L.M., Scott, D.W., Morin, R.D., Timothy, G., Dryer, M., Dreval, K., Gerhard, D.S., Hilton, L.K., Abramson, J.S., Bartlett, N.L., Bethony, J., Bowen, J., Bryan, A., Casper, C., Thomas, N., Gastier-Foster, J.M., Grande, B.M., Griner, N.B., Gross, T.G., Harris, N.L., Irvin, J.D., Jaffe, E., Leal, F., **2021**. [Key Genetic and Molecular Aberrations Identified in Both Adult and Ebv-Positive Burkitt Lymphoma Patients](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Pararajalingam, P., Hilton, L.K., Coyle, K.M., Dreval, K., Meissner, B., Melnick, A., Marra, M.A., Scott, D.W., Morin, R.D., **2021**. [Complex Structural Variation Associated with Enhancer Hijacking](#)

[and Loss of Tumor Suppressors in Mantle Cell Lymphoma](#). American Society of Hematology Annual Meeting. New Orleans, LA, USA.

- Thomas, N., Dreval, K., Gerhard, D.S., Hilton, L.K., Abramson, J.S., Bartlett, N.L., Bethony, J., Bowen, J., Bryan, A., Casper, C., Cruz, M., Dyer, M., Gastier-Foster, J.M., Gerrie, A.S., Grande, B.M., Greiner, T.C., Griner, N.B., Gross, T.G., Harris, N.L., Irvin, J.D., Jaffe, E.S., Leal, F., Martin, J.P., Martin, M.-R., Mbulaiteye, S.M., Mullighan, C.G., Mungall, A.J., Mungall, K., Namirembe, C., Noy, A., Ogwang, M., Orem, J., Ott, G., Petrello, H., Reynolds, S., Soudi, S., Swerdlow, S.H., Traverse-Glehen, A., Wilson, W.H., Wong, J., Marra, M.A., Staudt, L.M., Scott, D.W., Morin, R.D., **2021**. [Novel Genetic Subgroups Inform on Shared Pathobiology within Adult and Pediatric Burkitt Lymphoma](#). American Society of Hematology Annual Meeting. New Orleans, LA, USA.
- Hilton, L.K., Nowicka, M., Ashton-Key, M., Hargreaves, C.E., Lee, C., Foxall, R., Carter, M.J., Beers, S.A., Potter, K.N., Bolen, C.R., Klein, C., Knapp, A., Mir, F., Rose-Zerilli, M., Burton, C., Klapper, W., Scott, D.W., Sehn, L.H., Vitolo, U., Martelli, M., Trneny, M., Slack, G.W., Farinha, P., Strefford, J.C., Oestergaard, M.Z., Morin, R.D., Cragg, M.S., **2020**. [Prognostic significance of Fc gamma receptor IIB expression in the response of previously untreated diffuse large B-cell lymphomas to anti-CD20 monoclonal antibodies: Differing impact of rituximab and obinutuzumab](#). AACR Virtual Meeting: Advances in Malignant Lymphoma. Virtual.
- Thomas, N., Hilton, L.K., Michaud, N., Bushell, K., Rys, R., Jain, M., Shepherd, L., Marra, M.A., Kuruvilla, J., Crump, M., Mann, K., Assouline, S., Steidl, C., Cragg, M.S., Scott, D.W., Johnson, N., Morin, R.D., Rushton, C.K., Arthur, S.E., Alcaide, M., Cheung, M., Jiang, A., Coyle, K.M., Cleary, K.L.S., **2020**. [Abstract IA42: Detecting and quantifying mutations associated with treatment resistance in aggressive lymphomas using ctDNA](#). AACR Virtual Meeting: Advances in Malignant Lymphoma. Virtual.
- Hilton, L.K., Alcaide, M., Ben-Neriah, S., Jiang, A., Grande, B.M., Rushton, C.K., Boyle, M., Meissner, B., Scott, D.W., Morin, R.D., **2019**. Cryptic Myc and Bcl2 Rearrangements Are Among a Range of Genetic Mechanisms Underlying the Double Hit Signature in Non-Double Hit Diffuse Large B-Cell Lymphoma. International Conference on Malignant Lymphoma. Lugano, CH.
- Hilton, L.K., Gunawardane, K., Kim, J.W., Schwarz, M.C., Quarmbay, L.M., **2013**. The kinases LF4 and CNK2 control ciliary length by feedback control of assembly and disassembly rates. American Society for Cell Biology Annual Meeting. New Orleans, LA, USA.

