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Dr. Yohan Bossé

Correspondence language: English

Sex: Male

Date of Birth: 3/15

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

IUCPQ

Pavillon Marguerite-d'Youville, Y2106

2725, chemin Sainte-Foy

Québec Québec G1V 4G5

Canada

Telephone

Fax 418-656-4602

Work (*) 418-656-8711 extension: 3725

Email

Work (*) yohan.bosse@criucpq.ulaval.ca

Website

Personal www.yohanbosselab.com



Protected when completed

Dr. Yohan Bossé

Degrees

2004/9 - 2007/5	Post-doctorate, Genomics, McGill University Degree Status: Completed
2001/1 - 2004/11	Doctorate, Nutrition, Université Laval Degree Status: Completed
1999/9 - 2001/6	Master's Thesis, Kinesiology, Université Laval Degree Status: Completed
1995/9 - 1999/5	Bachelor's, Science of Physical Activity, Université de Moncton Degree Status: Completed

Recognitions

2015/10	Harvey Zalcman Award of Excellence Heart and Stroke Foundation of Canada
2015/5 - 2025/4	Canada Research Chair in Genomics of Heart and Lung Diseases Canada Research Chairs / Canadian Institutes of Health Research
2013/7 - 2016/6	Junior 2 Research Scholar Fonds de recherche du Québec - Santé (FRQS)
2012/5	2012 Champion Research Award as a future Champion of Genetics in Canada Canadian Gene Cure Foundation / Canadian Institutes of Health Research
2008/7 - 2013/6	New Investigator Award Heart and Stroke Foundation of Canada

Employment

2018/6	Full Professor Molecular Medicine, Faculty of Medicine, Université Laval
2022/4 - 2024/3	Scientific Director The Quebec Heart and Lung Institute, Centre de recherche de l'Institut universitaire de cardiologie et de pneumologie de Québec, IUCPQ
2013/6 - 2018/5	Associate Professor Molecular Medicine, Faculty of Medicine, Université Laval
2008/7 - 2013/5	Assistant Professor Molecular Medicine, Faculty of Medicine, Université Laval
2007/6 - 2008/6	Adjunct Professor Anatomie et Physiologie, Faculty of Medicine, Université Laval

Affiliations

The primary affiliation is denoted by (*)

(*) 2018/6 Full Professor, Molecular Medicine, Université Laval

Research Funding History

Awarded [n=2]

2015/5 - 2025/4 Canada Research Chair in Genomics of Heart and Lung Diseases

Principal Investigator

Funding Sources:

Canadian Institutes of Health Research (CIHR)

Canada Research Chairs (CRC)

Total Funding - 1,000,000

Funding Competitive?: Yes

2021/11 - 2024/10 Development and evaluation of a multimodal approach to predict lung cancer risk and determine EGFR mutation profile in a lung cancer screening population

Co-investigator

Funding Sources:

Québec Consortium for Drug Discovery (CQDM)

SynergiQc

Total Funding - 3,497,255

Funding Competitive?: Yes

Co-investigator : Gabriella Albert; Philippe Després; Simon Martel; Venkata Manem;

Principal Investigator : Philippe Joubert

Completed [n=12]

2019/4 - 2024/3 Integrative genomics and functional analyses to uncover the molecular mechanisms involved in bicuspid aortic valve disease

Co-investigator

Funding Sources:

Canadian Institutes of Health Research (CIHR)

Project Grant

Total Funding - 608,175

Funding Competitive?: Yes

Co-investigator : Patrick Mathieu; Philippe Pibarot;

Principal Investigator : Sébastien Thériault

2023/1 - 2023/12 The Quebec City Idiopathic Pulmonary Fibrosis Cohort: A resource for clinical and genetic research

Principal Investigator

Funding Sources:

Fondation de l'Institut universitaire de cardiologie et de pneumologie de Québec

Operating grant

Total Funding - 30,000

Funding Competitive?: Yes

Co-investigator : Geneviève Dion

2018/10 - 2023/9 Finding the molecular drivers of calcific aortic valve stenosis

Principal Investigator

Funding Sources:

Canadian Institutes of Health Research (CIHR)

