

# Dr. Landon J. Getz (PhD)

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## Postdoctoral Fellow

Department of Biochemistry | Temerty Faculty of Medicine | University of Toronto  
MaRS Centre, West Tower | 661 University Avenue, Suite 1600 | Toronto, Ontario, M5G 1M1

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Dr. Landon J. Getz (PhD) is a Postdoctoral Fellow in the Maxwell Lab at the University of Toronto's Department of Biochemistry. Dr. Getz obtained his Ph.D. in Microbiology and Immunology at Dalhousie University in the lab of Dr. Nikhil Thomas, studying *Vibrio* genetics and host-pathogen interactions. Dr. Getz is a CIHR Fellow (2023), Vanier Scholar (2019), Killam Laureate (2019), and an alumnus of the Chief Science Advisor's inaugural youth council (2020).

Dr. Getz has a keen interest in understanding the genetic mechanisms of bacterial-environmental survival and the genetic and molecular mechanisms of pathogenesis and phage-predation in *Vibrio* species. This work is supported by the Emerging & Pandemic Infections Consortium (EPIC) inaugural GlaxoSmithKline Convergence Postdoctoral Fellowship in Antimicrobial Resistance (2023) and a CIHR Fellowship (2023). Dr. Getz previously explored the pathogenicity and environmental survival of multiple pathogens, including *Vibrio parahaemolyticus* Enteropathogenic *E. coli*.

Dr. Getz is deeply interested in the intersections between science and society, and uses this interest to pursue the ethical and policy implications of new and emerging medical and genetic technologies, such as CRISPR/Cas. Consequently, Dr. Getz has published several peer-reviewed journal articles and commentaries on both microbial genetics and pathogenesis, as well as in bioethics and science policy.

## Education

Temerty Faculty of Medicine, University of Toronto, Postdoctoral Fellow	Present
Faculty of Medicine, Dalhousie University, Ph.D. (Microbiology & Immunology)	2022
Cold Spring Harbor Laboratory Course, on Advanced Bacterial Genetics	2019
Faculty of Science, Dalhousie University, B.Sc. Honours (Microbiology & Immunology) First Class Honours - cGPA > 3.7 Department of Microbiology and Immunology Honours Student Research Prize	2017
Faculty of Science, Dalhousie University, Certificate in Genetics	2017

## Publications

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Career Total (Published): 11  
139 Citations; h-index: 7 (as per Google Scholar)

### JOURNAL ARTICLES

Corresponding Author<sup>#</sup> | Equal Contribution\* (ordered alphabetically)

11. **Getz, L.J.**, Maxwell, K.L.<sup>#</sup> (2023). Diverse anti-phage defences are widespread among prophages and mobile genetic elements. **Accepted**, *Annual Reviews of Virology*.
10. Patel, P.H., Taylor, V.L., Zhang, C., **Getz, L.J.**, Fitzpatrick, A.D., Davidson, A.R., Maxwell, K.L. (2023). Anti-phage defence through inhibition of virion assembly. **Accepted**, *Nature Communications*.
9. **Getz, L.J.**, Brown, J.M., Sobot, L., Chow, A., Mahendrarajah, J., Thomas, N.A.<sup>#</sup> (2023). [Attenuation of a DNA Cruciform by a Conserved Regulator Directs T3SS-1 Mediated Virulence in \*Vibrio parahaemolyticus\*](#). *Nucleic Acids Research*. DOI: 10.1093/nar/gkad370
8. Kratzer, K., **Getz, L.J.**, Peterlini, T, Masson<sup>#</sup>, J-Y, Dellaire, G<sup>#</sup> (2021). [Addressing the dark matter of gene therapy: technical and ethical barriers to clinical application](#). *Human Genetics*. DOI: 0.1007/s00439-021-02272-5

