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Confirmation Number: 1977934

Template: CIHR Biosketch

Dr. Anna Louise McGuire

Correspondence language: English

Date of Birth: 1/17

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

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Website

Community	https://www.vchri.ca/researchers/anna-l-mcguire
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Dr. Anna McGuire

Degrees

2014/10 - 2017/11	Master's Thesis, Masters of Science - M.Sc., London School of Hygiene & Tropical Medicine Degree Status: Completed
2013/7 - 2014/6	Certificate, Thoracic Surgery Advanced Fellowship, University of Ottawa Degree Status: Completed
2011/7 - 2013/6	Certificate, FRCSC - Thoracic Surgery - Fellow of the Royal College of Physicians and Surgeons of Canada, University of Ottawa Degree Status: Completed
2006/7 - 2011/6	Certificate, FRCSC - General Surgery - Fellow of the Royal College of Physicians and Surgeons of Canada, Queen's University at Kingston Degree Status: Completed
2002/9 - 2006/6	Bachelor's, Doctor of Medicine - M.D., University of Toronto Degree Status: Completed
1997/9 - 2002/5	Bachelor's, Bachelor of Arts - B.A., University of British Columbia Degree Status: Completed

Credentials

2020/7	Certificate in Biospecimen Research Methods, University of British Columbia
2019/3	Physician Leadership Program (PLP) - Certificate, UBC Sauder School of Business
2014/6	Fellowship Certificate in Minimally Invasive Thoracic Surgery, University of Ottawa
2013/7	FRCSC - Thoracic Surgery, Royal College of Physicians and Surgeons of Canada
2011/6	FRCSC - General Surgery, Royal College of Physicians and Surgeons of Canada

Recognitions

2021/11	Best Faculty Research Presentation, UBC Dept. of Surgery Research Day University of British Columbia
2021/1	Dr. H. W. Johnson New Investigator Award - UBC Department of Surgery University of British Columbia
2020/7 - 2022/6	Innovation and Translational Research Award (VCHRI) Vancouver Coastal Health Authority
2020/7 - 2022/6	Mentored Clinician Scientist Investigator Award (VCHRI) Vancouver Coastal Health Authority

Employment

2021/7	Clinical Associate Professor Surgery, Division of Thoracic Surgery, Medicine, University of British Columbia
2017/1	Vancouver General Hospital Site Director – Thoracic Surgery Undergraduate Medical Education (UGME), University of British Columbia Surgery, Medicine, University of British Columbia
2014/10	Thoracic Surgeon Vancouver General Hospital
2017/7 - 2021/6	Clinical Assistant Professor Surgery, Medicine, University of British Columbia
2015/7 - 2019/6	Director – Minimally Invasive Thoracic Advanced Surgery Fellowship, University of British Columbia, Vancouver General Hospital Surgery, Medicine, University of British Columbia
2015/7 - 2017/6	Clinical Instructor Surgery, Medicine, University of British Columbia

Affiliations

The primary affiliation is denoted by (*)

(*) 2021/7 Clinical Associate Professor, University of British Columbia

Leaves of Absence and Impact on Research

2019/6 - 2020/8	Medical, University of British Columbia During this medical leave I completely overcame an extremely serious life-threatening illness. This unexpected unique personal experience inspired and defined my purpose in life as a clinician scientist to improve outcomes for my lung cancer patients. I am immensely grateful for the ongoing privilege afforded of my unique occupation as an academic thoracic surgeon scientist at VGH and UBC. I am able to directly impact the care of lung cancer patients through ongoing translational research collaborations with my research mentors at the BC Cancer Research Centre. During my medical leave I did continue my lung cancer research program with passion and purpose (resulting in two highly competitive funding awards from VCHRI). Despite objective competitive success, I believe I was not able to conduct my research to the level reflective of my full ability during that time period for medical reasons beyond my control.
2018/2 - 2019/1	Parental, University of British Columbia During this parental leave, I was not able to conduct my research to the level reflective of my full ability for reasons beyond my control.

Research Funding History

Awarded [n=17]

2023/4 - 2026/4 HP-I Patient, Public and Community (PPC) Engagement Fund award: Tumour Tissue
Principal Investigator Biomarkers to Guide Personalized Lung Cancer Treatment in BC

Funding Sources:

Michael Smith Foundation for Health Research
Patients , Public and community
Total Funding - 15,000
Funding Competitive?: Yes

2023/4 - 2026/4 Principal Investigator	<p>Co-investigator : Calum Macaulay; Martial Guillaud; S Martin; Stephan Yip</p> <p>Health Professional Investigator (HPI) Award: Tumour Tissue Biomarkers to Guide Personalized Lung Cancer Treatment in BC</p> <p>Funding Sources: Michael Smith Foundation for Health Research Health Professional Investigator Total Funding - 270,000 Funding Competitive?: Yes</p> <p>Co-investigator : Calum Macaulay; Martial Guillaud; S Martin; Stephan Yip</p>
2023/12 - 2025/12 Principal Investigator	<p>A review of predictors of informative liquid biopsy platform in metastatic non-small cell lung cancer</p> <p>Funding Sources: AstraZeneca Canada Inc. Grant Total Funding - 80,000 Funding Competitive?: Yes</p>
2025/1 - 2025/12 Co-investigator	<p>Improving second-line anti-PD-1/PD-L1 therapy for oncogenic driver-positive metastatic nonsmall cell lung cancers progressing after targeted therapy</p> <p>Funding Sources: Lung Cancer Canada and the Monds Family Give a Breath Research Award Total Funding - 25,000 Funding Competitive?: Yes</p> <p>Co-investigator : Calum MacAulay; Cassandra Cheng; Cathy Yan; Janessa Laskin; John English; Julia Naso; Katey Enfield; Martial Guillaud; Robert Kerbel;</p> <p>Principal Investigator : Cheryl Ho</p>
2024/12 - 2025/12 Co-applicant	<p>Identifying biomarkers and therapeutic targets to direct air pollution promoted lung cancer prevention,</p> <p>Funding Sources: Faculty of medicine Precision Health Catalyst Grant Competition Total Funding - 40,000 Funding Competitive?: Yes</p>
2023/9 - 2025/9 Principal Investigator	<p>A RWE Observational Secondary Data Study to Describe the Patient Characteristics, Surgical Outcomes, and Treatment Decisions in Early Stage Resected Non-Small Cell Lung Cancer Patients</p> <p>Funding Sources: Canadian association of thoracic surgeon Canadian association of thoracic surgeon award Total Funding - 100,000 Funding Competitive?: Yes</p> <p>Co-investigator : A Seely; B Melosky; J Spicer</p>
2024/7 - 2025/7 Co-investigator	<p>Nanostring GeoMx Whole Transcriptome Atlas Grant Program"</p> <p>Funding Sources: NanoString Technologies Inc Grant Total Funding - 25,000</p>