Project Grant

Total Funding - 914,176

	Funding Competitive?: Yes
2015/7 - 2022/6 Co-investigator	Novel approaches for the diagnosis and treatment of aortic valve stenosis Funding Sources: Canadian Institutes of Health Research (CIHR) Foundation Scheme Total Funding - 4,464,582 Funding Competitive?: Yes Co-investigator : Éric Larose; Jonathan Beaudoin; Marie-Annick Clavet; Patrick Mathieu; Principal Investigator : Philippe Pibarot
2021/7 - 2022/6 Co-investigator	Multi-omic approach to sex-differences in aortic stenosis Funding Sources: Heart and Stroke Foundation of Canada (HSFC) Operating Grant Total Funding - 69,138 Funding Competitive?: Yes Principal Investigator : Marie-Annick Clavel
2017/8 - 2022/5 Co-investigator	Integrative analysis of lung cancer etiology and risk Funding Sources: National Institutes of Health (NIH) (USA) U19 Total Funding - 12,177,381 Funding Competitive?: Yes Principal Investigator : Christopher Amos
2019/1 - 2021/12 Principal Investigator	Genetic architecture of calcific aortic valve stenosis in populations of European and Asian descents Funding Sources: Fonds de recherche du Québec - Santé (FRQS) FRQS – NSFC Collaboration: Research on Cardiovascular diseases Total Funding - 299,822 Funding Competitive?: Yes Co-investigator : Patrick Mathieu; Philippe Pibarot; Sébastien Thériault
2021/1 - 2021/12 Principal Investigator	Prognostic biomarkers from single-cell map of resected stage I lung adenocarcinoma Funding Sources: Fondation de l'Institut universitaire de cardiologie et de pneumologie de Québec Operating grant Total Funding - 30,000 Funding Competitive?: Yes Co-investigator : Patrice Desmeules; Philippe Joubert
2016/7 - 2021/8 Co-investigator	The role of autotaxin and lysophosphatidic acid in the development of calcific aortic valve disease Funding Sources: Canadian Institutes of Health Research (CIHR) Project Scheme Total Funding - 707,164 Funding Competitive?: Yes Principal Investigator : Patrick Mathieu

2019/6 - 2021/5 Co-investigator	Genetic interaction analysis involving oncogenesis-related genes in lung cancer Funding Sources: National Institutes of Health (NIH) (USA) R21 Total Funding - 210,597 Funding Competitive?: Yes Principal Investigator : Yafang Li
2017/1 - 2019/12 Principal Investigator	Comprehensive genetic testing for alpha-1 antitrypsin deficiency in CanCOLD participants Funding Sources: Grifols Canada Ltd. Operating grant Total Funding - 420,000 Funding Competitive?: Yes Principal Investigator : Francois Maltais; Jean Bourbeau
2019/1 - 2019/12 Principal Investigator	Transcriptomic biomarkers after early-stage lung adenocarcinoma surgery: step 1 to develop a prognostic classifier of low- and high-risk of postoperative mortality Funding Sources: Fondation de l'Institut universitaire de cardiologie et de pneumologie de Québec Operating Grant Total Funding - 30,000 Funding Competitive?: Yes Co-investigator : Philippe Joubert

Publications

Journal Articles

1. Morin-Grandmont A, Walsh-Wilkinson É, Labbé EA, Thibodeau SÈ, Dupont É, Boudreau DK, Arsenault M, Bossé Y, Couet J. (2024). Biological sex, sex steroids and sex chromosomes contribute to mouse cardiac aging. *Aging*. 16(9): 7553-77.
Published
Refereed?: Yes
2. Bossé Y, Dasgupta A, Abadier M, Guthrie V, Song F, Saavedra Armero V, Gaudreault N, Orain M, Lamaze FC, Melton C, Nance T, Hung T, Hodgson D, Abbosh C, Joubert P. (2024). Prognostic implication of methylation-based circulating tumor DNA detection prior to surgery in stage I non-small cell lung cancer. *Cancer Letters*. 594: 216984.
Published
Refereed?: Yes
3. Morin-Grandmont A, Walsh-Wilkinson E, Thibodeau SÈ, Boudreau DK, Arsenault M, Bossé Y, Couet J. (2024). A murine model of hypertensive heart disease in older women. *PeerJ*. 12: e17434.
Published
Refereed?: Yes
4. Renaut S, Armero VS, Boudreau DK, Gaudreault N, Desmeules P, Thériault S, Mathieu P, Joubert P, Bossé Y. (2024). Single-cell and single-nucleus RNA-sequencing from paired normal-adenocarcinoma lung samples provide both common and discordant biological insights. *PLoS Genetics*. 20(5): e1011301.
Published
Refereed?: Yes