7. **Getz, L.J.**, Dellaire, G.<sup>#</sup> (2020). [Back to Basics: Application of the 4-principle approach to bioethics to heritable genome editing](#). *Science and Engineering Ethics*. DOI: 10.1007/s11948-020-00226-0
6. **Getz, L.J.**, Runté, C., Rainey, J., Thomas, N.A.<sup>#</sup> (2019). [Tyrosine phosphorylation as a widespread regulatory mechanism in prokaryotes](#). *Journal of Bacteriology*. DOI: 10.1128/JB.00205-19
5. Thornbury, M., Sicheri, J., Slaine, P.D., **Getz, L.J.**, Finlayson-Trick, E.C.L., Cook, J., Guinard, C., Boudreau, N., Jakeman, D., Rohde, J.R., McCormick, C.<sup>#</sup> (2018). [Characterization of novel lignocellulose-degrading enzymes from the porcupine microbiome using synthetic metagenomics](#) *PLoS One*. DOI: 10.1371/journal.pone.0209221
4. **Getz, L.J.**<sup>#</sup>, Dellaire, G.<sup>#</sup> (2018). [Angels and Devils: Dual-Use in Biotechnology](#). *Trends in Biotechnology*. DOI: 10.1016/j.tibtech.2018.07.016
3. Runté, C., Jain, U., **Getz, L.J.**, Secord, S., Kuwae, A., Abe, A., Leblanc, J., Stadnyk, A.W., Kaper, J.B., Hansen, A.M., Thomas, N.A.<sup>#</sup> (2018). [Tandem tyrosine phosphosites in the enteropathogenic \*Escherichia coli\* chaperone CesT are required for differential type III effector translocation and virulence](#). *Molecular Microbiology*. DOI: 10.1111/mmi.13948
2. **Getz, L.J.** Thomas, N.A.<sup>#</sup> (2018). [The Transcriptional Regulator HlyU is a Positive Regulator for Expression of \*exsA\* Leading to Type III Secretion System-1 Activation in \*Vibrio parahaemolyticus\*](#) *Journal of Bacteriology*. DOI: 10.1128/JB.00653-17
1. **Getz, L.J.**, Finlayson-Trick, E.C.L., Slaine, P.D., Thornbury, M., Lamourerux, E., Cook, J., Langille, M.G.I., Murray, L.E., McCormick, C., Rohde, J.R., Cheng, Z.<sup>#</sup> (2017). [Taxonomic differences of gut microbiomes drive cellulolytic enzymatic potential within hind-gut fermenting mammals](#). *PLoS One*. DOI: 10.1371/journal.pone.0189404

#### THESES

2. **Getz, L.J.** (2022) [Genome-wide Investigation of \*Vibrio parahaemolyticus\* Type III Secretion System-1 Regulation and Chitin Metabolism](#) *Ph.D.* Dalhousie University, Halifax, NS, Canada.
1. **Getz, L.J.** (2017) A Genetic Switch Controls the Type III Secretion System Master Regulator, ExsA, in *Vibrio parahaemolyticus* RIMD2210633. *B.Sc. (Hons)* Dalhousie University, Halifax, NS, Canada.

#### COMMENTARY

19. de Oliveira, B.F.R., **Getz, L.J.**, Pérez-López, E. (2023). [The Pride in Microbiology Network: empowering 2SLGBTQIA+ microbiologists](#). *Applied Microbiology International's The Microbiologist*
18. **Getz, L.J.**, de Oliveira, B.F.R., Pérez-López, E. (2023). [We need a Pride in Microbiology Network](#). *Nature Microbiology*. DOI: 10.1038/s41564-023-01394-y
17. Qaiser, F., Laventure, A., Rilling, M., King, M., Johnson, C., Jakac-Sinclair, N., **Getz, L.J.**, Cartile, A., Boulanger, M.E., Ammendolia, J. (2023). [When youth voices are heard, science shines brighter](#). University Affairs. Reposted from [uOttawa Institute for Science, Society, and Policy Blog](#).
16. Baylis, F., **Getz, L.J.** (2021). [Challenge studies for COVID-19: Now is still not the time](#). JME Blog
15. **Getz, L.J.**, Baylis, F. (2021). [Challenge studies for COVID-19: Now is not the time](#). JME Blog
14. **Getz, L.J.**, Baylis, F. (2020). [Canada should reject the idea of deliberately infecting vaccine volunteers](#). PolicyOptions.ca.
13. Baylis, F., **Getz, L.J.** (2020). [Why federal government should reject human challenge trials for COVID-19 vaccine](#). CBC Opinion.
12. Qaiser, F., Morriveau, T., Rilling, M., Cartile, A., Sung, M., **Getz, L.J.**, Boulanger, M-E. (2020). [Envisioning A Post-Pandemic Future in the Canadian Science Community: A Youth Perspective](#). Canadian Science Policy Conference 2020.
11. Baylis, F., **Getz, L.J.** (2020). [Rush to risky challenge trials is unethical](#). HealthyDebate.ca.
10. **Getz, L.J.** (2020). [Rushing coronavirus vaccines and treatments could do more harm than good](#). TheConversation.ca, Republished in Everything Zoomer, and Dal News.

