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Dr. ALISON WALLACE

Correspondence language: English

Date of Birth: 11/10

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

Home (*)

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Dr. ALISON WALLACE**Language Skills**

| Language | Read | Write | Speak | Understand | Peer Review |
|----------|------|-------|-------|------------|-------------|
| English | Yes | Yes | Yes | Yes | Yes |

Degrees

| | |
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| 2007/8 - 2011/5 | Doctorate, Doctor of Medicine, University of British Columbia Degree Status: Completed |
| 2000/9 - 2005/5 | Doctorate, Doctor of Philosophy, Experimental Medicine, University of British Columbia Degree Status: Completed Thesis Title: Genetic risk factors for COPD Transferred to PhD without completing Masters?: Yes |
| 1996/9 - 2000/5 | Bachelor's, Bachelor of Science, Biology, University of British Columbia Degree Status: Completed Thesis Title: Investigating the apneic component of the mammalian dive reflex. |

Credentials

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| 2019/7 | Thoracic Surgery Certification, Royal College of Physicians and Surgeons of Canada |
| 2017/7 | General Surgery Certification, Royal College of Physicians and Surgeons of Canada |
| 2007/8 | Post-doctoral Fellowship, Columbia University |

Recognitions

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| 2002/12 | William and Kathleen Ure, Memorial Scholarship (Canadian dollar) University of British Columbia Prize / Award |
| 2000/9 | British Columbia Lung Association, Respiratory Fellowship (Canadian dollar) British Columbia Lung Association Prize / Award |

User Profile

Research Specialization Keywords: Lung cancer, molecular biology

Disciplines Trained In: Molecular Biology, Surgery

Research Disciplines: Molecular Biology

Areas of Research: Lung Cancer

Fields of Application: Pathogenesis and Treatment of Diseases

Employment

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| 2025/7 | Associate Professor Department of Surgery, Division of Thoracic Surgery Dalhousie University Full-time, Associate Professor |
| 2019/7 - 2025/6 | Assistant Professor of Surgery and Pathology Surgery, Medicine, Dalhousie University Full-time, Assistant Professor Research Disciplines: Molecular Biology |

Affiliations

The primary affiliation is denoted by (*)

(*) 2019/7 Assistant Professor of Surgery and Pathology, Dalhousie University

Research Funding History

Awarded [n=9]

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| 2023/3 - 2028/3 Co-applicant | Canadian Cancer Society Breakthrough Team Grants, Grant Project Description: Exposome profiling as an emerging tool for lung cancer early detection and prevention Funding Sources: 2023/3 - 2028/3 Canadian Cancer Society Breakthrough Team Grants Total Funding - 5,197,880 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes |
| 2025/7 - 2027/6 Co-investigator | Lung Cancer in Nova Scotia: Examining Equitable Access to Care During the Peri-Diagnostic Timeframe, Grant, Operating Clinical Research Project?: Yes Funding Sources: Canadian Institutes of Health Research (CIHR) (Canadian dollar) |
| 2022/5 - 2027/5 Principal Investigator | Dalhousie University Department of Surgery Basic Science Research Funding, Grant Project Description: Examining the links between arsenic exposure and LINE-1 hypomethylation in non-small cell lung cancer Funding Sources: 2022/5 - 2027/5 Dalhousie University Department of Surgery Basic Science Research Funding Total Funding - 10,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes |
| 2022/4 - 2027/4 Co-applicant | Dalhousie Medical Research Foundation Molly Appeal for Cancer Research, Grant Project Description: Tissue imager for precision oncology and next-generation cancer diagnostics Funding Sources: 2022/4 - 2027/4 Dalhousie Medical Research Foundation (The) Molly Appeal for Cancer Research Total Funding - 250,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes |

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| - 2025/12 Principal Investigator | Xenium in situ transcriptomics to determine site-specific cell expression or differentiation changes linked to emphysema related lung cancer, Grant, Operating Clinical Research Project?: Yes Funding Sources: Department of Surgery, Dalhousie University Basic Science Research Grant (Canadian dollar) |
| 2020/5 - 2025/5 Principal Investigator | Dalhousie University Department of Surgery Basic Science Research Funding, Grant Project Description: Establishment of a lung organoid model for the advancement of our understanding of the treatment of lung cancer |
| 2023/1 - 2025/1 Co-applicant | Terry Fox Research Institute and multiple matching sources, Grant Project Description: Atlantic Cancer Consortium application for Designation under the Marathon of Hope Cancer Centres Network (TFRI) Funding Sources: 2023/1 - 2025/1 Terry Fox Research Institute (TFRI) TFRI MOH Total Funding - 26,000,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes |
| 2023/4 - 2024/4 Principal Investigator | Lung Cancer Canada Lung Ambition Award, Grant Project Description: Perioperative outcomes of lung cancer surgery in women: a Canadian nationwide retrospective cohort study (POWR Study) Funding Sources: 2023/9 - 2024/9 Lung Cancer Canada Lung Ambition Award Total Funding - 50,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes |
| 2022/7 - 2023/7 Principal Investigator | Clinical Research Mentorship Colloquium Program Research Award, Grant Project Description: Examining the links between arsenic exposure, LINE-1 hypomethylation and non-small cell lung cancer in patient-derived organoids Funding Sources: 2022/7 - 2027/7 Dalhousie University Clinical Research Mentorship Colloquium Program Total Funding - 30,000 (Canadian dollar) (Canadian dollar) Funding Competitive?: Yes |

Student/Postdoctoral Supervision

Bachelor's [n=2]

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| 2006/5 - 2006/9 Co-Supervisor | Leslie Aguirre (Completed) , Columbia University Student Degree Start Date: 2005/9 Thesis/Project Title: BSc (Biomedical Research) Project Description: Columbia University Summer Research Fellowship Program for Minorities Present Position: NA |
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2006/5 - 2006/9
Co-Supervisor Nkechia Ng-a-qui (Completed) , Columbia University
Student Degree Start Date: 2005/9
Thesis/Project Title: BSc (Biomedical Research)
Project Description: Columbia University Summer Research Fellowship Program for Minorities
Present Position: Chemistry Teacher at NYC Department of Education

Bachelor's Honours [n=1]

2003/5 - 2004/8
Co-Supervisor Gareth Mercer (Completed) , University of British Columbia
Student Degree Start Date: 2002/9
Thesis/Project Title: BSc (Biotechnology)
Project Description: UBC Summer Student Research Program
Present Position: Ophthalmology Resident, McGill University

Master's Thesis [n=1]

2021/8
Principal Supervisor Megan McNeil (In Progress) , Dalhousie University
Degree Name: MD
Specialization: General Surgery Resident
Student Degree Start Date: 2021/8
Thesis/Project Title: Characterizing the Molecular Profile of Occult N2 Disease in Lung Cancer
Present Position: General Surgery Resident

Doctorate [n=7]

Academic Advisor Jordan Lukacs (Completed) , Dalhousie University
Student Degree Start Date: 2018/9
Project Description: Immunotherapy approaches in an inducible genetic model of lung cancer in mice, examining combined therapies with oncolytic viruses, NKT cell activation, and PD-1 checkpoint blockade.

2023/4
Principal Supervisor Jaishiree Kannathasan (In Progress) , Dalhousie University
Degree Name: MD
Student Degree Start Date: 2023/7
Thesis/Project Title: Outcomes in the surgical management of esophageal cancer
Present Position: Medical Student

2007/5 - 2007/7
Principal Supervisor Polina Golovatch (Completed) , Columbia University
Student Degree Start Date: 2006/9
Thesis/Project Title: PhD (Nutritional and Metabolic Biology)
Project Description: Laboratory Rotation Supervisor for the Coordinated Doctoral Program, Columbia University
Present Position: Professor, City College of New York

2007/3 - 2007/5
Principal Supervisor Colleen See (Completed) , Columbia University
Student Degree Start Date: 2006/9
Thesis/Project Title: PhD (Nutritional and Metabolic Biology)
Project Description: Laboratory Rotation Supervisor for the Coordinated Doctoral Program, Columbia University
Present Position: NA

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| 2006/9 - 2006/11 Principal Supervisor | Stephanie Padilla (Completed) , Columbia University Student Degree Start Date: 2006/9 Thesis/Project Title: PhD (Nutritional and Metabolic Biology) Project Description: Laboratory Rotation Supervisor for the Coordinated Doctoral Program, Columbia University Present Position: Assistant Professor, Department of Biology, University of Massachusetts Amherst |
| 2006/3 - 2006/4 Principal Supervisor | Russell Ericksen (Completed) , Columbia University Student Degree Start Date: 2025/9 Thesis/Project Title: PhD (Nutritional and Metabolic Biology) Project Description: Laboratory Rotation Supervisor for the Coordinated Doctoral Program, Columbia University Present Position: N/A |
| 2005/8 - 2007/7 Co-Supervisor | Divya Mehra (Completed) , Columbia University Student Degree Start Date: 2005/9 Thesis/Project Title: PhD (Nutritional and Metabolic Biology) Present Position: United Nations - Strategic Partnerships Officer at World Food Programme |

Doctorate Equivalent [n=21]