- [5.](#) Thériault S, Li Z, Abner E, Luan J, Manikpurage HD, Houessou U, Zamani P, Briend M; Estonian Biobank Research Team; Boudreau DK, Gaudreault N, Frenette L, Argaud D, Dahmene M, Dagenais F, Clavel MA, Pibarot P, Arsenault BJ, Boekholdt SM, Wareham NJ, Esko T, Mathieu P, Bossé Y. (2024). Integrative genomic analyses identify candidate causal genes for calcific aortic valve stenosis involving tissue-specific regulation. *Nature Communications*. 15: 2407.
Published
Refereed?: Yes
6. Milad N, Aubin S, Racine C, Maltais F, Bossé Y, Morissette MC. (2024). Lung tissue transcriptomics reveal associations between thymic stromal lymphopoietin signaling, mast cells, and airway obstruction in active smokers. *American Journal of Respiratory Cell and Molecular Biology*. 71: 10-12.
Published
Refereed?: Yes
7. Debban CL, Ambalavanan A, Ghosh A, Li Z, Buschur KL, Ma Y, George E, Pistenmaa C, Bertoni AG, Oelsner EC, Michos ED, Moraes TJ, Jacobs DR Jr, Christenson S, Bhatt SP, Kaner RJ, Simons E, Turvey SE, Vameghestahbanati M, Engert JC, Kirby M, Bourbeau J, Tan WC, Gabriel SB, Gupta N, Woodruff PG, Subbarao P, Ortega VE, Bleecker ER, Meyers DA, Rich SS, Hoffman EA, Barr RG, Cho MH, Bossé Y, Duan Q, Manichaikul A, Smith BM. (2024). Dysanapsis genetic risk predicts lung function across the lifespan. *American Journal of Respiratory and Critical Care Medicine*. NA: NA.
Published
Refereed?: Yes
8. Li Y, Xiao X, Li J, Han Y, Cheng C, Fernandes GF, Slewitzke SE, Rosenberg SM, Zhu M, Byun J, Bossé Y, McKay JD, Albanes D, Lam S, Tardon A, Chen C, Bojesen SE, Landi MT, Johansson M, Risch A, Bickeböllner H, Wichmann HE, Christiani DC, Rennert G, Arnold SM, Goodman GE, Field JK, Davies MPA, Shete S, Le Marchand L, Liu G, Hung RJ, Andrew AS, Kiemeny LA, Sun R, Zienolddiny S, Grankvist K, Johansson M, Caporaso NE, Cox A, Hong YC, Lazarus P, Schabath MB, Aldrich MC, Schwartz AG, Gorlov I, Purrington KS, Yang P, Liu Y, Bailey-Wilson JE, Pinney SM, Mandal D, Willey JC, Gaba C, Brennan P, Xia J, Shen H, Amos CI. (2024). Lung cancer in ever- and never-smokers: findings from multi-population GWAS studies. *Cancer Epidemiology, Biomarkers & Prevention*. NA: NA.
Published
Refereed?: Yes
9. Gobeil É, Bourgault J, Mitchell PL, Houessou U, Gagnon E, Girard A, Paulin A, Manikpurage HD, Côté V, Couture C, Marceau S, Bossé Y, Thériault S, Mathieu P, Vohl MC, Tchernof A, Arsenault BJ. (2024). Genetic inhibition of angiopoietin-like protein-3, lipids, and cardiometabolic risk. *European Heart Journal*. NA: NA.
Published
Refereed?: Yes
- [10.](#) Villeneuve J, Tremblay E, Gaudreault G, Saavedra Armero V, Boudreau DK, Li Z, Renaut S, Dion G, Bossé Y. (2024). A test to comprehensively capture the known genetic component of familial pulmonary fibrosis. *American Journal of Respiratory Cell and Molecular Biology*. NA: NA.
Published
Refereed?: Yes
11. Minvielle Moncla LH, Briend M, Sokhna Sylla M, Mathieu S, Rufiange A, Bossé Y, Mathieu P. (2024). Mendelian randomization reveals interactions of the blood proteome and immunome in mitral valve prolapse. *Communications Medicine*. 4: 108.
Published
Refereed?: Yes

