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Confirmation Number: 1906928

Template: CIHR Biosketch

Dr. Biniam Kidane

Correspondence language: English

Sex: Male

Date of Birth: 9/15

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

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Protected when completed

Dr. Biniam Kidane

Degrees

2011/7 - 2012/11	Master's non-Thesis, Masters of Science, McMaster University Degree Status: Completed
2005/8 - 2009/5	Doctorate, Doctor of Medicine, University of Toronto Degree Status: Completed
2001/9 - 2005/5	Bachelor's Honours, Honours Bachelor's of Science, University of Toronto Degree Status: Completed

Credentials

2016/11	Fellow, Royal College of Physicians and Surgeons of Canada
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Recognitions

2022/1 - 2023/1	Doctors of Manitoba Medal of Excellence Doctors Manitoba
2020/9	Manitoba Future 40 CBC Manitoba
2019/1 - 2020/1	2020 Aubie Angel Young Investigator Award in Clinical Research The University of Manitoba
2015/7	Chisholm Memorial Fellowship Research University of Toronto
2014/7	G.E Meads Award for Clinical Excellence and Teaching Western University

Employment

2016/7	Attending Thoracic Surgeon Surgery, Rady College of Medicine, Winnipeg Health Sciences Centre
2014/8 - 2016/6	Thoracic Surgery Residency Surgery, Faculty of Medicine, University of Toronto
2009/8 - 2014/6	General Surgery Residency Surgery, Faculty of Medicine, Western University

Affiliations

The primary affiliation is denoted by (*)

(*) 2016/8 Associate Professor, Department of Surgery, Section of Thoracic Surgery, Surgery, The University of Manitoba

Research Funding History

Awarded [n=21]

2024/10 - 2028/12 Overcoming Therapy Resistance in Esophagogastric Adenocarcinoma - a Trans-CANADA
Co-investigator initiative (TREAT-CANADA)

Funding Sources:

Canadian Cancer Society
Breakthrough Team Grant
Total Funding - 4,666,648
Funding Competitive?: Yes

2024/10 - 2026/10 "Inflammatory Effects of One-Lung Ventilation and Lung Protective Ventilation Strategies
Principal Investigator in a Porcine Animal Model" and "Reducing Inflammation During Lung Surgery and Anesthesia to Reduce Development of Complications"

Funding Sources:

Manitoba Medical Service Foundation (MMSF)
Hoeschen Memorial Award 2024
Total Funding - 1,333
Funding Competitive?: Yes

2024/9 - 2026/8 Curing Without Harming: A Proteomic Screening Approach to Identify Biomarkers
Principal Investigator Associated with Respiratory Failure in Lung Surgery Patients

Funding Sources:

Health Sciences Centre Research Foundation (Manitoba)
Operating Grant
Total Funding - 70,000
Funding Competitive?: Yes

2024/7 - 2026/6 A Proteomic Based Approach to Identifying Perioperative Protein Markers in Lung Surgery
Principal Investigator Patients That are at a Higher Risk of Developing Postoperative Respiratory Complications

Funding Sources:

University of Manitoba
Department of Surgery GFT Research Grant
Total Funding - 15,000
Funding Competitive?: Yes

2024/7 - 2026/6 Organ-Preserving Endoscopic Resection with Adjuvant RADIation and immunotherapy for
Principal Investigator esophageal cancer (OPERA RADIO)

Funding Sources:

CancerCare Manitoba (CCMB)
Research Operating Funding
Total Funding - 150,000
Funding Competitive?: Yes

2023/4 - 2026/4 Terry Fox Research Institute Marathon of Hope Pan-Canadian Award
Co-applicant

Funding Sources:

Terry Fox Research Institute (TFRI)
Pan-Canadian Award

Total Funding - 5,760,000
Funding Competitive?: Yes

2024/12 - 2025/12
Principal Investigator Extracellular Vesicles as Biomarkers of Early Detection of Lung Cancer Recurrence Post Non-Small Cell Lung Cancer (NSCLC) Surgery

Funding Sources:
Lung Cancer Canada
Geoffrey Ogram Memorial Research Grant
Total Funding - 25,000
Funding Competitive?: Yes

2023/1 - 2025/1
Principal Investigator Reducing inflammatory post-operative complications after lung surgery: Validation with a porcine model

Funding Sources:
Health Sciences Centre
General Operating Grant Competition
Total Funding - 69,944
Funding Competitive?: Yes

2023/1 - 2025/1
Co-investigator Evaluating and Improving a National Learning Network

Funding Sources:
Canadian Institutes of Health Research (CIHR)
Research Operating Grants
Total Funding - 810,000
Funding Competitive?: Yes

2022/7 - 2023/12
Principal Investigator Patient-informed strategies to reduce the risk of respiratory complications following lung surgery.

Funding Sources:
University of Manitoba
The Dr. Paul H. T. Thorlakson Foundation Fund
Total Funding - 30,411
Funding Competitive?: Yes

2022/7 - 2023/6
Principal Investigator Organ-Preserving Endoscopic Resection & Adjuvant RADIO - immune-chemotherapy for esophageal cancer (OPERA RADIO)

Funding Sources:
Cancer Care Manitoba Foundation (CCMF)
Research Operating Grants
Total Funding - 75,000
Funding Competitive?: Yes

2020/4 - 2022/9
Co-investigator Improving Preoperative Lung Cancer Staging through the Canada Lymph Node Project: A Pan-Canadian Multi-Centered Crossover Study

Funding Sources:
Ontario Ministry of Health and Long-Term Care
Innovation Grant
Total Funding - 197,865
Funding Competitive?: Yes

2021/4 - 2022/3
Principal Investigator Organ Preserving Endoscopic Resection and Adjuvant RADIOchemotherapy for esophageal cancer (OPERA RADIO)

Funding Sources:
Manitoba Medical Service Foundation (MMSF)
Operating Grant

<p>2020/7 - 2021/6 Co-investigator</p>	<p>Total Funding - 30,000 Funding Competitive?: Yes Understanding the pathology of vaping associated lung damage in young adults</p>
<p>2018/3 - 2021/3 Principal Investigator</p>	<p>Funding Sources: Canadian Institutes of Health Research (CIHR) Catalyst Grant Total Funding - 100,000 Funding Competitive?: Yes Principal Investigator : Christopher Pascoe</p>
<p>2018/3 - 2021/3 Principal Investigator</p>	<p>Effects of One-Lung Ventilation surgery: a feasibility study Funding Sources: University of Manitoba Surgery GFT Research Grant Total Funding - 15,000 Funding Competitive?: Yes</p>
<p>2018/1 - 2021/1 Co-investigator</p>	<p>Identification of cancer specific metabolic signatures in body fluids of the patients with early stage lung cancer using proton magnetic resonance spectroscopy and mass spectrometry Funding Sources: Cancer Care Manitoba Foundation Cancer Care Manitoba Foundation Total Funding - 120,000 Funding Competitive?: Yes</p>
<p>2018/10 - 2020/10 Principal Applicant</p>	<p>Understanding the mechanisms of harmful VENTilation during surgery: the U-VENT study Funding Sources: Research Manitoba New Investigator Operating Grant Total Funding - 130,000 Funding Competitive?: Yes</p>
<p>2018/4 - 2020/4 Principal Investigator</p>	<p>One Lung Ventilation Pilot Study Funding Sources: University of Manitoba Department of Surgery Total Funding - 15,000 Funding Competitive?: Yes</p>
<p>2019/4 - 2020/3 Co-applicant</p>	<p>Mitophagy and regulations of non-small cell lung cancer Funding Sources: CancerCare Manitoba (CCMB) CCMF Research Operating Grant Total Funding - 120,000 Funding Competitive?: Yes</p>
<p>2017/3 - 2020/3 Principal Applicant</p>	<p>Effects of One-Lung Ventilation on Respiratory Status after Pulmonary Resection: Prospective feasibility study Funding Sources: University of Manitoba Surgery GFT Research Grant Total Funding - 15,000</p>

2019/2 - 2020/2
Co-applicant

Funding Competitive?: Yes

Predicting survival for esophageal cancer patients undergoing curative-intent treatment

Funding Sources:
Canadian Institutes of Health Research (CIHR)
Data Analysis Using Existing Databases and Cohorts- Cancer Prevention and Control management
Total Funding - 100,000
Funding Competitive?: Yes

Publications

Journal Articles

1. Bondi-Simpson A, Ribeiro T, Grant A, Ko M, Coburn N, Hallet J, Kulkarni GS, Kidane B. (2024). Patients with complete clinical response after neoadjuvant chemoradiotherapy for locally advanced esophageal cancer: A Markov decision analysis of esophagectomy versus active surveillance. *J Thorac Cardiovasc Surg.* 168(6): 1538-1549.
Published
2. Kidane B, Kahn moui S, Srinathan S, Liu R, Tan L, Morris M, Shawyer A, Halayko AJ, Pascoe CD. (2024). Lung transcriptome of e-cigarette users reveals changes related to chronic lung disease. *Eus Respir J.* 63(2): 2301623.
Published
3. Ding Y, Yao L, Tan T, Li Q, Shi H, Tian Y, Franssen AJPM, de Loos ER, Al Zaidi M, Cardillo G, Kidane B, Grapatsas K, Wu Q, Zhang C. (2023). Risk assessment for postoperative venous thromboembolism using the modified Caprini risk assessment model in lung cancer. *J Thorac Dis.* 15(6): 3386-3396.
Published
Refereed?: Yes, Open Access?: Yes
4. Alizadeh J, Kavousi M, Singh N, Lorzadeh S, Ravandi A, Kidane B, Ahmed N, Mraiche F, Mowat MR, Ghavami S. (2023). Regulation of Autophagy via Carbohydrate and Lipid Metabolism in Cancer. *Cancers (Basel).* 15(8): 2195.
Published
Refereed?: Yes, Open Access?: Yes
5. Fuentes KMI, Seastedt KP, Kidane B, Servais EL. (2023). Advanced Endoscopy for Thoracic Surgeons. *Thorac Surg Clin.* 33(3): 251-263.
Published
Refereed?: Yes, Open Access?: No
6. Kormish J, Ghuman T, Liu RY, Srinathan SK, Tan L, Graham K, Enns S, Buduhan G, Halayko AJ, Pascoe CD, Kidane B. (2023). Temporal and Spatial Patterns of Inflammation and Tissue Injury in Patients with Postoperative Respiratory Failure after Lung Resection Surgery: A Nested Case-Control Study. *Int J Mol Sci.* 24(12): 10051.
Published
Refereed?: Yes, Open Access?: Yes

- [7.](#) Conen, D; Popova, E; Wang, MK; Chan, MTV; Landoni, G; Reimer, C; Srinathan, SK; Cata, JP; McLean, SR; Reyes, JCT; Grande, AM; Tallada, AG; Sessler, DI; Fleischmann, E; Maziak, DE; Kabon, B; Voltolini, L; Gutiérrez-Soriano, L; Tandon, V; DuMerton, D; Kidane, B; Rajaram, R; Shargall, Y; Neary, J; Wells, JR; McIntyre, WF; Blum, S; Ofori, SN; Vincent, J; Xu, L; Li, Z; Healey, JS; Garg, AX; Devereaux, PJ. (2023). Rationale and design of the colchicine for the prevention of perioperative atrial fibrillation in patients undergoing major noncardiac thoracic surgery (COP-AF) trial. *American Heart Journal*. 0(Feb 7): 0. In Press
Refereed?: Yes, Open Access?: No
- [8.](#) Kidane B, Gerard IJ, Spicer J, Kim JO, Fiset PO, Wawryko P, Cecchini MJ, Inculet R, Abdulkarim B, Fortin D, Qiabi M, Qing G, Enns S, Bashir B, Tankel J, Wakeam E, Warner A, Kopek N, Yaremko BP, Rodrigues GB, Laba JM, Qu M, Malthaner RA, Palma DA. (2023). Stereotactic ablative radiotherapy before resection to avoid delay for early-stage lung cancer or oligometastases during the COVID-19 pandemic: Pathologic outcomes from the SABR-BRIDGE protocol. *Cancer*. 129(18): 2798-2807. Published
Refereed?: Yes, Open Access?: Yes
- [9.](#) Kidane B, Bott M, Spicer J, Backhus L, Chافت J, Chudgar N, Colson Y, D'Amico TA, David E, Lee J, Najmeh S, Sepesi B, Shu C, Yang J, Swanson S, Stiles B. Expert Consensus Panel. (2023). The American Association for Thoracic Surgery (AATS) 2023 Expert Consensus Document: Staging and multidisciplinary management of patients with early-stage non-small cell lung cancer. *J Thorac Cardiovasc Surg*. 166(3): 637-654. Published
Refereed?: Yes, Open Access?: No
- [10.](#) Cheng JC, Buduhan G, Venkataraman S, Tan L, Sasaki D, Bashir B, Ahmed N, Kidane B, Sivananthan G, Koul R, Leylek A, Butler J, McCurdy B, Wong R, Kim JO. (2023). Endobronchially Implanted Real-Time Electromagnetic Transponder Beacon-Guided, Respiratory-Gated SABR for Moving Lung Tumors: A Prospective Phase 1/2 Cohort Study. *Adv Radiat Oncol*. 8(5): 101243. Published
Refereed?: Yes, Open Access?: Yes
- [11.](#) Hallet J, Sutradhar R, Jerath A, d'Empaire PP, Carrier FM, Turgeon AF, Mclsaac DI, Idestrup C, Lorello G, Flexman A, Kidane B, Kaliwal Y, Chan WC, Barabash V, Coburn N, Eskander A. (2023). Association Between Familiarity of the Surgeon-Anesthesiologist Dyad and Postoperative Patient Outcomes for Complex Gastrointestinal Cancer Surgery. *JAMA Surgery*. 158(5): 465-473. Published
Refereed?: Yes, Open Access?: No
- [12.](#) Hallet J, Jerath A, Perez d'Empaire P, Eskander A, Carrier FM, Mclsaac DI, Turgeon AF, Idestrup C, Flexman AM, Lorello G, Darling G, Kidane B, Kaliwal Y, Barabash V, Coburn N, Sutradhar R. (2023). The Association Between Hospital High-volume Anesthesiology Care and Patient Outcomes for Complex Gastrointestinal Cancer Surgery: A Population-based Study. *Ann Surg*. 278(3): e503-e510. Published
Refereed?: Yes, Open Access?: No
- [13.](#) Hallet, J; Sutradhar, R; Eskander, A; Carrier, FM; Mclsaac, D; Turgeon, A; d'Empaire, PP; Idestrup, C; Flexman, A; Lorello, GMD; Darling, Gail MD; Kidane, B; Kaliwal, Y; Barabash, V; Coburn, N; Jerath, A. (2023). Variation in Anesthesiology Provider-Volume for Complex Gastrointestinal Cancer Surgery: A Population-Based Study. *Annals of Surgery*. 10.1097/SLA.000000000: 0. Published
Refereed?: Yes, Open Access?: No

- [14.](#) Ahmed, N; Kidane, B; Wan, L; Nugent, Z; Moldovan, N; McElrea, A; Shariati-Ievari, S; Qing, G; Tan, LT; Buduhan, G; Srinathan, SS. (2022). Metabolic Changes in Sputum and Exhaled Breath Condensate of Non-small Cell Lung Cancer Patients after Surgical Resection. *Journal of Thoracic Oncology*.17(9): S579. Published
Refereed?: Yes, Open Access?: No
15. Hongru Ren, Andrew Walkty, Biniam Kidane. (2022). Empyème pulmonaire chez un patient schizophrène ayant une mauvaise dentition. *CMAJ*. 194(5): 181-182. Published
Refereed?: Yes, Open Access?: Yes
16. Simon R Turner, Jennifer D Artz, Gail E Darling , Laura L Donahoe, Biniam Kidane, Andrew J E Seely, Rahim H Valji, Madelaine Plourde Canadian Association of Thoracic Surgeons Equity, Diversity and Inclusion Task Force. (2022). Diversity in National Society Leadership and Podium Speakers in Cardiothoracic Surgery. *Ann Thorac Surg*.Feb 17((22)00199): S0003-4975. Published
17. Legatto T, Taylor VH, Kidane B, Anvari M, Hensel JM. (2022). The Impact of Psychiatric History and Perioperative Psychological Distress on Weight Loss Outcomes 1 Year After Bariatric Surgery. *Obes Surg*. 32(2): 325-333. Published
- [18.](#) Hirpara, DH; Kidane, B; Louie, AV; Zuk, V; Darling, G; Rousseau, M; Chesney, T; Coburn, N; Hallet, J. (2022). Long-Term Dependency in Older Adults after Surgery or Stereotactic Body Radiation Therapy for Stage I Non-Small Cell Lung Cancer. *Annals of Surgery*.2022(Aug 15): 10-97. Published
Refereed?: Yes, Open Access?: No
- [19.](#) Bruinooge, AJ; Mao, R; Gottschalk, TH; Srinathan, SK; Buduhan, G; Tan, L; Halayko, AJ; Kidane, B. (2022). Identifying biomarkers of ventilator induced lung injury during one-lung ventilation surgery: a scoping review. *Journal of Thoracic Disease*. 14(11): 4506-20. Published
Refereed?: Yes, Open Access?: Yes
- [20.](#) Hirpara, DH; Coburn, N; Darling, G; Kidane, B; Rousseau, M; Gupta, V; Doherty, M; Zuk, V; Delibasic, V; Chan, W; Hallet, J. (2022). Symptom assessment following surgery for lung cancer: a Canadian population-based retrospective cohort study. *Annals of Surgery*.277(2): e428-438. Published
Refereed?: Yes, Open Access?: No
21. Kidane, B; Gowing, S; Richard Liu, R; Srinathan, S; Tan, L. (2022). Point-of-care ultrasound-guided percutaneous biopsy of solid masses in the thoracic outpatient clinic: a safe, high-yield procedure to accelerate tissue diagnosis for patients with advanced thoracic malignancy. *CANADIAN ASSOCIATION OF THORACIC SURGEONS*. 20: 0. Refereed?: No, Open Access?: Yes
- [22.](#) NIHR Global Health Unit of Global Surgery; COVIDSurg Collaborative. (2022). Elective surgery system strengthening: development, measurement, and validation of the surgical preparedness index across 1632 hospitals in 119 countries. *The Lancet*. 400(10363): 1607-1617. Published
Refereed?: Yes, Open Access?: Yes
- [23.](#) Peel, JK; Funk, DJ; Slinger, P; Srinathan, S; Kidane, B. (2022). Tidal volume during 1-lung ventilation: A systematic review and meta-analysis. *The Journal of Thoracic and Cardiovascular Surgery*.163(4): 1573-85. Published
Refereed?: Yes, Open Access?: No

