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Dr. Jason Joseph LeBlanc

Correspondence language: English

Sex: Male

Date of Birth: 4/06

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://medicine.dal.ca/departments/department-sites/pathology/our-people/our-faculty/jason-leblanc .
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Dr. Jason LeBlanc

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes

User Profile

Disciplines Trained In: Molecular Biology, Microbiology, Virology, Immunology, Epidemiology and Biostatistics, Genetics, Biochemistry

Research Disciplines: Molecular Biology, Microbiology, Virology, Epidemiology and Biostatistics

Areas of Research: Global Health and Emerging Diseases, Diagnostic Techniques, Infectious Diseases, Epidemiology, Community Health / Public Health, Bacterial Infections, Vaccination, Childhood Vaccination, Genetic Screening of Diseases

Fields of Application: Pathogenesis and Treatment of Diseases, Public Health, Biomedical Aspects of Human Health

Research Specialization Keywords: Clinical Microbiology, Molecular Diagnostics, Molecular Epidemiology, Molecular Pathogenesis, Emerging Pathogens, Vaccine-Preventable Diseases, Clinical Bacteriology, Clinical Virology, Streptococcus pneumoniae, Respiratory viruses

Degrees

- 2007/7 - 2010/7 Post-doctorate, Fellowship (Canadian College of Microbiologists), Clinical Microbiology, Nova Scotia Health Authority
Degree Status: Completed
Supervisors: Dr. Todd F. Hatchette - Service Chief, Division of Microbiology, Nova Scotia Health Authority (NSHA); Dr. Kevin Forward - former Service Chief, Microbiology, Capital District Health Authority (CDHA)
- 2003/9 - 2006/4 Doctorate, Microbiology and Immunology, Molecular Pathogenesis, Dalhousie University
Degree Status: Completed
Supervisors: Dr. Ross Davidson; Dr. Paul Hoffman
- 2000/9 - 2003/4 Master's Thesis, Health Sciences, Biochemistry, Université de Moncton
Degree Status: Completed
Supervisors: Dr. Chantal Matar

- 1998/9 - 2000/4 Bachelor's Honours, Health Sciences, Biochemistry, Université de Moncton
Degree Status: Completed
Supervisors: Dr. Alan Fraser
- 1996/9 - 1998/4 Diploma, Health Sciences, Université de Moncton
Degree Status: Completed
Supervisors: Dr. Alan Fraser

Credentials

- 2018/5 Fellow of the Canadian College of Microbiologists [FCCM], Recertified (period 2017-2019), Canadian College of Microbiologists (CCM)
- 2017/6 Fellow of the Canadian College of Microbiologists [FCCM], Recertified (period 2014-2016), Canadian College of Microbiologists (CCM)
- 2014/11 Specialist Microbiologists in Biological Safety of the Canadian College of Microbiologists [SCCM(BSO)], Canadian College of Microbiologists (CCM)
- 2014/6 Fellow of the Canadian College of Microbiologists [FCCM], Recertified (period 2011-2013), Canadian College of Microbiologists (CCM)
- 2011/5 Fellow of the Canadian College of Microbiologists [FCCM], Canadian College of Microbiologists (CCM)
- 2011/5 Diplomat of the American Board of Medical Microbiologists [d(ABMM)], American Board of Medical Microbiologists (ABMM)

Recognitions

- 2016/9 Nominated for the Canadian Institutes of Health Research (CIHR) Gold Leaf Prize for Outstanding Achievements as an Early Career Investigator
Dalhousie University
Prize / Award
- 2014/4 Canadian Center for Vaccinology (CCfV) / Infectious Diseases Research day – Best poster award (Canadian dollar)
Izaak Walton Killam Children's Hospital
Prize / Award
- 2013/8 Izaak Walton Killam (IWK) research day – Best research award (Canadian dollar)
Izaak Walton Killam Children's Hospital
Prize / Award
- 2013/3 Department of Medicine, Dalhousie University - Best poster award (Canadian dollar)
Dalhousie University
Prize / Award
- 2009/9 "... extraordinary efforts, professionalism, leadership, and dedication." from Barbara Hall, VP Clinical Care, Community Restorative and Continuing Care Services
Nova Scotia Health Authority
Citation
- 2003/9 - 2006/4 Scholarship/stipend (Canadian dollar)
National Institutes of Health
Prize / Award