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| 2023/9 - 2027/5 Principal Supervisor | Kelly Sit (In Progress) , Dalhousie University Student Degree Start Date: 2023/8 Student Degree Expected Date: 2027/5 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Characterization of Radon-Induced LungCancer in Nova Scotia and Alpha Particle-Induced DNA Damage |
| 2023/9 - 2027/5 Principal Supervisor | Sherry Eskander (In Progress) , Dalhousie University Student Degree Start Date: 2023/8 Student Degree Expected Date: 2027/5 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Psychiatric Conditions and Surgical Recovery: Exploring Clinical Implications Project Description: This study aims to delve into the impact of pre-existing psychiatric conditions on the postoperative recovery of patients undergoing surgical procedures. Recognizing the intricate interplay between mental health and physical well-being, this research endeavors to shed light on the clinical implications arising from this relationship. Present Position: Medical student |
| 2023/9 - 2027/5 Principal Supervisor | Jakalee Myette (In Progress) , Dalhousie University Student Degree Start Date: 2023/8 Student Degree Expected Date: 2027/5 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: An observational secondary data study todescribe the patient characteristics, surgical outcomes, and treatmentdecisions in early stage resected non-small cell lung cancer patients Present Position: Medical student |

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| 2023/9 - 2027/5 Principal Supervisor | <p>Joshua Collins (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2023/8</p> <p>Student Degree Expected Date: 2027/5</p> <p>Student Canadian Residency Status: Canadian Citizen</p> <p>Thesis/Project Title: Enhancing Outcomes: Investigating Early Results of Pre-Surgical Chemotherapy and Immunotherapy in Lung Cancer - Insights from our local experience</p> <p>Project Description: Project Overview: This quality initiative aims to assess and analyze the initial outcomes observed in patients undergoing treatment for lung cancer following the approach outlined in the Checkmate 816 trial. The focus is on the combination of chemotherapy and immunotherapy administered before surgical intervention, seeking to understand its impact on patient response and early-stage outcomes.</p> <p>Present Position: Medical student</p> |
| 2023/8 - 2027/5 Principal Supervisor | <p>Erin Donovan (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2023/8</p> <p>Student Degree Expected Date: 2027/5</p> <p>Student Canadian Residency Status: Canadian Citizen</p> <p>Thesis/Project Title: Unveiling the drivers of ninety-day Emergency Department visits post thoracic surgery: A Nova Scotia Health Study</p> |
| 2022/9 Principal Supervisor | <p>Jacqui JN Baptiste (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2022/9</p> <p>Thesis/Project Title: Dalhousie University Research in Medicine Program</p> <p>Project Description: Occult N2 disease</p> <p>Present Position: Medical Student</p> |
| 2022/9 Principal Supervisor | <p>Kassandra Coyle (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2022/9</p> <p>Thesis/Project Title: Dalhousie University Research in Medicine Program</p> <p>Project Description: Atlantic Cancer Syndrome</p> <p>Present Position: Medical Student</p> |
| 2022/9 Principal Supervisor | <p>Wade Miner (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2022/9</p> <p>Thesis/Project Title: Dalhousie University Research in Medicine Program</p> <p>Project Description: Thoracic Surgery Pre-Operative Time and OR Allocation Time</p> <p>Present Position: Medical Student</p> |
| 2022/9 Principal Supervisor | <p>Sarah Kim (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2022/9</p> <p>Thesis/Project Title: Dalhousie University Research in Medicine Program</p> <p>Project Description: Frailty Assessment in Thoracic Surgery Patients Undergoing Curative Intent Anatomic Lung Resections for Non-Small-Cell Lung Cancer</p> <p>Present Position: Medical Student</p> |
| 2022/9 Principal Supervisor | <p>Holly Philpott (In Progress) , Dalhousie University</p> <p>Student Degree Start Date: 2022/9</p> <p>Thesis/Project Title: Dalhousie University Research in Medicine Program</p> <p>Project Description: Perioperative outcomes of lung cancer surgery in women: a Canadian nationwide retrospective cohort study (POWR Study)</p> <p>Present Position: Medical Student</p> |

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| 2022/8 Principal Supervisor | Elisabeth Savonitto (In Progress) , Dalhousie University Degree Name: MD Specialization: General Surgery Resident Student Degree Start Date: 2021/7 Thesis/Project Title: Thoracic Surgery Pre-Operative Time and OR Allocation Time Present Position: General Surgery Resident |
| 2022/5 Principal Supervisor | Loukman Ghouti (In Progress) , Dalhousie University Degree Name: MD Student Degree Start Date: 2020/9 Thesis/Project Title: National VATS conversion Present Position: Medical Student |
| 2021/5 - 2021/7 Principal Supervisor | Nicole Edwards (In Progress) , Dalhousie University Student Degree Start Date: 2020/9 Thesis/Project Title: Surgery Elective - 2 months Present Position: Medical Student |
| 2021/2 - 2023/5 Principal Supervisor | Riley Bowker (Completed) , Dalhousie University Degree Name: MD Student Degree Start Date: 2019/9 Thesis/Project Title: Salvage Pulmonary Resection Present Position: Medical Student |
| 2020/12 - 2020/12 Principal Supervisor | Kelly Brennan (Completed) , Dalhousie University Degree Name: MD Student Degree Start Date: 2017/9 Thesis/Project Title: Research Elective – 1 month Project Description: Characterizing the Molecular Profile of Occult N2 Disease in Lung Cancer Present Position: Resident |
| 2020/11 - 2020/11 Principal Supervisor | Pei En Kwok (Completed) , Dalhousie University Degree Name: MD Student Degree Start Date: 2017/9 Thesis/Project Title: Research Elective – 1 month Project Description: Robotic Thoracic Surgery Business Case |
| 2020/9 Principal Supervisor | Nicole Edwards (In Progress) , Dalhousie University Student Degree Start Date: 2020/9 Thesis/Project Title: Research In Medicine Program Project Description: DNA methylation and lung cancer metastases Present Position: Medical Student |
| 2020/9 Principal Supervisor | Ben Keefe (In Progress) , Dalhousie University Student Degree Start Date: 2020/9 Thesis/Project Title: Research in Medicine Program Project Description: Lung cancer and residential radon exposure in Nova Scotia and Prince Edward Island Present Position: Medical Student |
| 2020/9 - 2023/5 Principal Supervisor | Bright Huo (In Progress) , Dalhousie University Student Degree Start Date: 2019/9 Thesis/Project Title: Research in Medicine Program Project Description: Screening Criteria Evaluation for Expansion in Pulmonary Neoplasias (SCREEN) Present Position: Medical Student |

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| 2020/7 - 2022/8 Principal Supervisor | Catherine Williams (Completed) , Dalhousie University Degree Name: MD Student Degree Start Date: 2019/11 Thesis/Project Title: Pleural Solitary Fibrous Tumour with BrainMetastasis: An Aggressive Tumour and Pathologic Conundrum - Published J Surg Case Rep 2022 Present Position: Medical Student |
| 2020/1 - 2020/5 Principal Supervisor | Adele Orovec (In Progress) , Dalhousie University Degree Name: MD Student Degree Start Date: 2020/9 Thesis/Project Title: Large bilateral pulmonary arterial venousmalformations treated with embolization and lingulectomy in a patient withhereditary hemorrhagic telangiectasia – Published J Surg Case Rep 2020 Present Position: Medical Student |

Post-doctorate [n=1]

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| 2023/7 - 2028/6 Principal Supervisor | Anthony Dowe (In Progress) , Dalhousie University Student Degree Start Date: 2023/7 Student Degree Expected Date: 2028/6 Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Unveiling the drivers of ninety-day Emergency Departmentvisits post thoracic surgery: A Nova Scotia Health Study |
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Mentoring Activities

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| 2021/9 | Mentor, Dalhousie University Number of Mentorees: 5 Mentorees: Nicole Edwards Sherry Eskander Jacqui JN Baptiste Dalhousie's Women in Medicine |
| 2021/5 | Mentor, McGill University Number of Mentorees: 2 Association of Women Surgeons |
| 2020/1 | Mentor, National Association of Women Surgeons Number of Mentorees: 1 |

Journal Review Activities

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| Reviewer,European Respiratory Journal Number of Works Reviewed / Refereed: 2 |
| Reviewer,Shanghai Chest Number of Works Reviewed / Refereed: 1 |
| Reviewer,Journal of Surgical Case Reports Number of Works Reviewed / Refereed: 2 |
| Reviewer,American Journal of Respiratory and Critical Care Number of Works Reviewed / Refereed: 1 |
| Reviewer,Cellular and Molecular Biology Number of Works Reviewed / Refereed: 1 |

Reviewer, Video-Assisted Thoracic Surgery Journal

Number of Works Reviewed / Refereed: 1

Reviewer, British Medical Journal

Number of Works Reviewed / Refereed: 3

Reviewer, Journal of Thoracic Disease

Number of Works Reviewed / Refereed: 1

Promotion Tenure Assessment Activities

Promotion Committee Member

Clinical Appointments Committee - Tel Aviv University is considering the appointment of Dr. Liran Levy to the rank of Senior Lecturer in Internal Medicine.