24. Ritzenthaler JD, Torres-Gonzalez E, Zheng Y, Zelko IN, Van Berkel V, Nunley DR, Kidane B, Halayko AJ, Summer R, Watson WH, Roman J. (2022). The pro-fibrotic and senescence phenotype of old lung fibroblasts is reversed or ameliorated by genetic and pharmacological manipulation of Slc7a11 expression. *Am J Physiol Lung Cell Mol Physiol*. NA: NA.
Published
Refereed?: Yes, Open Access?: No
25. Buduhan G, Chand E, Kidane B, Srinathan S, Tan L, Liu R. (2022). Impact of cost-awareness education and surgeon-led positive deviance on intraoperative costs of thoracoscopic lobectomy. *The Journal of Thoracic and Cardiovascular Surgery*. Sep 17: 0.
Published
Refereed?: Yes, Open Access?: No
26. Kamarajah, SK; Evans, RP; Nepogodiev, D; Hodson, J; Bundred, JR; Gockel, I; Gossage, JA; Isik, A; Kidane, B; Mahendran, HA; Negoi, I. (2022). The influence of anastomotic techniques on postoperative anastomotic complications: Results of the Oesophago-Gastric Anastomosis Audit. *The Journal of Thoracic and Cardiovascular Surgery*. 164(3): 674-84.
Published
Refereed?: Yes, Open Access?: No
27. Tan, V; Tjong, M; Chan, W; Yan, M; Delibasic, V; Darling, G; Davis, L; Doherty, M; Hallet, J; Kidane, B; Mahar, A. (2022). Pain and Interventions in Stage IV Non-Small Cell Lung Cancer: A Province-Wide Analysis. *Radiotherapy and Oncology*. 174: S33.
Published
Refereed?: No, Open Access?: No
28. Hasan, SM; Buduhan, G; Liu, R; Tan, L; Srinathan, S; Kidane, B. (2022). SHOULD PERORAL ENDOSCOPIC MYOTOMY BE THE PREFERRED TREATMENT FOR PATIENTS WITH SYMPTOMATIC ZENKER'S DIVERTICULUM?. *Gastroenterology*. 162(7): S-468.
Published
Refereed?: Yes, Open Access?: No
29. Yan, M; Tjong, MC; Chan, WC; Darling, G; Delibasic, V; Davis, LE; Doherty, M; Hallet, J; Kidane, B; Mahar, A; Mittmann, N. (2022). Dyspnea in Patients with Stage IV Non-Small Cell Lung Cancer: A Population-Based Analysis of Disease Burden and Patterns of Care. *International Journal of Radiation Oncology, Biology, Physics*. 114(3): e397-8.
Published
Refereed?: Yes, Open Access?: Yes
30. Harrison, L; Mahar, A; Coburn, N; Boyes, R; Pugliese, M; Compton, C; Darling, G; Davis, L; Decker, K; Gupta, V; Kidane, B. (2022). Development of a Prediction Model for Survival Time in Esophageal Cancer Patients Treated with Resection. *International Journal of Population Data Science*. 7(3): 2097.
Published
Refereed?: Yes, Open Access?: No
31. Oesophago-Gastric Anastomotic Audit (OGAA) Collaborative ; Kamarajah, SK; Evans, RP; Nepogodiev, D; Hodson, J; Bundred, JR; Gockel, I; Gossage, JA; Isik, A; Kidane, B; Mahendran, HA. (2022). Textbook outcome following oesophagectomy for cancer: international cohort study. *British Journal of Surgery*. 109(5): 439-49.
Published
Refereed?: Yes, Open Access?: No
32. Kidane B, Spicer J, Kim JO, Gerard IJ, Abdulkarim B, Fiset PO, Cecchini MJ, Malthaner RA, Inculet RI, Wakeam E, Fortin D. (2022). Stereotactic Ablative Radiotherapy Before Resection to Avoid Delay for Early-Stage Lung Cancer or Oligometastases. *Frontiers in Oncology*. 17(9): S20.
Published
Refereed?: Yes, Open Access?: No

- [33.](#) Hallet J, Rousseau M, Gupta V, Hirpara D, Zhao H, Coburn N, Darling G, Kidane B; and members of the REcovery after Surgical Therapy for Older adults Research – Cancer (RESTORE-Cancer) group. (2022). Long-Term Functional Outcomes Among Older Adults Undergoing Video-Assisted Versus Open Surgery for Lung Cancer: A Population-Based Cohort Study. *Ann Surg.* Jan(21): NA.
Published
Refereed?: Yes, Open Access?: No
34. Turner SR, Artz J, Darling GE, Donahoe LL, Kidane B, Seely AJE, Valji RH, Plourde M. (2022). Diversity in National Society Leadership and Podium Speakers in Cardiothoracic Surgery. *Ann Thorac Surg.* NA(22): NA.
Published
- [35.](#) Kim JO, Balshaw R, Trevena C, Banerji S, Murphy L, Dawe D, Tan L, Srinathan S, Buduhan G, Kidane B, Qing G, Domaratzki M, Aliani M. (2022). Data-driven identification of plasma metabolite clusters and metabolites of interest for potential detection of early-stage non-small cell lung cancer cases versus cancer-free controls. *Cancer Metab.*10(1): 16.
Published
Refereed?: Yes, Open Access?: Yes
- [36.](#) Yang, W;Xing, X; Yeung, SJ; Wang, S; Chen, W; Bao, Y; Wang, F; Feng, S; Peng, F; Wang, X; Chen, S; He, M; Zhang, N; Wang,H; Zeng, B; Liu, Z; Kidane, B; Seder, CW; Koyanagi, K; Shargall, Y; Luo, H; Peng, S; Cheng, C. (2022). Neoadjuvant programmed cell death 1 blockade combined with chemotherapy for resectable esophageal squamous cell carcinoma. *Journal for immunotherapy of cancer.*10(1): NA.
Published
Refereed?: Yes, Open Access?: Yes
37. Michael Domaratzki. (2022). Deus ex machina? Demystifying rather than deifying machine learning. *J Thorac Cardiovasc Surg.* 163(3): 1131-1137.
Published
Refereed?: Yes, Open Access?: Yes
- [38.](#) Gupta, V; Kidane, B. (2022). Commentary: Are we confident in abandoning P values, or is this just the interval?. *The Journal of Thoracic and Cardiovascular Surgery.*164(1): e41-2.
Published
Refereed?: Yes, Open Access?: Yes
39. Hallet, J; Jerath, A; d'Empaire, PP; Eskander, A; Carrier, FM; Mclsaac, DI; Turgeon, AF; Idestrup, C; Flexman, AM; Lorello, G; Darling, G. (2022). The Association between Hospital High-volume Anesthesiology Care and Patient Outcomes for Complex Gastrointestinal Cancer Surgery: A Population-based Study. *Annals of Surgery.* Oct 27: 10-97.
Published
- [40.](#) Cheng, JC; Buduhan, G; Venkataraman, S; Bashir, BM; Ahmed, N; Tan, L; Kidane, B; Sasaki, DK; Rathod, S; Sivananthan, G; Koul, R. (2022). Endobronchial Implanted Real-Time Radiofrequency (RF) Transponder Beacon Guided, Respiratory-Gated, Stereotactic Body Radiotherapy for Moving Lung Tumors: Interim Analysis of a Prospective Phase I/II Cohort Study. *International Journal of Radiation Oncology, Biology, Physics.*114(3): e369.
Published
Refereed?: Yes, Open Access?: No
- [41.](#) Pascoe CD, Jha A, Ryu MH, Ragheb M, Vaghasiya J, Basu S, Stelmack GL, Srinathan S, Kidane B, Kindrachuk J, O'Byrne PM, Gauvreau GM, Ravandi A, Carlsten C, Halayko AJ. (2021). Allergen inhalation generates pro-inflammatory oxidised phosphatidylcholine associated with airway dysfunction. *Eur Respir J.* 57(2): 2000839.
Published

42. Sullivan KA, Farrokhyar F, Leontiadis GI, Patel YS, Churchill IF, Hylton DA, Xie F, Seely AJE, Spicer J, Kidane B, Turner SR, Yasufuku K, Hanna WC. (2021). Routine systematic sampling versus targeted sampling during endobronchial ultrasound: A randomized feasibility trial. *J Thorac Cardiovasc Surg.* 21: NA. Published
43. Darling GE, Sulman J, Espin-Garcia O, Trudel JG, Atenafu EG, Kidane B. (2021). Does it matter how we evaluate HRQOL? Longitudinal comparison of the EORTC QLQ-C30/QLQ-OG25 and FACT-E. *J Cancer Surviv.* 15(4): 641-650. Published
44. Giles AE, Kidane B, Schellenberg M, Ball CG. (2021). The Primary Spontaneous Pneumothorax trial: A critical appraisal from the surgeon's perspective. *J Thorac Cardiovasc Surg.* 162(5): 1428-1432. Published
45. Liu R, Wess A, Kidane B, Srinathan S, Tan L, Buduhan G. (2021). A simple "passive awareness" intervention to decrease the cost of thoracoscopic lobectomy. *Updates Surg.* 73(6): 2369-2374. Published
46. Goldberg E, Ilevari-Shariati S, Kidane B, Kim J, Banerji S, Qing G, Srinathan S, Murphy L, Aliani M. (2021). Comparative metabolomics studies of blood collected in Streck and heparin tubes from lung cancer patients. *PLoS One.* 16(4): NA. Published
47. Hirpara DH, Coburn NG, Darling GE, Kidane B, Hallet J. (2021). Response to the Comment on "Symptom Assessment Following Surgery for Lung Cancer: A Canadian Population-based Retrospective Cohort Study". *Ann Surg.* 274(6): 934-935. Published
48. Ren H, Walkty A, Kidane B. (2021). Pulmonary empyema in a patient with schizophrenia and poor dentition. *CMAJ.* 193(44): NA. Published
- [49.](#) Glasbey JC, Nepogodiev D, Simoes JFF, Omar O, Li E, Venn ML, Pgdme, Abou Char MK, Capizzi V, Chaudhry D, Desai A, Edwards JG, Evans JP, Fiore M, Videria JF, Ford SJ, Ganly I, Griffiths EA, Gujjuri RR, Kolias AG, Kaafarani HMA, Minaya-Bravo A, McKay SC, Mohan HM, Roberts KJ, San Miguel-Méndez C, Pockney P, Shaw R, Smart NJ, Stewart GD, Sundar Mrcog S, Vidya R, Bhangu AA COVIDSurg Collaborative. (2021). Elective Cancer Surgery in COVID-19-Free Surgical Pathways During the SARS-CoV-2 Pandemic: An International, Multicenter, Comparative Cohort Study. *J Clin Oncol.* 39(1): 66-78. Published
Refereed?: Yes, Open Access?: Yes
50. Tjong MC, Doherty M, Tan H, Chan WC, Zhao H, Hallet J, Darling G, Kidane B, Wright FC, Mahar A, Davis LE, Delibasic V, Parmar A, Mittmann N, Coburn NG, Louie AV. (2021). Province-Wide Analysis of Patient-Reported Outcomes for Stage IV Non-Small Cell Lung Cancer. *Oncologist.* 26(10): 1800-1811. Published
51. Kidane B, Higgins S, Hirpara DH, Kaaki S, Shen YC, Allison F, Waddell TK, Darling GE. (2021). From Emergency Department Visit to Readmission After Esophagectomy: Analysis of Burden and Risk Factors. *Ann Thorac Surg.* 112(2): 379-386. Published
52. Peymani P, Dehesh T, Aligolighasemabadi F, Sadeghdoust M, Kottis K, Ahmadi M, Mehrbod P, Iranpour P, Dastghaib S, Nasimian A, Ravandi A, Kidane B, Ahmed N, Sharma P, Shojaei S, Bagheri Lankarani K, Madej A, Rezaei N, Madrakian T, Los MJ, Labouta HI, Mokarram P, Ghavami S. (2021). Statins in patients with COVID-19: a retrospective cohort study in Iranian COVID-19 patients. *Transl Med Commun.* 1(6): NA. Published
53. Giles AE, Kidane B. (2021). Commentary: Toward precision surgery: Advances in defining sublobar resection candidacy. *J Thorac Cardiovasc Surg.* NA(21): NA. Published

54. Kidane B, Wakeam E, Meguid RA, Odell DD. (2021). Administrative and clinical databases: General thoracic surgery perspective on approaches and pitfalls. *J Thorac Cardiovasc Surg.* 162(4): 1146-1153. Published
55. Duan H, Wang T, Luo Z, Wang X, Liu H, Tong L, Dong X, Zhang Y, Valmasoni M, Kidane B, Almhanna K, Wiesel O, Pang S, Ma J, Yan X. (2021). A multicenter single-arm trial of sintilimab in combination with chemotherapy for neoadjuvant treatment of resectable esophageal cancer (SIN-ICE study). *Ann Transl Med.* 9(22): NA. Published
56. Giffin C, Kidane B. (2021). Commentary: Less is maybe more: Sublobar resection in screen-detected lung cancers. *J Thorac Cardiovasc Surg.* NA(21): NA. Published
57. Giles AE, Teferi Y, Kidane B, Bayaraa B, Tan L, Buduhan G, Srinathan S. (2021). Lung Resection Without Tissue Diagnosis: A Pragmatic Perspective on the Indeterminate Pulmonary Nodule. *Clin Lung Cancer.* 22(5): 774-781. Published
58. Luc JGY, Archer MA, Arora RC, Bender EM, Blitz A, Cooke DT, Hlci TN, Kidane B, Ouzounian M, Varghese TK Jr, Antonoff MB. (2021). Does Tweeting Improve Citations? One-Year Results From the TSSMN Prospective Randomized Trial. *Ann Thorac Surg.* 111(1): 296-300. Published
59. Ahmed N, Kidane B, Wang L, Nugent Z, Moldovan N, McElrea A, Shariati-Ilevari S, Qing G, Tan L, Buduhan G, Srinathan SK, Aliani M. (2021). Metabolic Changes in Early-Stage Non-Small Cell Lung Cancer Patients after Surgical Resection. *Cancers (Basel).* 13(12): NA. Published
60. Chen C, Flores R, Kidane B, Hamaji M, Guo X. (2021). Application of low anterior mediastinal tracheostomy for locally advanced cervicothoracic esophageal cancer undergoing total laryngopharyngoesophagectomy: a case report. *J Gastrointest Oncol.* 12(6): 3107-3114. Published
61. Kidane B, Levin DP. (2021). Identification and Resolution of Asymptomatic COVID-19 Pneumonitis and Colitis: Serial Assessment of Fluorodeoxyglucose Positron Emission Tomography-Computed Tomography for Evaluation of Lung Cancer. *J Thorac Oncol.* 16(1): NA. Published
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65. Davis LE, Gupta V, Allen-Avodabo C, Zhao H, Hallet J, Mahar AL, Ringash J, Doherty M, Kidane B, Darling G, Coburn NG. (2020). Patient-reported symptoms following diagnosis in esophagus cancer patients treated with palliative intent. *Diseases of the Esophagus.* 108: 10.1093/dote/doz108. Published
Refereed?: Yes, Open Access?: No

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Refereed?: Yes, Open Access?: No
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Published
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Published
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Published
Refereed?: Yes, Open Access?: No
75. Liu R, Kidane B. (2019). Commentary: Detection is only part of the equation-Does elevated risk alone warrant screening?. *Journal of Thoracic Cardiovascular Surgery.* 4(158): 1255-1256.
Published
Refereed?: Yes, Open Access?: No

76. Liu R, Kidane B. (2019). Esophagectomy Surgical Apgar Score: One Size Fits All?. *Seminars in Thoracic Cardiovascular Surgery*. 3(31): 581-582.
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77. Gupta V, Allen-Ayodabo C, Davis L, Zhao H, Hallet J, Mahar AL, Ringash J, Kidane B, Darling G, Coburn NG. (2019). Patient-Reported Symptoms for Esophageal Cancer Patients Undergoing Curative Intent Treatment. *Annals of Thoracic Surgery*. 19: 10.1016/j.athoracsur.
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78. Kidane B, Korst RJ, Weksler B, Farrell A, Darling GE, Martin LW, Reddy R, Sarkaria IS. (2019). Neoadjuvant Therapy Vs Upfront Surgery for Clinical T2N0 Esophageal Cancer: A Systematic Review. *Annals of Thoracic Surgery*. 3(108): 935-944.
Published
Refereed?: Yes, Open Access?: No
79. Hirpara DH, Gupta V, Brown L, Kidane B. (2019). Patient-reported outcomes in lung and esophageal cancer. *Journal of Thoracic Disease*. 4: 509-514.
Published
Refereed?: Yes, Open Access?: No
80. Ahmed N, Kidane B, Wang L, Qing G, Tan L, Buduhan G, Srinathan S, Aliani M. (2019). Non-invasive exploration of metabolic profile of lung cancer with Magnetic Resonance Spectroscopy and Mass Spectrometry. *Contemporary Clinical Trials Communications*. 16: 10.1016/j.conctc.2019.
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81. Giles AE, LeBlanc N, Kidane B. (2019). Commentary: Minimally invasive versus open thymectomy for stage I to III thymoma-Big incision, small difference?. *Journal of Thoracic Cardiovascular Surgery*. 19: 10.1016/j.jtcvs.2019.
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Refereed?: Yes, Open Access?: No
82. Alghamedi A, Buduhan G, Tan L, Srinathan SK, Sulman J, Darling G, Kidane B. (2018). Quality of life assessment in esophagectomy patients. *Ann Transl Med*. 6(4): 84.
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- [84.](#) Devereaux PJ, Ducepe E, Guyatt G, Tandon V, Rodseth R, Biccard BM, Xavier D, Szczeklik W, Meyhoff CS, Vincent J, Franzosi MG, Srinathan SK, Erb J, Magloire P, Neary J, Rao M, Rahate PV, Chaudhry NK, Mayosi B, de Nadal M, Iglesias PP, Berwanger O, Villar JC, Botto F, Eikelboom JW, Sessler DI, Kearon C, Pettit S, Sharma M, Connolly SJ, Bangdiwala SI, Rao-Melacini P, Hoefft A, Yusuf S; MANAGE Investigators. (2018). Dabigatran in patients with myocardial injury after non-cardiac surgery (MANAGE): an international, randomised, placebo-controlled trial. *Lancet*. 391(10137): 2325-2334.
Published
Refereed?: Yes, Open Access?: No
85. Kidane B, Pierre AF. (2018). From Open to Bedside Percutaneous Tracheostomy. *Thoracic Surgery Clinics*. 3(28): 263-276.
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Refereed?: Yes, Open Access?: No

86. Hirpara DH, Kidane B, Rogalla P, Cypel M, de Perrot M, Keshavjee S, Pierre A, Waddell T, Yasufuku K, Darling GE. (2018). Frailty assessment prior to thoracic surgery for lung or esophageal cancer: a feasibility study. *Support Care Cancer*.4: 1535-1540.
Published
Refereed?: Yes, Open Access?: No
87. Gupta V, Kidane B. (2018). Comparing oranges and oranges: Unlikely to find a difference in two of the same thing. *Journal of Thoracic Cardiovascular Surgery*. 5(156): 10.1016/j.jtcvs.2018.
Published
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- [88.](#) Biniam Kidane, Stephen Choi, Dalilah Fortin, Turlough O'Hare, George Nicolaou, Neal H Badner, Richard I Inculet, Peter Slinger, Richard A Malthaner. (2018). Use of lung-protective strategies during one-lung ventilation surgery: a multi-institutional survey. *Annals of Translational Medicine*. 6(13): 269.
In Press
Refereed?: Yes
89. Kidane B. (2018). Minor does not mean insignificant: The implications of minor complications. *J Thorac Cardiovasc Surg*. 155(2): 808-809.
Published
Refereed?: Yes
- [90.](#) Kidane B, Jacob B, Gupta V, Peel J, Saskin R, Waddell TK, Darling GE. (2018). Medium and long-term emergency department utilization after oesophagectomy: a population-based analysis. *Eur J Cardiothorac Surg*. xx(xx): xx.
Published
Refereed?: Yes
91. Gupta V, Coburn N, Kidane B, Hess KR, Compton C, Ringash J, Darling G, Mahar AL. (2018). Survival prediction tools for esophageal and gastroesophageal junction cancer: A systematic review. *J Thorac Cardiovasc Surg*. 156(2): 847-856.
Published
Refereed?: Yes
92. Kaaki S, Kidane B, Srinathan S, Tan L, Buduhan G. (2018). Is tissue still the issue? Lobectomy for suspicious lung nodules without confirmation of malignancy. *J Surg Oncol*. 117(5): 977-984.
Published
Refereed?: Yes
93. Kidane B. (2018). Stereotactic body radiation therapy versus video-assisted thoracoscopic surgery in stage I lung cancer: Honesty in the face of uncertainty. *J Thorac Cardiovasc Surg*. 155(1): 365-366.
Published
Refereed?: Yes
94. Kidane B, Ali A, Sulman J, Wong R, Knox JJ, Darling GE. (2018). Health-related quality of life measure distinguishes between low and high clinical T stages in esophageal cancer. *Annals Translational Medicine*. 13(270): 10.21037/atm.2018.06.
Published
Refereed?: Yes, Open Access?: No
95. Kidane B, Palma DC, Badner NH, Hamilton M, Leydier L, Fortin D, Inculet RI, Malthaner RA. (2018). The Potential Dangers of Recruitment Maneuvers During One Lung Ventilation Surgery. *Journal of Surgical Research*. 234: 178-183.
Published