2000/9 - 2003/4 Scholarship/stipend (Canadian dollar)
Atlantic Innovation Fund (AIF)
Prize / Award

Employment

2020/7 Professor (full)
Microbiology & Immunology, Medicine/Dalhousie University/Halifax, Dalhousie University

2020/7 Professor (full)
Medicine, Infectious Disease, Medicine/Dalhousie University/Halifax, Dalhousie University

2020/7 Professor (full)
Pathology, Medicine/Dalhousie University/Halifax, Dalhousie University

2010/7 Clinical Microbiologist / Laboratory Scientist, Director of Virology/Immunology/Molecular
Microbiology, Division of Microbiology, Department of Pathology and Laboratory Medicine
Nova Scotia Health Authority

2015/7 - 2020/7 Associate Professor
Pathology, Medicine/Dalhousie University/Halifax, Dalhousie University

2015/7 - 2020/7 Associate Professor
Medicine, Infectious Disease, Medicine/Dalhousie University/Halifax, Dalhousie University

2015/7 - 2020/7 Associate Professor
Microbiology & Immunology, Medicine/Dalhousie University/Halifax, Dalhousie University

2010/7 - 2015/7 Assistant Professor
Microbiology & Immunology, Medicine/Dalhousie University/Halifax, Dalhousie University

2010/7 - 2015/7 Assistant Professor
Medicine, Infectious Disease, Medicine/Dalhousie University/Halifax, Dalhousie University

2010/7 - 2015/7 Assistant Professor
Pathology, Medicine/Dalhousie University/Halifax, Dalhousie University

2007/3 - 2008/7 Technical Specialist (Medical Laboratory Technologist), Division of Microbiology,
Department of Pathology and Laboratory Medicine
Nova Scotia Health Authority

2005/9 - 2006/4 Laboratory Instructor
Biology, Sciences/Halifax, St-Mary's University

2000/9 - 2003/4 Laboratory Instructor
Biochemistry, Sciences, University de Moncton

1998/9 - 2000/4 Teaching Assistant
Biochemistry, Sciences, Universite de Moncton

Affiliations

The primary affiliation is denoted by (*)

2017/10 Chair, Respiratory Viruses (ReVi) Working Group Verification and Validation workgroup-
Canadian Public Health Laboratory Network (CPHLN), Public Health Agency of Canada
(PHAC)

2017/10 Member, Respiratory Viruses (ReVi) Working Group Laboratory Methods and Algorithms
workgroup- Canadian Public Health Laboratory Network (CPHLN), Public Health Agency
of Canada (PHAC)

- 2017/10 Co-Chair, Respiratory Viruses (ReVi) Working Group - Canadian Public Health Laboratory Network (CPHLN), Public Health Agency of Canada (PHAC) - Canadian Public Health Laboratory Network (CPHLN)
- 2017/9 Member, Appointment, Tenure, and Promotion committee - Division of Pathology, Dalhousie University
- 2017/5 President, Canadian College of Microbiologists (CCM), Canadian College of Microbiologists (CCM)
- 2017/4 Member, Clinical Virology Symposium (CVS) Conference organizing committee, Clinical Virology Symposium (CVS)
- 2017/1 Member, Canadian Immunization Research Network (CIRN), Serious Outcomes Surveillance (SOS) Steering committee, Canadian Immunization Research Network (CIRN)
- 2017/1 Member, Canadian Centre for Vaccinology (CCfV) Advisory Committee, Canadian Centre for Vaccinology (CCfV) Advisory Committee
- 2016/8 Assessor, National Microbiology Laboratory ISO 17025, Accreditation Service Branch, Standards Council of Canada
- 2016/7 Chair, Gold Standards of Laboratory Testing (GLST) - Public Health Agency of Canada (PHAC), Public Health Agency of Canada (PHAC) - Canadian Public Health Laboratory Network (CPHLN)
- 2016/7 Program Director, Fellowship in Clinical Microbiology, Dalhousie University
- 2016/4 Assessor, Anatomical Pathology Division Review committee, Nova Scotia Health Authority
- 2016/1 Public Health Agency of Canada (PHAC) - Nova Scotia Representative, Zika virus working group, Canadian Public Health Laboratory Network (CPHLN)
- 2015/9 Member, Infectious Disease Society of America (IDSA), Infectious Disease Society of America (IDSA)
- 2015/7 Program Director, Fellowship in Molecular Microbiology, Dalhousie University
- 2015/4 Member, Canadian Association for Biological Safety (CABS), Canadian Association for Biological Safety (CABS)
- 2014/9 Member, Dalhousie Microbiome User Group (DalMUG), Dalhousie Microbiome User Group (DalMUG)
- 2014/9 Member, Appointment, Tenure, and Promotion committee - Division of Microbiology and Immunology, Dalhousie University
- 2014/4 Executive member, Molecular Laboratory Management Operations committee, Nova Scotia Health Authority
- 2014/3 Chair, Specialists Microbiologists in Biological Safety committee, Canadian College of Microbiologists (CCM)
- 2014/1 Executive member, Human Pathogens and Toxins Act and Regulations (HPTA/R) working group, Nova Scotia Health Authority
- 2013/4 Nova Scotia Representative, Canadian Association of HIV Clinical Laboratory Specialists (CAHCLS), Canadian Association of HIV Clinical Laboratory Specialists (CAHCLS)
- 2013/1 Member, Atlantic HIV Experts (ACHIVE), Atlantic HIV Experts (ACHIVE)
- 2013/1 Nova Scotia Representative, Laboratory Information Management System working group, Canadian Public Health Laboratory Network (CPHLN)