12. Boumtje V, Manikpurage HD, Li Z, Gaudreault N, Armero VS, Boudreau DK, Renaut S, Henry C, Racine C, Eslami A, Bougeard S, Vigneau E, Morissette M, Arsenault BJ, Labbé C, Laliberté AS, Martel S, Maltais F, Couture C, Desmeules P, Mathieu P, Thériault S, Joubert P, Bossé Y. (2024). Polygenic inheritance and its interplay with smoking history in predicting lung cancer diagnosis: a French-Canadian case-control cohort. *eBioMedicine*. 106: 105234.
Published
Refereed?: Yes
13. Aidara ML, Walsh-Wilkinson E, Thibodeau SÈ, Labbé EA, Morin-Grandmont A, Gagnon G, Boudreau DK, Arsenault M, Bossé Y, Couet J. (2024). Cardiac reverse remodelling in a mouse model with many phenotypical features of heart failure with preserved ejection fraction: effects of modifying lifestyle. *American Journal of Physiology - Heart and Circulatory Physiology*. 326(4): H1017-H1036.
Published
Refereed?: Yes
14. Moncla LM, Briend M, Bossé Y, Mathieu P. (2023). Calcific aortic valve disease: mechanisms, prevention and treatment. *Nature Reviews Cardiology*. 20(8): 546-559.
Published
Refereed?: Yes
15. COVID-19 Host Genetics Initiative. (2023). A second update on mapping the human genetic architecture of COVID-19. *Nature*. 621(7977): E7-E26.
Published
Refereed?: Yes
16. Luyapan J, Bossé Y, Li Z, Xiao X, Rosenberger A, Hung RJ, Lam S, Zienolddiny S, Liu G, Kiemeny LA, Chen C, McKay J, Johansson M, Johansson M, Tardon A, Fernandez-Tardon G, Brennan P, Field JK, Davies MP, Woll PJ, Cox A, Taylor F, Arnold SM, Lazarus P, Grankvist K, Landi MT, Christiani DC, MacKenzie TA, Amos CI. (2023). Candidate pathway analysis of surfactant proteins identifies CTSH and SFTA2 that influences lung cancer risk. *Human Molecular Genetics*. 32(18): 2842-2855.
Published
Refereed?: Yes
17. Briend M, Rufiange A, Moncla LM, Mathieu S, Bossé Y, Mathieu P. (2023). Connectome and regulatory hubs of CAGE highly active enhancers. *Scientific Reports*. 13: 5594.
Published
Refereed?: Yes
18. Sikkema L, Ramírez-Suástegui C, Strobl DC, Gillett TE, Zappia L, Madissoon E, Markov NS, Zaragosi LE, Ji Y, Ansari M, Arguel MJ, Apperloo L, Banchero M, Bécavin C, Berg M, Chichelnitskiy E, Chung MI, Collin A, Gay ACA, Gote-Schniering J, Hooshir Kashani B, Inecik K, Jain M, Kapellos TS, Kole TM, Leroy S, Mayr CH, Oliver AJ, von Papen M, Peter L, Taylor CJ, Walzthoeni T, Xu C, Bui LT, De Donno C, Dony L, Faiz A, Guo M, Gutierrez AJ, Heumos L, Huang N, Ibarra IL, Jackson ND, Kadur Lakshminarasimha Murthy P, Lotfollahi M, Tabib T, Talavera-López C, Travaglini KJ, Wilbrey-Clark A, Worlock KB, Yoshida M; Lung Biological Network Consortium; van den Berge M, Bossé Y, Desai TJ, Eickelberg O, Kaminski N, Krasnow MA, Lafyatis R, Nikolic MZ, Powell JE, Rajagopal J, Rojas M, Rozenblatt-Rosen O, Seibold MA, Sheppard D, Shepherd DP, Sin DD, Timens W, Tsankov AM, Whitsett J, Xu Y, Banovich NE, Barbry P, Duong TE, Falk CS, Meyer KB, Kropski JA, Pe'er D, Schiller HB, Tata PR, Schultze JL, et al. (2023). An integrated cell atlas of the lung in health and disease. *Nature Medicine*. 29(6): 1563-1577.
Published
Refereed?: Yes
19. Steinberg C, Gaudreault N, Papadakis AI, Henry C, Champagne J, Philippon F, O'Hara G, Blier L, Plourde B, Nault I, Roy K, Sarrazin JF, Spatz A, Bossé Y. (2023). Leucocyte-derived micro-RNAs as candidate biomarkers in Brugada syndrome. *Europace*. 25(6): eua4145.
Published
Refereed?: Yes