- [96.](#) Kidane B, Lung K, McCreery G, El-Khatib C, Ott MC, Hernandez-Alejandro R, Vinden C, Gray D, Parry NG, Leslie KA, Mele TS. (2018). Early Rescue from Acute Severe Clostridium Difficile: A Novel Treatment Strategy. *Surg Infect.* 19(1): 78-82.
Published
Refereed?: Yes

Book Chapters

1. Simone C. da Silva Rosa , Javad Alizadeh, Rui Vitorino, Arun Surendran, Amir Ravandi, Biniam Kidane, and Saeid Ghavami. (2024). A Lipidomics Approach to Determine the Role of Lipids and Its Crosstalk with Autophagy in Lung Cancer Metastasis. John M. Walker. *Methods in Molecular Biology.* : 1-22.
Published, Springer Nature, United States of America
2. Kidane B, De Rouet M, Darling GE. (2018). Carcinoma of the Esophagus. LoCicero J, Feins RH, Colson YL, Rocco G. *Shield's General Thoracic Surgery.* 8
Published, Wolters Kluwer, United States of America

Conference Publications

1. Kidane, B; Aftab, AU; Srinathan, S; Buduhan, G; Tan, L; Poole, E; Domaratzki, M. MACHINE LEARNING TO ELUCIDATE THE IMPACT OF INTRA-OPERATIVE VARIABLES ON THORACIC SURGERY OUTCOMES. 56th Annual Meeting of the Society of Thoracic Surgeons, New Orleans, United States of America
Conference Date: 2020/1
Paper
Refereed?: Yes, Invited?: No

Presentations

1. Giffin C Kidane B. (2023). Exploring Inflammation in Lung Surgery: A Porcine Model of One Lung Ventilation. Department of Surgery Annual Research Month January 11, 2023 (Remote), Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No
2. (2022). Understanding and mitigating the inflammatory consequences of one-lung ventilation during lung surgery. Centre for Heart Lung Innovation, Faculty of Medicine, University of British Columbia, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
3. (2021). You Can't Kill What You Can't See: Optimizing Lung Cancer Diagnosis and Staging. Lung Cancer Educational Program - Virtual Event, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
4. Plourde M Ellis B Manji F Chadi SA Fortin D Inculet RI Malthaner RA. (2013). Use of intra-operative steroids is associated with reduced major respiratory complications after pneumonectomy. Canadian Surgery Forum, Canada
Main Audience: Knowledge User
Invited?: No, Keynote?: No
5. Choi S Fortin D O'Hare T Nicolaou G Badner N Inculet RI Slinger P Malthaner RA. (2013). Are We Focusing On the Right Thing During One-Lung Ventilation?: A Multi-Centre Surgery Of Academic Anesthesiologists. 29th Annual Meeting of the Society for Thoracic Surgeons, United States of America
Main Audience: Knowledge User
Invited?: No, Keynote?: No

Knowledge and Technology Translation

2017/11 Member, Standards Development

Student/Postdoctoral Supervision

Bachelor's [n=8]

2024/5 - 2025/8
Principal Supervisor Evan Gauvin, University of Manitoba
Thesis/Project Title: Reducing Inflammation During Lung Surgery and Anesthesia to Reduce Development of Complications
Present Position: BSc Med Student

2024/5 - 2025/8
Principal Supervisor Aisha Ali, University of Manitoba
Thesis/Project Title: Are Patient-Reported Outcomes Better Predictors of Survival in Patients with Esophageal Cancer than Current Clinical Standards?
Present Position: BSc Med Student

2023/5 - 2024/8
Principal Supervisor Divleen Mangat, University of Manitoba
Thesis/Project Title: Inflammatory Effects of One-Lung Ventilation and Lung Protective Ventilation Strategies in a Porcine Animal Model
Present Position: BSc Med Student

2021/5 - 2022/8
Principal Supervisor Cate Giffin, University of Manitoba
Thesis/Project Title: Establishment of a pig model for ventilation induced lung injury.
Present Position: BSc Med Student

2021/5 - 2022/8
Principal Supervisor Charith Karunatilake, University of Manitoba
Thesis/Project Title: One-Lung Ventilation 2- Retrospective Chart Review
Present Position: BSc Med Student

2021/1 - 2021/12
Co-Supervisor Navjit Singh, The University of Manitoba
Thesis/Project Title: Phillip Yaffee Memorial Prize
Present Position: BSc Med Student

2020/5 - 2021/8
Principal Supervisor Madeline Robinson, University of Manitoba
Thesis/Project Title: Organ-Preserving Endoscopic Resection & Adjuvant RADIO-Immuno-Chemotherapy For Esophageal Cancer (OPERA RADIO) - Retrospective Chart Review
Present Position: BSc Med Student

2019/6 - 2020/9
Principal Supervisor Eagan Peters, University of Manitoba
Thesis/Project Title: HRQOL in thoracic surgery and impact on outcomes
Present Position: BSc Med Student

Master's Thesis [n=2]

2023/9 - 2025/12
Principal Supervisor Dagem Chernet, University of Manitoba
Thesis/Project Title: Lung Proteomic Analysis of Patients with Postoperative Respiratory Failure After One-Lung Ventilation Surgery
Present Position: Master's Student

2022/9 - 2023/9
Principal Supervisor Caleb Turon, University of Manitoba
Thesis/Project Title: Investigation of One Lung Ventilation with the Aim to Improve Standard Operation Procedure: A Machine Learning Approach
Present Position: Master's Student

Date Submitted: 2025-01-30 13:40:46

Confirmation Number: 1903254

Template: CIHR Biosketch

Dr. Shantanu Banerji

Correspondence language: English

Sex: Male

Date of Birth: 9/25

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

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Website

Corporate <https://www.cancercare.mb.ca/Research/research-institute-at-cancercare-manitoba/our-scientists>



Protected when completed

Dr. Shantanu Banerji

Degrees

2007/10 - 2011/9	Post-doctorate, Postdoctorate in Cancer Genomics, Dana Farber Cancer Institute Degree Status: Completed
2005/7 - 2007/9	Doctorate, Fellow of the Royal College of Physicians of Canada - Fellow, The University of Manitoba Degree Status: Completed
2002/7 - 2006/6	Doctorate, Fellow of the Royal College of Physicians of Canada - Fellow, The University of Manitoba Degree Status: Completed
1998/8 - 2002/5	Doctorate, Doctor of Medicine - M.D., The University of Manitoba Degree Status: Completed
1999/5 - 2000/8	Bachelor's, Bachelor's of Science, The University of Manitoba Degree Status: Completed
1995/8 - 1998/5	Bachelor's, Bachelor's of Science, The University of Manitoba Degree Status: Completed

Recognitions

2008/7 - 2010/6	International Association for the Study of Lung Cancer Fellowship International Association for the Study of Lung Cancer
2005/1	Dr. Dale Iwanoczko Award in Internal Medicine Department of Internal Medicine, Faculty of Medicine, University of Manitoba
2003/1	University of Manitoba Medicine Teaching Award Faculty of Medicine, University of Manitoba

Employment

2021/6	Co-Chair, Sarcoma Disease Site Committee Sarcoma, Queen's University, Canadian Cancer Clinical Trials Group
2021/4	Associate Professor Internal Medicine, Faculty of Health Sciences, The University of Manitoba
2018/6	Director of Precision Oncology and Advanced Therapeutics Oncology, CancerCare Manitoba, CancerCare Manitoba
2011/9	Senior Scientist Research Institute of Oncology and Hematology, CancerCare Manitoba, CancerCare Manitoba

2011/9	Medical Oncologist Medical Oncology and Hematology, CancerCare Manitoba, CancerCare Manitoba
2011/9 - 2021/3	Assistant Professor Internal Medicine, Rady Faculty of Health Sciences, The University of Manitoba
2007/10 - 2011/8	Research Fellow Cancer Biology, Broad Institute of MIT and Harvard, Broad Institute of MIT and Harvard
2007/10 - 2011/8	Research Fellow Medical Oncology, Harvard University, Dana Farber Cancer Institute
2005/7 - 2007/6	Medical Oncology Resident Medicine, Rady Faculty of Health Sciences, The University of Manitoba
2002/7 - 2005/6	Internal Medicine Resident Medicine, Rady Faculty of Health Sciences, The University of Manitoba

Affiliations

The primary affiliation is denoted by (*)

(*) 2011/9 Associate Professor, The University of Manitoba

Research Funding History

Awarded [n=13]

2022/7 - 2024/6 Principal Investigator	Genome360: Manitoba's Provincial Applied Genomics Platform Funding Sources: CancerCare Manitoba (CCMB) Infrastructure Grant Total Funding - 321,000 Funding Competitive?: No
2023/7 - 2024/6 Principal Applicant	Terry Fox Prairie Consortium Matched Funding Year 3 Funding Sources: CancerCare Manitoba (CCMB) Infrastructure Grant Total Funding - 150,000 Funding Competitive?: Yes
2023/7 - 2024/6 Co-applicant	Targeting the YAP-TEAD pathway in small cell neuroendocrine cancers Funding Sources: CancerCare Manitoba (CCMB) Operating Grant Total Funding - 75,000 Funding Competitive?: Yes
2022/7 - 2024/6 Co-applicant	Deciphering the Oncogenic Role of ZEB2 in B Cell Precursor Acute Lymphocytic Leukemia Funding Sources: CancerCare Manitoba (CCMB) Operating Grant Total Funding - 150,000 Funding Competitive?: Yes

2022/7 - 2023/6 Co-applicant	<p>Organ-Preserving Endoscopic Resection And concurrent Radiation/Immuno-Oncology for esophageal cancer (OPERA RADIO): a pilot study</p> <p>Funding Sources: CancerCare Manitoba (CCMB) Operating Grant Total Funding - 75,000 Funding Competitive?: Yes</p>
2022/7 - 2023/6 Principal Applicant	<p>Terry Fox Prairie Consortium Matched Funding Year 2</p> <p>Funding Sources: CancerCare Manitoba (CCMB) Infrastructure Grant Total Funding - 150,000 Funding Competitive?: No</p>
2018/9 - 2022/8 Collaborator	<p>Early detection of cancer in high-risk patients through profiling of circulating tumor DNA</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) Project Grant Total Funding - 1,977,525 Funding Competitive?: Yes</p> <p>Principal Investigator : Trevor Pugh</p>
2021/7 - 2022/6 Principal Investigator	<p>Genome360: Manitoba's Provincial Applied Genomics Platform</p> <p>Funding Sources: CancerCare Manitoba (CCMB) Infrastructure Grant Total Funding - 135,000 Funding Competitive?: No</p>
2020/6 - 2021/7 Co-applicant	<p>Organ-Preserving Endoscopic Resection And concurrent Radiation/Immuno-Oncology for esophageal cancer (OPERA RADIO): a pilot study</p> <p>Funding Sources: University of Manitoba Operating Grant Total Funding - 15,000 Funding Competitive?: Yes</p>
2020/6 - 2021/6 Co-applicant	<p>Harnessing Population-Based Electronic Health-care Records to Construct Family Health Histories for Accurate Disease Risk Prediction and Heritability Estimation</p> <p>Funding Sources: University of Manitoba Operating Grant Total Funding - 100,000 Funding Competitive?: Yes</p>
2019/6 - 2021/6 Principal Applicant	<p>Genome360 Phase II: Manitoba's Provincial Applied Genomics Enterprise Platform".</p> <p>Funding Sources: Genome Canada RPP Total Funding - 500,000 Funding Competitive?: Yes</p>
2018/7 - 2020/7	<p>Pulling the Plug on Small Cell Lung Cancer</p>

Co-applicant	Funding Sources: CancerCare Manitoba (CCMB) Operating grant Total Funding - 120,000 Funding Competitive?: Yes Co-investigator : Banerji, Versha
2018/7 - 2020/7 Co-investigator	PreOperative Treatment With ChEmotheRapy or ChemoRAdition in EsophaGeal or GastroEsophageal AdenocaRcinoma (POWERRANGER) Funding Sources: CancerCare Manitoba (CCMB) Operating grant Total Funding - 79,508 Funding Competitive?: Yes

Publications

Journal Articles

1. Melosky B, Juergens RA, Banerji S, Sacher A, Wheatley-Price P, Snow S, Tsao MS, Leighl NB, Martins I, Cheema P, Liu G, Chu QSC. (2025). The continually evolving landscape of noveltherapies in oncogene-driven advanced non-small-cell lung cancer. *Ther Adv Med Oncol*.17: 17588359241308784.
Published
Refereed?: Yes
2. Meyers DE, Rittberg R, Dawe DE, Banerji S. (2024). Immunotherapy in Patients with AdvancedNon-Small-Cell Lung Cancer Under-Represented by Clinical Trials. *Curr Oncol*.31(9): 5498-5515.
Published
Refereed?: Yes
3. Barghout SH, Zhan LJ, Raptis S, Al-Agha F, Esfahanian N, Popovacki A, Kasymjanova G, Proulx-Rocray F, Chan SWS, Richardson M, Brown MC, Patel D, Dean ML, Navani V, Moore E, Carvery L, Yan E, Goldshtein D, Cleary-Gosine J, Gibson AJ, Hubley L, Balaratnam K, Ngo T, Gill A, Black M, Sacher A, Bradbury PA, Shepherd FA, Leighl N, Cheema P, Kuruvilla S, Agulnik J, Banerji S, Juergens R, Blais N, Cheung W, Wheatley-Price P, Liu G, Snow S. (2024). Treatment patterns and outcomes in KRASG12C-positiveadvanced NSCLC patients previously treated with immune checkpoint inhibitors: ACanada-wide real-world, multi-center, retrospective cohort study. *Lung Cancer*.194: 107898.
Published
Refereed?: Yes
4. Oberoi S, Garland A, Yan AP, Lambert P, Xue L, Decker K, Israels SJ, Banerji S, Bolton JM, Deleemans JM, Garand-Sheridan B, Louis D, Lix LM, Mahar AL. (2024). Mental Disorders Among Adolescents and YoungAdults With Cancer: A Canadian Population-Based and Sibling Cohort Study. *J Clin Oncol*.42(13): 1509-1519.
Published
Refereed?: Yes
5. Rupp M, Fanton-Aita F, Snow S, Wheatley-Price P, Melosky B, Juergens RA, Chu QY, Blais N, Banerji S, Ng R, Khoudigian S, Sharma A, On PV, Liu GF. (2023). LorlatinibEffectiveness and Quality-of-Life in Patients with ALK-Positive NSCLC Who HadFailed Second-Generation ALK Inhibitors: Canadian Real-World Experience. *Current Oncol*. 30(7): 6559-6574.
Published

6. Ko JJ, Banerji S, Blais N, Brade A, Clelland C, Schellenberg D, Snow S, Wheatley-Price P, Yuan R, Melosky B. (2023). Follow-Up Imaging Guidelines for Patients with Stage III Unresectable NSCLC: Recommendations Based on the PACIFIC Trial. *Current Oncol.* 30(4): 3817-3828.
Published
7. Dawe DE, Rittberg R, Syed I, Shanahan MK, Moldaver D, Bucher O, Galloway K, Reynolds K, Paul JT, Harlos C, Kim JO, Banerji S. (2023). Real-world predictors of survival in patients with limited-stage small-cell lung cancer in Manitoba, Canada. *Front Oncol.* 13: 1191920.
Published
Refereed?: Yes
8. Cheema PK, Banerji S, Blais N, Chu QS, Juergens RA, Leighl NB, Sacher A, Sheffield BS, Snow S, Vincent M, Wheatley-Price PF, Yip S, Melosky BL. (2023). Canadian Consensus Recommendations on the Management of KRAS G12C-Mutated NSCLC. *Current Oncol.* 30(7): 6473-6496.
Published
9. Dawe DE, Rittberg R, Syed I, Shanahan MK, Moldaver D, Bucher O, Galloway K, Reynolds K, Paul JT, Harlos C, Kim JO, Banerji S. (2023). Real-world predictors of survival in patients with extensive-stage small-cell lung cancer in Manitoba, Canada: a retrospective cohort study. *Front Oncol.* 13: 1191855.
Published
Refereed?: Yes
10. Goss GD, Spaans JN, Huntsman D, Asmis T, Andrews Wright NM, Duciaume M, Kaurah P, Miller RR, Banerji S, Sekhon HS, Gomes MM. (2022). Histologic and Genotypic Characterization of Lung Cancer in the Inuit Population of the Eastern Canadian Arctic. *Current Oncol.* 29(5): 3171-3186.
Published
11. Kim JO, Balshaw R, Trevena C, Banerji S, Murphy L, Dawe D, Tan L, Srinathan S, Buduhan G, Kidane B, Qing G, Domaratzki M, Aliani M. (2022). Data-driven identification of plasma metabolite clusters and metabolites of interest for potential detection of early-stage non-small cell lung cancer cases versus cancer-free controls. *Cancer Metab.* 29(7): 4981-4997.
Published
12. Sanusi RA, Yan L, Hamad AF, Ayilara OF, Vasylyk V, Jozani MJ, Banerji S, Delaney J, Hu P, Wall-Wieler E, Lix LM. (2022). Transitions between versions of the International Classification of Diseases and chronic disease prevalence estimates from administrative health data: a population-based study. *BMC Public Health.* 22(1): 701.
Published
13. Ionescu DN, Stockley TL, Banerji S, Couture C, Mather CA, Xu Z, Blais N, Cheema PK, Chu QS, Melosky B, Leighl NB. (2022). Consensus Recommendations to Optimize Testing for New Targetable Alterations in Non-Small Cell Lung Cancer. *Current Oncol.* 29(7): 4981-4997.
Published
14. Mathur S, Prince L, Bucher O, Xue L, Banerji S, Dawe DE. (2022). The impact of the modified frailty index on clinical outcomes for patients with stage IV non-small cell lung cancer receiving chemotherapy. *J Geriatr Oncol.* 13(5): 654-661.
Published
15. Goldberg E, Ievari-Shariati S, Kidane B, Kim J, Banerji S, Qing G, Srinathan S, Murphy L, Aliani M. (2021). Comparative metabolomics studies of blood collected in Streck and heparin tubes from lung cancer patients. *PLoS One.* 16(4): e02469648.
Published
16. Cheema PK, Banerji SO, Blais N, Chu QS, Desmeules P, Juergens RA, Leighl NB, Sheffield BS, Wheatley-Price PF, Melosky BL. (2021). Canadian Consensus Recommendations on the Management of MET-Altered NSCLC. *Current Oncol.* 28(6): 4552-4576.
Published