2012/9	Member, Nova Scotia Health Authority Research Fund Committee, Nova Scotia Health Authority
2012/7	Co-Chair, Microbiology Health and Safety committee, Nova Scotia Health Authority
2012/7	Research Coordinator, Departments of Medicine Residents Training committee, Dalhousie University
2012/1	Management representative, Joint Occupational Health and Safety committee, Nova Scotia Health Authority
2011/5	Member, Department of Pathology Research committee, Nova Scotia Health Authority
2011/4	Member, Communications and Public Relations Committee, Association of Medical Microbiology and Infectious Disease (AMMI)
2011/4	Chair, Website Management committee, Association of Medical Microbiology and Infectious Disease (AMMI)
2010/7	Associate Professor (Microbiology and Immunology), Microbiology and Immunology, Dalhousie University
2010/7	Investigator, Canadian Centre for Vaccinology (CCfV), Canadian Centre for Vaccinology (CCfV)
2010/7	Executive member, Microbiology Quality Management committee, Nova Scotia Health Authority
(*) 2010/7	Associate Professor, Pathology(*), Microbiology and Immunology, Medicine (Infectious Diseases), Pathology, Dalhousie University
2010/7	Executive member, Microbiology Divisional Management committee, Nova Scotia Health Authority
2010/7	Executive member, Microbiology Strategic Planning committee, Nova Scotia Health Authority
2010/7	Associate Professor (Medicine), Medicine, Dalhousie University
2010/3	Member, Canadian Association for Clinical Microbiology and Infectious Diseases (CACMID), Canadian Association for Clinical Microbiology and Infectious Diseases (CACMID)
2010/1	Investigator, Canadian Immunization Research Network (CIRN), Canadian Immunization Research Network (CIRN)
2009/3	Member, Association of Medical Microbiology and infectious Diseases (AMMI), Association of Medical Microbiology and infectious Diseases (AMMI)
2008/5	Member, Pan American Society for Clinical Virology (PASCV), Pan American Society for Clinical Virology (PASCV)
2007/1	Member, American Society of Microbiology (ASM), American Society of Microbiology (ASM)
2007/1	Member, Canadian Society of Microbiologists (CSM), Canadian Society of Microbiologists (CSM)
2007/1	Member, National Molecular Microbiology Diagnostic User Group (NMG), National Molecular Microbiology Diagnostic User Group (NMG)
2017/9 - 2017/9	Assessor, National Microbiology Laboratory, ISO 17049, Standards Council of Canada
2017/9 - 2017/9	Assessor, National Microbiology Laboratory ISO 17045, Standards Council of Canada