20. [Thériault S, Mathieu P, Bossé Y. \(2023\). The journey towards identification of actionable molecular pathways in calcific aortic valve stenosis. *European Heart Journal*. 44\(21\): 1940-1942.](#)
Published
Refereed?: Yes
21. Gaudreault N, Ruel LJ, Henry C, Schleit J, Lagüe P, Champagne J, Sénéchal M, Sarrazin JF, Philippon F, Bossé Y, Steinberg C. (2023). Novel filamin C (FLNC) variant causes a severe form of familial mixed hypertrophic-restrictive cardiomyopathy. *American Journal of Medical Genetics Part A*. 191A: 1508-17.
Published
Refereed?: Yes
22. [Bossé Y, Gagné A, Althakfi WA, Orain M, Couture C, Trahan S, Pagé S, Joubert D, Fiset PO, Desmeules P, Joubert P. \(2023\). A simplified version of the IASLC grading system for invasive pulmonary adenocarcinomas with improved prognosis discrimination. *The American Journal of Surgical Pathology*. 47\(6\): 686-93.](#)
Published
Refereed?: Yes
23. Desmeules P, Boudreau DK, Bastien N, Boulanger MC, Bossé Y, Joubert P, Couture C. (2022). Performance of an RNA-based next-generation sequencing assay for combined detection of clinically actionable fusions and hotspot mutations in NSCLC. *JTO Clinical and Research Reports*. 3: 100276.
Published
Refereed?: Yes
24. [Gaudreault N, Blouin C, Haillet A, Milot J, Maltais F, Bossé Y. \(2022\). The null Q0Ourém variant within a copy-neutral loss-of-heterozygosity event causing alpha-1 antitrypsin deficiency. *American Journal of Respiratory Cell and Molecular Biology*. 66: 700-702.](#)
Published
Refereed?: Yes
25. Chignon A, Mathieu S, Rufiange A, Argaud D, Voisine P, Bossé Y, Arsenault BJ, Thériault S, Mathieu P. (2022). Enhancer promoter interactome and Mendelian randomization identify network of druggable vascular genes in coronary artery disease. *Human Genomics*. 16: 8.
Published
Refereed?: Yes
26. Madore AM, Bossé Y, Margaritte-Jeannin P, Vucic E, Lam WL, Bouzigon E, Bourbeau J, Laprise C. (2022). Analysis of GWAS-nominated loci for lung cancer and COPD revealed a new asthma locus. *BMC Pulmonary Medicine*. 22: 155.
Published
Refereed?: Yes
27. Li Y, Xiao X, Li J, Byun J, Cheng C, Bossé Y, McKay J, Albanes D, Lam S, Tardon A, Chen C, Bojesen SE, Landi MT, Johansson M, Risch A, Bickeböller H, Wichmann HE, Christiani DC, Rennert G, Arnold S, Goodman G, Field JK, Davies MPA, Shete SS, Le Marchand L, Melander O, Brunnström H, Liu G, Hung RJ, Andrew AS, Kiemeny LA, Shen H, Sun R, Zienolddiny S, Grankvist K, Johansson M, Caporaso N, Teare DM, Hong YC, Lazarus P, Schabath MB, Aldrich MC, Schwartz AG, Gorlov I, Purrington K, Yang P, Liu Y, Han Y, Bailey-Wilson JE, Pinney SM, Mandal D, Willey JC, Gaba C, Brennan P, Amos CI; INTEGRAL-ILCCO lung cancer consortium. (2022). Genome-wide interaction analysis identified low-frequency variants with sex disparity in lung cancer risk. *Human Molecular Genetics*. 31: 2831-2843.
Published
Refereed?: Yes
28. Mathieu S, Briend M, Abner E, Couture C, Li Z, Bossé Y, Thériault S, Esko T, Arsenault BJ, Mathieu P. (2022). Genetic association and Mendelian randomization for hypothyroidism highlight immune molecular mechanisms. *iScience*. 25(9): 104992.
Published
Refereed?: Yes