Committee Memberships

Committee Member, LungNSPEI Board of Directors

Committee Member, Beatrice Hunter Cancer Research Institute – Think Tank – Patient Engagement in Research

Co-chair, Canadian Association of Thoracic Surgeons (CATS) Research Session Co-chair, CATS Annual Conference

Committee Member, Nova Scotia Health, Lung Cancer Diagnostic Pathway Working Group

Committee Member, Beatrice Hunter Cancer Research Institute – Internal Review Panel

2024/1 Committee Member, CIHR Institute Advisory Board, Canadian Institutes of Health Research

2020/5 - 2020/5 Co-chair, Association of Women Surgeons Conference, Association of Women Surgeons Judge for Association of Women Surgeons Conference

Other Memberships

2023/1 Member, Lung Cancer Canada

2022/1 Member, Beatrice Hunter Cancer Research Institute

2019/1 Member, Doctors of Nova Scotia

2018/1 Member, International Association for the Study of Lung Cancer

2017/1 Member, American Association for Thoracic Surgery

2017/1 Member, Canadian Association of Thoracic Surgeons

2017/1 Fellow, Royal College of Physicians and Surgeons of Canada

2008/1 Member, Porsche Club of America

2007/1 Member, Canadian Medical Association

2000/9 Member, American Thoracic Society

2017/1 - 2019/1 Member, Ontario Medical Association

2011/1 - 2017/1 Member, Canadian Association of General Surgeons

2011/1 - 2017/1 Member, College of Physicians and Surgeons of British Columbia

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| 2007/1 - 2017/1 | Member, Doctors of British Columbia |
| 2005/9 - 2007/5 | Member, New York Academy of Sciences |

Presentations

1. (2023). Perioperative outcomes of lung cancer surgery in women: a Canadian nationwide retrospective cohort study (POWR Study). CATS Database Meeting, Toronto, Canada
Main Audience: Decision Maker
Invited?: No, Keynote?: No
2. (2023). Perioperative outcomes of lung cancer surgery in women: a Canadian nationwide retrospective cohort study (POWR Study). Canadian Association of Thoracic Surgeons Annual Conference, Vancouver, Canada
Main Audience: Decision Maker
Invited?: Yes
3. (2023). Strategies to reduce the length of stay after lobectomy. Canadian Association of Thoracic Surgeons Annual Conference, Vancouver, Canada
Main Audience: Decision Maker
Invited?: Yes, Keynote?: No
4. (2023). Overview of radon-induced lung cancer in Nova Scotia. Radon Working Group, Halifax, Canada
Main Audience: Decision Maker
Invited?: Yes, Keynote?: Yes
5. (2022). Large bilateral pulmonary arterial venous malformations treated with embolization and lingulectomy in a patient with hereditary hemorrhagic telangiectasis. American Thoracic Society International Conference, San Francisco, United States of America
6. (2022). Postintubation tracheal rupture associated with tuberculous tracheitis. Chest Annual Meeting, Nashville, TN, United States of America
Main Audience: Knowledge User
7. (2022). Thoapz+ digital chest drains for improving outcomes. Division of Thoracic Surgery, Dalhousie University, Halifax,
8. (2022). Postintubation tracheal rupture associated with tuberculous tracheitis. Rapid Fire Case Reports, Chest Annual Meeting, Nashville, United States of America
Main Audience: Knowledge User
Invited?: No, Keynote?: No
9. (2022). Harmonic scalpel for sealing the pulmonary artery. Division of Thoracic Surgery, Dalhousie University, Halifax,
10. (2022). Patient outcomes following salvage lung cancer surgery post definitive radiation. ASLC 2022 World Conference on Lung Cancer, Vienna, Austria
11. (2022). Perioperative outcomes of lung cancer surgery in women: a Canadian nationwide retrospective cohort study (POWR Study). CATS Database Meeting, Montreal,
12. (2022). Adjuvant immunotherapy for resected non-small cell lung cancer. Canadian Association for Thoracic Surgeons (CATS), Canada
Main Audience: Decision Maker
Invited?: Yes, Keynote?: No

13. (2022). Patient outcomes following salvage lung cancer surgery post definitive radiation. Beatrice Hunter Cancer Research Institute Annual Conference, Halifax, Austria
Main Audience: Knowledge User
Invited?: No, Keynote?: No
14. (2021). Electronic Cigarettes: Harmless Fog or Toxic Smog?. General Surgery Grand Rounds, HALIFAX, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
15. (2021). Thoracic Surgery Debate: Role of thymectomy for thymomas less than 1 cm in size. Canadian Surgery Forum - CATS Debate, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
Description / Contribution Value: Debater - Partial thymectomy for thymoma
16. (2020). Electronic Cigarettes: Harmless Fog or Toxic Smog?. Respiriology Division Academic Rounds, HALIFAX, Canada
Main Audience: Knowledge User
Invited?: Yes
17. (2020). Research – Past, Present and Future. Dalhousie University Research Showcase, HALIFAX, Canada
Main Audience: Researcher
Invited?: Yes
18. (2020). Research Interests and Collaborative Projects. Dalhousie University Department of Surgery Basic Science Research Evening, HALIFAX, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
19. (2020). Electronic Cigarettes: Health Effects and Smoking Cessation. Chest Rounds, HALIFAX, Canada
Main Audience: Knowledge User
Invited?: Yes
20. (2019). Three-Stage Resection of Left Pancoast Tumour with Spinal and Major Vessel Involvement. American Association for Thoracic Surgery, Toronto, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No
21. (2019). Electronic Cigarettes: Harmless Fog or Toxic Smog?. 7th Atlantic Canada Thoracic Oncology Conference, HALIFAX, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
22. (2019). Lipoprotein(a): A Key Upstream Regulator for Aortic Stenosis?. University of Toronto Pearson Day, Toronto, Canada
Main Audience: Knowledge User
Invited?: No
23. (2019). Electronic Cigarettes: Harmless Fog or Toxic Smog?. Radiation Oncology Rounds, HALIFAX, Canada
Main Audience: Knowledge User
Invited?: Yes
24. (2018). Are Electronic Cigarettes a Safe Alternative to Traditional Cigarettes?. Lung Oncology Research Day, Toronto, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

25. (2018). Electronic Cigarettes: Not an Evidence Based Cessation Tool.IASLC World Conference on Lung Cancer, Toronto, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
26. (2018). Update on Treatments for Esophageal Cancer. AHD U of T Division of Thoracic Surgery, Toronto,
27. (2018). Electronic Cigarettes: Harmless Fog or Toxic Smog?. University of Toronto Pearson Day, Toronto, Canada
Main Audience: Researcher
Invited?: No
28. (2017). Esophageal Surgery.UBC Department of Surgery Grand Rounds, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes
29. (2017). How to Be Successful at Research During Surgical Residency.UBC Department of Surgery Research Symposium, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes
30. (2017). Journal Club Presenter, U of T Division of Thoracic Surgery. Journal Club, U of T Division of Thoracic Surgery, Toronto,
31. (2016). The Surgeon's Role in Cancer Outcomes.BCCA Oncology/Surgery Rounds, Victoria, Canada
Main Audience: Knowledge User
Invited?: Yes
32. (2016). PGY1 "Boot Camp" Seminar on Research in Surgery. UBC,
33. (2016). How to... from an award-winning resident.... AHD UBC,
34. (2016). Superbugs. Kelowna General Hospital, Kelowna,
35. (2015). A Retrospective Review of the Surgical Outcomes of PDA Ligation.UBC Heart and Lung FEST Scientific Symposium, Vancouver, Canada
Main Audience: Knowledge User
36. (2015). PGY1 "Boot Camp" Seminar on Effective Presentations. UBC,
37. (2015). Journal Club Presenter, U of T Division of Thoracic Surgery. Journal Club, U of T Division of Thoracic Surgery, Toronto,
38. (2014). Post-Traumatic Pulmonary Emboli.VGH Trauma Grand Rounds, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes
39. (2014). Electronic Cigarettes: What's in the Mist?. UBC Chung Research Day, Vancouver, Canada
Main Audience: Researcher
Invited?: No
40. (2014). Pathologic Nipple Discharge. Mount Saint Joseph Hospital, Vancouver,
41. (2014). Early Predictors of Anastomotic Leak in CRC. St. Paul's Hospital, Vancouver,
42. (2014). PGY1 "Boot Camp" Seminar on Effective Patient Handover. UBC,
43. (2013). PGY1 "Boot Camp" Seminar on Effective Patient Handover. UBC,
44. (2013). The GPx1-PTP1B-PP2A axis: a key determinant of airway inflammation and alveolar destruction.European Respiratory Society Annual Congress, Barcelona, Spain
Main Audience: Researcher
Invited?: No, Keynote?: No

45. (2013). Redox Regulation of Protein Tyrosine Phosphatase 1B (PTP1B) Counters Lung Inflammation by Modulating Protein Phosphatase 2A (PP2A) Activity.American Thoracic Society International Conference, Philadelphia, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
46. (2013). Secretion of MMPs, Cathepsins, and Their Inhibitors by Alveolar Macrophages and Their Association with Emphysema.American Thoracic Society International Conference, Philadelphia, United States of America
Main Audience: Researcher
Invited?: No
47. (2013). Expression of Matrix Metalloproteinase-1 in Alveolar Macrophages, Type II Pneumocytes, and Airways in Smokers: Relationship to Lung Function and Emphysema.American Thoracic Society International Conference, Philadelphia, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
48. (2013). Arterial Lines: The Workhorse of ICU Monitoring. VGH ICU Rounds, Vancouver,
49. (2013). In vivo modulation of protein phosphatase 2A activity alters cytokine and protease responses to cigarette smoke.36th Annual UBC Department of Surgery Residents' Research Day, Vancouver, Canada
Main Audience: Researcher
Invited?: No
50. (2012). In vivo modulation of protein phosphatase 2A activity alters protease and cytokine responses to cigarette smoke.American Thoracic Society International Conference, San Francisco, United States of America
Main Audience: Researcher
Invited?: No
51. (2012). Glutathione peroxidase-1 (GPx-1) protects the lung from cigarette smoke induced injury.American Thoracic Society International Conference, San Francisco, United States of America
Main Audience: Researcher
Invited?: No
52. (2012). Anti-oxidants modulate protein phosphatase 2A (PP2A) activity to counteract cigarette smoke generated reactive oxygen species.European Respiratory Society Annual Congress, Vienna, Austria
Main Audience: Researcher
Invited?: No, Keynote?: No
53. (2012). Diabetes Therapies – Past, Present, and Future.UBC Department of Surgery City Wide Rounds, Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes
54. (2012). Journal Club Presenter, UBC Division of General Surgery. Journal Club, UBC Division of General Surgery,
55. (2011). Characterization of the MMP1 cigarette smoke-responsive region.American Thoracic Society International Conference, Denver, United States of America
Main Audience: Researcher
56. (2011). Redox regulation of protein phosphatase 2A phosphorylation prevents cigarette smoke-induced lung injury.American Thoracic Society International Conference, Denver, United States of America
Main Audience: Researcher
Invited?: No
57. (2011). Minimally Invasive Liver Resections. Halifax Division of General Surgery,