2015/1 - 2016/12	Chair, Provincial Laboratory Quality Control committee, Provincial Public Health Laboratory Network (PPHLN)
2014/3 - 2016/5	Vice-president, Canadian College of Microbiologists (CCM), Canadian College of Microbiologists (CCM)
2016/2 - 2016/2	Expert reviewer, Earnest C. Manning Innovation Awards, Earnest C. Manning Innovation Awards
2013/1 - 2015/12	Chair, Creutzfeldt Jakob Disease (CJD) working group, Nova Scotia Health Authority
2013/1 - 2015/12	Member, Dalhousie Biosafety committee, Dalhousie University
2010/7 - 2015/4	Member, Dalhousie University Infectious Disease Research Alliance (DIDRA), Dalhousie University Infectious Disease Research Alliance (DIDRA)
2014/9 - 2015/3	Nova Scotia Representative, Enterovirus D68 working group, Canadian Public Health Laboratory Network (CPHLN)
2014/5 - 2015/3	Nova Scotia Representative, MERS-CoV working group, Canadian Public Health Laboratory Network (CPHLN)
2014/9 - 2015/2	Nova Scotia Representative, Ebola virus working group, Canadian Public Health Laboratory Network (CPHLN)
2013/1 - 2014/12	Nova Scotia Representative, National Biosafety Officer Network (BSON), Public Health Agency of Canada (PHAC)
2014/4 - 2014/7	Assessor, Clinical Chemistry Review committee, Nova Scotia Health Authority
2013/10 - 2014/5	Member, Lymphogranuloma venereum (LGV) working group, Public Health Agency of Canada (PHAC)
2013/5 - 2014/5	Nova Scotia Representative, Influenza A H7N9 working group, Canadian Public Health Laboratory Network (CPHLN)
2013/4 - 2013/7	Assessor, Hematopathology Division Review committee, Nova Scotia Health Authority
2009/7 - 2011/12	Nova Scotia Representative, Pandemic Influenza working group, Canadian Public Health Laboratory Network (CPHLN)

Research Funding History

Awarded [n=20]

2017/6 - 2022/6 Co-investigator	Canadian Immunization Research Network (CIRN) Principal Investigator : Dr. Scott Halperin Funding Sources: 2017/6 - 2022/6 Canadian Institutes of Health Research (CIHR) CIHR Total Funding - 10,083,334 (Canadian dollar) Funding Competitive?: Yes
2020/4 - 2022/4 Co-investigator	Identification of biomarkers that predict severity of COVID-19 patients Principal Investigator : Dr David Kelvin

Funding Sources:

2020/4 - 2022/4 Canadian Institutes of Health Research (CIHR)
 COVID-19
 Total Funding - 1,000,000 (Canadian dollar)
 Funding Competitive?: Yes

2020/4 - 2022/4
 Co-investigator

Prevalence and clinical characteristics of COVID-19 among hemodialysis patients

Principal Investigator : Karthik Tennankore

Funding Sources:

2020/4 - 2022/4 Nova Scotia COVID-19 Health Research Coalition
 Nova Scotia COVID-19 Health Research Coalition
 Total Funding - 43,103 (Canadian dollar)
 Funding Competitive?: Yes

2020/4 - 2022/4
 Co-investigator

A multiplex platform for higher sensitivity detection of SARS-CoV-2

Principal Investigator : Todd Hatchette

Funding Sources:

2020/4 - 2022/4 Nova Scotia COVID-19 Health Research Coalition
 Nova Scotia COVID-19 Health Research Coalition
 Total Funding - 44,000 (Canadian dollar)
 Funding Competitive?: Yes

2020/4 - 2022/4
 Co-investigator

Sentinel surveillance, viral shedding, clinical characteristics and outcomes of confirmed and suspected hospitalized cases of COVID-19/SARS-CoV-2 infection in the Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance Network

Principal Investigator : Dr Shelley McNeil

Funding Sources:

2020/4 - 2022/4 Canadian Institutes of Health Research (CIHR)
 COVID-19
 Total Funding - 997,683 (Canadian dollar)
 Funding Competitive?: Yes

2020/4 - 2022/4
 Co-investigator

A microbiome-based COVID-19 risk-assessment tool

Principal Investigator : Morgan Langille

Funding Sources:

2020/4 - 2022/4 Nova Scotia COVID-19 Health Research Coalition
 Nova Scotia COVID-19 Health Research Coalition
 Total Funding - 30,000 (Canadian dollar)
 Funding Competitive?: Yes

2020/4 - 2022/4
 Co-investigator

COVID-19 viral shedding study

Principal Investigator : Glenn Patriquin

Funding Sources:

2020/4 - 2022/4 Nova Scotia COVID-19 Health Research Coalition
 Nova Scotia COVID-19 Health Research Coalition
 Total Funding - 25,000 (Canadian dollar)
 Funding Competitive?: Yes