	Funding Competitive?: Yes
	Principal Investigator : Emilia Lim
2023/6 - 2024/6 Principal Investigator	A pilot study on the effect of high ambient air pollution exposure on lung age and EGFR mutation in never smokers with lung cancer
	Funding Sources: Lung Cancer Canada lung ambition award Total Funding - 50,000 Funding Competitive?: Yes
	Co-applicant : Janice Leung;
	Co-investigator : Renelle Myers; Stephen Lam; Stephen Yip; Wan Lam; William Lockwood
2023/4 - 2024/4 Principal Investigator	The effect of high ambient air pollution exposure on lung age and EGFR mutation in never smokers with lung cancer
	Funding Sources: Canadian association of thoracic surgeon Canadian association of thoracic surgeon award Total Funding - 25,000 Funding Competitive?: Yes
	Co-investigator : Janice Leung; Renelle Myers; Stephen Lam M; Wan Lam; William Lockwood
2022/5 - 2023/6 Co-applicant	Thoracic Surgery Nurse Navigator impact on lung cancer patient journey: a pilot study
	Funding Sources: Vancouver Coastal Health Research Institute (VCHRI) VCHRI Team Grant Total Funding - 40,000 Funding Competitive?: Yes
2022/5 - 2023/6 Co-applicant	Thoracic Surgery Nurse Navigator impact on lung cancer patient journey: a pilot study
	Funding Sources: Vancouver Coastal Health Research Institute (VCHRI) Team Grant Total Funding - 38,000 Funding Competitive?: No
	Co-applicant : Alexia Jones RN;
	Co-investigator : John Yee MD
2022/7 - 2023/6 Co-applicant	An Observational Secondary Data Study to Describe the Patient Characteristics, Surgical Outcomes, and Treatment Decisions in Early Stage Resected Non-Small Cell Lung Cancer Patients
	Funding Sources: Canadian Association of Thoracic Surgeons (CATS) CATS Research Total Funding - 100,000 Funding Competitive?: Yes
	Co-applicant : Andrew Seely MD, PhD; Jonathan Spicer MD, PhD;
	Co-investigator : Barbara Melosky MD
2020/7 - 2023/6 Principal Applicant	The clinically relevant genomic and immune tumor microenvironment in early stage lung cancer

	Funding Sources: Vancouver Coastal Health Research Institute (VCHRI) Innovation and Translational Research Award Total Funding - 75,000 Funding Competitive?: Yes
2020/7 - 2023/6 Principal Applicant	UBC Department of Surgery Mentored Clinician Scientist Start-up Funds Funding Sources: University of British Columbia Department of Surgery Total Funding - 20,000 Funding Competitive?: Yes
2017/7 - 2022/12 Principal Applicant	Early Investigator, Start-up Funds, VCHRI Funding Sources: Vancouver Coastal Health Research Institute (VCHRI) Early Investigator Total Funding - 75,000 Funding Competitive?: No
2017/6 - 2020/12 Co-investigator	The Terry Fox Pan-Canadian Early Detection of Lung Cancer Program Funding Sources: Terry Fox Foundation (The) Terry Fox Translational Cancer Research Total Funding - 1,900,000 Funding Competitive?: Yes Co-investigator : Calum MacAulay; John Mayo; John Yee; Renelle Myers; Principal Investigator : Stephen Lam
2019/9 - 2020/9 Co-applicant	Lung Cancer Outcomes in Thoracic Surgical Patients Funding Sources: Provincial Health Services Authority (PHSA) Lung cancer research Total Funding - 22,000 Funding Competitive?: Yes Principal Applicant : John Yee

Publications

Journal Articles

1. 2. Allen W Zhang, Vahid Akbari, Andrew Galbraith, Zoe Kore, YuQi Li, Samuel Leung, Jennifer X Ji, Kristy Dever, Julie MacIsaac, Hilary Brewis, Diane Pan, Cornelius Kürten, Andrew Ajisebutu, Alberto Contreras-Sanz, Alireza Moeen, Jeffery Zuccato, Vikas Patil, Peter C Black, Wan Lam, Erin Pleasance, Kieran O'Neill, Steven Jones, Marco Marra, Janessa Laskin, Gelareh Zadeh, Sheila Mansouri, Michael Kobor, Eitan Prisman, Anna McGuire, David G Huntsman, Stephen Yip, Julia R Naso. (2025). Cross-platform methylation-based site of origin classification for squamous cell carcinomas. Modern Pathology. 0: 0. Accepted
2. Anna McGuire et al. (2025). The Terry Fox Research Institute Marathon of Hope Cancer Centres Network: A pan-Canadian precision oncology initiative. Cancer Cell. 43(4): 587-592. Published, Open Access?: Yes

3. Barbara Melosky, Mark D. Vincent, Anna L. McGuire, Anthony M. Brade, Quincy Chu, Parneet Cheema, Ilidio Martins, Jonathan D. Spicer, Stephanie Snow, Rosalyn A. Juergens. (2024). Modern era systemic therapies: Expanding concepts of cure in early and locally advanced non-small cell lung cancer. *International Journal of cancer*. 155(6): 963-978.
Published, Open Access?: Yes
4. D'Amours MF, Wu FTH, Theisen-Lauk O, Chan EK, McGuire AL, Ho C. (2024). Surgically resectable nonsmall cell lung cancer: a contemporary approach. *European Respiratory Journal*. 64(2): 0.
Published
5. Caldwell A, Durkin C, Schisler T, McGuire AL. (2024). Quality of post-operative analgesia of paravertebral blocks vs thoracic epidurals in patients undergoing vats lobectomies. *Regional Anesthesia and Pain Medicine*. 49: 0.
Published
6. Julia R Naso, Stephen Yip, Curtis Hughesman, Barb Melosky, Tanner Dowhy, Melissa K. McConechy, John C. English, Penelope M. A. Brasher, James Choi, Kyle Grant, John Yee, Stephen Lam, Anna McGuire. (2024). Confirmation of recurrent lung cancer following resection using liquid biopsy, a proof-of-concept real world study. *Current oncology*. 31(7): 4052-4062.
Published, Open Access?: Yes
7. James Tankel , Jonathan Spicer , Quincy Chu , Pierre Olivier Fiset , Biniam Kidane, Natasha B Leighl , Philippe Joubert, Donna Maziak, David Palma, Anna McGuire , Barbara Melosky , Stephanie Snow, Houda Bahig, Normand Blais. (2023). Canadian Consensus Recommendations for the Management of Operable Stage II/III Non-Small-Cell Lung Cancer: Results of a Modified Delphi Process. *current oncology*. 30(12): 10363-10384.
Published, Open Access?: Yes
8. David Conen , Michael Ke Wang , Ekaterine Popova , Matthew T V Chan , Giovanni Landoni , Juan P Cata , Cara Reimer , Sean R McLean , Sadeesh K Srinathan , Juan Carlos Trujillo Reyes , Ascension Martín Grande , Anna Gonzalez Tallada , Daniel I Sessler , Edith Fleischmann , Barbara Kabon , Luca Voltolini , Patrícia Cruz , Donna E Maziak , Laura Gutiérrez-Soriano , William F McIntyre , Vikas Tandon , Elisabeth Martínez-Téllez , Juan Jose Guerra-Londono , Deborah DuMerton , Randolph H L Wong , Anna L McGuire , Biniam Kidane , Diego Parise Roux 11, Yaron Shargall , Jennifer R Wells , Sandra N Ofori , Jessica Vincent , Lizhen Xu , Zhuoru Li , John W Eikelboom , Sanjit S Jolly , Jeff S Healey , P J Devereaux ;. (2023). Effect of colchicine on perioperative atrial fibrillation and myocardial injury after non-cardiac surgery in patients undergoing major thoracic surgery (COP-AF): an international randomised trial. *Lancet*. 402(10413): 1627-1635.
Published, Open Access?: No
9. Raphaëlle Brière , Marce Émond , Axel Benhamed , Pierre-Gilles Blanchard , Sébastien Drolet , Rogeh Habashi , Bahar Golbon , Jonas Shellenberger, (2023). 2023 Canadian Surgery Forum: Sept. 20-23, 2023. *Can J Surg*. 66(6): S53–S136.
Published, Open Access?: Yes
10. Mackay E, McGuire AL. (2022). Emerging evidence from peri-eoperative immunotherapy trials in resectable non-small cell lung cancer. *Med Res Arch*. 10(10): 1-8.
Published
Refereed?: Yes, Open Access?: Yes
11. Hilzenrat RA, English JC, McGuire A, Finlayson G, Choi J, Yee J. (2022). Lung Transplantation for COVID-19 Acute Respiratory Distress Syndrome: The British Columbian Experience With New Disease Pathology. *Semin Thorac Cardiovasc Surg*. sem: 1-5.
In Press, Open Access?: Yes