29. John C, Guyatt AL, Shrine N, Packer R, Olafsdottir TA, Liu J, Hayden LP, Chu SH, Koskela JT, Luan J, Li X, Terzikhan N, Xu H, Bartz TM, Petersen H, Leng S, Belinsky SA, Cepelis A, Hernández Cordero AI, Obeidat M, Thorleifsson G, Meyers DA, Bleecker ER, Sakoda LC, Iribarren C, Tesfaigzi Y, Gharib SA, Dupuis J, Brusselle G, Lahousse L, Ortega VE, Jonsdottir I, Sin DD, Bossé Y, van den Berge M, Nickle D, Quint JK, Sayers I, Hall IP, Langenberg C, Ripatti S, Laitinen T, Wu AC, Lasky-Su J, Bakke P, Gulsvik A, Hersh CP, Hayward C, Langhammer A, Brumpton B, Stefansson K, Cho MH, Wain LV, Tobin MD. (2022). Genetic associations and architecture of asthma-chronic obstructive pulmonary disease overlap. *Chest*. 161: 1155-1166.
Published
Refereed?: Yes
30. Mohammadi-Shemirani P, Chong M, Narula S, Perrot N, Conen D, Roberts JD, Thériault S, Bossé Y, Lanktree MB, Pigeyre M, Paré G. (2022). Elevated lipoprotein(a) and risk of atrial fibrillation: An observational and mendelian randomization study. *Journal of the American College of Cardiology*. 79: 1579-1590.
Published
Refereed?: Yes
31. Chignon A, Argaud D, Boulanger MC, Mkannez G, Bon-Baret V, Li Z, Thériault S, Bossé Y, Mathieu P. (2022). Genome-wide chromatin contacts of super-enhancer-associated lncRNA identify LINC01013 as a regulator of fibrosis in the aortic valve. *PLoS Genetics*. 18: e1010010.
Published
Refereed?: Yes
32. Moncla LM, Mathieu S, Sylla MS, Bossé Y, Thériault S, Arsenault BJ, Mathieu P. (2022). Mendelian randomization of circulating proteome identifies actionable targets in heart failure. *BMC Genomics*. 23: 588.
Published
Refereed?: Yes
33. Byun J, Han Y, Li Y, Xia J, Long E, Choi J, Xiao X, Zhu M, Zhou W, Sun R, Bossé Y, Song Z, Schwartz A, Lusk C, Rafnar T, Stefansson K, Zhang T, Zhao W, Pettit RW, Liu Y, Li X, Zhou H, Walsh KM, Gorlov I, Gorlova O, Zhu D, Rosenberg SM, Pinney S, Bailey-Wilson JE, Mandal D, de Andrade M, Gaba C, Willey JC, You M, Anderson M, Wiencke JK, Albanes D, Lam S, Tardon A, Chen C, Goodman G, Bojeson S, Brenner H, Landi MT, Chanock SJ, Johansson M, Muley T, Risch A, Wichmann HE, Bickeböller H, Christiani DC, Rennert G, Arnold S, Field JK, Shete S, Le Marchand L, Melander O, Brunnstrom H, Liu G, Andrew AS, Kiemeny LA, Shen H, Zienolddiny S, Grankvist K, Johansson M, Caporaso N, Cox A, Hong YC, Yuan JM, Lazarus P, Schabath MB, Aldrich MC, Patel A, Lan Q, Rothman N, Taylor F, Kachuri L, Witte JS, Sakoda LC, Spitz M, Brennan P, Lin X, McKay J, Hung RJ, Amos CI. (2022). Cross-ancestry genome-wide meta-analysis of 61,047 cases and 947,237 controls identifies new susceptibility loci contributing to lung cancer. *Nature Genetics*. 54: 1167-1177.
Published
Refereed?: Yes
34. Bossé Y, Gagné A, Althakfi WA, Orain M, Fiset PO, Desmeules P, Joubert P. (2022). Prognostic value of complex glandular patterns in invasive pulmonary adenocarcinomas. *Human Pathology*. 128: 56-68.
Published
Refereed?: Yes, Open Access?: Yes
35. Ruel LJ, Li Z, Gaudreault N, Henry C, Saavedra Armero V, Boudreau DK, Zhang T, Landi MT, Labbé C, Couture C, Desmeules P, Joubert P, Bossé Y. (2022). Tumor mutational burden by whole-genome sequencing in resected NSCLC of never smokers. *Cancer Epidemiology, Biomarkers & Prevention*. 31(12): 2219-2227.
Published
Refereed?: Yes