2020/4 - 2022/4
 Co-investigator

Cellular immune phenotype in patients with severe COVID disease before and after COVID-19 treatment

Principal Investigator : Lisa Barrett

Funding Sources:

2020/4 - 2022/4 Nova Scotia COVID-19 Health Research Coalition
 Nova Scotia COVID-19 Health Research Coalition
 Total Funding - 75,000 (Canadian dollar)
 Funding Competitive?: Yes

2019/9 - 2021/9 EPI-RSV-019 OA BOD CA: Study to assess the prevalence, serious outcomes, and costs
 Principal Applicant associated with Respiratory Syncytial Virus (RSV) in hospitalized adults

Funding Sources:

2020/9 - 2021/9 GlaxoSmithKline (GSK)
 Investigator-initiated, industry funded
 Total Funding - 1,068,409 (Canadian dollar)
 Funding Competitive?: Yes

2018/6 - 2020/12 An observer-blind study to evaluate the efficacy, safety, reactogenicity and
 Co-applicant immunogenicity of the GlaxoSmithKline (GSK) Biologicals' investigational vaccine
 GSK3277511A when administered to COPD patients.

Principal Investigator : Shelly A McNeil

Funding Sources:

2018/6 - 2020/12 GlaxoSmithKline (GSK)
 Investigator-initiated, industry funded
 Total Funding - 75,000 (Canadian dollar)
 Funding Competitive?: Yes

2018/6 - 2020/9 V114-017 Molecular surveillance for pneumococcal disease in marginalized populations
 Principal Applicant

Funding Sources:

2018/6 - 2020/6 Merck Inc.
 Investigator-initiated, industry funded
 Total Funding - 563,541 (Canadian dollar)
 Funding Competitive?: Yes

2018/9 - 2020/9 VEAP-017 Molecular surveillance for pneumococcal disease in pediatric populations
 Principal Investigator

Funding Sources:

2018/9 - 2020/9 Merck Inc.
 Investigator-initiated, industry funded
 Total Funding - 111,683 (Canadian dollar)
 Funding Competitive?: Yes

2019/1 - 2020/1 Positive Prevention: Community based implementation of HIV prevention tools for harm
 Co-applicant reduction

Principal Investigator : Lisa Barrett

Funding Sources:

2019/1 - 2020/1 Queen Elizabeth II and Izaak Killam Walton Foundation
 Translating Research Into Care
 Total Funding - 59,998 (Canadian dollar)
 Funding Competitive?: Yes

2017/7 - 2019/7 Improving surveillance of non-enteric bacterial pathogens by whole genome sequencing
 Co-investigator [Neisseria gonorrhoeae (NG), Streptococcus pneumoniae (SP), Clostridium difficile (CD),
 Haemophilus influenzae (HI)]

Principal Applicant : George Golding

Funding Sources:

2017/7 - 2019/7 Public Health Agency of Canada (PHAC)
GRDI
Total Funding - 550,000 (Canadian dollar)
Funding Competitive?: Yes

2017/6 - 2018/6
Co-applicant

Eradication of Chronic Bacterial Infections in Cystic Fibrosis by Degrading Biofilms

Principal Applicant : Zhenyu Cheng

Funding Sources:

2017/6 - 2018/6 Nova Scotia Health Research Foundation (NSHRF)
Catalyst Grant
Total Funding - 50,000 (Canadian dollar)
Funding Competitive?: Yes

2016/3 - 2018/3
Principal Applicant

Urine antigen detection: A goldmine for Streptococcus pneumoniae surveillance

Funding Sources:

2016/3 - 2018/3 Nova Scotia Health Authority Research Funds (NSHARF)
NNSHRF
Total Funding - 24,995 (Canadian dollar)
Funding Competitive?: Yes

2010/1 - 2017/12
Co-investigator

Active Surveillance for Pneumococcal Disease among Hospitalized Canadian Adults;
Canadian Institutes of Health Research (CIHR), Public Health Agency of Canada (PHAC)
and Pfizer Canada

Principal Investigator : Shelly McNeil

Funding Sources:

2010/1 - 2017/12 Canadian Institutes of Health Research (CIHR), Public Health Agency
of Canada (PHAC) and Pfizer Canada
Investigator-initiated, industry funded
Total Funding - 6,284,626 (Canadian dollar)
Funding Competitive?: Yes