12. McGuire AL, McConechy MK, Melosky BL, English JC, Choi JJ, Peng D, Yee J, Furman BLS, Aguirre Hernandez R, Feijao P, Mulder D, Hughesman C, Yip S. (2022). The Clinically Actionable Molecular Profile of Early versus Late-Stage Non-Small Cell Lung Cancer, an Individual Age and Sex Propensity-Matched Pair Analysis. *Curr Oncol*.29(4): 2630-2643.
Published
Refereed?: Yes, Open Access?: Yes
13. Myers R, Brauer M, Drummer T, Atkar-Khattra S, Yee J, Melosky B, Ho C, McGuire AL,...Lam S. (2021). High Ambient Air Pollution Exposure Among Never Smokers vs. Ever Smokers with Lung Cancer. *J Thoracic Oncology*. 16(11): 1850-1858.
Published
Refereed?: Yes, Open Access?: Yes
14. Hilrenzat, R, Deen SA, Yee J, Grant KA, Ashrafi AS, Coughlin S, McGuire AL. (2021). Thoracic Surgeon Impressions of the Impact of the COVID-19 Pandemic on Lung Cancer Care – Lessons from the First Wave in Canada. *Current Oncology*.28(1): 940-949.
Published
Refereed?: Yes, Open Access?: Yes
15. McGuire AL. (2020). Commentary: molecular biology, location, and survival following pulmonary metastectomy for colorectal carcinoma. *Journal of Thoracic and Cardiovascular Surgery*. 162(1): 307-308.
Published
Refereed?: Yes, Open Access?: Yes
16. Anna L McGuire, Curtis B Hughesman, Melissa K McConechy, Barb Melosky, Stephen Lam, Renelle Myers,. (2020). Optimizing Molecular Residual Disease Detection Using Liquid Biopsy Postoperatively in Early Stage Non-small-cell Lung Cancer. *Lung Cancer Management*.9(2): LMT24.
Published
Refereed?: Yes, Open Access?: Yes
17. Coutsinos A, Grant K, Yee J, McGuire AL. (2020). Commentary: Evolving clinical value of pulmonary nodule image-guided localization technology for the thoracoscopic surgeon. *J Thorac Cardiovasc Surg Techniques*. 3: 336-337.
Refereed?: Yes, Open Access?: Yes
18. McGuire AL, Yee J. (2019). Commentary: Navigating the Perils of Esophageal Surgery. *The Journal of Thoracic and Cardiovascular Surgery*. 159(5): 2108-2109.
Published
Refereed?: Yes, Open Access?: No
19. Ho, S, Lefresnes D, Liebermann M, McGuire A, Palma D, Pender A, Snow S, Tremblay A, Myers R. (2019). Lung cancer in Canada. *Journal of Thoracic Oncology*. 14(7): 1128-1130.
Published
Refereed?: Yes, Open Access?: Yes
20. McGuire AL, Myers R, Grant K, Lam S, Yee J. (2019). The Diagnostic Accuracy and Sensitivity for Malignancy of Radial-Endobronchial Ultrasound and Electromagnetic Navigation Bronchoscopy for Sampling of Peripheral Pulmonary Lesions: Systematic Review and Meta-analysis. *The Journal of Bronchology and Interventional Pulmonology*. 27(2): 106-121.
Published
Refereed?: Yes, Open Access?: No
21. McGuire AL, Vieira A, Grant K, Mayo K, Sedlich Y, Choi J, Yee J. (2019). Computed tomography-guided platinum microcoil lung surgery: A cross-sectional study. *The Journal of Thoracic and Cardiovascular Surgery*. 158(2): 594-600.
Published
Refereed?: Yes, Open Access?: Yes

22. McGuire AL, Mousadoust S, Yeung C, Myers R, Grant K, Nasir B, Yee J. (2019). Incidence of parapneumonic empyema and complex parapneumonic effusion: A retrospective cohort study of 1766 pneumonia cases at a tertiary-level regional thoracic surgery referral center. *Canadian Journal of Respiratory, Critical Care, and Sleep Medicine*. 4(1): 31-38.
Published
Refereed?: Yes, Open Access?: No
23. McGuire AL, Yee J. (2018). Precise capture of Thoracic Morbidity and Mortality (TMM): Essential to the process and culture of quality improvement. *The Journal of Thoracic and Cardiovascular Surgery*. 155(3): 1309 – 1310.
Published
Refereed?: Yes
24. Nanji S, Karim S, Tang E, Brennan K, McGuire AL, Booth C. (2018). Pulmonary metastectomy for colorectal cancer: the role of lymph nodes and independent predictors of survival in routine surgical practice. *Annals of Thoracic Surgery*. 105(6): 1605-1612.
Published
Refereed?: Yes, Open Access?: No
25. McGuire AL, Yee J. (2018). Clinical outcomes of polymeric sealant use in pulmonary resection: A systematic review and meta-analysis of randomized controlled trials. *Journal of Thoracic Disease*. 10(32): S3728-S3739.
Published
Refereed?: Yes, Open Access?: Yes

Book Chapters

1. Anna McGuire, Sudhir Sundaresan. (2020). Thorax - Dysphagia. Swanson S. *ACS Surgery*. 9th ed. Published, American College of Surgeons, United States of America
2. Anna McGuire, Arthur Vieira, Paula Ugalde, Sebastian Gilbert. (2019). Esophagectomy – VATS approach. Camargo J. *Thoracic Surgery - Update*. 1st Ed
Published, Thieme Revinter, Brazil

Clinical Care Guidelines

1. Co-Author. Consultation on Tumour-Specific Pathways. (2024).
Contributors: Howard Lim, Taiho, Eisai, Beigene, Varian, Catherine Clelland,
Description / Contribution Value: My contributions have ensured that the pathways are aligned with the latest evidence-based practices, enhancing patient care and streamlining treatment protocols. My dedication to the consultation process and collaborative approach have significantly impacted the effectiveness and applicability of these clinical care pathways.
2. Co-Author. BC Cancer Agency lung cancer recurrence surveillance guidelines after intent surgical resection. (2020).
Contributors: Barb Melosky, Anna L. McGuire, Cheryl Ho
Description / Contribution Value: I wrote the updated BCCA evidence based clinical practice guidelines for recurrence surveillance after curative intent surgical resection of non-small-cell lung cancer.