36. Chignon A, Rosa M, Boulanger MC, Argaud D, Devillers R, Bon-Baret V, Mkannez G, Li Z, Rufiange A, Gaudreault N, Gosselin D, Thériault S, Bossé Y, Mathieu P. (2021). Enhancer-associated aortic valve stenosis risk locus 1p21.2 alters NFATC2 binding site and promotes fibrogenesis. *iScience*. 24(3): 102241. Published
Refereed?: Yes
37. Ketelaar ME, Portelli MA, Dijk FN, Shrine N, Faiz A, Vermeulen CJ, Xu CJ, Hankinson J, Bhaker S, Henry AP, Billington CK, Shaw DE, Johnson SR, Benest AV, Pang V, Bates D, Pogson ZEK, Fogarty A, McKeever TM, Singapuri A, Heaney L, Mansur AH, Chaudhuri R, Thomson NC, Holloway JW, Lockett GA, Howarth PH, Niven R, Simpson A, Tobin MD, Hall IP, Wain LV, Blakey JD, Brightling CE, Obeidat M, Sin DD, Nickle C, Bossé Y, Vonk JM, van den Berge M, Koppelman GH, Sayers I, Nawijn MC. (2021). Phenotypic and functional translation of IL33 genetics in asthma. *Journal of Allergy and Clinical Immunology*. 147(1): 144-157. Published
Refereed?: Yes
- [38.](#) Valette K, Li Z, Bon-Baret V, Chignon A, Bérubé JC, Eslami A, Lamothe J, Gaudreault N, Joubert P, Obeidat M, van den Berge M, Timens W, Sin DD, Nickle DC, Hao K, Labbé C, Godbout K, Côté A, Laviolette M, Boulet LP, Mathieu P, Thériault S, Bossé Y. (2021). Prioritization of candidate causal genes for asthma in susceptibility loci derived from UK Biobank. *Communications Biology*. 4(1): 700. Published
Refereed?: Yes, Open Access?: Yes
39. Lesseur C, Ferreira-Iglesias A, McKay JD, Bossé Y, Johansson M, Gaborieau V, Landi MT, Christiani DC, Caporaso NC, Bojesen SE, Amos CI, Shete S, Liu G, Rennert G, Albanes D, Aldrich MC, Tardon A, Chen C, Triantafillos L, Field JK, Teare MD, Kiemeny LA, Diergaarde B, Ferris RL, Zienolddiny S, Lam S, Olshan AF, Weissler MC, Lacko M, Risch A, Bickeböller H, Ness AR, Thomas S, Le Marchand L, Schabath MB, Wünsch-Filho V, Tajara EH, Andrew AS, Clifford GM, Lazarus P, Grankvist K, Johansson M, Arnold S, Melander O, Brunnström H, Boccia S, Cadoni G, Timens W, Obeidat M, Xiao X, Houlston RS, Hung RJ, Brennan P. (2021). Genome-wide association meta-analysis identifies pleiotropic risk loci for aerodigestive squamous cell cancers. *PLoS Genetics*. 17(3): e1009254. Published
Refereed?: Yes
- [40.](#) Bellemare J, Gaudreault N, Valette K, Belmonte I, Nuñez A, Miravittles M, Maltais F, Bossé Y. (2021). The clinical utility of determining the allelic background of mutations causing alpha-1 antitrypsin deficiency: The case with the null variant Q0(Mattawa)/Q0(ourém). *Journal of the Chronic Obstructive Pulmonary Diseases Foundation*. 8(1): 31-40. Published
Refereed?: Yes
41. Manikpurage HD, Eslami A, Perrot N, Li Z, Couture C, Mathieu P, Bossé Y, Arsenault BJ, Thériault S. (2021). Polygenic risk score for coronary artery disease improves the prediction of early-onset myocardial infarction and mortality in men. *Circulation: Genomic and Precision Medicine*. 14: e003452. Published
Refereed?: Yes