58. (2008). Cigarette smoke exposure does not induce an unfolded protein response in human airway cells or mouse lungs.American Thoracic Society International Conference, Toronto, Canada
Main Audience: Researcher
59. (2008). Cigarette smoke activates JNK in human small airway epithelial cells via the TNF signalling pathway.American Thoracic Society International Conference, Toronto, United States of America
Main Audience: Researcher
Invited?: No
60. (2007). IL-1, LPS, and TNF-alpha affect the expression levels of MMPs, cathepsins, and their inhibitors in human alveolar macrophages.American Thoracic Society International Conference, San Francisco, United States of America
Main Audience: Researcher
Invited?: No
61. (2007). No cigarette is safe.Sixth Scientific Symposium of Flight Attendant Medical Research Institute Conference, Miami, United States of America
Main Audience: Researcher
Invited?: No
62. (2007). Increased expression of matrix metalloproteinase-1 in macrophages, type II pneumocytes, and airways of the emphysematous lung.American Thoracic Society International Conference, San Francisco, United States of America
Main Audience: Researcher
Invited?: No
63. (2007). Human small airway epithelial cells express MMP12.European Respiratory Society Annual Congress, Stockholm, Sweden
Main Audience: Researcher
Invited?: No
64. (2007). Histone deacetylase inhibitor blocks cigarette smoke-induced MMP1 expression.American Thoracic Society International Conference, San Francisco, United States of America
Main Audience: Researcher
Invited?: No
65. (2007). Molecular mechanisms of smoke-induced lung disease.Columbia University, Division of Molecular Medicine Grand Rounds, New York, United States of America
Main Audience: Researcher
Invited?: No
66. (2006). Identification of a cigarette smoke-responsive region in the distal MMP-1 promoter.Columbia University, Division of Molecular Medicine Grand Rounds, New York, United States of America
Main Audience: Researcher
67. (2006). Evaluation of cathepsin and matrix metalloproteinase polymorphisms and mRNA expression in relation to emphysema.American Thoracic Society International Conference, San Diego, United States of America
Main Audience: Researcher
Invited?: No
68. (2005). Association between the expression level of MMPs, cathepsins, and their inhibitors in alveolar macrophages and phenotypes related to COPD.American Thoracic Society International Conference, San Diego, United States of America
Main Audience: Researcher
Invited?: No
69. (2003). Identification of genes that contribute to the risk of developing COPD.VanSeaPort Conference, Mt. Hood, United States of America
Main Audience: Researcher

70. (2003). Matrix metalloproteinase (MMP) polymorphisms and MMP expression in alveolar macrophages.American Thoracic Society International Conference, Seattle, United States of America
Main Audience: Researcher
Invited?: No
71. (2002). Human plasminogen activator inhibitor-1 polymorphism and rate of decline of lung function.American Thoracic Society International Conference, Atlanta, United States of America
Main Audience: Researcher
72. (2001). Association of chronic obstructive pulmonary disease with polymorphisms of the human beta-defensin-1 gene.American Thoracic Society International Conference, San Francisco, United States of America
73. (2001). Human neutrophil peptides -1 and -3 and rate of decline of lung function.Thomas L. Petty Aspen Lung Conference, Aspen, United States of America
Main Audience: Researcher

Broadcast Interviews

- | | |
|----------------------------|---|
| 2024/01/16 | Lung Cancer, Lung Cancer Voices Podcast: Research in Canada: LAA Winner Dr. Alison Wallace In the first episode of our "Research in Canada" series, Dr. Paul Wheatley-Price speaks with Dr. Alison Wallace, Dr. Paul Wheatley-Price |
| 2023/03/03 - 2023/03/03 | 'They're going to keep me going': N.S. woman grateful for care, compassion at QEII Health Sciences Centre featuring Dr. Alison Wallace and Dr. Mark Walsh., CTV News, CTV, Suzette Belliveau |

Text Interviews

- | | |
|------------|--|
| 2023/10/03 | Radon Gas Primer: Learn about health effects and potential actions you can take By Dr. Robert Strang and Dr. Alison Wallace, Doctors of Nova Scotia Magazine |
| 2023/06/01 | Collaboration the key to successful high-impact research featuring Dr. Alison Wallace, Dalhousie University, Department of Pathology Annual Report |
| 2022/05/01 | Beatrice Hunter Cancer Research Institute Featured Researcher, Cancer scientists Description / Contribution Value: Feature |

Publications

Journal Articles

1. Terry Fox Research Institute Marathon of Hope Cancer Centers Network. Electronic address: mmarra@bcgsc.ca , Terry Fox Research Institute Marathon of Hope Cancer Centers Network. (2025). The Terry Fox Research Institute Marathon of Hope Cancer Centres Network: A pan-Canadian precision oncology initiative.Cancer cell. 43(4): 587-592.
Published
2. Philpott HT , Murphy R , McCausland C , Gao Y , Anstee C , Gingrich M , Seely A , Wallace A , CATS Database working group. (2025). Perioperative outcomes of lung cancer surgery in women: a canadian nationwide retrospective cohort study.European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery.
Published

3. Gao Y , Savonitto E , Liang S , Wallace A. (2025). Efficacy of negative pressure wound therapy blowhole placement in alleviating severe subcutaneous emphysema and associated transient blindness following video-assisted thorascopic surgery: a case series.Journal of surgical case reports. 2025(7): rjaf449.
Published
4. Langley JE , Sibley D , Chiekwe J , Keats MR , Snow S , Purcell J , Sollows S , Hill L , Watton D , Gaudry AE , Hashish I , Wallace A. (2025). Prehabilitation Program for Lung and Esophageal Cancers (Boosting Recovery and Activity Through Early Wellness): Protocol for a Nonrandomized Trial.JMIR research protocols. 14: e60791.
Published
5. Pathak GP , Shah R , Reiman T , Wallace A , Carter MD , Snow S , Fris J , Xu Z. (2025). Identification of Driver Mutations and Risk Stratification in Lung Adenocarcinoma via Liquid Biopsy.Cancers. 17(8)
Published
6. Attar L, French D, Manos D, Finn N, Mujoomdar A, Wallace A. (2024). Pneumonectomy for Osteosarcoma Metastases: Two Compelling Cases with Unique Radiology. Annals of Thoracic Surgery Short Reports. 1: 1-3.
Last Author
Accepted,
Refereed?: Yes, Open Access?: Yes
7. Huo B , Dow T , Wallace AM , French DG. (2024). Grit and Thoracic Surgery Interest Among Medical Students.Journal of surgical education. 81(8): 1044-1049.
Published
8. Patel P, Brownstone R, Cruickshank B, Garagan C, Manos D, French D, Wallace A, Plourde M. (2024). Streamlining Lung CancerManagement in Nova Scotia Amid COVID-19: Pooled Triaging for Expedited Curative-IntentOncologic Surgery. Canadian Journal of Surgery. 1: 1-3.
Co-Author
Accepted,
Refereed?: Yes, Open Access?: Yes
9. Patel P , Brownstone R , Cruickshank B , Garagan C , Manos D , French D , Wallace A , Plourde M. (2024). Streamlining lung cancer management in Nova Scotia amid COVID-19: pooled triaging for expedited curative-intent oncologic surgery.Canadian journal of surgery. Journal canadien de chirurgie. 67(4): E279-E285.
Published
10. Huo B, Lee Y, Kontouli K, Patel P, Yang K, Jong A, Coyle K, French D, Wallace A, Plourde, M. (2023). Protocol for the systematic review and network meta-analysis of open versus video-assisted and robotic-assisted thymectomy for the treatment of thymic neoplasms. Journal of Surgical Protocols and Research Methodologies. 2023(2): 1-3.
<http://dx.doi.org/10.1093/jsprm/snad006>
Published,
11. Huo B , Manos D , Xu Z , Matheson K , Chun S , Fris J , Wallace AMR , French DG. (2023). Screening Criteria Evaluation for Expansion in Pulmonary Neoplasias (SCREEN).Seminars in thoracic and cardiovascular surgery. 35(4): 769-780.
Published
12. Singh S, Houston S, Wallace A. (2023). Postintubation tracheal rupture associated with tuberculosis tracheitis. Canadian Journal of Respiratory, Critical Care, and Sleep Medicine. 1: 1-3.
<http://dx.doi.org/https://www.tandfonline.com/action/showCitFormats?doi=10.1080/24745332.2023.2226412>
Published,

13. Savonitto E , Yasufuku K , Wallace AM. (2023). Robotic segmentectomy for early-stage lung cancer. *Frontiers in surgery*. 10: 1090080.
Published
14. Huo B, Manos D, Xu Z, Matheson K, Chun S, Fris J, Wallace A, French D. (2022). Screening criteria evaluation for expansion in pulmonary neoplasias (SCREEN). *Seminars in Thoracic and Cardiovascular Surgery*. 1: 1-3.
<http://dx.doi.org/10.1053/j.semtcvs.2022.06.018>
Published,
Refereed?: Yes