Conference Publications

1. A. L. McGuire, B. Melosky, N. Ahmadi, R. Meza, A. Wallace, G. Vaseghi, K. Xu, J. Spicer, A. J. Seely. Patient Characteristics, Surgical Outcomes, and Treatment Decisions in Early-Stage Resected NSCLC in Canada. *IASLC World Conference on Lung Cancer*,
Poster

2. Anna McGuire, Ana Hernandez, Golnaz Vaseghi, Emilia Lim, Stephen Lam, Renelle Myers, Janice Leung. Impact of Air Pollution and EGFR Mutation on Epigenetic Age and Lung Cancer: A Pilot Study. IASLC World Conference on Lung Cancer, Barcelona, Spain
Conference Date: 2025/9
Abstract
3. Anna McGuire , S. Martin , J. Naso, K. Nouredine , R. Xiang , P. Arora , M. Guillaud , C. Ho , C. Macaulay. Prognostic Significance of T Cell Subtypes in the Tumour Microenvironment for Recurrence Following Curative-Intent Resection in Early-Stage NSCLC. European Lung Cancer Congress,
Conference Date: 2025/4
Poster
4. R Knirsh, O Savin, S Danan, S Zaouch, N Axelrad, D Netanel, A Shuali, S Lam, A McGuire, P Mazzone, S Deppen, E Grogan, F Maldonado, CA Schnabel, A Wasserstrom, D Frumkin. Development of a Genome-wide Multiomic Atlas of Early-stage Lung Cancer Enables Identification of Novel Methylation Biomarkers for Disease Detection Beyond TCGA. American Association for Cancer Research (AACR) annual meeting,
Conference Date: 2023/4
Abstract
5. D Netanel, O Savin, S Danan, S Zaouch, N Axelrad, R Knirsh, O Shliefer, R Duttgupta, A Shuali, S Lam, A McGuire, S Deppen, E Grogan, F Maldonado, M Gieske, J Seaman, K Rieger-Christ, L Herrera, P Mazzone, G Silvestri, CA Schnabel, D Frumkin, A Wasserstrom. Machine-learning-based Epigenetic Detection of Early-stage Lung Cancers Using the EpiCheck Liquid Biopsy Platform. American Association for Cancer Research (AACR) annual meeting,
Conference Date: 2023/4
Abstract
6. McGuire AL, Hilzenrat R, Sharma S, McConechy M, Yip S. Cell free DNA as a biomarker of well-being in early-stage non-small cell lung cancer. IASLC World Conference on Lung Cancer (WCLC), Vienna, Austria
Conference Date: 2022/8
Abstract
Refereed?: Yes
7. Hilzenrat R, Choi, JJ, McGuire AL, Yee J. Lung Transplantation for COVID-19 Induced Pulmonary Fibrosis: A High Volume Transplant Centre Experience. BC Surgical Society Annual Meeting, Kelowna, Canada
Conference Date: 2022/5
Abstract
Refereed?: Yes
8. Nouredine K, Gallagher P, Thomas G, Lam S, MacAulay G, McGuire A, English J, Guillaud M, MacAulay C. Investigating intra-tumor heterogeneity in non-small cell lung cancer using multiplexed immunohistochemistry and deep learning. SPIE, San Diego, United States of America
Conference Date: 2022/4
Paper
Refereed?: Yes
9. McGuire AL, MacKay E, Brasher P.A.M, Alghunaim E, Yee. Impact of carbohydrate loading enhanced recovery after surgery protocol on adverse cardiopulmonary events in a thoracic surgery population. American Association of Thoracic Surgeons International Oncology Summit Oct 2019, New York, NY, United States of America
Conference Date: 2019/11
Abstract
Refereed?: Yes

10. Wiebe DP, Myers R, Atka-Khattra S, Wilson D, Hamm J, McGuire AL, Yee J, Lam S. Clinical utility of PET-CT scan for mediastinal staging of screen detected lung cancer. American Thoracic Society annual (ATS) meeting, Dallas Texas, United States of America
Conference Date: 2019/5
Abstract
Refereed?: Yes
11. Yuan R, Mayo J, Myers R, Streit I, Atkar-Khattra S, Yee J, Grant K, Lee A, McGuire AL, Jacobs C, van Ginneken B, Tammemagi M, Lam S. Randomized Clinical Trial of CAD vs. No CAD as First Reader of Lung Cancer Screening CT – Preliminary Report. Radiological Society of North America (RSNA) Annual Meeting., Chicago, United States of America
Conference Date: 2018/11
Abstract
Refereed?: Yes
12. Vieira A, Mousadoust D, Yee J, McGuire AL. Incidence and Histopathological Features of Thymomatous Myasthenia Gravis Following Total Thymectomy at a Tertiary Level Thoracic Surgical Center. The 9th International Thymic Malignancy Interest Group Annual Meeting., Seoul, Korea, South
Conference Date: 2018/10
Abstract
Refereed?: Yes
13. Lam S, Myers R, Atkar-Khattra S, Yuan R, Yee J, English J, Grant K, Lee A, McGuire AL, McWilliams A, Brims F, Stone E, Chin V, Chantrill L, Connellan M, Plitt M, Marshall H, Yang I, Bowman R, Fong K, J. Mayo J. Prospective evaluation of the clinical utility of the international lung screen trial lung nodule management protocol. World Conference of Lung Cancer (WCLC)., Toronto, Canada
Conference Date: 2018/9
Abstract
Refereed?: Yes
14. Myers R, Brauer M, Ladhar S, Atkar-Khattra S, Yee J, Ho C, McGuire AL, Grant K, Lee A, Melosky B, Sun S, Tammemagi M, Lam S. Association between outdoor air pollution and lung cancer in female never smokers. World Conference of Lung Cancer (WCLC)., Toronto, Canada
Conference Date: 2018/9
Abstract
Refereed?: Yes

Presentations

1. (2022). Immunotherapy for early stage non-small cell lung cancer: the inflection point. Conference on Hematology and Oncology, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
2. Dr Thomas D'Amico (Duke University) Dr Paula Ugalde (Laval University). (2021). Thoracoscopic Lobectomy: Clinical Stage II Lung Cancer (emphasis on large tumors). American Association of Thoracic Surgeons (AATS) VATS (Video Assisted Thoracic Surgery) Webinar Series, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
3. McGuire AL. (2020). NGS and Circulating Tumor DNA in Lung Cancer – The Surgeon's Perspective. Canadian Lung Cancer Conference, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No

4. McGuire AL, Myers R, Lam S, Yee J. (2018). Reliability of CT chest and PET-CT in pre-operative staging of clinically detected pT1a non-small-cell-lung cancer. American Association of Thoracic Surgeons (AATS) International Surgical Oncologic Summit, Oct 11th 2018, New York, NY, USA., United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
5. McGuire AL, Vieira A, Grant K, Mayo J, Sedlich Y, Choi J, Yee J. (2018). CT-Guided platinum microcoil lung surgery. American Association of Thoracic Surgeons (AATS) International Surgical Oncologic Summit, Oct 12th 2018, New York, NY, USA., United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

Student/Postdoctoral Supervision

Master's Thesis [n=1]

2021/8
Principal Supervisor Dr Roy Hilzenrat, University of British Columbia
Thesis/Project Title: The effect of adverse event grade on quality of life after lung cancer surgery
Present Position: Graduate Student

Doctorate [n=6]

2021/9
Principal Supervisor Dr. Jonice Costa, University of British Columbia
Thesis/Project Title: Advanced Minimally Invasive Thoracic Surgery Fellowship
Present Position: Thoracic Surgical Fellow

2021/7
Co-Supervisor Dr Emily Mackay, University of British Columbia
Thesis/Project Title: FRCSC - Thoracic Surgery
Present Position: Thoracic Surgical Fellow

2020/9
Co-Supervisor Kouther Nouredine, University of British Columbia
Thesis/Project Title: The Clinically relevant molecular and immune tumour microenvironment in early stage NSCLC
Present Position: Graduate Student

2019/7 - 2021/6
Co-Supervisor Dr. Dimitrios Coutsinos, University of British Columbia
Thesis/Project Title: FRCSC - Thoracic Surgery
Present Position: UBC Thoracic Surgical Fellow

2019/7 - 2021/6
Co-Supervisor Dr Essa Alghunaim, University of British Columbia
Thesis/Project Title: FRCSC - Thoracic Surgery
Present Position: UBC Thoracic Surgical Fellow

2014/10 - 2016/6
Co-Supervisor Dr. Simon Turner, University of British Columbia
Thesis/Project Title: FRCSC - Thoracic Surgery
Present Position: Thoracic Surgeon - Alberta Health Services, Edmonton Alberta