17. Rittberg R, Banerji S, Kim JO, Rathod S, Dawe DE. (2021). Treatment and Prevention of Brain Metastases in Small Cell Lung Cancer. *Am J Clin Oncol.* 44(12): 629-638.
Published
18. Banerji S, Meyers DE, Harlos C, Dawe DE. (2021). The Role of Immunotherapy in the Treatment of Malignant Pleural Mesothelioma. *Current Oncol.* 28(6): 4542-4551.
Published
19. Simmons C, Deyell RJ, MacNeill AJ, Vera-Badillo FE, Smrke A, Razak AR, Banerji S, McLeod D, Noujaim J. (2021). Canadian consensus on TRK-inhibitor therapy for NTRK fusion-positive sarcoma. *Int J Cancer.* 149(9): 4552-4576.
Published
20. Hamad AF, Vasyukiv V, Yan L, Sanusi R, Ayilara O, Delaney JA, Wall-Wieler E, Jozani MJ, Hu P, Banerji S, Lix LM. (2021). Mapping three versions of the international classification of diseases to categories of chronic conditions. *Int J Popul Data Sci.* 6(1): 1406.
Published
21. Illini O, Hochmair MJ, Fabikan H, Weinlinger C, Tufman A, Swalduz A, Lamberg K, Hashemi SMS, Huemer F, Vikström A, Wermke M, Absenger G, Addeo A, Banerji S, Calles A, Clarke S, Di Maio M, Durand A, Duruisseaux M, Itchins M, Kääränen OS, Krenn F, Laack E, de Langen AJ, Mohorcic K, Pall G, Passaro A, Prager G, Rittmeyer A, Rothenstein J, Schumacher M, Wöll E, Valipour A. (2021). Selpercatinib in RET fusion-positive non-small-cell lung cancer (SIREN): a retrospective analysis of patients treated through an access program. *Ther Adv Med Oncol.* 13: 17588359211019675.
Published
22. Bebb DG, Banerji S, Blais N, Desmeules P, Gill S, Grin A, Feilotter H, Hansen AR, Hyrcza M, Krzyzanowska M, Melosky B, Noujaim J, Purgina B, Ruether D, Simmons CE, Soulieres D, Torlakovic EE, Tsao MS. (2021). Canadian Consensus for Biomarker Testing and Treatment of TRK Fusion Cancer in Adults. *Current Oncol.* 28(1): 523-548.
Published
23. Cheema PK, Gomes M, Banerji S, Joubert P, Leighl NB, Melosky B, Sheffield BS, Stockley T, Ionescu DN. (2020). Consensus recommendations for optimizing biomarker testing to identify and treat advanced EGFR-mutated non-small-cell lung cancer. *Current Oncol.* 27(6): 321-329.
Published
24. Rittberg R, Banerji S, Green S, Qing GF, Dawe, DE. (2020). Immunotherapy Benefit in a Patient with Non-Small Cell Lung Cancer and a Rare *BRAF* Mutation. *Cureus.* 12(10): e11224.
Published
25. Oberoi S, Yang JY, Woodgate RL, Niraula S, Banerji S, Israels SJ, Altman G, Beattie S, Rabbani R, Askin N, Gupta A, Sung LL, Abou-Setta, AM, Zarychanski R. (2020). Association of Mindfulness-Based Interventions With Anxiety Severity in Adults With Cancer: A Systematic Review and Meta-analysis. *JAMA Netw Open.* 3(8): e2012598.
Published
26. Meyers D and Banerji S. (2020). Biomarkers of immune checkpoint inhibitor efficacy in cancer. *Current Oncol.* 27(Suppl 2): s106-s114.
Published
27. Melosky B, Banerji S, Blais N, Chu Q, Juergens R, Leighl NB, Liu G, Cheema P. (2020). Canadian consensus: a new systemic treatment algorithm for advanced *EGFR*-mutated non-small-cell lung cancer. *Current Oncol.* 27(2): e146-e155.
Published
28. 19. Rittberg R, Green S, Aquin T, Bucher O, Banerji S, Dawe, DE. (2020). Effect of Hospitalization During First Chemotherapy and Performance Status on Small-cell Lung Cancer Outcomes. *Clin Lung Cancer.* 21(5): e388-e404.
Published

29. Bebb DG , Agulnik J , Albadine R , Banerji S , Bigras G , Butts C , Couture C , Cutz JC , Desmeules P , Ionescu DN , Leighl NB , Melosky B , Morzycki W , Rashid-Kolvear F , Lab C , Sekhon HS , Smith AC , Stockley TL , Torlakovic E , Xu Z , Tsao MS. (2019). Crizotinib inhibition of *ROS1*-positive tumours in advanced non-small-cell lung cancer: a Canadian perspective.. *Current oncology (Toronto, Ont.)*. 26(4): e551-e557.
Published
Refereed?: Yes, Open Access?: Yes
30. Yip S, Christofides A, Banerji S, Downes MR, Izevbaye I, Lo B, MacMillan A, McCuaig J, Stockley T, Yousef GM, Spatz A. (2019). A Canadian guideline on the use of next-generation sequencing in oncology.*Curr Oncol*.26(2): 241-254. , Open Access?: Yes
31. Laurie SA, Banerji S, Blais N, Brule S, Cheema PK, Cheung P, Daaboul N, Hao D, Hirsh V, Juergens R, Laskin J, Leighl N, MacRae R, Nicholas G, Roberge D, Rothenstein J, Stewart DJ, Tsao MS. (2019). Canadian consensus: oligoprogressive, pseudoprogressive, and oligometastatic non-small-cell lung cancer.*Curr Oncol*. 26(1): 81-93.
Published, Open Access?: Yes
32. Bebb DG, Agulnik J, Albadine R, Banerji S, Bigras G, Butts C, Couture C, Cutz JC, Desmeules P, Ionescu DN, Leighl NB, Melosky B, Morzycki W, Rashid-Kolvear F, Lab C, Sekhon HS, Smith AC, Stockley TL, Torlakovic E, Xu Z, Tsao MS. (2019). Crizotinib inhibition of *ROS1*-positive tumours in advanced non-small-cell lung cancer: a Canadian perspective.. *Current Oncol*. 26(4): 551-557.
33. 25. MacArthur IR, McInnes CW, Dalke KR, Akra M, Banerji S, Buchel EW, Hayakawa TJ. (2019). Patient Reported Outcomes Following Lower Extremity Soft Tissue Sarcoma Resection with Microsurgical Preservation of Ambulation.*J Reconstr Microsurg*.35(3): 168-175.
Published
34. Meyers DE, Bryan PM, Banerji S, Morris DG. (2018). Targeting the PD-1/PD-L1 axis for the treatment of non-small-cell lung cancer.*Curr Oncol*. 25(4): 324-334.
Published, Open Access?: Yes
35. MacArthur IR, McInnes CW, Dalke KR, Akra M, Banerji S, Buchel EW, Hayakawa TJ. (2018). Patient Reported Outcomes Following Lower Extremity Soft Tissue Sarcoma Resection with Microsurgical Preservation of Ambulation.*J Reconstr Microsurg*. 35(3): 168-175.
Published, Open Access?: No
36. Grocholski S, Banerji S, Qing G, Dawe DE. (2018). Benefit of crizotinib in a lung cancer patient with discordant ALK testing results.*Cancer Treat Res Commun*.15: 13-16.
Published, Open Access?: No
37. Grant L , Banerji S , Murphy L , Dawe DE , Harlos C , Myal Y , Nugent Z , Blanchard A , Penner CR , Qing G , Pitz MW. (2018). Androgen Receptor and Ki67 Expression and Survival Outcomes in Non-small Cell Lung Cancer.*Hormones & cancer*. 9(4): 288-294.
Published

Conference Publications

1. M Gomes, D Huntsman, J Spaans, T Asmis, R Miller, H Sekhon, S Banerji, M Duciaume, N Andrews Wright, G Goss. Histological and Genomic Characterization of Lung Cancers in the Inuit Population of the Eastern Canadian Arctic. Canadian Cancer Research Conference, Canada
Poster
2. C Peltier, E McMillan-Ward, E Henson, N Chatterjee, D Hewitt, D Desautels, M Bourrier, C Mutz, I Gehrke, E Bouchard, H Kovar, S Banerji, S Gibson, S Israels, V Banerji. What the Hole?! Structural effects of FK866 in Primary CLL B-Cells. Canadian Cancer Research Conference, Canada
Poster

3. W Liang, C McFall, K Morydz, S Banerji. Utilization of molecular testing for lung cancer in Manitoba 2014-2016. Internal Medicine Research Day, Winnipeg, Canada
Abstract
4. E Gagne, R Miller, L Prentice, P Kaurah, A Parker, A Lapuk, P Franchini, K Parsa, S Shah, S Aparicio, S Banerji, D Huntsman. National Access program for multi-gene somatic mutation testing of cancer: initial results. Canadian Cancer Research Conference, Canada
Poster
5. R Juergens, Q Chu, J Rothenstein, F De Angelis, S Banerji, K Margquis, D Sauceluc, P Begin, N Finn, V Hirsch, A Faghih, J Yun, A Li, A Acevedo, L Musallam, P Cheema. CHECKMATE 169: Safety/Efficacy of nivolumab in Canadian pretreated advanced NSCLC (including elderly and PS2) patients. World Lung Cancer Conference 2017, Japan
Poster
6. J. Kim, M. Abdalmassih, S. Banerji, D. Dawe, G. Qing, L. Tan, S. Srinathan, B. Kidane, H. Unruh, G. Buduhan, M. Aliani. Discrimination of NSCLC Cases from Cancer-Free Controls and Adenocarcinoma from Squamous Cell Carcinoma Using Plasma Metabolomics Profiles. World Lung Cancer Conference, Austria
Poster
7. W Xu, G Jia, JR Davie, L Murphy, R Kratzke, S Banerji. A Ten Yin Yang Gene Expression Ratio Signature for Stage IA and IB of Lung Cancer. IARC 50th Anniversary Conference,
Poster
8. C Peltier, D Desautels, M Bourrier, V Banerji, S Banerji. Effect of FK866, NAMPT inhibitor, on small cell lung cancer cell lines. Canadian Cancer Research Association Meeting,
Poster
9. D Desautels, C. Peltier, M Bourrier, V Banerji, S Banerji. Effect of FK866, NAMPT inhibitor, on small cell lung cancer cell lines. CAMO Annual Meeting,
Poster
10. D Meyers, A Poepl, V Bhat, C Peltier, A Raouf, S Banerji. Using a cell surface antibody screen to identify biomarkers of drug resistance in small cell lung cancer. World Lung Cancer Conference,
Paper
11. H Greulich, B Kaplan, P Mertins, T Chen, K Tanaka, C Yun, M Imielinski, S Banerji, MS Lawrence, S Walker, W Winckler, G Getz, D Frank, M Eck, JD Jaffe, SA Carr, K Wong, M Meyerson. Oncogenic extracellular domain mutations of ERBB2 in cancer. American Association of Cancer Research Annual Meeting,
Abstract
12. M Imielinski, B Hernandez, M Lawrence, E Hodis, G Kryukov, P Stojanov, A Sivachenko, K Cibulskis, C Sougnez, D Auclair, K Ardlie, S Banerji, P Hammerman, RK Thomas, S Gabriel, E Lander, G Getz, M Meyerson. Uncovering signals of somatic selection through whole exome and whole genome sequencing of lung adenocarcinoma. American Association of Cancer Research Annual Meeting,
Abstract
13. S Banerji, J Barretina, A Crago, A Frederick, M Okamoto, B Weir, G Cowley, D Root, M Ladanyi, S Singer, and M Meyerson. High-throughput functional profiling of dedifferentiated liposarcoma cell lines. American Association of Cancer Research Annual Meeting,
Abstract
14. S Banerji, A Crago, A Frederick, J Barretina, and M Meyerson. High-throughput functional profiling of dedifferentiated liposarcoma cell lines. Canadian Cancer Research Conference,
Abstract

Intellectual Property

Patents

1. Akt inhibitors for treating cancer expressing the MAGI3-AKT3 fusion gene. United States of America. PCT/US2012/043609. 2012/06/21.
Patent Status: Granted/Issued

Presentations

1. (2018). Precision medicine through genomics in Manitoba. Genome Canada Science and Industry Advisory Committee, Canada
Main Audience: Decision Maker
Invited?: Yes, Keynote?: No
2. (2018). Incorporating precision medicine for a cancer care in Manitoba. Research Institute Seminar Series, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
3. (2018). Predictive biomarkers related to targeted therapies and immunotherapies. Opening Plenary: Canadian Association of Pathologists - Association canadienne des pathologistes, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
4. (2012). Sequence analysis of mutations and translocations across breast cancer subtypes. Instituto Nacional de Medicina Genomica (INMEGEN) Breast Cancer Symposium, Mexico
Main Audience: Researcher
Invited?: Yes, Keynote?: No
5. (2012). Cancer genomics: a clinical perspective. The 3rd Institute for Refractory Cancer Research (IRCR) International Symposium, Korea, South
Main Audience: Researcher
Invited?: Yes, Keynote?: No

Knowledge and Technology Translation

- | | |
|-------------------|--|
| 2019/8 - 2019/8 | Speaker, Citizen Engagement
Activity Description: Manitoba prostate cancer patient support group talk on promise and pitfalls of personalized treatments |
| 2013/11 - 2013/11 | Speaker, Citizen Engagement
Activity Description: Manitoba Lung Association Public Forum – “The evolution of lung cancer” - educate the general public about lung cancer, risk factors, diagnosis, and treatment. |

Student/Postdoctoral Supervision

Bachelor's Equivalent [n=2]

- | | |
|----------------------|---|
| 2016/5 - 2017/8 | Rami Elzayat, University of Manitoba |
| Principal Supervisor | Thesis/Project Title: Biomarkers of drug resistance in small cell lung cancer
Present Position: Medical Student University of Manitoba |

2014/5 - 2014/8 Pooja Sharma, The University of Manitoba
Principal Supervisor Thesis/Project Title: Assessing clinical trial eligibility for patients with lung cancer in Manitoba
Present Position: Private Practice Physician

Bachelor's Honours [n=2]

2018/5 - 2019/8 Shivani Mathur, The University of Manitoba
Co-Supervisor Thesis/Project Title: The impact of frailty on clinical outcomes for stage IV non-small cell lung cancer patients receiving chemotherapy
Present Position: BSc Med Student

2013/5 - 2014/8 Daniel Meyers, Queen's University, Canada
Principal Supervisor Thesis/Project Title: Cell surface markers of drug resistance in small cell lung cancer
Present Position: Medical Student University of Calgary

Master's Thesis [n=1]

2014/1 - 2017/7 MinQi Xu, The University of Manitoba
Co-Supervisor Thesis/Project Title: Next-generation sequencing for mutation detection in non-small cell lung cancer
Present Position: Pathologist Resident Queen's University

Post-doctorate [n=1]

2017/7 - 2018/6 Susan Green, University of Manitoba
Academic Advisor Thesis/Project Title: Thoracic Oncology Clinical Fellowship
Present Position: Medical Oncologist CancerCare Manitoba

Date Submitted: 2025-01-29 11:46:14

Confirmation Number: 1902124

Template: CIHR Biosketch

Dr. René Peiman Zahedi

Correspondence language: English

Sex: Male

Date of Birth: 10/18

Canadian Residency Status: Permanent Resident

Country of Citizenship: Germany

Contact Information

The primary information is denoted by (*)

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Website

Corporate <https://umanitoba.ca/medicine/faculty-staff/rene-zahedi>



Protected when completed

Dr. René Zahedi

Degrees

- 2004/1 - 2008/4 Doctorate, Doctorate in Chemistry, Rudolf-Virchow Center
Degree Status: Completed
- 1997/10 - 2003/12 Diploma, Diploma in Biochemistry, Ruhr-Universität Bochum
Degree Status: Completed

Recognitions

- 2021/6 Member of the Board
Canadian National Proteomics Network (CNPN)
- 2018/6 - 2022/4 Associate Member of the McGill Centre for Translational Research in Cancer
McGill University
- 2016/6 Biomedicine Science Award
Verein zur Förderung der biomedizinischen und klinischen Forschung e.V.
- 2015/2 Member of the Education Committee of the European Proteomics Association (EuPA)
European Proteomics Association (EuPA)
- 2010/4 - 2017/10 Head of the Study Group Bioanalytics
German Society for Biochemistry and Molecular Biology (GBM)

Employment

- 2022/4 Professor
Internal Medicine, Max Rady College of Medicine, The University of Manitoba
- 2022/4 Director, Manitoba Centre for Proteomics and Systems Biology
Internal Medicine, Max Rady College of Medicine, The University of Manitoba
- 2017/9 - 2022/4 Associate Director Segal Cancer Proteomics Centre
Segal Cancer Centre, Gerald Bronfman Department of Oncology, Lady Davis Institute for Medical Research
- 2014/4 - 2017/6 Senior Principal Investigator for Protein Dynamics, Leibniz-Institut für Analytische Wissenschaften, ISAS
Bioanalytics, Technical University Dortmund, Leibniz-Institut für Analytische Wissenschaften, ISAS
- 2011/4 - 2017/6 Lecturer for Bioanalytics and Analytics
Biochemical and Chemical Engineering, Technical University Dortmund, Universität Dortmund

2010/1 - 2014/3	Junior Principal Investigator for Signaling Proteomics, Leibniz-Institut für Analytische Wissenschaften, ISAS Bioanalytics, Technical University Dortmund, Leibniz-Institut für Analytische Wissenschaften, ISAS
2008/11 - 2009/12	Research Associate, postdoctoral fellow Bioanalytics, Technical University Dortmund, Leibniz-Institut für Analytische Wissenschaften, ISAS
2008/1 - 2008/10	Research associate, postdoctoral fellow Functional Proteomics, University of Wuerzburg, Rudolf-Virchow-Center, University Würzburg
2004/1 - 2007/12	Scientific Assistant, PhD student Functional Proteomics, University of Wuerzburg, Rudolf-Virchow-Center, University Würzburg

Affiliations

The primary affiliation is denoted by (*)

(*) 2022/4 Professor, Internal Medicine, The University of Manitoba

Research Funding History

Awarded [n=9]

2024/4 - 2029/3 Principal Investigator	Studying the role of post-translational modification (PTM) crosstalk during T cell activation Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Total Funding - 170,000 Funding Competitive?: Yes
2025/4 - 2029/3 Principal Investigator	SysQuan: Transforming biomedical and clinical research through enabling proteome-wide absolute quantitation of the human proteome Funding Sources: Genome Canada Canadian Biotechnology Innovation and Commercialization Initiative Total Funding - 6,702,000 Funding Competitive?: Yes Co-investigator : Christoph Borchers
2022/10 - 2026/9 Principal Applicant	MutaQuant: A powerful proteogenomic phenotyping tool for precision medicine Funding Sources: Genome Canada GAPP Total Funding - 3,200,000 Funding Competitive?: Yes Principal Investigator : Christoph Borchers
2023/6 - 2026/6 Co-applicant	Rapid G protein switching: a toxic effect of oxygen therapy in PPHN Funding Sources: Heart and Stroke Foundation of Canada (HSFC) Grant in Aid Total Funding - 287,975