Thesis/Dissertation

1. Genetic Risk Factors for COPD. (2005). University of British Columbia. Doctorate.
Number of Pages: 120 Supervisor: Dr. Peter Pare
Contribution Percentage: 91-100

Magazine Entries

1. Wallace, A, French, D. (2022). Managing Lung Cancer. *Doctors Nova Scotia*. 22(6): 17.
Published,
Description / Contribution Value: Co-author
2. (2022). Illuminating Lung Cancer. *Doctors Nova Scotia*. 22(6): 14-15.
Published,
Description / Contribution Value: Featured
3. (2002). Groundbreaking research is a breath of fresh air. *St. Paul's Hospital Foundation - Lifeline*. 2(2): 1-2.
Published,
Description / Contribution Value: Feature

Manuals

1. Yousra Hasnain Tom Waddell Alison Wallace. (2019). *Doctors of Thoracic Surgery - Thoracic Surgery House Staff Manual*. 2019. 2(1)(1): 75.
Published,

Clinical Care Guidelines

1. Working Group Committee Member. Lung Cancer Diagnostic Pathway. (2023).
Contributors: Allied health professionals
Description / Contribution Value: Nova Scotia Health, Lung Cancer Diagnostic Pathway Working Group
2. Project lead. Intrapleural Talc Pleurodesis Protocol. (2021).
Contributors: Jenna Walker, NP
Contribution Percentage: 91-100
Description / Contribution Value: Development of standard operating procedure for residents and nurses for intrapleural administration of talc for pleurodesis.
3. Project lead. Tissue Plasminogen Activator and Dornase Therapy for Pleural Infection. (2021).
Contributors: Jenna Walker, NP
Contribution Percentage: 91-100
Description / Contribution Value: Development of standard operating procedure for residents and nurses for intrapleural administration of tissue plasminogen activator and dornase for treatment of pleural infections.

Intellectual Property

Patents

1. The Use of PP2A as an Anti-Inflammatory Treatment Agent. United States of America. 2582. 2021/07/15.
Patent Status: Granted/Issued
2. Novel Antioxidant in the Treatment and Prevention of Lung Disease. United States of America. 1999.
2007/07/15.
Patent Status: Granted/Issued

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Martin Carl Tammemägi

eRA COMMONS USER NAME (credential, e.g., agency login): mctammemagi

POSITION TITLE: Professor Emeritus, Health Sciences - Brock University

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

| INSTITUTION AND LOCATION | DEGREE (if applicable) | Completion Date MM/YYYY | FIELD OF STUDY |
|--------------------------------|---------------------------|-------------------------------|---------------------|
| University of Toronto, Toronto | BSc (honors) | 04/1972 | Zoology |
| University of Guelph, Guelph | DVM | 04/1976 | Veterinary Medicine |
| University of Toronto, Toronto | MSc | 04/1992 | Epidemiology |
| University of Toronto, Toronto | PhD | 04/1998 | Epidemiology |

Personal Statement

I have a strong interest in cancer epidemiology with special interests in lung cancer screening, cancer risk prediction modelling and pulmonary nodule malignancy probability prediction modelling. I have been a co-investigator and remains an active analyst in the U.S. NIH NCI *Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial* (PLCO), the U.S. NIH NCI *National Lung Screening Trial* (NLST), the *Pan-Canadian Early Detection of Lung Cancer Study*, and the *International Lung Screen Trial*. I am an active associate member of the U.S. NIH NCI *Cancer Intervention and Surveillance Modeling Network* (CISNET) Lung Group. Also, I was the Scientific Lead on Ontario Health – Cancer Care Ontario’s *Lung Cancer Screening Pilot for People at High Risk* and the *Ontario Lung Screening Program*. I developed several widely validated lung cancer risk prediction models. As of April 2025, my *PLCOm2012* lung cancer risk prediction model has been studied and presented in 108 peer reviewed medical journal articles from around the world. My PanCan Nodule Malignancy Probability Model (PanCan or Brock model) has been extensively validated and accepted into clinical practice and recommended by the American College of Radiology Lung-RADS system and the British Thoracic Society Guidelines for Investigation and Management of Pulmonary Nodules. I have pursued several studies of lung cancer screening disparities to find more effective ways to screen women, Black, and Indigenous peoples. I also using artificial intelligence and machine learning approaches to update the *PLCOm2012* lung cancer risk prediction model and to accurately estimated risk in those who never smoked. I am part of a University of British Columbia research team that is applying Natural Language processing to predict which individuals being processed through a telehealth visit need to be immediately directed to emergency department or to regular primary care. I am also a consultant for several international companies and grants that are using machine learning to identify biomarkers for early cancer detection and prediction of cancer risk, including using electronic medical record data-based models to identify individuals for early clinical interventions or screening. I have led an *International Association for the Study of Lung Cancer* (IASLC) *Screening & Early Detection Working Group* Delphi Study of Lung Cancer Screening Quality Indicators, which has recently been published in the *Journal of Thoracic Oncology*. Also, I have led a successful IASLC grant application “*Feasible Approaches for Lung Cancer Screening of People Who Never Smoked – the FALCONS Study*”. This study began in April 2025. In addition, Tammemägi is a primary investigator in the *LuCNeSS Study, Lung Cancer in those who Never Smoked Study*.

A. Positions and Honors

| | |
|----------------|--|
| 1998 | First prize student paper award - American College of Epidemiology |
| 1998-2005 | Senior Epidemiologist - Henry Ford Health System |
| 2005-2020 | Professor, Health Sciences, Brock University |
| 2015 | Brock University Faculty of Applied Health Sciences Research Excellence Award |
| 2020-present | Professor emeritus, Health Sciences, Brock University |
| 2016-2021 | Senior Scientist, Scientific Lead, Cancer Care Ontario's Lung Cancer Screening Pilot for People at High Risk |
| 2021- Dec 2023 | Scientific Lead, Ontario Health (Cancer Care Ontario)'s Ontario Lung Screening Program |

B. Teaching Experience

2005 to present.

Professor Tammemägi has taught undergraduate and graduate courses at Brock University on Research Methods in Epidemiology, Modern Epidemiology and Master of Public Health Epidemiology, and has supervised over a dozen graduate students.

C. Contributions to Science

Overall, important contributions I made have been to develop a better understanding of lung cancer epidemiology and the secondary prevention of lung cancer. Specifically, my early work started in 1998 with the Prostate Lung Colorectal and Ovarian Cancer Screening Trial and then the National Lung Screening Trial, which demonstrated that low dose computed tomography lung cancer screening significantly reduces lung cancer mortality. Since those early years, my research has identified better ways to carry out lung cancer early detection and screening, and more recently I have been able to take research and theory into practical application. I have been the Scientific Lead of the successful lung cancer screening Pilot in Ontario, which transitioned in early 2021 into the provincial Ontario Lung Screening Program. An important contribution I have made has been the development of lung cancer risk prediction models, including the PLCOm2012 model which predicts who will develop lung cancer and should be offered lung cancer screening and the PanCan (Brock) model that predicts CT image-detected lung nodule malignancy probability.

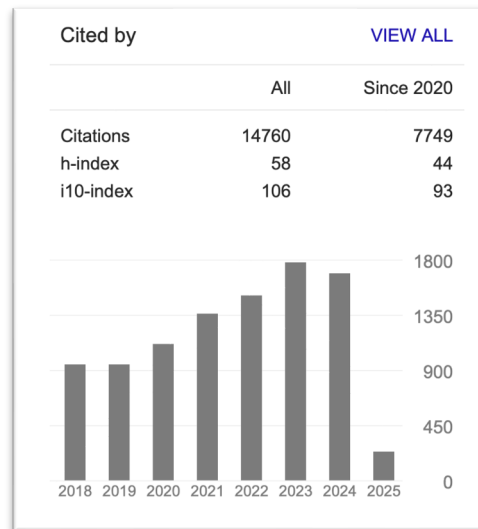
My *PLCOm2012* lung cancer risk prediction model has been studied and validated over 100 studies by different research teams in the United States, Canada, the United Kingdom, Germany, Poland, Australia, Brazil, and in multiple other countries. The *PLCOm2012* is now in use for selecting high-risk individuals for lung cancer screening in programs, pilots, and studies in Canadian provinces of Ontario, British Columbia, Nova Scotia, Saskatchewan and Quebec, and in the United Kingdom, Germany, France, the Netherlands, Columbia, Australia and New Zealand. The U.K. National Health Services registered the *PLCOm2012* with the *Medicines & Healthcare Products Regulatory Agency* as a clinical management support software to permit its widespread use in clinical and public health practice in the U.K. Recently, in a large prospective multinational trial, we demonstrated that the *PLCOm2012* model was significantly superior to the United States Preventive Services Task Force 2013 criteria at selecting individuals for lung cancer screening (Tammemägi 2022 Lancet Oncology). I am continuing to improve models predicting individual cancer risk and image-detected nodule cancer risk in ongoing studies in Canada, the United States, United Kingdom, Australia and New Zealand, and am active in multiple studies attempting to improve lung cancer early detection and screening, including integration of biomarkers, air pollution, dietary, occupational and environmental and other exposure data.

My *PanCan* nodule malignancy model (syn. Brock model) has been widely validated and has been recommended for use in identifying cases which require or do not require active diagnostic investigation by the British Thoracic Society Guidelines and the American Thoracic Society's LungRADS nodule classification and management system. I am currently active in updating this family of models, including using machine learning methods.

Google scholar reported that as of February 10, 2025, Professor Tammemägi has been cited over 14 thousand times and has an h-index of 58 (40 is considered outstanding) and i10-index of 106 (≥ 25 indicates an excellent research profile). These statistics indicating research excellence, which has primarily focused on lung cancer.