42. Zhang T, Joubert P, Ansari-Pour N, Zhao W, Hoang PH, Lokanga R, Moye AL, Rosenbaum J, Gonzalez-Perez A, Martínez-Jiménez F, Castro A, Muscarella LA, Hofman P, Consonni D, Pesatori AC, Kebede M, Li M, Gould Rothberg BE, Peneva I, Schabath MB, Poeta ML, Costantini M, Hirsch D, Heselmeyer-Haddad K, Hutchinson A, Olanich M, Lawrence SM, Lenz P, Duggan M, Bhawsar PMS, Sang J, Kim J, Mendoza L, Saini N, Klimczak LJ, Islam SMA, Otlu B, Khandekar A, Cole N, Stewart DR, Choi J, Brown KM, Caporaso NE, Wilson SH, Pommier Y, Lan Q, Rothman N, Almeida JS, Carter H, Ried T, Kim CF, Lopez-Bigas N, Garcia-Closas M, Shi J, Bossé Y, Zhu B, Gordenin DA, Alexandrov LB, Chanock SJ, Wedge DC, Landi MT. (2021). Genomic and evolutionary classification of lung cancer in never smokers. *Nature Genetics*. 53(9): 1348-1359.
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Book Chapters

1. Bossé Y, Cho MH. (2020). Genetics and Pharmacogenetics of COPD. Kaminski N, Himes BE, Gomez JL. *Precision Therapy in Pulmonary, Critical Care and Sleep Medicine*. : 39-55.
Published, Springer, Switzerland

Intellectual Property

Patents

1. Gene expression profiling for prognosis of lung adenocarcinoma. Canada. 61/706,261. 2013/09/26.
Patent Status: Granted/Issued
Year Issued: 2014

Presentations

1. Bossé Y, Joubert P. (2024). Dépister et prédire le cancer du poumon : où en sommes-nous en 2024?. Soirée scientifique en cancer du poumon de l'Association pulmonaire du Québec, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
2. Bossé Y. (2023). Leveraging the IUCPQ Biobank and the Quebec lung cancer screening program: the LORD and SynergiQC projects. Princess Margaret Cancer Centre, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
3. Bossé Y. (2022). LORD: A multi-omics translational research program towards precision medicine in lung cancer. International Lung Cancer Consortium, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
4. Bossé Y. (2022). Les origines génétiques de la MPOC. Congrès Québécois en Santé Respiratoire, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
5. Bossé Y. (2019). Époumoné par le déficit en alpha-1 antitrypsine détecté trop tard. 45e congrès de l'Ordre professionnel des inhalothérapeutes du Québec (OPIQ), Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

Student/Postdoctoral Supervision

Master's Thesis [n=3]

2024/1 Principal Supervisor	Samuel Mathieu, Laval University Thesis/Project Title: The lung molecular transition to adenocarcinoma Present Position: Master student
2022/1 - 2024/4 Principal Supervisor	Louis-Jacques Ruel, Laval University Thesis/Project Title: TMB in lung cancer Present Position: Master student
2015/9 - 2017/12 Principal Supervisor	Alisson Clemenceau, Laval University Thesis/Project Title: Biomarkers to personalize treatment following surgical resection of lung adenocarcinoma Present Position: Postdoc

Doctorate [n=6]

2023/1 Co-Supervisor	Mona Patoughi, University Laval Thesis/Project Title: Hereditary cardiomyopathies Present Position: PhD student
2022/9 Co-Supervisor	Hanie Abolfathi, Laval University Thesis/Project Title: Molecular profiling of pulmonary adenocarcinomas Present Position: PhD student
2022/1 Principal Supervisor	Véronique Boumtje, Laval University Thesis/Project Title: Polygenic risk score and lung cancer Present Position: PhD student
2021/9 Principal Supervisor	Ran Xu, Laval University Thesis/Project Title: Genomics to elucidate the molecular mechanisms of calcific aortic valve disease Present Position: PhD student
2016/1 - 2020/7 Co-Supervisor	Nicolas Perrot, Laval University Thesis/Project Title: Impact des déterminants génétiques et environnementaux sur le risque de sténose aortique Present Position: Postdoctoral fellow
2013/1 - 2017/11 Principal Supervisor	Maxime Lamontagne, Laval University Thesis/Project Title: Genomics and bioinformatics approaches to understand the molecular basis of chronic obstructive pulmonary disease Present Position: Bioinformatics analyst

Doctorate Equivalent [n=1]

2020/1 Principal Supervisor	Kim Valette, IUCPQ-UL Thesis/Project Title: Prioritization of candidate causal genes in GWAS signals of asthma in UK Biobank Present Position: Fellow respirologist
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