9. Kofler, N., **Getz, L.J.**, Baylis, F., Dellaire, G. (2019). [Genetically modifying mosquitoes to control the spread of disease carries unknown risks](#). TheConversation.ca, republished in Salon, HalifaxToday.ca, SaltWire Newspapers, and Gannett Newspapers.
8. **Getz, L.J.**, Dellaire, G. (2019). [Moratorium on Human Genome Editing: Time to Get It Right](#). The Hastings Center Forum Blog.
7. **Getz, L.J.**, Dellaire, G. (2019). [CRISPR gene editing: Why we need Slow Science](#). TheConversation.ca.
6. **Getz, L.J.** (2019). [The "Value" of Consumer DNA Sequencing](#). Impact Ethics at Novel Tech Ethics.
5. **Getz, L.J.**, Dellaire, G., Baylis, F. (2018). [Jiankui He: A Sorry Tale of High-Stakes Science](#). The Hastings Center Forum Blog.
4. Baylis, F., Dellaire, G., **Getz, L.J.** (2018). [Why we are not ready for genetically designed babies](#). TheConversation.ca. Reprinted in: The National Post and the Halifax Chronicle Herald.
3. **Getz, L.J.** (2018). [Thicker Than Water: Slow Movement on Blood Policy](#). Impact Ethics at Novel Tech Ethics.
2. **Getz, L.J.** (2018). [The Privacy Implications of Human DNA Sequencing](#). Impact Ethics at Novel Tech Ethics.
1. **Getz, L.J.** (2017). [A Reflection on Blood Donation Policy in Canada](#). Impact Ethics at Novel Tech Ethics. Reprinted at the Kennedy Institute of Ethics Bioethics Blog.

#### ABSTRACTS

13. Robinson, O., **Getz, L.J.**, Thomas, N.A. (2023). Transposon Sequencing Identifies a Genetic Paradigm for Chitin Utilization in *Vibrio parahaemolyticus*. 72nd Annual Conference of the Canadian Society of Microbiologists, Halifax, NS. - June 2023
12. **Getz, L.J.**, Maxwell, K.L. (2023). Understanding the Global Antiphage Defence Arsenal of a Pandemic Foodborne Pathogen. 72nd Annual Conference of the Canadian Society of Microbiologists, Halifax NS. - June 2023
11. **Getz, L.J.**, Maxwell, K.L. (2022). The Best Defence is a Good Offence: Understanding Antiphage Defence in *V. parahaemolyticus* for more Effective Phage Therapy. 2022 QAtCanSTEM Colloquium, Halifax, NS. - October 2022
10. **Getz, L.J.**, Brown, J.M., Sobot, L., Chow, A., Mahendrarajah, J., Thomas, N.A. (2021). DNA Cruciforms Regulate Virulence in Pathogenic *Vibrio* Species. 70th Annual Conference of the Canadian Society of Microbiologists, Remote - June 2021.
9. **Getz, L.J.**, Brown, J., Thomas, N.A. (2019). Type III Secretion System Gene Expression and Virulence is Regulated by a DNA Cruciform Structure at the *exsA* promoter in *Vibrio parahaemolyticus*, Genomes to Biology: the 8th International Conference on the Biology of Vibrios, McGill University, Montreal, QC. - November 2019
8. **Getz, L.J.**, Thomas, N.A. (2020). Functional genomics of *Vibrio* pathogenesis and environmental persistence. 2020 Canadian Student Health Research Forum, Winnipeg, MB. - August 2019
7. **Getz, L.J.**, Brown, J., Thomas, N.A. (2019). A DNA junction superstructure regulates Type III Secretion System gene expression and virulence in *Vibrio parahaemolyticus*, The 69th Annual Conference of the Canadian Society of Microbiologists, Université de Sherbrooke, Sherbrooke, QC. - June 2019
6. **Getz, L.J.**, Thomas, N.A. (2018). Flipping the Switch on Bacterial Pathogenesis: How the Leading Cause of Seafood-borne Gastroenteritis - *Vibrio parahaemolyticus* - Regulates Virulence, LGBTSTEMinar 2019, Institute of Physics, London, UK. - January 2019
5. **Getz, L.J.**, Comeau, A., Langille, M.G.I., Thomas, N.A. (2018). Linking Phenotype and Pathogen Genomics: Tn-Seq and Next Generation DNA Sequencing, PREP Graduate Student Research Day, Dalhousie University, Halifax, NS. - May 2018
4. **Getz, L.J.**, Comeau, A., Langille, M.G.I., Thomas, N.A. (2018). Linking Phenotype and Pathogen Genomics: Tn-Seq and Next Generation DNA Sequencing, 23rd Annual Infectious Disease Research Day, Dalhousie University, Halifax, NS. - Apr 2018