From Google Scholar 10 February 2025 (Tammemägi cited 14,760, and cited 7,749 times since 2020):

User profiles for Tammemägi



The h-index combines productivity (i.e., number of papers produced) and impact (number of citations) in a single number. An h-index of 20 is considered good, and 40 is outstanding. The i-10 index is a measure of the publications with at least 10 citations. A researcher having an i-10 index of ≥ 25 is considered to have an excellent research profile. Professor Tammemägi's h-index and i-10 index place him in the top echelon of lung cancer researchers. Since 2019, Stanford University publishes the world's top 2% most cited scientists. Professor Tammemägi has been included in the list since inception and including the most recent list published in 2025.

D. The following selected peer-reviewed publications provide the scope of Tammemägi's scientific contributions:

1. **Tammemägi MC**, Borondy-Kitts A, Field JK, et al. Lung cancer screening program quality indicators - review & recommendations - An International Association for the Study of Lung Cancer Delphi process study. *J Thorac Oncol* 2025.
2. Warkentin MT, **Tammemägi MC**, Vakil E, et al. Brief Report: Evaluating Early-Stage Lung Cancer Survival Patterns in Patients at the Upper Age Limit for Lung Cancer Screening. *J Thorac Oncol* 2024.
3. **Tammemägi MC**, Darling GE, Schmidt H, et al. Risk-based lung cancer screening performance in a universal healthcare setting. *Nature medicine* 2024; **30**(4): 1054-64.
4. Tisler A, Vork A, **Tammemägi M**, et al. Nationwide study on development and validation of a risk prediction model for CIN3+ and cervical cancer in Estonia. *Sci Rep* 2024; **14**(1): 24589.
5. Issanov A, Aravindakshan A, Puil L, **Tammemägi MC**, Lam S, Dummer TJB. Risk prediction models for lung cancer in people who have never smoked: a protocol of a systematic review. *Diagn Progn Res* 2024; **8**(1): 3.
6. Warkentin MT, Al-Sawaihey H, Lam S, et al. Radiomics analysis to predict pulmonary nodule malignancy using machine learning approaches. *Thorax* 2024.
7. Choi E, Ding VY, Luo SJ, et al. Risk Model-Based Lung Cancer Screening and Racial and Ethnic Disparities in the US. *JAMA Oncol* 2023; **9**(12): 1640-8.
8. Choi E, Luo SJ, Ding VY, et al. Risk model-based management for second primary lung cancer among lung cancer survivors through a validated risk prediction model. *Cancer* 2024; **130**(5): 770-80.
9. Tammemägi MC. Time to quit using quit time as a lung cancer screening eligibility criterion. *Cancer* 2023.
10. Evans WK, Tammemägi MC, Walker MJ, et al. Integrating Smoking Cessation Into Low-Dose Computed Tomography Lung Cancer Screening: Results of the Ontario, Canada Pilot. *J Thorac Oncol* 2023.
11. Cressman S, Weber MF, Ngo PJ, et al. Economic impact of using risk models for eligibility selection to the International lung screening Trial. *Lung Cancer* 2023; **176**: 38-45.

12. Berg CD, Schiller JH, Boffetta P, et al. Air Pollution and Lung Cancer: A Review by International Association for the Study of Lung Cancer Early Detection and Screening Committee. *J Thorac Oncol* 2023.
16. Warkentin MT, Tammemagi MC, Espin-Garcia O, Budhathoki S, Liu G, Hung RJ. Lung Cancer Absolute Risk Models for Mortality in an Asian Population using the China Kadoorie Biobank. *J Natl Cancer Inst* 2022; **114**(12): 1665-73.
17. Walker MJ, Wang J, Mazuryk J, et al. Delivery of Cancer Care in Ontario, Canada, During the First Year of the COVID-19 Pandemic. *JAMA Netw Open* 2022; **5**(4): e228855.
18. Tammemagi MC, Ruparel M, Tremblay A, et al. USPSTF2013 versus PLCom2012 lung cancer screening eligibility criteria (International Lung Screening Trial): interim analysis of a prospective cohort study. *Lancet Oncol* 2022; **23**(1): 138-48.
19. Pasquinelli MM, Tammemagi MC, Kovitz KL, et al. Addressing Sex Disparities in Lung Cancer Screening Eligibility: USPSTF vs PLCom2012 Criteria. *Chest* 2022; **161**(1): 248-56.
22. Kerpel-Fronius A, Tammemagi M, Cavic M, et al. Screening for Lung Cancer in Individuals Who Never Smoked: An International Association for the Study of Lung Cancer Early Detection and Screening Committee
31. Ten Haaf K, van der Aalst CM, de Koning HJ, Kaaks R, Tammemagi MC. Personalising lung cancer screening: An overview of risk-stratification opportunities and challenges. *Int J Cancer* 2021; **149**(2): 250-63.
32. Tammemagi MC, Darling GE, Schmidt H, et al. Selection of individuals for lung cancer screening based on risk prediction model performance and economic factors - The Ontario experience. *Lung Cancer* 2021; **156**: 31-40.
33. Tammemagi MC. Lung Cancer Screening with CT: A Few Steps on a Long Journey. *Radiology* 2021; **300**(2): 448-9.
34. Sands J, Tammemagi MC, Couraud S, et al. Lung Screening Benefits and Challenges: A Review of The Data and Outline for Implementation. *J Thorac Oncol* 2021; **16**(1): 37-53.
35. Pasquinelli MM, Tammemagi MC, Kovitz KL, et al. Brief Report: Risk Prediction Model Versus United States Preventive Services Task Force 2020 Draft Lung Cancer Screening Eligibility Criteria-Reducing Race Disparities. *JTO Clin Res Rep* 2021; **2**(3): 100137.
38. Lam S, Tammemagi M. Contemporary issues in the implementation of lung cancer screening. *Eur Respir Rev* 2021; **30**(161).
39. Henderson LM, Durham DD, Tammemagi MC, Benefield T, Marsh MW, Rivera MP. Lung Cancer Screening With Low Dose Computed Tomography in Patients With and Without Prior History of Cancer in the National Lung Screening Trial. *J Thorac Oncol* 2021; **16**(6): 980-9.
40. Gould MK, Huang BZ, Tammemagi MC, Kinar Y, Shiff R. Machine Learning for Early Lung Cancer Identification Using Routine Clinical and Laboratory Data. *Am J Respir Crit Care Med* 2021; **204**(4): 445-53.
41. Gaga M, Chorostowska-Wynimko J, Horvath I, et al. Validation of Lung EpiCheck, a novel methylation-based blood assay, for the detection of lung cancer in European and Chinese high-risk individuals. *Eur Respir J* 2021; **57**(1).
42. Darling GE, Tammemagi MC, Schmidt H, et al. Organized Lung Cancer Screening Pilot: Informing a Province-Wide Program in Ontario, Canada. *Ann Thorac Surg* 2021; **111**(6): 1805-11.
43. Advani S, Zhang D, Tammemagi M, et al. Comorbidity Profiles and Lung Cancer Screening among Older Adults: U.S. Behavioral Risk Factor Surveillance System 2017-2019. *Ann Am Thorac Soc* 2021; **18**(11): 1886-93.
45. Ten Haaf K, Jeon J, Tammemagi MC, et al. Correction: Risk prediction models for selection of lung cancer screening candidates: A retrospective validation study. *PLoS Med* 2020; **17**(9): e1003403.
48. Pasquinelli MM, Tammemagi MC, Kovitz KL, et al. Risk Prediction Model Versus United States Preventive Services Task Force Lung Cancer Screening Eligibility Criteria: Reducing Race Disparities. *J Thorac Oncol* 2020; **15**(11): 1738-47.
49. Lim KP, Marshall H, Tammemagi M, et al. Protocol and Rationale for the International Lung Screening Trial. *Ann Am Thorac Soc* 2020; **17**(4): 503-12.
54. Tammemagi MC, Ten Haaf K, Toumazis I, et al. Development and Validation of a Multivariable Lung Cancer Risk Prediction Model That Includes Low-Dose Computed Tomography Screening Results: A Secondary Analysis of Data From the National Lung Screening Trial. *JAMA Netw Open* 2019; **2**(3): e190204.
61. Tammemagi MC. Improving Implementation of Lung Cancer Screening With Risk Prediction Models. *Ann Intern Med* 2018; **169**(1): 54-5.
62. Tammemagi MC. Selecting lung cancer screenees using risk prediction models-where do we go from here. *Transl Lung Cancer Res* 2018; **7**(3): 243-53.