Certificate [n=3]

2022/8 - 2022/7
Principal Supervisor Mohammad Diab, University of British Columbia
Thesis/Project Title: Thoracic Surgical Research and Clinical Fellow
Present Position: In progress

2018/7 - 2019/6	Dr. Arthur Vieira, University of British Columbia
Principal Supervisor	Thesis/Project Title: Advanced Minimally Invasive Thoracic Surgery Fellowship Present Position: Thoracic Surgeon, Laval University, QC
2015/7 - 2016/9	Dr. Nick Kang, University of British Columbia
Principal Supervisor	Thesis/Project Title: Advanced Minimally Invasive Thoracic Surgery Fellowship Present Position: Cardiothoracic Surgeon, National Heart Centre, Singapore

Date Submitted: 2025-08-17 23:46:44

Confirmation Number: 1963346

Template: CIHR Biosketch

Dr. Ren Yuan

Correspondence language: English

Sex: Female

Date of Birth: 5/18

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

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Primary Affiliation (*)

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Work (*) ren.yuan@bccancer.bc.ca



Protected when completed

Dr. Ren Yuan

Degrees

2004/5 - 2009/6	Doctorate, Experimental Medicine, UBC Degree Status: Completed
1992/9 - 1997/6	Bachelor's, Medicine, Tongji Medical School Degree Status: Completed

Credentials

2021/6	Dr. Ren Yuan, MD PhD FRCPC Consultant Radiologist Diagnostic Imaging, BC Cancer, part of the Provincial Health Services Authority
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Recognitions

2025/8 - 2028/7	BC Cancer Foundation Emerging Multi-Disciplinary Research Program Award 2025 Competition BC Cancer Foundation
2024/2 - 2026/2	BC Cancer Clinician Researcher Start Up Award BC Cancer, part of the Provincial Health Services Authority
2023/9 - 2024/6	Best Community Teacher Award, UBC Radiology Residency Program Technical University of British Columbia
2023/4 - 2028/3	2022 Michael Smith Health Professional-Investigator (HPI) Award Michael Smith Foundation for Health Research
2022/5 - 2023/6	UBC FOM Precision Health Catalyst Grant Award UBC

Employment

2025/7	Clinical Professor, Department Vice Chair of Quality Radiology, Medicine, University of British Columbia
2025/4	Vice-Chair of Quality, Department of Radiology University of British Columbia
2024/2	Medical Lead BC Cancer Medical Imaging Core Lab BC Cancer Institute Clinical Research, Medicine, BC Cancer, part of the Provincial Health Services Authority
2022/11	Consultant Radiologist CT Lung Cancer Screening Guideline Working Group Canadian Association of Radiologist (CAR) Canadian Association of Radiologist

2022/6	Co-Lead Advanced Radiology Imaging Core Leon Judah Blackmore Foundation PRO-Lung Integrative Oncology, FOM, BC Cancer, part of the Provincial Health Services Authority
2020/6	Oncologic Imaging Rotation Supervisor/Academic Advisor Radiology Resident Program Radiology, FOM, UBC University of British Columbia
2020/1	Consultant Radiologist Canadian Chinese Medical Association Canadian Chinese Medical Association
2021/6 - 2027/5	UBC Radiology Clinical Faculty Affairs Advisory Council (CFAC) representative University of British Columbia
2021/12 - 2025/6	Clinical Associate Professor Radiology, FOM, UBC
2017/11 - 2021/12	Clinical Assistant Professor Radiology, FOM, UBC
2015/7 - 2017/11	Clinical Instructor Radiology, FOM, UBC

Affiliations

The primary affiliation is denoted by (*)

(*) 2015/6 Consultant Radiologist, Diagnostic Imaging, BC Cancer, PHSA

Research Funding History

Awarded [n=12]

2025/8 - 2028/8 Principal Investigator	BC Cancer Next-Generation Cancer Imaging Program for Precision Oncology Funding Sources: BC Cancer Foundation (Canada) BC Cancer Foundation Emerging Multi-Disciplinary Research Program Total Funding - 1,199,915 Funding Competitive?: Yes
2023/4 - 2028/3 Principal Applicant	Clinical Applications And Implementation Of Artificial Intelligence In Lung Cancer - Predicting Treatment Response In Advanced Disease And Risk Of Malignancy In Lung Cancer Screening Funding Sources: Michael Smith Foundation for Health Research Health Professional-Investigator Competition Award Total Funding - 450,000 Funding Competitive?: Yes
2023/4 - 2028/3 Principal Applicant	Patient, Public and Community Engagement Fund of the Michael Smith Health Research BC - HPI Award Funding Sources: Michael Smith Foundation for Health Research Patient, Public and Community Engagement Fund Total Funding - 15,000 Funding Competitive?: Yes
2024/9 - 2027/8 Co-investigator	The BC Cancer Provincial von Hippel Lindau Registry and Biobank

Funding Sources:

BC Cancer Foundation (Canada)
 BC Cancer Foundation Emerging Multi-Disciplinary Research Program
 Total Funding - 1,115,083
 Funding Competitive?: Yes

2025/7 - 2027/6
 Co-investigator

Investigating the use of bladder MRI and utDNA to detected clinical complete responder following neoadjuvant therapy for muscle-invasive bladder cancer

Funding Sources:

Vancouver Coastal Health Research Institute (VCHRI)
 2025 VCHRI Innovation and Translational Research Award
 Total Funding - 100,000
 Funding Competitive?: Yes

2024/7 - 2026/7
 Co-investigator

Evaluation of early ctDNA reduction as a surrogate marker of response in urothelial cancer

Funding Sources:

BC Cancer, part of the Provincial Health Services Authority
 BC Cancer Clinician Researcher Start Up
 Total Funding - 293,632
 Funding Competitive?: Yes

2025/4 - 2026/3
 Co-investigator

Predicting EGFR mutation in non-small cell lung carcinoma through integrated models of pathology, radiology and demographic data

Funding Sources:

University of British Columbia
 FOM Precision Health Grant
 Total Funding - 40,000
 Funding Competitive?: Yes

2024/3 - 2026/2
 Principal Applicant

Artificial Intelligence Models to Predict Response and Survival in Advanced NSCLC Patients with PD-L1 \geq 50% Receiving 1st-Line Pembrolizumab Monotherapy

Funding Sources:

BC Cancer, part of the Provincial Health Services Authority
 BC Cancer Clinician Researcher Start Up 2024
 Total Funding - 277,000
 Funding Competitive?: Yes

2024/7 - 2025/6
 Co-investigator

Active surveillance vs definitive local therapy for patients showing clinical complete response following neoadjuvant cisplatin-based chemotherapy

Funding Sources:

Canadian Institutes of Health Research (CIHR)
 CIHR and the Strategy for Patient-Oriented Research (SPOR)
 Total Funding - 200,000
 Funding Competitive?: Yes

2023/5 - 2025/5
 Principal Applicant

Artificial Intelligence Imaging Tools to Assist Precise And Personalized Oncology

Funding Sources:

University of British Columbia
 Radiology AI Research Program
 Total Funding - 60,000
 Funding Competitive?: Yes

2022/5 - 2023/6
 Principal Applicant

An AI model to predict future lung cancers risk with low-dose screening CT

Funding Sources:

University of British Columbia

Precision Health Catalyst Grant

Total Funding - 49,285

Funding Competitive?: Yes

2021/5 - 2021/7

Principal Investigator

2021 Globalink Research Internship sponsored by Mitacs

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS)

Globalink Research Internship

Total Funding - 6,000

Funding Competitive?: Yes

Completed [n=3]

2019/9 - 2021/9

Principal Investigator

Radiomic phenotype features predict response in NSCLC to immunotherapy

Funding Sources:

University of British Columbia

Medicine

Total Funding - 10,000

Funding Competitive?: Yes

2016/7 - 2021/6

Co-investigator

Prospective Evaluation of Selection Criteria for Lung Cancer Screening With Low-dose Thoracic CT and Standardized System For Nodule Management – An International Study

Funding Sources:

Vancouver General Hospital and University of British Columbia Hospital Foundation (VGH and UBC Hospital Foundation)

Vancouver General Hospital and University of British Columbia Hospital Foundation

Total Funding - 265,309

Funding Competitive?: Yes

2017/1 - 2020/12

Co-investigator

Pan-Canadian Early Detection of Lung Cancer Study Extension Project

Funding Sources:

Terry Fox Research Institute (TFRI)

Terry Fox Research Institute

Total Funding - 499,157

Funding Competitive?: Yes

Publications

Journal Articles

1. Somayeh Sadat Mehrnia, Zhino Safahi, Amin Mousavi, Fatemeh Panahandeh, Arezoo Farmani, Ren Yuan, Arman Rahmim, Mohammad R. Salmanpour. (2025). Landscape of 2D DeepLearning Segmentation Networks Ap-plied to CT Scan from Lung Cancer Patients: A Systematic Review. Journal of Imaging Informatics in Medicine. 3: 1-30.
Published
2. Salmanpour, M.R.; Gorji, A.; Mousavi, A.; Fathi Jouzdani, A.; Sanati, N.; Maghsudi, M.; Leung, B.; Ho, C.; Yuan, R.; Rahmim, A. (2025). A. Enhanced LungCancer Survival Prediction Using Semi-Supervised Pseudo-Labeling and Learningfrom Diverse PET/CT Datasets. Cancers. 17: 285.
Published
Refereed?: Yes, Open Access?: Yes

3. Janzen, I.; Ho, C.; Melosky, B.; Ye, Q.; Li, J.; Wang, G.; Lam, S.; MacAulay, C.; Yuan, R*. (2024). Machine Learning and ComputedTomography Radiomics to Predict Disease Progression to Upfront PembrolizumabMonotherapy in Advanced Non-Small-Cell Lung Cancer: A Pilot Study.Cancers. 17(29): 1-20.
Published
Refereed?: Yes, Open Access?: Yes
4. Rahmim A, Toosi A, Salmanpour MR, Dubljevic N, Janzen I, Shiri I, Yuan R, Ho C, Zaidi H, MacAulay C, Uribe C, Yousefirizi F. (2023). Tensor Radiomics: Paradigm for Systematic Incorporation of Multi-Flavoured Radiomics Features.Quant Imaging Med Surg. 13(12): 76.
Published
Refereed?: Yes
5. Silver A, Ho C, Ye Q, Zhang J, Janzen I, Li J, Martin M, Wu L, Wang Y, Lam S, C. MacAulay, B. Melosky, R. Yuan. (2023). Prediction of Disease Progression to Upfront Pembrolizumab Monotherapy in Advanced Non-Small-Cell Lung Cancer with High PD-L1 Expression Using Baseline CT Disease Quantification and Smoking Pack Years.Curr. Oncol.30: 5546-5559.
Published, Open Access?: Yes
6. Cressman S, Weber MF, Ngo PJ, Wade S, Behar Harpaz S, Caruana M, Tremblay A, Manser R, Stone E, Atkar-Khattra S, Karikios D, Ho C, Fernandes A, Yi Weng J, McWilliams A, Myers R, Mayo J, Yee J, Yuan R, Marshall HM, Fong KM, Lam S, Canfell K, Tammemägi MC. (2023). Economic impact of using risk models for eligibility selection to the International lung screening Trial. Lung Cancer. 176: 38-45.
Published
Refereed?: Yes, Open Access?: No
7. Yang H, Yuan R, Deepu A, Hughesman C, Liu S, Lee U, Zhou, C, Wang, G. (2022). Metastatic small bowel adenocarcinoma mimicking aprimary ovarian mucinous tumour – clinical, radiologic, pathologic andmolecular correlation.Int J Surg Pathol.Apr 28;: 10668969221098083..
In Press
Refereed?: Yes
8. Tammemagi M, Ruparel M, Tremblay A, Myers R, Mayo J, Yee J, Atkar-Khattra S, Yuan R, Cressman S, English J; Bedard E, MacEachern P, Burrows P, Quaife SL, Marshall H, Yang I, Bowman R, Passmore L, McWilliams A, Brims F, Lim KP, Mo L, Melsom S, Saffar B, The M, Sheehan R, Kuok Y, Manser R, Irving L, Steinfort D, McCusker, M, Pascoe D, Fogarty P, Stone E, Lam, D, Ng MY, Vardhanabhuti V, Berg CD, Hung RJ, Janes SM, Fong K, Lam S. (2022). USPSTF2013 versus PLCOm2012 lung cancer screening eligibility criteria (International Lung Screening Trial): interim analysis of a prospective cohort study. The Lancet Oncology. 23(1): 138–148.
Published
Refereed?: Yes
9. J. Ko, S. Banerji, N. Blais, A. Brade, C. Clelland, D. Schellenberg, S. Snow, P. Wheatley-Price, R. Yuan, B. Melosky. (2022). Follow-up Guidelines for Patients with Stage III Unresectable NSCLC: Consensus Recommendations based on the PACIFIC Trial.Curr. Oncol.30: 3817-3828.
Published, Open Access?: Yes
10. Fan J, Yuan R, Stefanelli D, Wang G. (2021). Metastatic Seminoma with Positive Staining of Cytokeratin and MOC31: A Diagnostic Pitfall.Case Rep Pathol .9992978: 9992978..
Published
Refereed?: Yes
11. Wang G, Yuan R, Zhou C, Guo C, Villamil C, Hayes M, Eigl B, Black P. (2021). Urinary Large Cell Neuroendocrine Carcinoma: A Clinicopathologic Analysis of 22 Cases.Surg Pathol.45: 1399-1408.
Published
Refereed?: Yes

12. Wang G, Xiong W, Tucker T, Tran H, Nappi L, Yuan R. (2021). Primary Pure Carcinoid Tumor of the Testis: Radiology, Pathology and Molecular Correlation. *Urology case reports*. 39: 101787.
Published
Refereed?: Yes
13. Chan M, Ferguson D, Ni Mhurchu E, Yuan R, Gondara L, McKenzie M, Olson R, Thiessen B, Lalani N, Ma, R, Nichol A. (2020). Patients with pretreatment leukoencephalopathy and older patients have more cognitive decline after whole brain radiotherapy. *Radiat Oncol*. 15(271): 1-11.
Published
Refereed?: Yes
14. Yuan R, Zhou C, Meneghetti V, Lavoie JM, Kollmannsberger C, Wang G. (2019). Seminoma Presenting as a Solitary Metastasis in Gastric Mucosa with Regressed Testicular Mass. *Urology Case Reports*. 29: 101083.
Published
Refereed?: Yes
15. Tammemagi M, Ritchie AJ, Atkar-Khattra S, Dougherty B, Sanghera C, Mayo JR, Yuan R, Manos D, McWilliams AM, Schmidt H, Gingras M, Pasian S, Stewart L, Tsai S, Seely JM, Burrowes P, Bhatia R, Haider EA, Boylan C, Jacobs C, van Ginneken B, Tsao MS, Lam S; Pan-Canadian Early Detection of Lung Cancer Study Group. (2019). Pan-Canadian Early Detection of Lung Cancer Study Group. Predicting Malignancy Risk of Screen-Detected Lung Nodules-Mean Diameter or Volume. *J Thorac Oncol*. 14(2): 203-211..
Published
Refereed?: Yes
16. Wang G, Yuan R, Tucker T, Gates A, Bellamy C, Hayes M. (2018). Combined papillary renal cell carcinoma with neuroendocrine differentiation and mucinous tubular and spindle cell carcinoma. *Case Reports in Pathology*. v2018: 8734823.
Published
Refereed?: Yes

Clinical Care Guidelines

1. co-author. Follow-Up Imaging Guidelines for Patients with Stage III Unresectable NSCLC: Recommendations Based on the PACIFIC Trial. *Curr Oncol*. 2023 Mar 29;30(4):3817-3828. doi: 10.3390/currenol30040289. PMID: 37185402; PMCID: PMC10137068. (2023).
Contributors: Ko JJ, Banerji S, Blais N, Brade A, Clelland C, Schellenberg D, Snow S, Wheatley-Price P, Yuan R, Melosky B.
Description / Contribution Value: This guideline is for Canadian Lung Cancer Group to streamline imaging follow-up protocol in stage III unresectable NSCLC. I contributed to the writing, reviewing and editing the paper.