2024/4 - 2025/3 Co-investigator	<p>Funding Competitive?: Yes</p> <p>An interdisciplinary approach to understanding how mental health, nutrition, multi-omics, and the gut microbiome interact in chronic lymphocytic leukemia</p> <p>Funding Sources: University of Manitoba IGNITE Total Funding - 350,000 Funding Competitive?: Yes</p>
2023/12 - 2024/11 Principal Applicant	<p>Utilizing multiOmics and Machine Learning to understand calcified aortic valve stenosis (CAVS) etiology and progression</p> <p>Funding Sources: Winnipeg Foundation (The) Winnipeg Foundation Innovation Fund of the Rady Faculty of Health Sciences Total Funding - 100,000 Funding Competitive?: Yes</p>
2023/4 - 2024/3 Principal Investigator	<p>Improved prediction of subclinical and early clinical kidney transplant rejection by a CXCL10 isoform specific mass spectrometry assay</p> <p>Funding Sources: Manitoba Medical Service Foundation (MMSF) Operating Grants Total Funding - 33,000 Funding Competitive?: Yes</p> <p>Co-applicant : Julie Ho</p>
2023/4 - 2024/3 Principal Investigator	<p>Studying migration dynamics by microfluidics and phosphoproteomics</p> <p>Funding Sources: University of Manitoba University Collaborative Research Program (UCRP) Total Funding - 25,000 Funding Competitive?: Yes</p>
2019/4 - 2022/3 Co-applicant	<p>Developing the next generation PD-L1 assays using precision mass spectrometry</p> <p>Funding Sources: Genome Canada GAPP Total Funding - 1,449,026 Funding Competitive?: Yes</p> <p>Principal Investigator : Alan Spatz; Christoph Borchers</p>
Completed [n=2] 2017/4 - 2022/3 Collaborator	<p>The Pan-Canadian Proteomics Centre: An Integrated Platform for Comprehensive, Innovative, Translational Proteomics Research in Canada</p> <p>Funding Sources: Genome Canada Genomics Technology Platforms: Operations Support and Technology Development Funds Total Funding - 7,467,455 Funding Competitive?: Yes</p> <p>Principal Investigator : Christoph Borchers; Leonard Foster</p>

2018/1 - 2020/12
Co-investigator Innovative cleavable linker strategy for mass spectrometry-based elucidation of drug binding sites

Funding Sources:

Fonds de recherche du Québec - Nature et technologies (FRQNT)

Bilateral Scientific Cooperation Québec - Flanders

Total Funding - 300,000

Funding Competitive?: Yes

Co-investigator : Christoph Borchers; Steven Verhelst

Publications

Journal Articles

1. Mitsa G , Florianova L , Lafleur J , Aguilar-Mahecha A , Zahedi RP , Del Rincon SV , Basik M , Borchers CH , Batist G. (2025). Clinical Proteomics Reveals Vulnerabilities in Noninvasive Breast Ductal Carcinoma and Drives Personalized Treatment Strategies.Cancer research communications. 5(1): 138-149.
Published
2. Thanasupawat T , Mejia YP , Anandhan SS , Guo Y , Tiwana J , Fernando A , Glogowska A , Shafai T , daSilva S , Kaur N , Begum F , Zahedi R , Hombach-Klonisch S , Klonisch T. (2024). Proteomic and cytokine profiling of a CTRP8-RXFP1 glioma mouse model.Biochemical pharmacology. 232: 116722.
Published
3. Méant A , Moussa O , Lebeau B , Gonçalves C , Richard VR , Cai F , Prabhu SA , Langke M , Guettler EM , Su J , Gagnon N , Zahedi RP , Borchers CH , Miller WH , Del Rincón SV , Witcher M. (2024). Combined Inhibition of MNK Signaling and BET Proteins Reveals TGM2 as a Novel Vulnerability in Melanoma.The Journal of investigative dermatology. Epub ahead of print: --.
Published
4. Sobsey CA , Froehlich BC , Mitsa G , Ibrahim S , Popp R , Zahedi RP , de Bruin EC , Borchers CH , Batist G. (2024). mTORC1-Driven Protein Translation Correlates with Clinical Benefit of Capivasertib within a Genetically Preselected Cohort of PIK3CA-Altered Tumors.Cancer research communications. 4(8): 2058-2074.
Published
5. Luo VM , Shen C , Worme S , Bhagrath A , Simo-Cheyoun E , Findlay S , Hébert S , Wai Lam Poon W , Aryanpour Z , Zhang T , Zahedi RP , Boulais J , Buchwald ZS , Borchers CH , Côté JF , Kleinman CL , Mandl JN , Orthwein A. (2024). The Deubiquitylase Otub1 Regulates the Chemotactic Response of Splenic B Cells by Modulating the Stability of the γ -Subunit Gng2.Molecular and cellular biology. 44(1): 1-16.
Published
6. Richard VR , Mitsa G , Eshghi A , Chaplygina D , Mohammed Y , Goodlett DR , Zahedi RP , Thevis M , Borchers CH. (2024). Establishing Personalized Blood Protein Reference Ranges Using Noninvasive Microsampling and Targeted Proteomics: Implications for Antidoping Strategies.Journal of proteome research. 23(5): 1779-1787.
Published
7. Blackburn DM , Sahinyan K , Hernández-Corchado A , Lazure F , Richard V , Raco L , Perron G , Zahedi RP , Borchers CH , Lepper C , Kawabe H , Jahani-Asl A , Najafabadi HS , Soleimani VD. (2024). The E3 ubiquitin ligase Nedd4L preserves skeletal muscle stem cell quiescence by inhibiting their activation.iScience. 27(7): 110241.
Published

8. Roos A , Häusler M , Kollipara L , Topf A , Preusse C , Stucka R , Nolte K , Strom T , Berutti R , Jiang X , Koll R , Lochmüller H , Schacht SM , Zahedi RP , Weis J , Senderek J. (2024). HNRNPA1 de novo Variant Associated with Early Childhood Onset, Rapidly Progressive Generalized Myopathy. *Journal of neuromuscular diseases*. Epub: 1131-1137.
Published
Refereed?: Yes, Open Access?: Yes
9. Rahimian R , Perlman K , Fakhfouri G , Mpai R , Richard VR , Hercher C , Penney L , Davoli MA , Nagy C , Zahedi RP , Borchers CH , Giros B , Turecki G , Mechawar N. (2024). Proteomic evidence of depression-associated astrocytic dysfunction in the human male olfactory bulb. *Brain, behavior, and immunity*. 122: 110-121.
Published
10. Gamble JA, Spicer V; Hunter M, Lao Y, Hoppa RD, Pedersen DD, Wilkins JA, Zahedi RP. (2024). Advancing sex estimation from amelogenin: Applications to archaeological, deciduous, and fragmentary dental enamel. *Journal of Archaeological Science: Reports*. 54: 104430.
Published
11. Yeung D , Spicer V , Zahedi RP , Krokhin OV. (2024). Paradigm Shift: Major Role of Ion-Pairing-Dependent Size Exclusion Effects in Bottom-Up Proteomics Reversed-Phase Peptide Separations. *Analytical chemistry*. 96(23): 9721-9728.
Published
12. Jiang X , Yeung D , Liu Y , Spicer V , Afshari H , Lao Y , Lin F , Krokhin O , Zahedi RP. (2024). Accelerating Proteomics Using Broad Specificity Proteases. *Journal of proteome research*. 23(4): 1360-1369.
Published
13. Preston SEJ , Dahabieh MS , Flores González RE , Gonçalves C , Richard VR , Leibovitch M , Dakin E , Papadopoulos T , Lopez Naranjo C , McCallum PA , Huang F , Gagnon N , Perrino S , Zahedi RP , Borchers CH , Jones RG , Brodt P , Miller WH , Del Rincón SV. (2024). Blocking tumor-intrinsic MNK1 kinase restricts metabolic adaptation and diminishes liver metastasis. *Science advances*. 10(37): 7673.
Published
14. Prabhu SA , Moussa O , Gonçalves C , LaPierre JH , Chou H , Huang F , Richard VR , Ferruzo PYM , Guettler EM , Soria-Bretones I , Kirby L , Gagnon N , Su J , Silvester J , Krisna SS , Rose AAN , Sheppard KE , Cescon DW , Mallette FA , Zahedi RP , Borchers CH , Del Rincon SV , Miller WH. (2023). Inhibition of the MNK1/2-eIF4E Axis Augments Palbociclib-Mediated Antitumor Activity in Melanoma and Breast Cancer. *Molecular cancer therapeutics*. 22(2): 192-204.
Published
Refereed?: Yes
15. Yeung D , Spicer V , Zahedi RP , Krokhin O. (2023). Exploring the variable space of shallow machine learning models for reversed-phase retention time prediction. *Computational and structural biotechnology journal*. 21: 2446-2453.
Published
Refereed?: Yes
16. Wakid M , Almeida D , Aouabed Z , Rahimian R , Davoli MA , Yerko V , Leonova-Erko E , Richard V , Zahedi R , Borchers C , Turecki G , Mechawar N. (2023). Universal method for the isolation of microvessels from frozen brain tissue: A proof-of-concept multiomic investigation of the neurovasculature. *Brain, behavior, & immunity - health*. 34: 100684.
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Refereed?: Yes

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Book Chapters

1. Gaither C , Popp R , Richard VR , Zahedi RP , Borchers CH. (2023). Offline Peptide Fractionation and Parallel Reaction Monitoring MS for the Quantitation of Low-Abundance Plasma Proteins. David W. Greening Richard J. Simpson. *Serum/Plasma Proteomics*. (2628): 353-364.
Published, Nature Springer, United States of America
2. Jiang X, Lao Y, Spicer V, Zahedi RP. (2023). Improved Coverage of the N-Terminome by Combining ChaFRADIC with Alternative Proteases. Kris Gevaert. *Mass Spectrometry-Based Proteomics. Methods in Molecular Biology*(2718): 99-110.
Published, Humana, United States of America
3. Preston SEJ, Richard VR, Del Rincón SV, Borchers CH, Zahedi RP. (2023). Proteomic Assessment of the Murine Mammary Gland Extracellular Matrix. Josie Ursini-Siegel. *The Tumor Microenvironment, Methods in Molecular Biology*. 2614: 261-271.
Published, Humana, United States of America

Intellectual Property

Patents

1. Combination of proteotypic peptides for the detection of proteins in the PD-L1 axis. Canada. CA2022050783. 2022/05/18.
Patent Status: Pending
2. Mitochondrial preproteins as markers for Alzheimer's disease. Germany. WO 2015132397 A3. 2015/03/06.
Patent Status: Granted/Issued

3. Method for identifying marker proteins for the diagnosis and risk stratification of blood coagulation disorders. Germany. WO 2016180742 A1. 2016/05/08.
 Patent Status: Granted/Issued
 Year Issued: 2016

Student/Postdoctoral Supervision

Master's Thesis [n=2]

- 2023/4 - 2025/3 Havva Afshari, University of Manitoba
 Principal Supervisor Thesis/Project Title: Global monitoring of kinase activation states in cells and tissues
 Present Position: MSc student
- 2017/12 - 2018/6 Georgia Mitsa, Lady Davis Proteomics Centre
 Co-Supervisor Thesis/Project Title: Assessment of formalin-fixed and paraffin embedded (FFPE) tissue specimen for mass-spectrometry based omics research
 Present Position: PhD student

Doctorate [n=5]

- 2019/1 - 2022/4 Vincent Lacasse, McGill University
 Co-Supervisor Thesis/Project Title: **Targeted Protein MassSpectrometry Assays for Immune checkpoint Proteins**
 Present Position: PhD student
- 2019/1 - 2022/4 Georgia Mitsa, McGill University
 Co-Supervisor Thesis/Project Title: **Proteogenomics of Colorectal Cancer as a tool to improve patient stratification**
 Present Position: PhD student
- 2017/10 - 2022/4 Sahar Ibrahim, McGill University
 Co-Supervisor Thesis/Project Title: PTEN quantification and its C-terminal tail phosphorylation as a clinical relevant biomarker for breast cancer therapy resistance
 Present Position: Assistant Professor, Egypt
- 2015/8 - 2017/6 Ruzanna Mnatsakanyan, Technical University Dortmund
 Co-Supervisor Thesis/Project Title: Mass Spectrometry-Based Quantitative Proteomics of Redox Protein Modifications
 Present Position: PhD student
- 2015/4 - 2017/6 Bernhard Blank-Landeshammer, TU Dortmund
 Co-Supervisor Thesis/Project Title: Development and application of proteogenomics methods to refine genome annotations and detect single amino acid variants
 Present Position: Postdoctoral fellow, Austria

Post-doctorate [n=2]

- 2024/9 Javad Alizadeh, University of Manitoba
 Principal Supervisor Thesis/Project Title: --
 Present Position: Postdoctoral fellow
- 2024/9 Prasanta Paul, University of Manitoba
 Principal Supervisor Thesis/Project Title: --
 Present Position: Postdoctoral fellow

Research Associate [n=1]

2022/8

Xuehui Jiang, University of Manitoba

Principal Supervisor

Thesis/Project Title: Advancing the analysis of clinical samples through mass spectrometry

Present Position: Research Associate



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Dr. Amir Ravandi

Degrees

2010/7 - 2011/6	Post-doctorate, Fellow in Peripheral Vascular Interventions, University of California, San Diego Degree Status: Completed
2009/7 - 2010/6	Post-doctorate, Fellow in Coronary Interventions, University of California, San Diego Degree Status: Completed
2006/7 - 2009/6	Post-doctorate, Cardiology Fellowship, McMaster University Degree Status: Completed
2003/7 - 2006/6	Post-doctorate, Internal Medicine Residency, McMaster University Degree Status: Completed
1999/8 - 2003/5	Doctorate, MD, University of Toronto Degree Status: Completed
1998/10 - 1999/9	Post-doctorate, Post Doctoral Fellowship, St. Michael's Hospital Degree Status: Completed
1994/6 - 1998/11	Doctorate, Doctor of Philosophy, University of Toronto Degree Status: Completed
1990/9 - 1994/5	Bachelor's, Bachelors of Science, University of Toronto Degree Status: Completed

Credentials

2011/8	Medical license for province of Manitoba, College of Physicians and Surgeons of Manitoba
2009/9	Fellow, The Royal College of Physicians and Surgeons of Canada
2007/7	Fellow, The Royal College of Physicians and Surgeons of Canada
2004/1	Licentiate of the Medical Council of Canada, Medical Council of Canada
2007/1 - 2011/1	Medical License Province of Ontario, Canada, CPSO

Recognitions

2018/1	Staff Mentorship Award nominee Professional Association of Residents and Interns of Manitoba
2017/1	Wryzkowski Cardiology Research Chair Fund Awardee SBHF

2017/1	Outstanding paper of 2017 by Lipids AOCS
2016/7 - 2019/6	MMSF DuVal Clinical Professorship The University of Manitoba
2015/5	Associate Editor of Canadian Journal of Physiology and Pharmacology National Research Council Canada

Employment

2018/3	Associate Professor Internal Medicine, Medicine, The University of Manitoba
2018/1	Associate professor Physiology and pathophysiology, Rady Faculty of Medicine, The University of Manitoba
2016/9	Research Director, Section of Cardiology, Faculty of Health Sciences, University of Manitoba Cardiology, Medicine, St. Boniface Hospital
2011/9	Assistant Professor Medicine, Medicine, The University of Manitoba
2011/8	Assistant Professor Physiology and Pathophysiology, Medicine, The University of Manitoba
2011/8	Staff Interventional Cardiologist St. Boniface General Hospital
2011/1	Principal investigator Institute of Cardiovascular Sciences, University of Manitoba, St. Boniface Hospital Research Centre
2011/1	Staff consultant cardiologist St. Boniface General Hospital
2016/1 - 2019/1	Dr. F. W. Du Val Clinical Research Professorship Medicine, Rady College of Medicine, University of Manitoba
2007/7 - 2009/8	General Internist /Locum Surgical Cardiovascular Intensive Care Department of Medicine / Faculty of Health Sciences, Medicine, McMaster University Medical Centre
2007/7 - 2009/8	General Internist/ Locum Intensive Care Unit Henderson General Hospital
2007/7 - 2009/8	General Internist /Locum Surgical Cardiovascular Intensive Care Hamilton Civic/General Hospital
2007/1 - 2009/1	General internist at Locum intensive Care Unit McMaster University Medical Centre

Affiliations

The primary affiliation is denoted by (*)

(*) 2011/9 Assistant Professor of Cardiology, Medicine, The University of Manitoba

Research Funding History

Awarded [n=12]

2023/8 - 2026/2 Co-applicant	AbSciex 7500 LC/MS/MS high throughput lipidomics Platform Funding Sources: Canada Foundation for Innovation (CFI) CFI Total Funding - 4,770,775 Funding Competitive?: Yes
2023/1 - 2026/1 Principal Investigator	Heart and Stroke Foundation of Canada Funding Sources: Heart and Stroke Foundation of Canada (HSFC) Grant in Aid Total Funding - 300,000 Funding Competitive?: Yes
2022/9 - 2025/9 Principal Applicant	Precision Cardiovascular Medicine Group Funding Sources: Cardiac Sciences Manitoba PCMG Total Funding - 360,000 Funding Competitive?: Yes
2022/1 - 2025/1 Principal Investigator	Cardiac Sciences Manitoba/St. Boniface Foundation Funding Sources: Manitoba Cardiac Sciences Pilot Grant Total Funding - 30,000 Funding Competitive?: Yes
2022/1 - 2024/1 Principal Applicant	Defining aortic valve stenosis through lipidomics Funding Sources: Cardiac Sciences Manitoba Project grant Total Funding - 60,000 Funding Competitive?: Yes
2021/9 - 2023/9 Co-applicant	The Canadian Respiratory Research Network Long COVID-19 Study Funding Sources: CIHR COVID Total Funding - 1,300,000 Funding Competitive?: Yes
2021/1 - 2023/1 Principal Applicant	Impact of diurnal variation on myocardial in faction. Funding Sources: Manitoba Cardiac Sciences Program Project Total Funding - 30,000 Funding Competitive?: Yes
2020/1 - 2023/1 Co-applicant	Bengurion /St. Boniface Hospital Collaborative grant Funding Sources:

St. Boniface Hospital Foundation
 Operating grant
 Total Funding - 300,000
 Funding Competitive?: Yes

2018/2 - 2022/2
 Co-applicant

The Manitoba Personalized Lifestyle Research (TMPLR) program

Funding Sources:

Manitoba Health Research Council (MHRC)
 Team/Cluster Development
 Total Funding - 1,000,000
 Funding Competitive?: Yes

2020/1 - 2022/1
 Principal Applicant

Manitoba Cardiac Sciences Research Grant

Funding Sources:

Manitoba Cardiac Sciences
 Operating grant
 Total Funding - 30,000
 Funding Competitive?: Yes

2019/9 - 2021/8
 Principal Applicant

Evelyn and Conrad Wryzykowski Research Opportunity Fund

Funding Sources:

St. Boniface Hospital Foundation
 St. Boniface Hospital Foundation
 Total Funding - 100,000
 Funding Competitive?: Yes

2019/1 - 2021/1
 Principal Applicant

Harley Cohen Research Fund

Funding Sources:

St. Boniface Hospital Foundation
 Operating grant
 Total Funding - 100,000
 Funding Competitive?: No

Publications

Journal Articles

1. da Silva Rosa SC, Alizadeh J, Vitorino R, Surendran A, Ravandi A, Kidane B, Ghavami S. (2024). A Lipidomics Approach to Determine the Role of Lipids and Its Crosstalk with Autophagy. *Methods Mol Biol.* 7651_2024_524: 734-56.
 Published
 Refereed?: Yes
2. Zhang H, Shah A, Ravandi A. (2024). Cardiogenic shock-sex-specific risk factors and outcome differences. *Can J Physiol Pharmacol.* 7: 1-8.
 Published
 Refereed?: Yes
3. Vaghasiya J, Jha A, Basu S, Bagan A, Jengsuksavat SK, Ravandi A, Pascoe CD, Halayko AJ. (2024). Neutralizing Oxidized Phosphatidylcholine Reduces Airway Inflammation and Hyperreactivity in a Murine Model of Allergic Asthma. *Biology.* 13: 62-7.
 Published
 Refereed?: Yes, Open Access?: Yes

4. Telles-Langdon SM, Arya V, Haasbeek PR, Cheung DYC, Eekhoudt CR, Mackic L, Bryson AN, Varghese SS, Austria JA, Thliveris JA, Aukema HM, Ravandi A, Singal PK, Jassal DS. (2024). Efficacy of Flaxseed Compared to ACE Inhibition in Treating Anthracycline- and Trastuzumab-Induced Cardiotoxicity. *CJC Open*. 25: 925-37.
Published
Refereed?: Yes
5. Cayer LGJ, Surendran A, Karakach T, Aukema HM, Ravandi A. (2024). Valvular Prostaglandins Are Elevated in Severe Human Aortic Valve Stenosis. *Arterioscler Thromb Vasc Biol*. 44: 131-44.
Published
Refereed?: Yes
6. Alizadeh J , da Silva Rosa SC , Weng X , Jacobs J , Lorzadeh S , Ravandi A , Vitorino R , Pecic S , Zivkovic A , Stark H , Shojaei S , Ghavami S. (2023). Ceramides and ceramide synthases in cancer: Focus on apoptosis and autophagy. *European journal of cell biology*. 102(3): 151337.
Published
Refereed?: Yes
7. Alizadeh J , Kavooosi M , Singh N , Lorzadeh S , Ravandi A , Kidane B , Ahmed N , Mraiche F , Mowat MR , Ghavami S. (2023). Regulation of Autophagy via Carbohydrate and Lipid Metabolism in Cancer. *Cancers*. 15(8): 1-5.
Published
Refereed?: Yes
8. Surendran A , Ismail U , Atefi N , Bagchi AK , Singal PK , Shah A , Aliani M , Ravandi A. (2023). **Lipidomic Predictors of Coronary No-Reflow**. *Metabolites*. 13(1): 3;13(1):79.
Published
Refereed?: Yes
9. Vaghasiya J , Dalvand A , Sikarwar A , Mangat D , Ragheb M , Kowatsch K , Pandey D , Hosseini SM , Hackett TL , Karimi-Abdolrezaee S , Ravandi A , Pascoe CD , Halayko AJ. (2023). Oxidized Phosphatidylcholines Trigger TRPA1 and Ryanodine Receptor Dependent Airway Smooth Muscle Contraction. *American journal of respiratory cell and molecular biology*. 12: 23-33.
Published
Refereed?: Yes
10. Hassan-Tash P , Ismail U , Kirkpatrick IDC , Ravandi A , Jassal DS , Hiebert B , Kass M , Krasuski RA , Shah AH. (2023). **Correlation of Impedance Cardiography-Derived and Cardiac Magnetic Resonance-Derived Stroke Volumes**. *Current problems in cardiology*. 48(2): 101457.
Published
Refereed?: Yes
11. Aukema HM , Ravandi A. (2023). Factors affecting variability in free oxylipins in mammalian tissues. *Current opinion in clinical nutrition and metabolic care*. 26(2): 91-98.
Published
Refereed?: Yes
12. Sadeghdoust M , Aligolighasemabadi F , Dehesh T , Taefehshokr N , Sadeghdoust A , Koffis K , Hashemiattar A , Ravandi A , Aligolighasemabadi N , Vakili O , Grabarek B , Staszkiwicz R , Łos MJ , Mokarram P , Ghavami S. (2023). The Effects of Statins on Respiratory Symptoms and Pulmonary Fibrosis in COVID-19 Patients with Diabetes Mellitus: A Longitudinal Multicenter Study. *Archivum immunologiae et therapeuticae experimentalis*. 71(1): 8.
Published
Refereed?: Yes, Open Access?: Yes
13. Atefi N , Lodewyck C , Luqman Z , Ravandi A. (2022). Postpartum Endocarditis and Left Main Embolization. *CJC open*. 4(12): 1096-1099.
Published
Refereed?: Yes

14. Surendran A , Atefi N , Ismail U , Shah A , Ravandi A. (2022). **Impact of myocardial reperfusion on human plasma lipidome.***iScience*. 25(2): 103828.
Published
Refereed?: Yes
15. Pierce GN , Resch C , Mourin M , Dibrov P , Dibrov E , Ravandi A. (2022). **Bacteria and the growing threat of multidrug resistance for invasive cardiac interventions.***Reviews in cardiovascular medicine*. 23(1): 15.
Published
Refereed?: Yes
16. Eekhoudt CR , Bortoluzzi T , Varghese SS , Cheung DYC , Christie S , Eastman S , Mittal I , Austria JA , Aukema HM , Ravandi A , Thliveris J , Singal PK , Jassal DS. (2022). **Comparing Flaxseed and Perindopril in the Prevention of Doxorubicin and Trastuzumab-Induced Cardiotoxicity in C57Bl/6 Mice.***Current oncology (Toronto, Ont.)*. 29(5): 2941-2953.
Published
Refereed?: Yes, Open Access?: Yes
17. Caligiuri SPB , Pierce GN , Ravandi A , Aukema HM. (2022). **The Plasma Oxylipidome Links Smoking Status to Peripheral Artery Disease.***Metabolites*. 12(7): 3-9.
Published
Refereed?: Yes
18. Peymani P, Dehesh T, Aligolighasemabadi F, Sadeghdoust M, Kotfis K, Ahmadi M, Mehrbod P, Iranpour P, Dastghaib S, Nasimian A, Ravandi A, Kidane B, Ahmed N, Sharma P, Shojaei S, Bagheri Lankarani K, Ma. (2021). **Statins in patients with COVID-19: a retrospective cohort study in Iranian COVID-19 patients.***Transl Med Commun*.6(1):3. doi: 10: 1-14.
Published
Refereed?: Yes, Open Access?: Yes
19. Stirton H, Meek BP, Edel AL, Solati Z, Surendran A, Aukema H, Modirrousta M, Ravandi A. (2021). **Oxolipidomics profile in major depressive disorder: Comparing remitters and non-remitters to repetitive transcranial magnetic stimulation treatment.***PLoS One*. Feb 11;16(2):e0: 11-16.
Published
Refereed?: Yes, Open Access?: Yes
20. Balasubramaniam K , Elbarouni B , Kass M , Minhas K , Ravandi A. (2021). Rotational Atherectomy in the Management of Ruptured and Entrapped Coronary Angioplasty Balloon.*Cardiovascular revascularization medicine : including molecular interventions*. 28S: 140-143.
Published
Refereed?: Yes
21. Surendran A , Atefi N , Zhang H , Aliani M , Ravandi A. (2021). **Defining Acute Coronary Syndrome through Metabolomics.***Metabolites*. 11: 10.
Published
Refereed?: Yes
22. Stamenkovic A , O'Hara KA , Nelson DC , Maddaford TG , Edel AL , Maddaford G , Dibrov E , Aghanoori M , Kirshenbaum LA , Fernyhough P , Aliani M , Pierce GN , Ravandi A. (2021). **Oxidized phosphatidylcholines trigger ferroptosis in cardiomyocytes during ischemia/reperfusion injury.***American journal of physiology. Heart and circulatory physiology*. 23: 1-11.
Published
Refereed?: Yes
23. Pascoe CD , Roy N , Turner-Brannen E , Schultz A , Vaghasiya J , Ravandi A , Halayko AJ , West AR. (2021). **Oxidized Phosphatidylcholines Induce Multiple Functional Defects in Airway Epithelial Cells.***American journal of physiology. Lung cellular and molecular physiology*. 11: 123.
Published
Refereed?: Yes

24. Solati Z , Surendran A , Edel A , Roznik M , Allen D , Ravandi A. (2021). **Increase in Plasma Oxidized Phosphatidylcholines (OxPCs) in Patients Presenting With ST-Elevation Myocardial Infarction (STEMI).**Frontiers in medicine. 8: 716944.
Published
Refereed?: Yes
25. Sin PS , Jassal DS , Luqman Z , Kirkpatrick IDC , Ravandi A , Kass M. (2021). **"Tear in My Heart": A Multimodality Perspective.**CJC open. 3(2): 225-226.
Published
Refereed?: Yes
26. Atefi N , Elbarouni B , Ravandi A , Allen DW. (2021). **When rotational atherectomy is not enough.**Clinical case reports. 9(5): e04131.
Published
Refereed?: Yes
27. Asselin C, Lam A, Cheung DY, Eekhoudt CR, Zhu A, Mittal I, Mayba A, Solati Z, Edel A, Austria JA, Aukema H, Ravandi A, Thliveris J, Singal PK; Pierce G, Niraula S, Jassal DS. (2020). **The cardioprotective role of flaxseed in the prevention of doxorubicin and trastuzumab mediated cardiotoxicity in C57Bl/6 mice.**The Nutrition Journal. 100: 233.
In Press
Refereed?: Yes
28. Pascoe CD , Jha A , Ryu MH , Ragheb M , Vaghasiya J , Basu S , Stelmack GL , Srinathan S , Kidane B , Kindrachuk J , O'Byrne PM , Gauvreau GM , Ravandi A , Carlsten C , Halayko AJ , Canadian Respiratory Research Network. (2020). **Allergen inhalation generates pro-inflammatory oxidised phosphatidylcholine associated with airway dysfunction.**The European respiratory journal. Sep 3:2000839.: doi: 10.1183/1399300.
Published
Refereed?: Yes
29. Shah AH, Shaikh N, Ravandi A, Kass M. (2020). **Role of Invasive Hemodynamic Assessment During Trans-Catheter Paravalvular Leak Intervention.**Circ J.;84(3):531.: doi: 10..
Published
Refereed?: Yes
30. Surendran A, Edel A, Chandran M, Bogaert P, Hassan-Tash P, Kumar A, Solati Z, Sandhawalia S, Raabe M, Kass M, Shah AH, Jassal DS, Jaleel A, Ravandi A. (2020). **Metabolomic signature of human aortic valve stenosis.** JACC Basic Transl. Science. 1: 1.
In Press
Refereed?: Yes, Open Access?: Yes
31. Bagchi AK, Surendran A, Malik A, Jassal DS, Ravandi A, Singal PK. (2020). **IL-10 attenuates OxPCs-mediated lipid metabolic responses in ischemia reperfusion injury.**Scientific Reports. 2020 Jul 21;10(1):12: 12.
Published
Refereed?: Yes, Open Access?: Yes
32. Kass M, Love MP, Ravandi A. (2020). **Zero contrast intra-vascular lithotripsy angioplasty facilitated by intravascular ultrasound.**Cardiovasc Revasc Med. .pii: S1553-8389(20)3: (20)3.
Published
Refereed?: Yes
33. Pascoe CD, Jha A, Ryu MH, Ragheb M, Basu S, Stelmack G, Kindrachuk J, Gauvreau GM, O'Byrne PM, Ravandi A, Carlsten C, Halayko AJ. (2020). **Allergen inhalation generates pro-inflammatory oxidized phosphatidylcholine associated with airway dysfunction.** Europe Respiratory Journal . 100: 100-10.
In Press
Refereed?: Yes

34. Rohani L, Machiraju P, Sabouny R, Meng G, Liu S, Zhao T, Iqbal F, Wang X, Ravandi A, Wu JC, Khan A, Shutt T, Rancourt D, Greenway SC. (2020). **Reversible Mitochondrial Fragmentation in iPSC-Derived Cardiomyocytes From Children With DCMA, a Mitochondrial Cardiomyopathy.**Can J Cardiol.36(4): 554-563.
Published
Refereed?: Yes
35. Stamenkovic A , Ganguly R , Aliani M , Ravandi A , Pierce GN. (2019). Overcoming the Bitter Taste of Oils Enriched in Fatty Acids to Obtain Their Effects on the Heart in Health and Disease.Nutrients. 11(5): 35-9.
Published
Refereed?: Yes
36. Dufresne J, Bowden P, Thavarajah T, Florentinus-Mefailoski A, Chen ZZ, Tucholska M, Norzin T, Ho MT, Phan M, Mohamed N, Ravandi A, Stanton E, Slutsky AS, Dos Santos CC, Romaschin A, Marshall JC, Addison C, Malone S, Heyland D, Scheltens P, Killestein J, Teunissen C, Diamandis EP, Siu KWM, Marshall JG. (2019). **The plasma peptides of breast versus ovarian cancer.**Clin Proteomics.2019 Dec 23;16:43. d: 10.1186/s12014-019-9.
Published
Refereed?: Yes
37. Liu S, Parr C, Zhang H, Elbarouni B, Shah A, Kass M, RAVANDI A. (2019). **Patient outcomes in Guideliner facilitated percutaneous coronary intervention stratified by the SYNTAX score: a retrospective analysis.**JRSM Cardiovascular Disease. 12: 1.
Published
Refereed?: Yes, Open Access?: Yes
38. Mackay D, Mollard RC, Granger M, Bruce S, Blewett H, Carlberg J, Duhamel T, Eck P, Faucher P, Hamm NC, Khafipour E, Lix L, McMillan D, Myrie S, Ravandi A, Tangri N, Azad M, Jones PJ. (2019). **The Manitoba Personalized Lifestyle Research (TMPLR) study protocol: a multicentre bidirectional observational cohort study with administrative health record linkage investigating the interactions between lifestyle and health in Manitoba, Canada.**BMJ Open.Oct 10;9(10): 10.
Published
Refereed?: Yes
39. Stamenkovic A, Pierce GN, RAVANDI A. (2019). **Oxidized Lipids: Not just another brick in the wall.** Can J Physiol Pharmacol.20: doi: 10.1139.
Published
Refereed?: Yes, Open Access?: Yes
40. Surendran A, Aliani A, RAVANDI A. (2019). **Metabolomic characterization of myocardial ischemia-reperfusion injury in ST-segment elevation myocardial infarction patients undergoing percutaneous coronary intervention.**Scientific Reports. Aug 13;9(1):117: 1.
Published
Refereed?: Yes, Open Access?: Yes
41. Surendran A, Zhang H, Edel A, Aukema H, RAVANDI A. (2019). **Changes in Oxylipin profile of Human LDL during oxidation.** Atherosclerosis. Jul 18;288:101-111: 1.
Published
Refereed?: Yes, Open Access?: Yes
42. Surendran A , Zhang H , Winter T , Edel A , Aukema H , Ravandi A. (2019). Oxylipin profile of human low-density lipoprotein is dependent on its extent of oxidation.Atherosclerosis. 288: 101-111.
Published
Refereed?: Yes

43. Mozolevska V, Schwartz A, Cheung D, Goyal V, Shaikh B, Dingman B, Kim E, Mittal I, Asselin CY, Edel A, RAVANDI A, Thliveris J, Singal PK, Czaykowski P, Jassal DS. (2019). **Role of renin-angiotensin system antagonists in the prevention of bevacizumab- and sunitinib-mediated cardiac dysfunction.** *Am J Physiol Heart Circ Physiol.*316: 446-458.
Published
Refereed?: Yes, Open Access?: No
44. Shah AH, RAVANDI A, Kass M. (2019). **Platypnea-Orthodeoxia Syndrome: Reminder of the In Utero Vena Cava Flow Pattern.** *JACC Cardiovasc Interv.* 12: 2.
Published
Refereed?: Yes
45. Machiraju P, Wang X, Sabouny R, Huang J, Zhao T, Iqbal F, King M, Prasher D, Lodha A, Jimenez-Tellez N, RAVANDI A, Argiropoulos B, Sinasac D, Khan A, Shutt TE, Greenway SC. (2019). **SS-31 Peptide Reverses the Mitochondrial Fragmentation Present in Fibroblasts From Patients With DCMA, a Mitochondrial Cardiomyopathy.** *Front Cardiovasc Med.* 15;6:167.: 10.
Published
Refereed?: Yes
46. Stamenkovic A, Pierce GN, RAVANDI A. (2019). **Phospholipid oxidation products in Ferroptotic Myocardial Cell Death.** . *Am J Physiol Heart Circ Physiol.*019 May 3. doi: 10.1: 1.
Published
Refereed?: Yes
47. Koleini N, Nickel B, Edel A, Fandrich R, Ravandi A, Kardami E. (2019). **Oxidized phospholipids in Doxorubicin-induced cardiotoxicity.** *Chemico-Biological Interactions.*18: 31603-7.
Published
Refereed?: Yes
48. Solati Z, RAVANDI A. (2019). **Lipidomics of Bioactive Lipids in Acute Coronary Syndromes.** *Int J Mol Sci.*2019 Feb 28;20(5): pii: E1051.
Published
Refereed?: Yes
49. Ariful Islam Md, RAVANDI A, Harold M Aukema HM. (2018). **Linoleic acid derived oxylipins are elevated in kidney and liver and reduced in serum in rats given a high protein diet.** *Journal of Nutritional Biochemistry.* 12: 120-125.
Published
Refereed?: Yes
50. Koleini N, Nickel B, Edel A, Fandrich R, RAVANDI A, Kardami E. (2018). **Non-mitogenic FGF2 protects cardiomyocytes from acute Doxorubicin induced toxicity via a proteinkinase CK2/ heme oxygenase 1 (HO-1) independent pathway.** *Cell & Tissue Research.* 3: 23-26.
Published
Refereed?: Yes
51. Dufresne J, Bowden P, Thavarajah T, Florentinus-Mefailoski A, Chen Z, Tucholska M, Norzin T Ho1, Morla Phan M, Mohamed N, RAVANDI A, Stanton E, Slutsky AS, dos Santos CC, Romaschin A, Marshall JC Addison C, Malone S, Heyland D, Scheltens P, Killestein J, Teunissen C, Diamandis EP, Siu KW, Marshall JG. (2018). **The Plasma Peptides of Ovarian Cancer.** *Clinical Proteomics.* 11: 11.
Published
Refereed?: Yes, Open Access?: Yes
52. Mejia EM, Zegallai H, Bouchard ED, Banerji V, Ravandi A, Hatch GM. (2018). **Expression of human monolysocardiolipin acyltransferase-1 improves mitochondrial function in Barth Syndrome lymphoblasts.** *Journal of Biological Chemistry.* jbc.RA117.001024. do: 11.
Published
Refereed?: Yes