66. Ten Haaf K, Tammemagi MC, Bondy SJ, et al. Performance and Cost-Effectiveness of Computed Tomography Lung Cancer Screening Scenarios in a Population-Based Setting: A Microsimulation Modeling Analysis in Ontario, Canada. *PLoS Med* 2017; **14**(2): e1002225.
67. Ten Haaf K, Jeon J, Tammemagi MC, et al. Risk prediction models for selection of lung cancer screening candidates: A retrospective validation study. *PLoS Med* 2017; **14**(4): e1002277.
68. Tammemagi MC, Schmidt H, Martel S, et al. Participant selection for lung cancer screening by risk modelling (the Pan-Canadian Early Detection of Lung Cancer [PanCan] study): a single-arm, prospective study. *Lancet Oncol* 2017; **18**(11): 1523-31.
79. Tammemagi MC, Church TR, Hocking WG, et al. Evaluation of the lung cancer risks at which to screen ever- and never-smokers: screening rules applied to the PLCO and NLST cohorts. *PLoS Med* 2014; **11**(12): e1001764.
80. Tammemagi MC, Berg CD, Riley TL, Cunningham CR, Taylor KL. Impact of lung cancer screening results on smoking cessation. *J Natl Cancer Inst* 2014; **106**(6): dju084.
86. Izano M, Satariano WA, Tammemagi MC, et al. Long-term outcomes among African-American and white women with breast cancer: what is the impact of comorbidity? *J Geriatr Oncol* 2014; **5**(3): 266-75.
90. Tammemagi MC, Mayo JR, Lam S. Cancer in pulmonary nodules detected on first screening CT. *N Engl J Med* 2013; **369**(21): 2060-1.
91. Tammemagi MC, Katki HA, Hocking WG, et al. Selection criteria for lung-cancer screening. *N Engl J Med* 2013; **368**(8): 728-36.
92. Sin DD, Tammemagi CM, Lam S, et al. Pro-surfactant protein B as a biomarker for lung cancer prediction. *J Clin Oncol* 2013; **31**(36): 4536-43.
93. McWilliams A, Tammemagi MC, Mayo JR, et al. Probability of cancer in pulmonary nodules detected on first screening CT. *N Engl J Med* 2013; **369**(10): 910-9.
94. Lam S, McWilliams A, Mayo J, Tammemagi M. Computed tomography screening for lung cancer: what is a positive screen? *Ann Intern Med* 2013; **158**(4): 289-90.
95. Kovalchik SA, Tammemagi M, Berg CD, et al. Targeting of low-dose CT screening according to the risk of lung-cancer death. *N Engl J Med* 2013; **369**(3): 245-54.
97. Hocking WG, Tammemagi MC, Commins J, et al. Diagnostic evaluation following a positive lung screening chest radiograph in the Prostate, Lung, Colorectal, Ovarian (PLCO) Cancer Screening Trial. *Lung Cancer* 2013; **82**(2): 238-44.
101. Tammemagi CM, Pinsky PF, Caporaso NE, et al. Lung cancer risk prediction: Prostate, Lung, Colorectal And Ovarian Cancer Screening Trial models and validation. *J Natl Cancer Inst* 2011; **103**(13): 1058-68.
123. Rauth AM, Tammemagi M, Hunter G. Nascent DNA synthesis in ultraviolet light-irradiated mouse, human and Chinese hamster cells. *Biophys J* 1974; **14**(3): 209-20.

E. Additional Information: Research Support and/or Scholastic Performance

Ongoing Research Involvement

| Project Title / Name of Principal Investigator / Project Leader | Funding Source /Program Name | Total Award | Start (00/2000) | End (00/2000) |
|--|--|--------------------|------------------------|----------------------|
| Feasible Approaches for Lung Cancer Screening of People Who Never Smoked – the <i>FALCONS Study</i> . Martin Tammemägi/ Andrea Borondy-Kitts | International Association for the Study of Lung Cancer | \$149,700 US | 1 April 2025 | 31 Mar 2027 |
| Air Pollution and Lung Cancer Risk – Prediction and Understanding Relationships Stephen Lam/William Lockwood | Terry Fox New Frontiers Program Project Grant in the Environment and Lung Cancer | \$2,400,000 (CAN) | 07/2023 | 06/2027 |
| Improving Detection of Early Lung cancer in a diverse population (IDEAL). Grant #: 707695. PI: Renelle Myers | Canadian Cancer Society – Breakthrough Team Grant | \$5.4 million CAD | 07/2023 | 06/2028 |
| LuCNeSS, Lung Cancer in those who Never Smoked Study. PI: Andrew Piper | Private donor funding | \$100,000 | 6/2022 | 5/2027 |
| Building virtual bridges to coordinate emergency and primary care. PI: Sonya Cressman | Canadian Institutes of Health Research (CIHR) Catalyst Grant: Policy Research for Health System Transformation | \$149,981 | 07/2023 | 06/2024 |

| | | | | |
|--|---|-------------------|---------|-------------------|
| Lung Cancer Screening CENTRE OF EXCELLENCE. PI: Kwun Fong | Australian Cancer Research Foundation | \$2,000,000 (AUS) | 07/2022 | 06/2025 |
| Lung cancer screening for early detection. PI: Kwun Fong | Australian National Health & Medical Research Council | \$2,836,143 (AUS) | 07/2021 | 06/2024 |
| Lung cancer screening: Testing ethnicity weighting for risk prediction in Māori. PI: Prof Sue Crengle | NZ Health Research Council / Global Alliance for Chronic Diseases | NZ\$1,959,509 | 03/2022 | 02/2025 |
| Optimising lung cancer screening for Maori: comparing invitation processes PI: Prof Sue Crengle | NZ Health Research Council / Global Alliance for Chronic Diseases | NZ\$1,959,509 | 08/2021 | 07/2024 |
| Catching cancers early? How well do Ontario's organized screening programs perform for First Nations and Métis persons? / Tammemägi is Co-Investigator | Canadian Institutes of Health Research | \$120,000 | 04/2019 | 06/2021 (ongoing) |

Completed Recent Research Support

| <i>Project Title / Name of Principal Investigator / Project Leader</i> | <i>Funding Source /Program Name</i> | <i>Total Award</i> | <i>Start (00/2000)</i> | <i>End (00/2000)</i> |
|--|---|---------------------------|-------------------------------|-----------------------------|
| Pan-Canadian Early Detection of Lung Cancer Study extension / PIs Stephen Lam, Martin Tammemägi | Terry Fox Research Institute | \$2,000,000 Canadian | 1/2017 | 12/2022 |
| Incorporating Biomarkers to Improve Lung Cancer Risk Prediction / PI's Ziding Feng, Martin Tammemägi, Hanash | National Institutes of Health (U.S.) U01 grant | \$2,000,518 U.S. | 06/2016 | 05/2022 |
| Optimising screening for lung cancer. PI: Kwun Fong. | Australian National Health and Medical Research Council | \$3,032,8854 Australian | 07/2016 | 06/2021 |
| ACRF Centre for Lung Cancer Early Detection / Kwun Fong | Australian Cancer Research Foundation | \$1 million Australian | 01/2016 | 12/2016 |
| Alberta Lung Cancer Screening Study/ Tremblay | Alberta Cancer Foundation | \$ 1 million Canadian | 9/2014 | 9/2017 |
| Health Technology Assessment of Low Dose Helical CT Screening for Lung Cancer / PI Paszat | Cancer Care Ontario | \$751,000 Canadian | 4/2013 | 3/2015 |
| Early Detection of Lung Cancer - a Pan-Canadian Study/ Tsao and Lam | Terry Fox Research Institute | \$ 6.6 million Canadian | 10/2008 | 9/2014 |
| Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial/ Berg, Prorok, and Kvale | National Cancer Institute | \$250 million U.S. | 10/1998 | 9/2011 |
| National Lung Screening Trial/ Berg, Prorok and Kvale | National Cancer Institute | \$250 million U.S. | 9/2002 | 9/2011 |

CV/Resume - Aaron Floyd Prosper

Address: 24 Seascapes Ln, Herring Cove, NS, Canada B3V 1H2

Contacts: 902-574-8016

Email: aaron.prosper@dal.ca

Languages: English and Mi'kmaq

References: Available upon request

Education:

Doctor of Medicine (Candidate) – Dalhousie University (Class of 2029)

Masters of Applied Health Services Research (MAHSR) - University of Prince Edward Island

- Thesis: "A Comprehensive Appraisal of the Application of Two-Eyed Seeing in Health Services Research: An Integrative Review"

Bachelor of Science (Neuroscience) - Dalhousie University 2019

- Minor in Biochemistry and Molecule Biology; Certificate in Indigenous Studies

Employment & Leadership Experience: (more detailed job descriptions can be given upon request)

Manager, Intergovernmental Relations, Department of Health and Wellness, Government of Nova Scotia – November 2023 to May 2025

Indigenous Health Consultant, Nova Scotia Health – March 2021 to November 2023

Project Manager, Nova Scotia Mi'kmaw Nation Cancer Care Strategy, Union of Nova Scotia Mi'kmaq - January 2019 to March 2021

Gladue Report Writer, Mi'kmaw Legal Support Network - October 2019 to present

President, Dalhousie Students' Union, Dalhousie University - May 2018 to April 2019

Cultural Teacher/Mentor/Resource, Eagle's Nest Recovery House, Sipekine'katik First Nation - October 2018 to present

Equity and Accessibility Office Coordinator, Dalhousie Student Union, Dalhousie University
October 2017 to April 2018

Junior Program Officer, First Nations Inuit Health Branch (FNIHB), Health Canada May 2017 to
August 2017

Summer Student Researcher, Dalhousie University Medical Research Development Office in the
Dalhousie University Faculty of Medicine, May 2016 to October 2016

- Undertook an Academic Literature Review which was used to obtain CIHR funding for project titled: “First Nations Views Toward Biological Health Research: Before and After Participation in Two-Eyed Seeing Curriculum”.

Lifeguard and First Aid Instructor, Dalplex, September 2014 to May 2019

First Aid Instructor, Nova Scotia Lifesaving Society, September 2014 to present

Lifeguard and Learn to Swim Program Instructor, Cape Breton Family YMCA, September 2012 to August 2014

Youth Mentor/Leader, Mi'kmaq Kina'matnewey (MK) Red Road Project, February 2012 to August 2014

Research Experience:

Student Research Assistant - Dalhousie University, Department of Psychiatry - 2015 to 2019

- Currently serving as a research assistant under the supervision of Dr. Amy Bombay and the Thunderbird Partnership Foundation from February 2016 to present. Currently one of the lead student researchers for a CIHR funded project titled: “Creating Ethical Space for First Nations-led Biological Health Research”

Student Research Assistant - Dalhousie University Fountain School of Performing Arts - 2017 to 2018

- Currently serving as a research assistant under the supervision of Dr. Jennifer Bain. Research focus is on transcripts of Mi'kmaw Catholic Hymns from the 18th, 19th, and 20th centuries.