Conference Poster Presentations

- Banco, G., Dreval, K., Hilton, L., Scott, D., Trimble, M.J., Lee, A.H.Y., Coyle, K., Morin, R., **2025**. [Evaluating targeted long-read sequencing as a diagnostic tool for burkitt lymphoma](#). American Society of Hematology Annual Meeting. Orlando, FL, USA.
- Dreval, K., Cruz, M., Hilton, L.K., Shaalan, H., Wijesinghe, M., Frontzek, F., Pararajalingam, P., Freeman, C., Lytle, A., Farinha, P., Alduaij, W., Ben-Neriah, S., Boyle, M., Meissner, B., Rushton, C., Wong, J., Mirhosseneini, H.L., Souza, V., Gillis, S., Thomas, N., Qureshi, Q., Coyle, K.M., Weng, A.P., Laurie, L., Steidl, C., Scott, D.W., Morin, R.D., **2025**. Genomic Analysis of Mature B-Cell Lymphomas. International Conference on Malignant Lymphoma. Lugano, CH.
- Champagne, J.-N., Villa, D., Gerrie, A.S., Venner, C.P., Slack, G.W., Farinha, P., Craig, J.W., Hilton, L., Savage, K.J., Scott, D.W., Sehn, L.H., **2024**. Retreatment with R-CHOP-like Therapy in Patients with Late Relapse of Diffuse Large B-Cell Lymphoma (DLBCL). American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Feldman, A.L., Hu, G., Dasari, S., Rimsza, L.M., Scott, D.W., Gimenez, J.B., Salama, F.M., Shi, M., Campo, E., Chan, W.C., Cook, J.R., Inghirami, G., Jaffe, E.S., Morin, R., Raess, P.W.,

- Rosenwald, A., Savage, K.J., Staudt, L.M., Wright, G.W., Amador, C., Delabie, J., Greiner, T.C., Iqbal, J., Hilton, L.K., Ondrejka, S.L., Ott, G., Pittaluga, S., Slack, G.W., Slager, S.L., Song, J.Y., Wang, H.-W., Aljudi, A.A., Ansell, S.M., Barrionuevo, C., Cerhan, J.R., Chapman-Fredricks, J.R., Chen, W., de Leval, L., Gru, A.A., Jaye, D.L., Jiang, L., Kahl, B.S., Karube, K., Ko, Y.H., Mou, E., Maurer, M.J., Medeiros, L.J., Miranda, R.N., Oishi, N., Anamarija, P.M., Satou, A., Wang, X., Wilcox, R.A., Wu, X., Yoshino, T., Zeng, Y., **2024**. The Fusion Landscape of Anaplastic Large Cell Lymphoma: An L.L.M.P.P. Study. American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Rai, S., Duns, G., Frontzek, F., Wong, J., Yin, Y., Healy, S., Li, M.Y., Kishida, M., Viganò, E., Fujisawa, M., Woolcock, B., Telenius, A., Meissner, B., Boyle, M., Nakamura, H., O'Brien, L., Lytle, A., Farinha, P., Slack, G.W., Hilton, L.K., Morin, R., Venturutti, L., Aoki, T., Savage, K.J., Scott, D.W., Steidl, C., **2024**. Multiomic Profiling Reveals Pleiotropic Effects of Somatic IRF4-C99R Mutations in Primary Mediastinal Large B-Cell Lymphomas. American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Alduaij, W., Jiang, A., Collinge, B., Ben-Neriah, S., Hilton, L.K., Boyle, M., Meissner, B., Farinha, P., Slack, G., Villa, D., Gerrie, A.S., Mungall, A.J., Steidl, C., Sehn, L.H., Scott, D.W., Savage, K., **2023**. [Impact of the Dark Zone Signature on Central Nervous System Relapse in a Real-World Diffuse Large B-cell Lymphoma Population](#). International Conference on Malignant Lymphoma. Lugano, CH.
- Cruz, M., Dreval, K., Pararajalingam, P., Hilton, L., Wong, J., Rushton, C., Morin, R., **2023**. [Large-Scale Genomic Analysis of Mutational Hotspots in Burkitt Lymphoma and Diffuse Large B-Cell Lymphoma](#). American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Qureshi, Q.U.A., Coyle, K.M., Thomas, N., Collinge, B., Dreval, K., Hilton, L., Wong, J., Scott, D.W., Audas, T., Morin, R., **2023**. [Hnrnpu mutations Are Haploinsufficient and Alter the Transcriptome of MYC-Driven Lymphomas](#). American Society of Hematology Annual Meeting. San Diego, CA, USA.
- Alduaij, W., Jiang, A., Villa, D., Collinge, B., Ben-Neriah, S., Boyle, M., Meissner, B., Hilton, L.K., Farinha, P., Slack, G.W., Craig, J.W., Gerrie, A.S., Freeman, C.L., Mungall, A.J., Steidl, C., Sehn, L.H., Scott, D.W., Savage, K.J., **2022**. [Risk of Central Nervous System Involvement in High-Grade B-Cell Lymphoma with MYC and BCL2 Rearrangements: Analysis of a Population-Based Cohort with Routine Fluorescence in Situ Hybridization Testing in British Columbia](#). American Society of Hematology Annual Meeting. New Orleans, LA, USA.
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- Shalan, H., Thomas, N., Boyle, M., Meissner, B., Marra, M.A., Steidl, C., Scott, D.W., Hilton,