53. Dufresne J, Bowden P, Thavarajah T, Florentinus-Mefailoski A, Chen Z, Tucholska M, Norzin T Ho1, Morla Phan M, Mohamed N, Ravandi A, Stanton E, Slutsky AS, dos Santos CC, Romaschin A, Marshall JC Addison C, Malone S, Heyland D, Scheltens P, Killestein J, Teunissen C, Diamandis EP, Siu KW, Marshall JG. (2018). **The Plasma Peptidome**. *Clinical Proteomics*. 11: 11.
Published
Refereed?: Yes
54. Yeang C, Hasanally D, Que X, Hung MY, Stemankovic A, Chan D, Chaudhary R, Margulets V, Edel AL, Hoshijima M, Gu Y, Bradford W, Dalton N, Miu P, Cheung DYC, Jassal DS, Pierce GN, Peterson KL, Kirshenbaum LA, Witztum JL, Tsimikas S, Ravandi A. (2018). **Reduction of Myocardial Ischemia-Reperfusion Injury by Inactivating Oxidized Phospholipids**. *Cardiovascular Research*. doi: 10.1093/cvr/cvy: 1-11.
Published
Refereed?: Yes
55. Ganguly R , Hasanally D , Stamenkovic A , Maddaford TG , Chaudhary R , Pierce GN , Ravandi A. (2018). Alpha linolenic acid decreases apoptosis and oxidized phospholipids in cardiomyocytes during ischemia/ reperfusion. *Molecular and cellular biochemistry*. 437(1-2): 163-175.
Published
Refereed?: Yes
56. Sareen N, Sequiera GL, Chaudhary R, Abu-El-Rub E, Chowdhury SR, Sharma V, Surendran A, Moudgil M, Fernyhough P, RAVANDI A, Dhingra S. (2018). **Early passaging of mesenchymal stem cells does not instigate significant modifications in their immunological behavior**. *Stem Cell Res Ther*. May 2;9(1):121. doi:(10.1186/s1): 1-11.
Published
Refereed?: Yes
57. Agarwal P , Cole LK , Chandrakumar A , Hauff KD , Ravandi A , Dolinsky VW , Hatch GM. (2018). Phosphokinome Analysis of Barth Syndrome Lymphoblasts Identify Novel Targets in the Pathophysiology of the Disease. *International journal of molecular sciences*. 19(7): 14-18.
Published
Refereed?: Yes
58. Sequiera GL, Sareen N, Sharma V, Surendran A, Ravandi A, Dhingra S. (2018). **High throughput screening reveals no significant changes in protein synthesis, processing, and degradation machinery during passaging of mesenchymal stem cells**. *Can J Physiol Pharmacol*. 13: 1-8.
Published
Refereed?: Yes
59. Dhingra R, Ravandi A, Kirshenbaum LA. (2018). **Ferroptosis: beating on death's door**. *Am J Physiol Heart Circ Physiol*. 4(314): 772.
Published
Refereed?: Yes, Open Access?: Yes
- [60.](#) Solati Z, Edel AL, Shang Y, O K, RAVANDI A. (2018). **Oxidized phosphatidylcholines are produced in renal ischemia reperfusion injury**. *PLoS One*. 13: 1-24.
Published
Refereed?: Yes
61. Yamamoto JM, Katz PM, Bras JAF, Shafer LA, Leung AA, RAVANDI A, Cordova FJ. (2018). **Amiodarone-induced thyrotoxicosis in heart failure with a reduced ejection fraction: A retrospective cohort study**. *Health Sci Rep*. 5: 36-40.
Published
Refereed?: Yes

62. Agarwal P, Cole LK, ChandraKumar A, Hauff KD, Ravandi A, Dolinsky VW, Hatch GM. (2018). **Phosphokinome analysis of Barth Syndrome lymphoblasts identify novel targets in the pathophysiology of the disease.** International Journal of Molecular Sciences. 1: 1-8.
Published
Refereed?: Yes

Book Chapters

1. A.Ravandi. (2020). Rotational Atherectomy. Emmanouil Brilakis. Manual of Percutaneous Coronary Interventions.
Published, Elsevier, United States of America

Conference Publications

1. A Stamenkovic, GNN Pierce, JL Witztum, S Tsimikas, A Ravandi. Intracoronary Delivery of E06 Antibody Directed to Oxidized Phospholipids Decreases Infarct Size in a Porcine Model of Ischemia/Reperfusion Injury. Circulation, Abstract
2. Ragheb M, Eastman T, Ravandi A, Kass M, Shah A. Lack of Correlation Between Echocardiographic Parameters and Cardiac Hemodynamics in Patients with Severe Aortic Stenosis. Circulation, Abstract
3. Surendran A, Atefi N, Ismail U, Shah A, Ravandi A. Temporal Changes in Plasma Lipidome in Patients with ST-Segment Elevation Myocardial Infarction: Impact of Reperfusion. Circulation, Abstract
4. Eastman, T; Ragheb, M; Thorleifson, M; Hiebert, B; Minhas, K; Kass, M; Ravandi, A; Shah, A;. Lack of Concordance Between Parameters Defining Cardiogenic Shock in Patients With ST Elevation Myocardial Infarction. Circulation, Abstract
5. Eastman, T; Ragheb, M; Thorleifson, M; Minhas, K; Kass, M; Ravandi, A; Shah, . Cardiogenic shock complicating st elevation myocardial infarction: conflicting definitions and the impact of primary percutaneous coronary intervention. Canadian Journal of Cardiology, 37, 10, 2021., Abstract
6. Atefi, N; Surendran, A; Raabe, M; Jassal, D; Ravandi, A;. Valvular bile acids correlate with the degree of stenosis in patients with calcific aortic valve stenosis. Canadian Journal of Cardiology, 37, 10,, Abstract
7. Ragheb MM, Eastman T, Ravandi A, Toleva O, Kass M, Shah AH. Hemodynamic Characterization of Severe Aortic Stenosis: Impact of Transcatheter Aortic Valve Implantation. Cardiovasc Revascularization Medicine., Abstract
8. Tomczyk M, Surendran A, Xiang B, Agarwal P, Cheung KG, Kereliuk S, Tong Q, Ravandi A, Dolinsky V. Sirtuin 3 Attenuates Doxorubicin Induced Cardiac Dysfunction by Regulating The Mitochondrial Acetylome And Alterations Of The Cardiac Lipidome. Circulation Research, Abstract
9. Surendran A, Chandran M, Kumar A, Edel AL, Jassal DS, Jaleel A, Ravandi A, . Metabolomics Characterization of Human Calcific Aortic Valve Stenosis. Circulation, Abstract

10. P.Hassan-tash, U Ismail, G. Chana, I. Kirkpatrick, Jassal D, Hiebert B, Ravandi A, Kass M, Shah. Validation of Non-invasive Cardiac System (NICaS) Derived Stroke Volume with Cardiac Magnetic Resonance. *Circulation*, Abstract
11. Bagchi AK, A Surendran A , Malik A, Ravandi A, Jassal DS, Singal PK -. Oxidized-phospholipid Mediated Ischemia-reperfusion Injury and Its Mitigation by IL-10. *Circulation*, Abstract
12. Stamenkovic A, O'Hara K, Nelson D, Maddaford T, Edel A, Pierce G, Ravandi A. Oxidized phosphatidylcholine induces cardiomyocyte cell death in ischemia/reperfusion injury through ferroptosis. *Journal of molecular and cellular cardiology*., Abstract
13. A Stamenkovic, KA O'Hara, DC Nelson, TG Maddaford, GN Pierce, Ravandi A,. Role of Fragmented Oxidized Phospholipids in Cardiomyocyte Contractile Dysfunction During Reperfusion Injury. *Circulation*, Abstract
14. Bagchi, AK; Akolkar, G; Edel, A; Chaudhary, R ; Ravandi, A; Singal, PK. Role of IL-10 in the Modulation of Oxidized Phospholipids During Ischemia/Reperfusion (I/R) Injury in the Heart. *Circulation*, Abstract
15. Yamaguchi T, Devassy JG, Jha A3, Halayko AJ, Kugita M, Nagao S, Ravandi A, Aukema HM. Renal and serum oxylipin alterations in the jck mouse, an orthologous model of human nephronophthisis. *ISN Frontiers Meetings, Tokyo*, Abstract
16. Elbarouni, BE, Ravandi A, Minhas K, Kass M. Rota-Regret: A successful Case of Rotablation After Balloon Rupture and Entrapment. *TCT 2018 San Diego*., Abstract
17. Mejia E, Zegallai H, Bouchard E, Banerji V, Ravandi A, Hatch G. The role of tafazzin and monolysocardiolipin acyltransferase-1 in mitochondrial function in Barth Syndrome lymphoblasts. *Canadian Lipoprotein Conference, Toronto*, Poster
18. Stamenkovic A, O'Hara K, Nelson D, Maddaford T, Edel A, Pierce G, Ravandi A. The Oxidized Phospholipids POVPC and PONPC affect Calcium Transients and Contraction in Adult Rat Cardiomyocytes. *Journal of molecular and cellular cardiology*., Abstract
19. Surendran, A ; Aliani, M; Ravandi, A. Metabolomic analysis of human plasma during myocardial reperfusion injury: a non-targeted approach. *JACC* 10.1016/S0735-1097(18)30553-9, Abstract
20. Scipione, CA, DeWolf T, Gauld JW, Boffa MB, Ravandi A, Koshinsky ML. Characterization of the Oxidized Phospholipid: Modification of Apolipoprotein(a) Kringle KIV10: Insights Into the Site of OxPC addition. *Arteriosclerosis Thrombosis And Vascular Biology*, Abstract
21. Ryu MH, Jha A, Pascoe CD, Ravandi A, Halayko AJ, Carlsten C. Oxidized Phosphatidylcholine in Human Airways Upon Exposure to Allergen and/or Diesel Exhaust. *American Journal of Respiratory and Critical Care Medicine*, Abstract
22. Jha A, Pascoe CD, Edel AL, ElGammal A, Ravandi A, Gauvrau GM, O'Byrne P, Halayko AJ. Peroxidation of Phosphatidylcholine: A Signature for Allergen-Induced Airway Responses and Allergen Specificity. *American Journal of Respiratory and Critical Care Medicine*, Abstract

23. Liu S, Tangri N, Ravandi A, Toleva O, Hiebert B and Kass M. Comparison of in Stent Restenosis rates after PCI in patents with hemodialysis vs Peritoneal dialysis. Cardiac Sciences research Symposium,, Canada Poster
24. Liu S, Wallace KH, Menkis A, Pozeg Z, Hiebert B, Toleva O, Ravandi A and Kass M. Short and long term outcomes for trans-catheter aortic valve implantation (TAVI). Short and long term outcomes for trans-catheter aortic valve implantation (TAVI). ICS Research Day, Canada Poster

Presentations

1. (2022). Novel therapies for myocardial reperfusion injury. Medical Grand Rounds. Rady College of Medicine . University of Manitoba, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
2. (2022). Cardiovascular Lipidomics: Beyond Cholesterol. Medical Grand Rounds. Rady College of Medicine. University of Manitoba, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
3. (2021). Left main PCI. Interventional Cardiology Rounds. St. Boniface Hospital, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
4. (2021). Novel Therapy for Reperfusion Injury:. Cardiology Grand Rounds. University of Manitoba, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
5. (2021). Precision medicine. Cardiology Grand Rounds, University of California, Riverside., United States of America
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

Knowledge and Technology Translation

- | | |
|---------|--|
| 2017/1 | Speaker, Community Engagement
Activity Description: Cardiology Grand Rounds. University of Manitoba, Winnipeg, Canada |
| 2015/5 | Chair, Community Engagement
Activity Description: Future of Lipidomics. Canadian Nutritional Society. Lipids Workshop. Winnipeg Manitoba |
| 2015/1 | Founder, Community Engagement
Activity Description: Establishment of the Interventional Cardiology Research Institute at the University of Manitoba |
| 2014/10 | Founder, Community Engagement
Activity Description: Founder of Innovations of Interventional Cardiology (I2C). Only national symposium for Canadian International Cardiologists in collaboration with the Canadian Association of Interventional Cardiologist |

Student/Postdoctoral Supervision

Master's Thesis [n=1]

2012/5 - 2015/5 Devin Hasanally, University of Manitoba
 Principal Supervisor Thesis/Project Title: Bioactive Oxidized Phosphatidylcholines cause Apoptotic Cell Death in Cardiomyocytes during Ischemia Reperfusion
 Present Position: Physician

Doctorate [n=3]

2022/8 - 2026/7 Hannah Zhang, Univeristy of Manitoba
 Principal Supervisor Thesis/Project Title: Role of Oxidized Phospholipids in Reperfusion Injury
 Present Position: PhD student

2017/1 Arun Surendran, University of Manitoba
 Principal Supervisor Thesis/Project Title: Metabolomic Analysis of Plasma in Patients with myocardial reperfusion injury
 Present Position: PhD Student

2016/6 - 2021/7 Zahra Solati, University of Manitoba
 Principal Supervisor Thesis/Project Title: LipidomicAnalysis of Plasma in Patients with myocardial reperfusion injury
 Present Position: Research Associate

Post-doctorate [n=2]

2021/9 Aleksandra Stamenkovic, University of Manitoba
 Principal Supervisor Thesis/Project Title: Lipidomic impact of Stroke
 Present Position: Post Doctoral Fellow

2016/1 - 2020/9 Aleksandra Stamenkovic, University of Manitoba
 Principal Supervisor Thesis/Project Title: Mechanism of Cell death mediated by OxPC
 Present Position: Postdoctroal Fellow

Research Associate [n=1]

2022/1 Craig Resch, St Boniface Hospital Research Centre
 Principal Supervisor Thesis/Project Title: Supervising the Lipidomics facility
 Present Position: Research Associate

Date Submitted: 2025-01-27 12:01:26

Confirmation Number: 1900415

Template: CIHR Biosketch

Dr. Christopher Pascoe

Correspondence language: English

Sex: Male

Date of Birth: 2/15

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

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Protected when completed

Dr. Christopher Pascoe

Degrees

- 2016/9 - 2019/7 Post-doctorate, Physiology and Pathophysiology, The University of Manitoba
Degree Status: Completed
- 2011/8 - 2015/2 Doctorate, PhD of Experimental Medicine, University of British Columbia
Degree Status: Completed
- 2006/9 - 2010/5 Bachelor's, Bachelor's of Science, University of the Fraser Valley
Degree Status: Completed

Recognitions

- 2024/6 Ken Hughes Young Investigator Award in Medical Research
The University of Manitoba
- 2018/9 CIHR Postdoctoral Fellowship
Canadian Institutes of Health Research
- 2018/5 - 2020/5 Banting Postdoctoral Fellowship
Canadian Institutes of Health Research
- 2016/9 - 2018/9 Research Manitoba/Children's Hospital Research Institute of Manitoba Postdoctoral Fellowship Award
Research Manitoba
- 2016/9 - 2018/9 Canadian Respiratory Research Network Postdoctoral Fellowship.
Canadian Respiratory Research Network

Employment

- 2023/3 Associate Lead - Biology of Breathing Theme
Biology of Breathing Theme, Children's Hospital Research Institute of Manitoba, Children's Hospital Research Institute of Manitoba
- 2019/8 Assistant Professor
Physiology and Pathophysiology, Rady Faculty of Health Science, The University of Manitoba
- 2015/10 - 2019/8 Post-Doctoral Fellow
Physiology and Pathophysiology, Rady Faculty of Health Sciences, The University of Manitoba
- 2015/2 - 2015/8 Research Associate
Experimental Medicine, Faculty Medicine, University of British Columbia

2011/8 - 2015/2	PhD student Experimental Medicine, Faculty Medicine, University of British Columbia
2010/9 - 2011/8	Masters Student Experimental Medicine, Faculty Medicine, University of British Columbia
2010/5 - 2010/9	Summer Student Researcher Experimental Medicine, Faculty Medicine, University of British Columbia
2010/2 - 2010/5	Tutor Tutor Doctor

Affiliations

The primary affiliation is denoted by (*)

(*) 2015/10 Assistant Professor, Medicine, The University of Manitoba

Research Funding History

Awarded [n=13]

2024/4 - 2029/3 Principal Applicant	Impact of maternal hyperglycemia on offspring airway smooth muscle contractility and the activity of RhoA Funding Sources: Canadian Institutes of Health Research (CIHR) Project Grant Total Funding - 784,125 Funding Competitive?: Yes
2024/4 - 2029/3 Collaborator	Profiling the Microbiota-Mediated Effects of Specific Dietary Fibres On Gut Epithelia and Immune Cell Populations in IBD Funding Sources: Canadian Institutes of Health Research (CIHR) Project Grant Total Funding - 814,725 Funding Competitive?: Yes Principal Applicant : Heather Armstrong
2023/9 - 2028/8 Co-applicant	AirSAFE: Air Pollution Exposure Facility Funding Sources: Canada Foundation for Innovation (CFI) Innovation Fund Total Funding - 5,999,999 Funding Competitive?: Yes Principal Investigator : Andrew Halayko; Neeloffer Mookherjee
2020/3 - 2025/3 Principal Investigator	Elucidating the Role of the Hydroxyeicosatetraenoic Acid Family of Eicosanoids in Airway Smooth Muscle Physiology Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Total Funding - 150,000 Funding Competitive?: Yes
2019/8 - 2024/8	University of Manitoba Research Start-up Funds

Principal Investigator	<p>Funding Sources: University of Manitoba Start-up funds Total Funding - 185,000 Funding Competitive?: No</p>
2023/4 - 2024/3 Principal Applicant	<p>Impact of maternal hyperglycemia on offspring airway smooth muscle contractility and the activity of RhoA</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) Bridge Funding - Project Grant Total Funding - 100,000 Funding Competitive?: Yes</p>
2022/3 - 2024/3 Principal Applicant	<p>Amniotic fluid as a mediator between maternal smoking and fetal lung health</p> <p>Funding Sources: Social Sciences and Humanities Research Council of Canada (SSHRC) New Frontiers in Research Fund - Exploration Stream Total Funding - 250,000 Funding Competitive?: Yes</p> <p>Co-applicant : Meghan Riddell</p>
2021/6 - 2023/6 Principal Applicant	<p>Maternal Diabetes And Smoking As Early Life Risk Factors For Chronic Obstructive Pulmonary Disease</p> <p>Funding Sources: Research Manitoba New Investigator Operating Grant Total Funding - 130,000 Funding Competitive?: Yes</p>
2022/3 - 2023/3 Principal Applicant	<p>Development of spatial RNA-sequencing platform to understand disease heterogeneity</p> <p>Funding Sources: Canada Foundation for Innovation (CFI) JELF Total Funding - 323,128 Funding Competitive?: Yes Research Manitoba CFI Matching Funds Total Funding - 172,500 Funding Competitive?: Yes University of Manitoba VPRI CFI Matching Total Funding - 172,500 Funding Competitive?: Yes</p> <p>Co-applicant : Tanveer Sharif</p>
2020/9 - 2022/9 Collaborator	<p>Epigenetic mechanisms of biological embedding of prenatal cigarette smoke.</p> <p>Funding Sources: Research Manitoba New Investigator Operating Grant Total Funding - 130,000 Funding Competitive?: Yes</p> <p>Collaborator : Tobias Karakach;</p>