3. **Getz, L.J.**, Thomas, N.A. (2017). HlyU and H-NS Act as a Genetic Switch for Transcriptional Control of the Type III Secretion System-I Master Regulator *exsA*, ASM Vibrio2017: The Biology of *Vibrios*, Chicago, IL. - November 2017
2. **Getz, L.J.**, Thomas, N.A. (2017). Discovery of a Genetic Switch in *Vibrio parahaemolyticus* that Contributes to Host Cell Death During Infection, 22nd Annual Infectious Disease Research Day, Dalhousie University, Halifax, NS. - March 2017
1. **Getz, L.J.**, Finlayson-Trick, E.C.L., Hagar, M. Slaine, P.D., Thornbury, M., Lamourerux, E., Cook, J., Langille, M.G.I., Murray, L.E., McCormick, C., Rohde, J.R., Cheng, Z.A. (2016) ‘Spike’ in biofuel production: mining the porcupine microbiome to engineer a softwood feedstock platform, Giant Jamboree Abstract Guide, iGEM Giant Jamboree, Boston, MA. - October 2016

## Conference Presentations

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### INVITED TALKS

8. Phage Therapy: Solutions in a Post-antibiotic Era. 2nd Annual Antimicrobial Resistance Symposium, Emerging Pandemic Infections Consortium, University of Toronto, Toronto, ON. November 2023.
7. 2023 Connell Award for Best All Round Post Doctoral Fellow Award Talk. Annual Biochemistry Retreat 2023, University of Toronto, Toronto, ON. October 2023.
6. Pride in Microbiology, A Community Resource Also for Plant Biologists. Canadian Society of Plant Biology Annual Meeting, Université Laval, Quebec City, QC. June 2023.
5. **2022 Armand Frappier Outstanding Graduate Student Award** - Attenuation of DNA Cruciform Structures by a Conserved Regulator Directs Virulence Gene Expression in Pandemic *Vibrio*. University of Guelph, Guelph, ON. June 2022.
4. **2022 Al Downe Memorial Lecture** - Editing Nature: Genetically Modified Mosquitoes and a Case for Slow Science. Queen’s University, Kingston, ON. March 2022.
3. Transposon Sequencing: Functional Genomics for Probing Bacterial Pathogenesis. Genomics in Medicine - Emerging Technologies and Bioinformatic Challenges, Dalhousie University, Halifax, NS. Invited Talk. December 2019.
2. *Vibrio parahaemolyticus* and infection: A complex relationship between environment and host. Graduate Student Research Day Excellence in Research Award, Dalhousie University, Halifax, NS. Keynote. May 2019
1. The Multimodel Lifestyle of Marine *Vibrio*. Natural History Museum Life Science Seminar Series, Natural History Museum, London, UK. January 2019

### CONFERENCE TALKS

12. DNA Cruciforms Regulate Virulence Gene Expression in Pathogenic *Vibrio* Species. 70th Annual Conference of the Canadian Society of Microbiologists - Remote. June 2021.
11. Build Back Better: The Chief Science Advisor’s Youth Council’s Roundtables to Envision A Post-Pandemic Future in the Canadian Science Community. Canadian Science Policy Conference, University of Ottawa, Ottawa, QC. October 2020.
10. Functional genomics of *Vibrio* pathogenesis and environmental persistence. Canadian Student Health Research Forum, University of Manitoba, Regina, MB. August 2020.
9. A DNA Cruciform Structure Regulates Virulence Gene Expression in Human Pathogenic *Vibrio* species. Professional Research and Education Program Graduate Student Research Day, Dalhousie University, Halifax, NS. June 2020.
8. A Regulator of Sugar Metabolism Implicated in the Secretion and Virulence of *Vibrio parahaemolyticus*. Professional Research and Education Program Graduate Student Research Day, Dalhousie University, Halifax, NS. May 2019
7. Type III Secretion System Gene Expression and Virulence is Regulated by a DNA Cruciform Structure at the *exsA* promoter in *Vibrio parahaemolyticus*. Genomes to Biology: The 8th International Conference on the Biology of *Vibrios*, McGill University, Montreal, QC. November 2019.