Conference Publications

1. Yuan R, Mayo J, Myers R, Atkar-Khattra S, Yee J, English J, Chen D, Lam S. Value of Computer Aided Diagnosis on Radiologists' Workflow and Recommendation for Reporting Lung Cancer Screening LDCT. MA11 -Optimization of Technologies for Lung Cancer Screening: Population Selection and Nodule Handling. *IASLC 2022 World Conference on Lung Cancer | Vienna, Austria (WCLC 2022)*,
Abstract, Invited?: No
2. Janzen I, Abraham R, Seyyedi S, Khattra S, Mayo J, Yuan R, Myers R, Lam S, MacAulay C. Radiomics Based Machine Learning Model for Sub-cm Lung Nodule Malignancy Diagnosis in the PanCan Screening Study. Aug 7, 2022. *IASLC 2022 World Conference on Lung Cancer | Vienna, Austria (WCLC 2022)*,
Abstract, Invited?: No

3. Lam S, Mayo J, Myers R, Yee J, Aka-Khattra S, English J, Yuan R, Wu M, Huang P. Optimizing Screening Frequency and Interval Using a Deep Learning Algorithm. IASLC 2022 World Conference on Lung Cancer | Vienna, Austria (WCLC 2022),
Poster, Invited?: No
4. Yuan R, Silver A, Ye Q, Ho C, Zhang J, Wang Y, Wu L, Martin M, Lam S, MacAulay C, Melosky B. Combination of baseline disease and smoking pack-years can guide the 1st-line treatment decision in advanced NSCLC with high PD-L1 expression. EP08.01. IASLC 2022 World Conference on Lung Cancer | Vienna, Austria (WCLC 2022),
Poster, Invited?: No
5. Yuan R, Jazen I, Ho C, Melosky B, Li J, Lam S, MacAulay C. A Radiomics Approach Using Baseline CT Can Predict Response to 1st-Line Pembrolizumab in Advanced NSCLC with High PD-L1 Session: P2.09 -Pulmonology, Radiology, and Staging. IASLC 2022 World Conference on Lung Cancer | Vienna, Austria (WCLC 2022),
Poster, Invited?: No
6. Wong SK, Shen YQ, Weymann D, Nelson J, Shirvani D, Fisic A, Mungall AJ, Yuan R, Martin M, Ferguson DJ, Cafferty F, Laskin J, Marco A Marra MA, Lim, H, Mar C. British Columbia's Personalized Oncogenomics Research Program: Predictors of Biopsy Success for Genomic Analysis) poster presentation at Society of Interventional Oncology (SIO) February 3-6, 2021. Virtual Event,
Abstract, Invited?: No
7. Janzen, I; Abraham, R; Seyyedi, S; Ho. C; Melosky, B; Martin, M; Lam, S; Yuan, R*; MacAulay, C*. Predicting Treatment Response to 1st- line Pembrolizumab in Advanced NSCLC Patients with High PDL1 Expression. IASLC World Conference on Lung Cancer Denver, USA, September 8-14, 2021, Virtual Event.,
Abstract, Invited?: No
8. Janzen, I; Abraham, R; Seyyedi, S; Ho. C; Melosky, B; Martin, M; Lam, S; MacAulay*, C; Yuan, R*. Predicting Treatment Response to 1st- line Pembrolizumab with Machine Learning in Advanced NSCLC Patients with High PDL1 Expression. BIGX- Bioinformatics | Interdisciplinary Oncology | Genome Science +Technology Vancouver BC CANADA March 30th 2021. Virtual Event,
Abstract, Invited?: No
9. Myers R, Mayo J, Atkar-Khattra S, Yuan R, Yee J, English J, Grant K, McGuire A, Lee, Dewar L MD, Tammemagi M, Lam S. Prospective Evaluation of the International Lung Screening Trial (ILST) Protocol for Management of First Screening LDCT. IASLC World Conference on Lung Cancer Denver, USA, September 8-14, 2021, Virtual Event.,
Poster, Invited?: No
10. Yuan R. Head Neck Cancer Post-Treatment Imaging – what do we see and what do we look for? Vancouver, BC, Canada, Neuroimaging: Approach to Head and Neck Tumours. British Columbia Radiology Society May 15, 2021,
Paper, Invited?: Yes
11. Yuan R. CT Guided Biopsy for Screen Detected Peripheral Lung Lesions – The Real Truth!. Canadian Lung Cancer Conference Feb 6-7, 2020,
Paper, Invited?: Yes
12. Li J, Zhang J, Ho C, Myers R, Mar C, Martin, M, Melosky B, Lam S, Yuan R. Regression of the Ground Glass Component in Patients with Multifocal Primary Lung Cancers Receiving Pembrolizumab. 2020 WCLC Singapore Jan 28-31. Virtual Event,
Abstract, Invited?: No
13. Al-hashami Z, Wong S, Shokoohi A, Pender A, Naso J, Ionescu D, Yuan R, Ying Wang, Cheryl Ho. Treatment Past Progression with Second Line Nivolumab in Advanced Stage NSCLC. 2020 WCLC Singapore Jan 28-31. Virtual Event,
Abstract, Invited?: No