L.K., Morin, R.D., **2022**. Genome-wide methylation and haplotype-resolved aberrant somatic hypermutation patterns in B-cell lymphomas. American Society of Hematology Annual Meeting. American Society of Hematology, San Diego, CA, USA.

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Wong, J., Collinge, B., Hilton, L.K., Ben-Neriah, S., Slack, G.W., Farinha, P., Cook, J.R., Salaverria, I., Campo, E., Ott, G., Rosenwald, A., Amador, C., Jaffe, E.S., Greiner, T.C., Raess, P., Song, J.Y., Inghirami, G., Weisenburger, D.D., Chan, W.(John).C., Holte, H., Beiske, K., Fu, K., Delabie, J., Pittaluga, S., Feldman, A.L., Savage, K.J., Mungall, A.J., Steidl, C., Rimsza, L.M., Morin, R.D., Scott, D.W., **2021**. [The Genomic Landscape of Plasmablastic Lymphoma \(PBL\) - an L.L.M.P.P. Project](#). American Society of Hematology Annual Meeting. Atlanta, GA, USA.

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Hilton, L.K., Gunawardane, K., Kim, J.W., Schwarz, M.C., Quarmby, L.M., **2013**. Chlamydomonas Cnk2-1 mutant supports a feedback model for ciliary length control. FASEB Biology of Cilia and Flagella. Niagara Falls, NY, USA.

Hilton, L.K., Quarmby, L.M., **2012**. The ciliary kinase CNK2 triggers ciliary disassembly. American Association for the Advancement of Science Annual Meeting. Vancouver, BC, Canada.

Career Disruptions

Mar. 2014 – Sep. 2014	Parental Leave
Feb. 2017 – Feb. 2018	Parental Leave

Service

Anonymous Peer Review (2018-Present, Cumulative)

ASH Annual Meeting Abstracts (1), Blood (7), Haematologica (3), Journal of Clinical Oncology (3), Genome Medicine (1), Nature Communications (1), Blood Advances (8), Journal of Molecular Diagnostics (1), Cell Genomics (1).

Service to University and Community

2024-Present	Women in Lymphoma Steering Committee
2023-Present	Guider, Girl Guides of Canada
2019-2022	Secretary, Board of Directors, Lonsdale Creek Daycare Society
2012-2013	President, MBB Graduate Caucus
2012-2013	Student Representative, MBB Departmental Graduate Studies Committee
2011-2012	Secretary, MBB Graduate Caucus