6. Creating LGBTQ+ Inclusive Spaces for Equitable Active Learning. Dalhousie Conference on University Teaching and Learning, Dalhousie University, Halifax, NS. May 2019
5. The Multimodal Lifestyle of Marine *Vibrios*. Microbiology and Immunology Seminar Series, Dalhousie University, Halifax, NS. January 2019
4. Flipping the Switch on Bacterial Pathogenesis: How the Leading Cause of Seafood-borne Gastroenteritis - *Vibrio parahaemolyticus* - Regulates Virulence. LGBTSTEMinar 2019, Institute of Physics, London, UK January 2019
3. Linking Phenotype and Pathogen Genomics: TnSeq and Next Generation DNA Sequencing. Professional Research and Education Program Graduate Student Research Day, Dalhousie University, Halifax, NS. May 2018
2. *Vibrio parahaemolyticus*: A Versatile Pathogen Living a Dual-Lifestyle. Microbiology and Immunology Graduate Student Seminar, Dalhousie University, Halifax, NS. February 2018
1. Biofuel Production set to Spike: Identification of Biofuel Producing Enzymes in the Porcupine Microbiome. 2016 iGEM Giant Jamboree, iGEM, Boston, MA. October 2016

#### CONFERENCE POSTER PRESENTATIONS

Poster Presenter\*

9. Robinson, O. \*, **Getz, L.J.**, Thomas, N.A. Transposon Sequencing Identifies a Genetic Paradigm for Chitin Utilization in *Vibrio parahaemolyticus*. 72nd Annual Conference of the Canadian Society of Microbiologists, Halifax, NS. June 2023
8. **Getz, L.J.** \*, Maxwell, K.L. Understanding the Global Antiphage Defence Arsenal of a Pandemic Foodborne Pathogen. 72nd Annual Conference of the Canadian Society of Microbiologists, Halifax, NS. June 2023
7. **Getz, L.J.** \*, Maxwell, K.L. The Best Defence is a Good Offence: Understanding Antiphage Defence in *V. parahaemolyticus* for more Effective Phage Therapy. 2022 QAtCanSTEM Colloquium, Halifax, NS. October 2022
6. **Getz, L.J.**, Brown, J.M., Thomas, N.A. \*. A DNA junction superstructure regulates Type III Secretion System gene expression and virulence in *Vibrio parahaemolyticus*. 69th Annual Conference of the Canadian Society of Microbiologists, Université de Sherbrooke, Montreal, QC. June 2019
5. **Getz, L.J.** \*, Brown, J.M., Thomas, N.A. Type III Secretion System Gene Expression and Virulence is Regulated by a DNA Cruciform Structure at the *exsA* promoter in *Vibrio parahaemolyticus*. Centre for Comparative Genomics and Evolutionary Bioinformatics Research Retreat, Dalhousie University, Halifax, NS. November 2019
4. **Getz, L.J.** \*, Comeau, A., Langille, M.G.I., Thomas, N.A. Linking Phenotype and Pathogen Genomics: TnSeq and Next Generation DNA Sequencing. 23rd Annual Infectious Disease Research Day, Centre for Vaccinology, Halifax, NS. April 2018
3. **Getz, L.J.** \*, Thomas, N.A. HlyU and H-NS act as a Genetic Switch for Transcriptional Control of the Type-III Secretion System I Master Regulator *exsA*. ASM Vibrio2017, American Society of Microbiology, Chicago, IL. November 2017.
2. **Getz, L.J.** \*, Thomas, N.A. Discovery of a Genetic Switch in *Vibrio parahaemolyticus* that Contributes to Host Cell Death during Infection. 22nd Annual Infectious Disease Research Day, Dalhousie University, Halifax, NS. April, 2017
1. **Getz, L.J.** \*, Finlayson-Trick, E.C.L. \*, Hagar, M. \*, Slaine, P.D., Thornbury, M., Lamourerux, E., Cook, J., Langille, M.G.I., Murray, L.E., McCormick, C., Rohde, J.R., Cheng, Z. Biofuel Production set to Spike: Identification of Biofuel Producing Enzymes in the Porcupine Microbiome 2016 iGEM Giant Jamboree, iGEM, Boston, MA. October 2016

## Grants

2. Awareness and understanding of apheresis plasma donation and effectiveness of alternative donor screening questions for diverse gbMSM and trans populations, Canadian Blood Services.

\* Role: Collaborator under Principle Investigator Dr. Jacqueline Gahagan

\* Total award: \$200,500 CAD

\* Focus on plasma donation and policies surrounding LGBTQ+ donors.