Project Advisory and Partner - Dalhousie University, Department of Sociology and Social Anthropology - 2019 to 2022

- Working on a multi-disciplinary project on the relationship between canids and ornithes. The project lead is Dr. Brian Noble. Project partners include Dr. Simone Gadbois, Dr. Ford Doolittle, and Dr. Sherry Pictou.

Project Advisor, Dalhousie University School of Health and Human Performance

- Project advisor to Dr. Matthew Numer. Project focus is on Indigenous Boy's and Men's Health

Publications:

Union of Nova Scotia Indians, Bombay, A., Doria, N., Hull, K., Johnson, K., Prosper, A., Sinno, J., Denny, M. (2019). Union of Nova Scotia Indians 2015-16 First Nations Regional Health Survey (2nd Ed.). H. Pswarayi, W. Googoo, A. Gould (Eds.). Membertou, NS: Union of Nova Scotia Indians.

Biderman, M., Prosper, A., Hull, K., McQuaid, R., Bombay, A., Hopkins, C., & Thunderbird Partnership Foundation. (2019, March). Training curriculum to empower indigenous communities to become informed co-directors of culturally relevant biological health research. Presented at Crossroads Interdisciplinary Health Research Conference, Dalhousie University, Halifax, NS.

Dalhousie Indigenous Health Interest Group, Biderman, M., Blinn, N., Carrier, L., Paul, J., Stemm, M., Smith, N., Tremblay, O., Bogner, E., Courville, J., Prosper, A., & Bombay, A. (2019, March). Then experience of Indigenous students applying to Canadian medical schools: Barriers and facilitators to admission. Presented at Crossroads Interdisciplinary Health Research Conference, Dalhousie University, Halifax, NS.

Doria, N., Biderman, M., Arthur Miller, D., Prosper, A., Numer, M. (2019). Graphic Facilitation as a Tool to Guide Community-Based Research on Indigenous Boys' and Men's Sexual Health. *Journal of Indigenous HIV Research*. Canadian Aboriginal AIDS Network. Manuscript submitted for publication.

Board, Committee, Society and Volunteer Experience:

Served as a member of each of the following:

Eskasoni School Board – August 2025 to present – Board member

Symphony Nova Scotia – September 2024 to present – Board Member

Dalhousie Alumni Association - September 2020 to present (currently serving 3 year term)

Dalhousie University Board of Governors - May 2018 to April 2019

Dalhousie University Senate - May 2017 to April 2019

- Served as the Indigenous Student Representative for the Dalhousie Senate from May 2017 to April 2018 and continued as Student Representative under current role as Dalhousie Student Union President

Dalhousie University Board of Governors Committee on Academic and Student Affairs - May 2018 to April 2019

Dalhousie University Board of Governors Executive Committee - May 2018 to April 2019

Dalhousie University Board of Governors Ad Hoc Financial Planning Committee - May 2018 to April 2019

Dalhousie University Presidential Search Committee - August 2018 to June 2019

Dalhousie University Provost and Vice-President Academic Search Committee - April 2018 to August 2018

Dalhousie University Assistant Vice-President Equity and Inclusion Search Committee - November 2018 to September 2019

Dalhousie University Vice-Provost Student Affairs Search Committee - April 2018 to June 2018

Dalhousie University Senate Appeals Committee - May 2019 to April 2019

Dalhousie University Senate Planning and Governance Committee - May 2017 to April 2019

Dalhousie University Senate Honorary Degrees Committee - May 2018 to April 2019

Dalhousie University Senate Learning and Teaching Committee - May 2017 to August 2018

Dalhousie University Alcohol Advisory Committee - May 2018 to April 2019

Dalhousie University Dal Reads Committee - January 2017 to present

Dalhousie University Inclusion Team - October 2017 to May 2019

Interim Chair, Dalhousie Student Union Council - May 2018 to September 2018

Indigenous Students Representative, Dalhousie Student Union Council - February 2016 to April 2017

Dalhousie University Ombudsperson Hiring Committee - May 2016 to September 2016

Dalhousie University Ombudsperson Advisory Committee - September 2016 to present

Dalhousie University Director of Equity Service Hiring Committee - January 2017 to April 2017

Dalhousie Medicine Indigenous Curriculum Working Group - December 2017

Chair, Dalhousie Student Union Bylaw and Policy Review Committee - May 2018 to April 2019

Chair, Dalhousie Student Union Executive Committee - May 2018 to April 2019

President, Dalhousie Indigenous Students Collective (DISC) - May 2016 to April 2017

Co-Founder and Treasurer, Medical Sciences Society of Dalhousie University (MSSDU) - September 2014 to April 2016

Dalhousie Science Society (DSS), Council - September 2014 to April 2016

- Served on multiple committees of the Dalhousie Sciences Society including: Chair of the DSS Environmental Affairs Committee

Unama'ki Institute of Natural Resource (UINR) and CEPI Youth/Elder Advisory Committee - September 2013 to June 2014

Researching Member, Dalhousie Medical School History in Medicine Society (formerly, John Stewart Society) - September 2014 to December 2016

Conference Presentations: (can give detail of complete presentation and keynote resume upon request)

Keynote Presentation: Assembly of First Nations Education Conference - February 13-14, 2019

Research Presentation: “Ta’n Weji-Sqalia’tiek – ‘We Sprouted From’: The Links Between Indigenous Knowledges and the Study of Epigenetics” – presented at the Atlantic Policy Congress Atlantic Health Conference, November 13, 2018

Research Presentation: “Ta’n Weji-Sqalia’tiek – ‘We Sprouted From’: The Links Between Indigenous Knowledges and the Study of Epigenetics” – presented at the CIHR Indigenous Health Life Trajectories (I-HeLTI) Development Workshop, June 11, 2018

Research Presentation: “Ta’n Weji-Sqalia’tiek – ‘We Sprouted From’: The Links Between Indigenous Knowledges and the Study of Epigenetics” – present at the Thunderbird Partnership Foundation Annual General Meeting (AGM), June 28, 2017

Research Presentation: “Ta’n Weji-Sqalia’tiek – ‘We Sprouted From’: The Links Between Indigenous Knowledges and the Study of Epigenetics” – abstract accepted for the Lowitja Institute International Indigenous Health and Wellbeing Conference, November 8-10, 2016 in Melbourne, Australia (acceptance declined due to illness).

Research Presentation: “Epigenetics of Indigenous Mental Health” – presented at the McMaster University Indigenous Health Conference January 28th, 2017 – Conference Theme: Indigenous Youth Mental Health

Workshop Facilitator (Self-Developed): “Indigenizing the Academy: An Indigenous Perspective” – Workshop presented at the Dal Lead Conference in February 2017. Presentation focused on Mi’kmaq traditional concepts such as Two-Eyed Seeing and Netukulimk. Workshop received award for highest rated conference workshop.

Workshop Facilitator (Self-Developed) “Msit No’kmaq: All my relations – The gift of being an aboriginal community leader and how you can be one too!” –Workshop presented at the Dal Lead Conference in January 2016 on Aboriginal Leadership and Aboriginal Traditional Teachings – Workshop received award for highest rated conference workshop.

Workshop Facilitator (Self-Developed): Marijuana (Substance Abuse) Workshop CACCF certified workshop

Mi’kmaq Kina’matnewey (MK) Red Road Project Youth Gathering/Symposium (Halifax, N.S.) – March 2014 – Keynote Speaker

Atlantic Aboriginal Addictions Training Symposium and 5th Annual Warrior Spirit Conference (Moncton, NB) – May 2014 – Keynote Speaker

Performance:

Member and Singer, Alan Sylliboy and the Thundermakers

Member and Singer, Eastern Eagle Singers

- Contemporary Mi'kmaw powwow drum group based out of Sipekine'katik First Nation
- Have performed with Eastern Eagle over the past 6 year across Atlantic Canada, Quebec, Ontario, Manitoba and New England States
- Discography: Traditionally Yours (1996), Maq Attaq (1996), East Side Connection (1998), Sacred Flight (2002), Good Medicine (2004), Sipekne'katik (2006), Live '07: The Fallen Feather Tour (2008), Rezonation (2010), XX – Twenty Years of Powwow (2012), Mimajualuksi'kw: It Gives Us Life (2018), Signal Fire (2019, collaboration with Alan Sylliboy & The Thundermakers).

Academic Awards:

Kausattumi Grants Program Graduate Scholarship - 2020

- Academic scholarship is funded through Atlantic Indigenous Mentorship Network

Chief Allison Bernard Memorial High School Class of 2014 Valedictorian

Governor General's Medal Recipient – 2014 (for highest academic average)

Aboriginal Representative for the Canada-Wide Science Fair (Team Nova Scotia) – Lethbridge, Alberta, 2013 (Bronze medal for project titled “Diabetes and the Aboriginal Population – Why Such High Rates?”)

Aboriginal Representative for the Canada Wide Science Fair (Team Nova Scotia) – Windsor, Ontario, 2014 (Bronze medal for project titled “Diabetes and the aboriginal population, why such high rates?”)

Aboriginal - Regional Science Fair - Winner – 2012

John Hanna Jr. Memorial Scholarship winner (recipient) – 2013

Dalhousie University's Chancellor's Scholarship recipient – 2014

Athletic Coaching:

North American Indigenous Games 2014 and 2017, Team Nova Scotia Swim Team Assistant Coach