14. Cressman S, Tammemagi M, Myers M, Atkar-Khattra S, Yuan R, Fernandes A, Mayo J, Yee J, English J, and Lam S. Economic impact of screening selection with the PLCOm2012 risk model versus USPSTF-guidelines in the International Lung Screening Trial (ILST). 2020 WCLC Singapore Jan 28-31. Virtual Event, Abstract, Invited?: No
15. 20. Janzen I, Seyyedi S, Abraham R, Atkar-Khattra S, Mayo J, Yuan R, Lam S, Macaulay C. Comparison between Radiomics-based Machine Learning and Deep Learning image classification for sub-cm lung nodules. IASLC 20th World Conference on Lung Cancer, Barcelona, Spain, Sep 7-10, 2019., Abstract, Invited?: No
16. Yuan R, Mayo J, Myers R, Streit I, Atkar-Khattra S, et al. Randomized Clinical Trial with Computer Assisted Diagnosis (CAD) Versus Radiologist as First Reader of Lung Screening LDCT. IASLC 20th World Conference on Lung Cancer, Barcelona, Spain, Sep 7-10, 2019., Abstract, Invited?: No
17. Yuan R. Focal Hepatic Lesions in Oncology Patients: What Else Beyond HCC?. Vancouver Imaging Review: Head to Toe Thursday, Vancouver, BC, Canada, October 3 – 5, 2019, Paper, Invited?: Yes
18. Ferguson D, Melosky B, Gill S, Savage C, Kollmannsberger C, Ni Mhurchu E, Brown M, Yuan R. A review of imaging of adverse events related to novel immunotherapy agents. Canadian Association of Radiologists. Montreal, Canada, April 11 -14, 2019, Abstract, Invited?: No
19. Myers R, Mayo J, Tammemagi M, Atkar-Khattra S, Yuan R, et al. Evaluation of the Clinical Utility of the PanCan, EU-NELSON and Lung-RADS Protocols For Management of Screen Detected Lung Nodules at Baseline. IASLC 20th World Conference on Lung Cancer, Barcelona, Spain, Sep 7-10, 2019., Abstract, Invited?: No
20. Janzen I, Seyyedi S, Khattra S, Mayo J, Yuan R, Myers R, Lam S, Macaulay C. Comparison Between Machine Learning and Deep Learning For SubCM Lung nodule Image Classification. British Columbia Cancer Summit, Vancouver, Canada, Nov 23-24, 2018, Abstract, Invited?: No
21. Seyyedi S, Mayo J, Atkar-Khattra S, Yuan R, Lam S, Macaulay C. Optimizing Radiomics Features by Minimizing Boundary Effects and Normalizing with Opposite Lung Tissue Characteristics. IASLC 19th World Conference on Lung Cancer, Toronto, Canada, Sept 23 - 26, 2018, Abstract, Invited?: No
22. Yuan R, Mayo J, Myers R, Streit I, Atkar-Khattra S, Yee J, Grant K, Lee A, McGuire AL, Jacobs C, van Ginneken B, Tammemagi M, Lam S. Randomized Clinical Trial of CAD versus No CAD as First Reader of Lung Cancer Screening CT: Preliminary Report. 104th RSNA Scientific Assembly and Annual Meeting, Chicago, USA Nov 25 – 30, 2018, Abstract, Invited?: No
23. Yuan R, Tammemagi M, Ritchie AJ, Dougherty B, Sanghera C, Jacobs C, Mayo J, Schmidt H, Gingras M, Pasian S, Stewart L, Tsai S, Manos D, Seely JM, Burrowes P, Bhatia R, Atkar-Khattra S, Myers, M, Tsao MS, Van Ginneken B, Lam S. Lung Nodule Malignancy Risk Prediction – Diameter Or Volumetric Measurement. IASLC 18th World Conference on Lung Cancer, Yokohama, Japan Oct 15-18 2017., Paper, Invited?: No
24. Yuan R, Yamada A, Weber B, Ho C. Early versus late brain metastases in wild type and mutation positive EGFR patients. IASLC, Denver, Colorado, USA September 6 – 9, 2015, Abstract, Invited?: No
25. Yuan R, Leipsic JA, Hague A, Ellis J, Earls J, Mayo J, Shuman W. A Prospective Randomized Trial of Reduced Contrast CT Pulmonary Angiography using Dual Energy Monochromatic Imaging vs. Standard CT Pulmonary Angiography. Society of Thoracic Radiology, Bonita Springs, FL, USA March 6-9th 2011, Paper, Invited?: No

26. Yuan R.State-of-the-ArtImaging and Precise and Personalized Therapy in Lung Cancer.Conference on Hematology and Oncology (CoHO), Whistler, Canada
Conference Date: 2023/11
Paper
Refereed?: Yes, Invited?: Yes
27. Yuan R, Janzen I, Devnath L, Khattra S, Myers R, Lam S, MacAulay C.Predicting Future Lung CancerRisk with Low-Dose Screening CT Using An Artificial Intelligence Model.IASLC 2023 World Conference on Lung Cancer, Singapore, Singapore
Conference Date: 2023/9
Paper
Refereed?: Yes, Invited?: No
28. Devnath, L; Janzen, I; Lam, S; Yuan, R*; MacAulay, C*.CNN application to control the intervalcancers between LCS rounds.Bioinformatics/Iop/Gsat Research Day (BIG23). UBC, Vancouver B.C. Canada., Vancouver, Canada
Conference Date: 2023/3
Abstract
Refereed?: Yes, Invited?: No
29. Janzen I, Devnath L, Khattra S, Seyyedi S, Myers R, Lam S, MacAulay C, Yuan R.Predicting Interval Nodule Development inLDCT screening by Identifying Subvisual Tissue Changes in the Lung Parenchyma.Bioinformatics/Iop/Gsat Research Day (BIG23), Vancouver,
Conference Date: 2023/3
Abstract
Refereed?: Yes, Invited?: No
30. Yuan R, MacAulay C, Lam S.An AI Model To Predict Interval Lung Cancers Risk with Low-Dose Screening CT.UBC FOM Precision Health Symposium., Vancouver, Canada
Conference Date: 2023/2
Paper
Refereed?: Yes, Invited?: Yes
31. Yuan R, Mayo J, Myers R, Atkar-Khattra S, Yee J, English J, Chen S, Lam S.Value ofComputer-Aided Diagnosis (CAD) on Radiologists' Workflow and Recommendation in ReportingLung Cancer Screening CT. Radiological Society of North America, RSNA, Chicago, United States of America
Conference Date: 2022/11
Poster

Intellectual Property

Licenses

1. College of Physicians and Surgeons of BC
Granted
Filing Date: 2014/06/30

Presentations

1. (2025). Local Staging of Bladder Cancer with Multiparametric MRI & Vesical Imaging Reporting and Data System (VI-RADS).British Columbia Genitourinary Tumor Group Update 2025. Vancouver, BC., Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

2. (2025). Prostate MRI - Update for the Genitourinary Oncologist. Fraser Valley Uro-oncologists 2025 Annual Scientific Meeting., Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
3. Gerard Olive, Henry Marshall, David Lam, Herbert Loong, Alan Sihoe, Feng-ming (Spring) Kong, Kwun M Fong. (2024). 8 Steps for Nodule Enlightenment. 2024 Asia Conference on Lung Cancer, Hong Kong
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
4. (2024). Artificial Intelligence Imaging Tools to Assist Precise And Personalized Oncology. BC Cancer Research Institution 2024 Scientific Retreat, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
5. Drs. A. Rahmim and C. Uribe. (2024). Introducing BC Cancer Medical Imaging Core Lab. UBC Radiology Grand Rounds., Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

Student/Postdoctoral Supervision

Doctorate [n=2]

2023/3 - 2024/6 Co-Supervisor	Guliz Ozgun, UBC BCCA Thesis/Project Title: Radiomics Approach to predict residual teratoma in patients with non seminoma disease post chemotherapy Present Position: staff oncologist
2019/9 Academic Advisor	Ian Janzen, UBC Thesis/Project Title: Predicting Treatment Response to 1st-Line Pembrolizumab in Highly Expressing PDL1 Advanced NSCLC Patients using Artificial Intelligence Models Present Position: PhD Candidate

Post-doctorate [n=4]

2025/1 Principal Supervisor	Mahdieh Khodaei Jalalabadi, BCCRI Thesis/Project Title: CT-radiomics to predict pathological response after receiving neoadjuvant therapy in resectable thoracic and Genitourinary cancers Present Position: trainee
2024/3 - 2027/3 Principal Supervisor	Neda Abdalvand, UBC BCCRI Thesis/Project Title: AI Approaches in Oncological Imaging Present Position: postdoc
2023/7 Co-Supervisor	Liton Devnath, UBC Thesis/Project Title: To develop an AI model for predicting future lung cancer in low-dose screening CT Present Position: postdoc
2020/3 - 2022/6 Academic Advisor	Jessica Li, UBC Thesis/Project Title: Prediction of Disease Progression in Advanced Non-Small-Cell Lung Cancer with High PD-L1 Expression Present Position: radiology fellow at Harvard