1. Genomics Opportunity Review Program: Legacy Gold Mine Genomics, Genome Atlantic

\* Role: Collaborator under Principle Applicants Dr. Linda Campbell and Dr. Josh Kurek

\* Total award: \$15,000 CAD

\* Perform 16S rRNA and Metagenomic sequence on arsenic and mercury contaminated legacy gold mine sites.

## Teaching and Course-Design Experience

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### TEACHING PHILOSOPHY

*“The ultimate goal of farming is not the growing of crops, but the cultivation and perfection of human beings.”*

**- Masanobu Fukuoka, Farmer and Philosopher**

As an educator, I consider teaching to be like farming. As settlers, both sides of my family have farmed land in Canada they moved onto as part of the colonization of The West. Reflecting on this profession and on my family's experiences has given me significant guidance in my teaching career thus far. In line with how Mr. Fukuoka understands the goals of farming, I believe that education's ultimate goal is the cultivation and advancement of human beings. With that in mind, my teaching philosophy broadly covers three areas:

**Nuturing Students to grow,  
Fostering Diversity and Inclusivity, and  
Building Social Good through Education**

### COURSES TAUGHT AND COURSE DESIGN

Part Time Academic, BIOL 3037: Life Rewritten  
*Dalhousie University*

Winter 2022

Shared instruction duties for the course with Dr. Patrice Cote, including preparing materials, lecturing, and marking examinable materials. **50-100 Students**

Course Developer, MICI2100DE  
*Dalhousie University*

Winter 2021

Redesigned online introductory microbiology course to include new material (CRISPR-Cas) and active learning activities (at-home fermentation lab), with less reliance on traditional examinations. **150-200 Students.**

Online Module Developer, CHEM 1011/1021 and CHEM 1012/1022  
*Dalhousie University*

June 2020

Redesigned the orbital hybridization online module to comply with Universal Design for Learning principles, wrote scripts for video recordings, and built powerpoint lecture slides. **1000-1300 Students.**

Course-Designer & Teaching Assistant, BIOL3037: Life Rewritten  
*Dalhousie University*

Winter 2020/Winter 2021

Developed ethics portion of this new course, and lectured these portions to students. Built exam and assignment material. **50 Students.**

Part Time Academic, CHEM 1011/1021 and CHEM 1012/1022  
*Dalhousie University*

Fall/Winter 2018/2019

Lecture support for CHEM 1011/1021 and CHEM 1012/1022. Lectured periodically, and organized the structure, schedule, and TAs for the student-taught Chemistry Resource Centre. **1000-1300 Students.**

Graduate Student Mentor, Dalhousie international Genetically Engineered Machine (iGEM)  
*Dalhousie University*

Summer/Fall 2018

Mentored incoming iGEM student, and helped undergraduate students perform experiments and analysis in a research environment. **10 Students.**

Senior Chemistry Resource Centre Assistant, CHEM 1011/1021 and CHEM 1012/1022 Winter 2017 - Fall 2018  
*Dalhousie University*

Organized the TAs and their schedule for the Chemistry Resource Centre. Provided additional lecture support for students through the resource centre. **1000-1500 Students.**

Teaching Assistant, MICI 2100 Fall 2017  
*Dalhousie University*

Provided additional resources for students, was an initial first contact for questions, and marked exams. **100-200 Students.**

Bioinformatics and Web Design Mentor, Dalhousie iGEM Summer 2017  
*Dalhousie University*

Utilized bioinformatics and web design expertise to instruct the undergraduate iGEM students in performing experiments and analysis, and documenting it online. **10 Students.**

Chemistry Resource Centre Assistant, CHEM 1011/1021 and CHEM 1012/1022 Fall 2015 - Fall 2016  
*Dalhousie University*

Provided additional lecture support for CHEM 1011/1021 and CHEM 1012/1022 students in the Chemistry Resource Centre. **1000-1500 Students.**

#### LABORATORY SUPERVISION SUMMARY:

University of Toronto Rotation Students: 2  
 Honours Students Supervised: 3  
 Summer Students Supervised: 10  
 Experiential Learning Students Supervised: 4