- 2021/3 - 2022/3
Principal Applicant
- Principal Applicant : Meaghan Jones
- Maternal co-exposure to diabetes and smoking impairs offspring lung function
- Funding Sources:**
University of Manitoba
University Research Grants Program
Total Funding - 10,000
Funding Competitive?: Yes
- 2021/3 - 2022/3
Principal Applicant
- Environmental exposures influence airway smooth muscle function through changes in DNA methylation.
- Funding Sources:**
University of Manitoba
University Collaborative Research Program
Total Funding - 25,000
Funding Competitive?: Yes
- 2020/9 - 2021/9
Principal Investigator
- Understanding the pathology of vaping associated lung damage in young adults
- Funding Sources:**
Canadian Institutes of Health Research (CIHR)
Vaping Catalyst Grant
Total Funding - 100,000
Funding Competitive?: Yes
- Co-applicant : Andrew Halayko; Paul Wawryko;
Co-investigator : Biniam Kidane;
Principal Knowledge User : Neil Johnston
- Completed [n=3]**
- 2020/3 - 2021/3
Principal Investigator
- The role of mir200b in allergic asthma.
- Funding Sources:**
Biology of Breathing - Children's Hospital Research Institute of Manitoba
Biology of Breathing Catalyst Grant
Total Funding - 15,000
Funding Competitive?: Yes
- Co-applicant : Richard Keijzer
- 2019/7 - 2020/6
Co-applicant
- Cell type specificity of epigenetic changes due to prenatal cigarette smoke in the lung.
- Funding Sources:**
Children's Hospital Research Institute of Manitoba
CHRIM Operating Grant
Total Funding - 60,000
Funding Competitive?: Yes
- Co-applicant : Neeloffer Mookherjee; Rachel Clifford;
Principal Applicant : Meaghan Jones
- 2018/5 - 2020/5
Collaborator
- Molecular adaptation to allergen exposure: sex-related differences in asthma. Catalyst Grant: Integrating Sex as a Variable in Biomedical Research
- Funding Sources:**
Canadian Institutes of Health Research (CIHR)
Catalyst Grant: Integrating Sex as a Variable in Biomedical Research
Total Funding - 150,000

Funding Competitive?: Yes

Co-investigator : Neeloffer Mookherjee

Publications

Journal Articles

1. Kahn moui S, Winter T, Lloyd D, Halayko AJ, Mookherjee N, Aukema HM, Pascoe CD. (2025). Oxylipin Profiling of Airway Structural Cells and Modulation by Physiologic Stimuli. *Journal of Lipid Research*. X: X. In Press
2. Biniam Kidane, Shana Kahn moui, Sadeesh Srinathan, Richard Liu, Larry Tan, Melanie Morris, Andrew J. Halayko, Christopher D. Pascoe. (2024). Lung transcriptome of e-cigarette users reveals changes related to chronic lung disease. *European Respiratory Journal*. 63(2): X. Published
Refereed?: Yes
3. Onuzulu CD Lee S Basu S Comte J Hai Y Hozin N Chadha S Fauni MS Halayko AJ Pascoe CD Jones MJ. (2024). Novel DNA Methylation Changes in Mouse Lungs Associated with Heavy Smoking. *Epigenetics*. 19(1): 1-20. Published
Refereed?: Yes
4. Vaghasiya J, Jha A, Basu S, Bagan A, Jengsuksavat S, Ravandi A, Pascoe CD, Halayko AJ. (2024). Oxidized Phosphatidylcholines Neutralizing Antibody Reduces Airway Inflammation and Hyperreactivity in a Murine Model of Allergic Asthma. *Biology*. X: X. Accepted
5. Lisa Rodway Samantha Pauls Christopher D. Pascoe Harold Aukema Carla Taylor Peter Zahradka. (2023). Distinct effects of α -linolenic acid and docosahexaenoic acid on the expression of genes related to cholesterol metabolism and the response to infection in THP-1 monocytes and immune cells of obese humans. *Biomedicine & Pharmacotherapy*. 159: 1-13. Published
Refereed?: Yes
6. Sonali Bose Christopher Pascoe Cindy McEvoy. (2023). Lifetime lung function trajectories and COPD: when the train derails. *The Lancet Respiratory Medicine*. 11(3): 221-222. Published
Refereed?: Yes
7. Chinonye Doris Onuzulu, Samantha Lee, Sujata Basu, Jeannette Comte, Yan Hai, Nikho Hizon, Shivam Chadha, Maria Shenna Fauni, Shana Kahn moui, Bo Xiang, Andrew J. Halayko, Vernon W. Dolinsky, Christopher Pascoe, Meaghan J. Jones. (2023). Early life exposure to cigarette smoke is associated with lung function changes and primes gene expression and DNA methylation changes at Cyp1a1 upon exposure later in life. *AJP-Lung*. 325(5): X. Published
Refereed?: Yes, Open Access?: Yes
8. Shojaei S, Basso J, Amereh M, Alizadeh J, Dehesh T, da Silva Rosa SC, Clark C, Hassan M, Tomczyk M, Cole L, Hatch G, Dolinsky V, Pascoe CD, Schibli D, Dhingra S, Srivastava A, Ravandi A, Vitorino R, Ghavami S, Akbari M. (2023). A multi-omics analysis of glioma chemoresistance using a hybrid microphysiological model of glioblastoma. *Nature Communications*. X: 1-20. Revision Requested
Refereed?: Yes

9. Jay Kormish Tejas Ghuman Richard Y. Liu Sadeesh K. Srinathan Lawrence Tan Kristen Graham Stephanie Enns Gordon Buduhan Andrew J. Halauko Christopher D. Pascoe Biniam Kidane. (2023). Temporal and Spatial Patterns of Inflammation and Tissue Injury in Patients with Postoperative Respiratory Failure after Lung Resection Surgery: A Nested Case–Control Study. *International Journal of Molecular Sciences*. 24(12): 1-15.
Published
Refereed?: Yes, Open Access?: Yes
10. Vaghasiya J, Dalvand A, Sikarwar A, Mangat D, Ragheb M, Hackett TL, Ravandi A, Pascoe CD, Halayko AJ. (2023). Oxidized Phosphatidylcholine (OxPC) Trigger Airway Narrowing via Ca²⁺ Flux Involving TRPA1 and Ryanodine Receptor Pathways in Human Airway Smooth Muscle. *American Journal of Respiratory Cell and Molecular Biology*. 69(6): X.
Published
Refereed?: Yes
11. Richard Wagner Paula Lieckfeldt Hadeesha Piyadasa Moritz Markel Jan Riedel Camelia Stafanovici Nicole Peukert Daywin Patel Gabrielle Derraugh Suyin Lum Min Jan-Hendrik Gosemann Jan Deprest Christopher D. Pascoe Andrew Tse Martin Lacher Neeloffer Mookherjee Richard Keijzer. (2022). Proteomic Profiling of Hypoplastic Lungs Suggests an Underlying Inflammatory Response in the Pathogenesis of Abnormal Lung Development in Congenital Diaphragmatic Hernia. *Annals of Surgery*. 278(2): 1-36.
Published
12. Kahn moui S, Basu S, Lei Y, Patel D, Keijzer R, Pascoe CD. (2022). MicroRNA-200b deficiency is not sufficient to increase susceptibility to allergen induced airway inflammation and dysfunction in mice. *AJP - Lung*. X: 1-12.
Published
Refereed?: Yes
13. Dina Mostafa Hadeesha Piyadasa Mahadevappa Hemshekhar Anthony Altieri Andrew Halayko Christopher Pascoe * Neeloffer Mookherjee * * Co-senior authors. (2022). Characterization of sex-related differences in allergen house dust mite-challenged airway inflammation, in two different strains of mice. *Scientific Reports*. 12: 1-12.
Published
Refereed?: Yes
14. Christopher D. Pascoe Sujata Basu Jacquie Schwartz Mario Fonseca Shana Kahn moui Aruni Jha Vernon Dolinsky Andrew J. Halayko. (2021). Maternal diabetes promotes offspring lung dysfunction and inflammation in a sex-dependent manner. *AJP-Lung*. 322(3): 373-384.
Published
Refereed?: Yes
15. Thatchawan Thanasupawat Aleksandra Glogowska Christopher Pascoe Sai Nivedita Krishnan Maliha Munir Farhana Begum Jason Beiko Jerry Krcek Marc R. DelBigio Marshall Pitz Yaoqing Shen Victor Spice Kevin M. Coombs John Wilkins Sabine Hombach-Klonisch Thomas Klonisch. (2021). High-throughput proteomic analysis with slow off-rate modified aptamers identifies distinct cellular proteomes in human malignant glioma. *International Journal of Molecular Sciences*. 22: 1-24.
Published
Refereed?: Yes
16. Andrew J. Halayko Christopher D. Pascoe Jessica D. Gereige Michael C. Peters Robyn T. Cohen Prescott G. Woodruff. (2021). Update in Adult Asthma 2020. *American Journal of Respiratory and Critical Care Medicine*. 204(4): 395-402.
Published
Refereed?: Yes

17. Thomas Mahood Christopher D. Pascoe Tobias Karakach Aruni Jha Sujata Basu Peyman Ezzati Victor Spicer Neeloffer Mookherjee Andrew Halayko. (2020). Integrating Lung Tissue and Lavage Proteomes Reveals Unique Pathways in Allergen-Challenged Mice. *ACS Omega*. 6(2): 1171-1189.
Published
Refereed?: Yes
18. Saglani S. Wisnivesky J. Charokopos A. Pascoe CD. Halayko AJ. Custovic A. (2020). Update in Asthma 2019. *American Journal of Respiratory and Critical Care Medicine*. 202(2): 184-192.
Published
Refereed?: Yes
19. Pascoe CD Jha A Ryu MH Ragheb M Basu S Stelmack GL Srinathan S Kidane B Kindrachuk J O'Byrne PM Gauvreau GM Ravandi A Carlsten C Halayko AJ. (2020). Allergen inhalation generates pro-inflammatory oxidized phosphatidylcholine associated with airway dysfunction. *European Respiratory Journal*. 57(2): 1-16.
Published
Refereed?: Yes
20. Christopher D. Pascoe Neilloy Roy Emily Turner-Brannen Alexander Schultz Jignesh Vaghasiya Amir Ravandi Andrew J. Halayko Adrian R. West. (2020). Oxidised Phosphatidylcholines Induce Multiple Functional Defects in Airway Epithelial Cells. *American Journal of Physiology-Lung Cellular and Molecular Physiology*. 321: 703-717.
Published
Refereed?: Yes
21. Christopher D. Pascoe Jignesh Vaghasiya Andrew J. Halayko. (2020). Oxidation Specific Epitopes in Asthma: New Possibilities for Treatment. *The International Journal of Biochemistry & Cell Biology*. 129: 1-7.
Published
Refereed?: Yes
22. Pascoe CD Jha A Basu S Mahood TH Lee AHY Hinshaw SJ Falsafi R Hancock REW Mookherjee N Halayko AJ. (2020). The importance of reporting house dust mite endotoxin abundance: impact on the lung transcriptome. *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 318(6): 1-20.
Published
Refereed?: Yes
23. Christopher Pascoe, Francis Green, John Elliot, Alan James, Peter Noble, Graham Donovan. (2020). Airway remodelling with spatial correlations: implications for asthma pathogenesis. *Respiratory Physiology & Neurobiology*. 279: 1-9.
Published
Refereed?: Yes
24. Christopher D. Pascoe Andrew J. Halayko. (2019). Shot Down Inflamed: Airway Smooth Muscle Bronchodilator Insensitivity in Cystic Fibrosis. *American Journal of Respiratory Cell and Molecular Biology*. 60: 379-381.
Published
Refereed?: Yes
25. Richard Wagner Aruni Jha Shana Kahnamoui Lojine Ayoub Daywin Patel Thomas H. Mahood Andrew J. Halayko Martin Lacher Christopher D. Pascoe Richard Keijzer. (2019). Can Circular RNAs be Used as Prenatal Biomarkers for Congenital Diaphragmatic Hernia?. *European Respiratory Journal*. 55(2): 1-4.
Published
Refereed?: Yes

Conference Publications

1. McKay J.C. Lowry Dina Mostafa Luke Ziemanski Christopher D. Pascoe. Do EpOMEs and DiHOMEs cause Airway Smooth Muscle Contraction?. American Thoracic Society, Abstract
2. Shana Kahnamoui Zadeh Dylan Lloyd Tanja Winter Harold Aukema Neeloffer Mookherjee Christopher D. Pascoe. Airway structural cell oxylipin profiles in vitro are unique and modified by cell stimulation. American Thoracic Society, Abstract
3. John Paul Aguilar Hesham Mohamed Dina H.D. Mostafa Meghan Riddell Christopher D. Pascoe. Amniotic Fluid as a Mediator of the Maternal Environment: The AMME Study. American Thoracic Society, Abstract
4. Sriyani Ranatunga Dina H.D. Mostafa Sujata Basu Chinonye Doris Onuzulu Jignesh Vaghasiya Meaghan J. Jones Christopher D. Pascoe. Studying the relationship between prenatal exposure to diabetes and sensitivity to cigarette smoke in adulthood in mice. American Thoracic Society, Abstract
5. Shana Kahnamoui Zadeh, Benjamin Van Bastelaere, Mitchell Wilson, Samritha Raman Sivakumar, Jignesh Vaghasiya, Christopher D. Pascoe. 19-HETE promotes airway smooth muscle relaxation and reduces DNA synthesis through the prostacyclin receptor. American Thoracic Society, Conference Date: 2023/5 Abstract
6. Shana Kahnamoui Zadeh, Yubin Lei, Sadeesh Srinathan, Richard Liu, Lary Tan, Melanie Morris, Andrew J. Halayko, Biniam Kidane, Christopher D. Pascoe. E-cigarette use in young adults reduces abundance of transcripts related to collagen organization in the lung. American Thoracic Society, Conference Date: 2023/5 Abstract
7. Shana Kahnamoui, Sujata Basu, Daywin Patel, Richard Keijzer, Christopher D. Pascoe. MicroRNA-200b deficiency does not promote house dust mite induced airway dysfunction. American Thoracic Society, Conference Date: 2021/5 Abstract
Refereed?: Yes, Invited?: No
8. Christopher D. Pascoe, Aruni Jha, Sujata Basu, Thomas H. Mahood, Amy Lee, Reza Falsafi, Sam Hinshaw, Robert E.W. Hancock, Andrew J. Halayko. Understanding the anti-inflammatory properties of low-dose intranasal simvastatin in a murine model of allergic asthma. American Thoracic Society, Conference Date: 2021/5 Abstract
Refereed?: Yes, Invited?: No
9. Samantha Pauls Christopher D. Pascoe Lisa Rodway Carla G. Taylor Harold M. Aukema Peter Zahradka. Distinct transcriptional signature of monocytes treated with α -linoleic acid and docosahexanoic acid. Nutrition, Conference Date: 2020/3 Abstract
Refereed?: Yes, Invited?: No
10. Christopher D. Pascoe Sujata Basu Aruni Jha Vernon W. Dolinsky Andrew J. Halayko. Investigating the link between gestational diabetes and risk of asthma in offspring using a mouse model. American Thoracic Society, Conference Date: 2019/5 Abstract
Refereed?: Yes, Invited?: No

11. Christopher D. Pascoe, Mirna MK Ragheb, Gerald L. Stelmack, Aruni Jha, Jason Kindrachuck, Andrew J. Halayko. Unraveling the signalling pathways involved with the pro-inflammatory features of oxidized phosphatidylcholine in airway smooth muscle. American Thoracic Society, Conference Date: 2018/5
Abstract
Refereed?: Yes, Invited?: No
12. Christopher D. Pascoe, Emily Turner-Brannen, Neilloy Roy, Andrew J. Halayko, Adrian R. West. Oxidized phosphatidylcholine induces mitochondrial and endoplasmic reticulum stress in epithelial cells. American Thoracic Society, Conference Date: 2018/5
Abstract
Refereed?: Yes, Invited?: No
13. CD. Pascoe, A. Jha, S. Basu, T.H. Mahood, A. Lee, S. Hinshaw, R. Falsafi, M. Aliani, R. Hancock, N. Mookherjee, A.J. Halayko. Endotoxin levels in house dust mite extract impacts the molecular phenotype of allergic airways inflammation in mice. American Thoracic Society, Conference Date: 2018/5
Abstract
Refereed?: Yes, Invited?: No
14. CD. Pascoe, A. Jha, S. Basu, T. Mahood, A. Lee, R. Falsafi, S. Hinshaw, REW. Hancock, AJ. Halayko. Exploring the impact of intranasal simvastatin on the lung transcriptome. Canadian Respiratory Conference, Conference Date: 2018/4
Abstract
Refereed?: Yes, Invited?: No

Presentations

1. (2023). How does e-cigarette use in young adults influence the lung transcriptome?. American Thoracic Society 2023, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
2. (2023). E-cigarette use and the lung transcriptome in young adults. Canadian Respiratory Conference, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
3. (2022). Turning up the HETE on airway smooth muscle: Understanding the role of hydroxyeicosatetraenoic acids in regulating airway smooth muscle contractility. Research Rounds - Heart Lung Institute UBC, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
4. (2020). Does Chronic Lung Disease Originate in Childhood?. Child Health Research Days 2020, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
5. (2019). Investigating the link between gestational diabetes and risk of asthma in offspring using a mouse model. American Thoracic Society 2019., United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No

Student/Postdoctoral Supervision

Bachelor's [n=1]

2021/1
Co-Supervisor Haziqa Kassim, University of Manitoba
Thesis/Project Title: Does hyperglycemia modify the effect of cigarette smoke on the airway smooth muscle transcriptome. Student started as a co-op student under my co-supervision, then completed their honors thesis (with me as a co-supervisor), and then began working as an undergraduate research associate, co-supervised by me.
Present Position: Undergraduate Research Associate

Master's Thesis [n=6]

2023/9
Co-Supervisor Dagem Chernet, University of Manitoba
Thesis/Project Title: Lung Proteomic Analysis of Patients with Postoperative Respiratory Failure after One-Lung Ventilation Surgery.
Present Position: Masters student

2023/9
Academic Advisor Anam Ara, University of Manitoba
Thesis/Project Title: DNA Methylation Changes Induced by Prenatal Cannabis Exposure in Mice
Present Position: Masters student

2022/9
Principal Supervisor McKay Lowry, University of Manitoba
Thesis/Project Title: Exploring the role of oxylipins in regulating airway smooth muscle physiology
Present Position: Masters student

2022/9
Principal Supervisor Jaypee Aguilar, University of Manitoba
Thesis/Project Title: Understanding the effect of maternal smoking on amniotic fluid inflammatory profile.
Present Position: Masters student

2022/5
Principal Supervisor Sriyani Ranatunga, University of Manitoba
Thesis/Project Title: Maternal diabetes and smoking as early life risk factors for chronic respiratory pulmonary disease
Present Position: Master's Student

2022/1
Academic Advisor Padmanie Ramotar, University of Manitoba
Thesis/Project Title: Human cathelicidin LL-37 and citrullinated LL-37: Differential effects on production of oxylipins and cytokines
Present Position: Masters student

Doctorate [n=3]

2021/1 - 2025/1
Academic Advisor Courtney Marshall, University of Manitoba
Thesis/Project Title: Innate defence regulator (IDR) peptide and airway inflammation: Sex as a biological variable in IDR peptide-mediated immunomodulation.
Present Position: PhD student

2020/9 - 2023/9
Academic Advisor De Leon, Nolan, University of Manitoba
Thesis/Project Title: Assessment of circRNA expression profiles as a biomarker of congenital disease.
Present Position: MD/PhD Student

2019/9 - 2024/9
Academic Advisor

Onuzulu, Chinonye, University of Manitoba
Thesis/Project Title: Epigenetic mechanisms of biological embedding of prenatal cigarette
smoke Student transferred to PhD program in December 2020.
Present Position: PhD Student