## Awards

2023 Connell Award for Best All Round Post Doctoral Fellow - Biochemistry, U of T	\$500 CAD Award
2023 GSK EPIC Convergence Postdoctoral Fellowship in Antimicrobial Resistance - <a href="#">EPIC</a>	\$120,000 CAD Award
2023 CIHR Postdoctoral Fellowship - Canadian Institutes of Health Research	\$120,000 CAD Award
2022 Design2Learn (D2L) Innovation Award in Teaching and Learning - STLHE	\$3000 CAD Award to Team
2022 Armand-Frappier Outstanding Graduate Student Award - CSM	\$500 CAD Award
2021 Canadian College of Microbiologists Symposium Award - CSM	\$500 CAD Award
2021 Educational Leadership Award for Collaborative Teaching - Dalhousie CLT	
2020 CIHR Silver Award - Canadian Student Health Research Forum	\$250 CAD Award
Nominated for: Dalhousie Impact Awards 2020: Outstanding Student of Distinction	Not Awarded
Nominated for: 2020 Dalhousie's Board of Governors Award	Not Awarded
2019 People's Choice Award - 8th International Conference on the Biology of Vibrios	\$200 CAD Award
<b>2019 President's Graduate Student Teaching Assistant Award</b>	\$500 CAD Award
2019 PREP Graduate Student Research Day Platform Presentation Award	\$200 CAD Award
2019 Faculty of Medicine Excellence in Research Award	\$1000 CAD Award
<b>2018/2019 Vanier Canadian Graduate Scholarship</b>	\$150,000 CAD Award
<b>2019 Killam Graduate Scholarship</b>	\$90,000 CAD Award
<b>2019 Dalhousie University Faculty of Medicine Excellence in Research Award</b>	\$1,000 CAD Prize



2019 Alexander Graham Bell Canadian Graduate Scholarship Doctoral - Honourary	\$35,000 CAD Award
2019 HHMI Tuition Scholarship - Cold Spring Harbor Laboratories	\$1500 USD Award
2018 Nova Scotia Health Research Foundation Scotia Scholars Award	\$10,000 CAD Award
2018 Alexander Graham Bell Canadian Graduate Scholarship - Masters	\$17,500 CAD Award
2018 Nova Scotia Graduate Scholarship	\$10,000 CAD Award
2017 Award for Excellence in Undergraduate Honours Research	\$100 CAD Award
2017 Nova Scotia Graduate Scholarship	\$10,000 CAD Award
2017 Faculty of Science Undergraduate Research Prize	
2017 Honours Student Prize	\$100 CAD Award
2016/2017 Academic Year – Faculty of Science Dean’s List	
2016 NSERC University Summer Research Award	\$6,000 CAD Award
2015/2016 Academic Year – Faculty of Science Dean’s List	
2015 Dalhousie University In-Course Scholarship	\$250 CAD Award
2014/2015 Academic Year – Faculty of Science Dean’s List	
2013 Fall – Faculty of Science Dean’s List	
2013 Dalhousie University Entrance Scholarship	\$750 CAD Award
2013 Alexander Rutherford Scholarship	\$2,500 CAD Award

## Professional Activities

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### GOVERNMENT

Mentor, Chief Science Advisor of Canada’s Youth Council <i>Office of the Chief Science Advisor, Government of Canada</i>	2023 - <i>Present</i>
Participant, Chief Science Advisor of Canada’s Open Science Dialogues <i>Office of the Chief Science Advisor, Government of Canada</i>	2021
Observer, Expert Advisory Committee on COVID-19: Zoonosis <i>Office of the Chief Science Advisor, Government of Canada</i>	2020
Member, Chief Science Advisor’s Youth Council <i>Office of the Chief Science Advisor, Government of Canada</i>	2019 - 2022
Consultant, CIHR Self-Identification Questionnaire Review <i>Canadian Institutes of Health Research</i>	2019 - 2020

### INSTITUTIONAL

Consultant, Tri-Agency Training Strategy External Advisory Committee <i>NSERC, on behalf of the Tri-Agencies</i>	2023
Participant, NSERC 2030: A Strategic Plan <i>National Science and Engineering Research Council of Canada</i>	2021
Graduate Student Representative, <a href="#">Institute for Comparative Genomics</a> <i>Dalhousie University</i>	2021 - 2022
Organizing Committee Member, CCfV/ID Research Day <i>Dalhousie University</i>	2021 - 2022
Network Member, <a href="#">Editing Nature</a> <i>Yale University, New Haven, Connecticut</i>	2019 - 2022



Graduate Student Representative, Undergraduate Studies Committee, <i>Department of Microbiology and Immunology, Dalhousie University</i>	2017 - 2019
Observer, NSHRF Peer-Review Panel <i>Dalhousie University</i>	2018

#### SCIENTIFIC SOCIETY MEMBERSHIP AND SERVICE

ASM Young Ambassador to Canada, American Society of Microbiology	2022 - <i>Present</i>
Member, Canadian Society of Microbiologists	2021 - <i>Present</i>
Member, American Society for Microbiology	2017 - <i>Present</i>
Student Member, Nova Scotia Institute of Science	2017 - 2022

#### GRANT PANEL PEER REVIEW

Youth Reviewer, Healthy Youth Catalyst Grant <i>Canadian Institutes of Health Research</i>	2023
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#### SCIENTIFIC PEER REVIEW

- Nature Reviews Genetics (x1)
- Biochemistry and Cell Biology (x1)
- Microbiology Spectrum (x1)
- mSystems (x3)
- Microbiome (x2)

## Community Outreach, and Justice and Belonging Efforts

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Co-Founder, Pride in Microbiology <i>Pride in Microbiology</i>	2023 - <i>Present</i>
Board Member, Board of Directors <i>Scientists of the Maritimes</i>	2019 - 2021
Founder <i>Queer Atlantic Canadian Science, Technology, Engineering, and Mathematics (QAtCanSTEM)</i>	2019 - <i>Present</i>
Primary Organizer, QAtCanSTEM Colloquium <i>Dalhousie University</i>	2020 - 2022

## Knowledge Translation, Media, and News

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**Microbiology Society.** [Introducing the Pride in Microbiology Network](#). August 24th, 2023

**Emerging Pandemic Infections Consortium.** [Landon J. Getz receives inaugural GSK EPIC Convergence Postdoctoral Fellowship in Antimicrobial Resistance](#). June 15th, 2023.

**Canadian Society of Microbiologists.** [Meet the Microbiologist: Landon Getz](#). March 16th, 2022

**Dal News.** Making science a better place: Student-led group expands efforts to create community for LGBTQ+ in STEM. August 18, 2021.

**Dal News.** EXCELLENCE IN EDUCATION: MEET THIS YEAR'S DALHOUSIE TEACHING AWARD WINNERS. June 23, 2021.

**Scientists in School.** Spotlight with Scientists in School: Landon Getz, Award Winning Post-Secondary Educator. March 1, 2021.

**Simcoe Reformer.** Why deliberately infecting healthy young volunteers with COVID-19 virus can be done ethically. October 22, 2020.

**CBC News.** How microbes could help clean up Nova Scotia's abandoned mines. August 6th, 2020.

**980 CKNW - The Jill Bennet Show.** Conversation on coronavirus vaccines and treatments. April 23rd, 2020

**570 NEWS: Kitchener Today with Brian Bourke.** Conversation on coronavirus vaccines and treatments. April 16th, 2020.

**Dal News.** CREATING A DEEPER SENSE OF COMMUNITY FOR LGBTQ+ SCIENTISTS. January 30th, 2020.

**The Signal.** Halifax event connects queer voices in STEM. January 20th, 2020.

**CBC Nova Scotia's Information Morning Radio Show.** QAtCanSTEM Colloquium: Being Queer in STEM. January 17th, 2020.

**Halifax's The Coast.** A first-of-its-kind queer STEM conference is in Halifax this weekend. January 16th, 2020.

**The National Post.** Breakthrough or a threat? Research on genetics of same-sex behaviour ignites ethical debate. December 6th, 2019.

**HalifaxToday.ca.** Halifax-based group building queer community in STEM fields. November 24th, 2019.

**The Sheldon McLeod Show.** QAtCanSTEM and Being a Queer Scientist. November 22nd, 2019.

**Dal News.** PRIDE IN STEM. July 25th, 2019.

**Dal News.** TEACHERS WHO INSPIRE: MEET THIS YEAR'S RECIPIENTS OF DAL'S UNIVERSITY-WIDE TEACHING AWARDS. June 20th, 2019.

**Current Exchange: A blog by CSHL Meetings and Courses.** Visitor of the Week: Landon Getz. June 14th, 2019.

**Dal News.** GOVERNMENT OF CANADA SELECTS DAL PHDS AND POSTDOCS FOR ITS MOST ESTEEMED AWARDS. May 16th, 2019.

**CBC Nova Scotia's Information Morning Radio Show.** On the Call for a Moratorium on Germline Genome Editing. February 2019.

**The Dalhousie Gazette.** Urban Garden is one of Dalhousie's hidden gems by Lauren Hazlewood. September 27th, 2019.

**CBC Nova Scotia's Information Morning Radio Show.** LGBTSTEMDAY: Inclusion and Diversity in STEM with Portia Clarke, live in studio. July 2018.

**Halifax's The Coast.** 10 urban gardens you need to know by Victoria Walton. August 3rd, 2017