2015/7 - 2017/7
Principal Investigator

PCR-based discrimination of vaccine preventable serotype of Streptococcus pneumoniae

Funding Sources:

2015/7 - 2017/7 Canadian Immunization research Network (CIRN)
CIRN
Total Funding - 45,000 (Canadian dollar)
Funding Competitive?: Yes

2014/6 - 2017/6
Co-investigator

Canadian Immunization Research Network (CIRN)

Principal Investigator : Scott Halperin

Funding Sources:

2014/6 - 2018/6 Canadian Institutes of Health Research (CIHR)
CIHR
Total Funding - 6,583,497 (Canadian dollar)
Funding Competitive?: Yes

2015/6 - 2016/6
Co-investigator

Investigating the Role of Metal Nanoparticles in Invasive Pneumococcal Disease

Principal Investigator : Jong Sung Kim

Funding Sources:

2015/6 - 2016/6 Nova Scotia Lung Association
 Legacy Research Award
 Total Funding - 25,000 (Canadian dollar)
 Funding Competitive?: Yes

Completed [n=1]

2015/7 - 2016/7 PCR-based discrimination of vaccine preventable serotype of Streptococcus pneumoniae

Principal Applicant

Funding Sources:

2015/7 - 2016/7 Nova Scotia Health Research Foundation (NSHRF)
 Development and Innovation Grant
 Total Funding - 14,990 (Canadian dollar)
 Funding Competitive?: Yes

Student/Postdoctoral Supervision**Bachelor's Equivalent [n=2]**

Principal Supervisor Joseph Daniel LaFreniere (Completed) , Dalhousie University
 Student Degree Start Date: 2014/9
 Student Degree Received Date: 2015/4
 Project Description: Activation of Legionella pneumophila OxyR by nitrosidative stress

Principal Supervisor Kristen Harding (Completed) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Received Date: 2015/4
 Project Description: Characterization of the Legionella pneumophila OxyR regulon

Bachelor's Honours [n=8]

Principal Supervisor Jack Schembri (Completed) , Dalhousie University
 Student Degree Start Date: 2016/9
 Student Degree Received Date: 2017/5
 Project Description: Multitarget controls for PCR-based serotype deduction for Streptococcus pneumoniae
 Present Position: MBA

Principal Supervisor Clarissa Brisseau (Completed) , Dalhousie University
 Student Degree Start Date: 2015/9
 Student Degree Received Date: 2016/4
 Project Description: Multilocus Sequence Typing analysis of Streptococcus pneumoniae isolates that are non-typeable by Quellung serotyping
 Present Position: Graduate studies

Principal Supervisor Alexa Lund (Completed) , Dalhousie University
 Student Degree Start Date: 2015/9
 Student Degree Received Date: 2016/4
 Project Description: Correlation between influenza viral loads and disease outcomes

- Principal Supervisor Madison Dobrovolskis (Completed) , Dalhousie University
 Student Degree Start Date: 2015/9
 Student Degree Received Date: 2016/4
 Project Description: Biofilm formation in Legionella pneumophila
 Present Position: Medical school
- Principal Supervisor Christopher Leeks (Completed) , Dalhousie University
 Student Degree Start Date: 2014/9
 Student Degree Received Date: 2015/4
 Project Description: Oxidative stress in Legionella pneumophila biofilms and development of oxidizing biocides
 Present Position: Graduate studies
- Principal Supervisor Amit Ross (Completed) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Received Date: 2014/4
 Project Description: Evaluation of Matrix-Assisted Laser Desorption Ionization Time-of-Flight for the Detection of Clostridium difficile and Escherichia coli O157:H7 Toxins
 Present Position: Graduate studies
- Co-Supervisor Cara MacRae (Completed) , Dalhousie University
 Student Degree Start Date: 2012/9
 Student Degree Received Date: 2013/4
 Project Description: Development of a mouse model for pandemic influenza A virus (H1N1)
 Present Position: Medical school
- Principal Supervisor Brenda-Lee Rooney (Completed) , Dalhousie University
 Student Degree Start Date: 2012/9
 Student Degree Received Date: 2013/4
 Project Description: Identification of peptide antagonists targeting toxins of Clostridium difficile
 Present Position: Graduate studies

Master's Thesis [n=12]

- Principal Supervisor Hayley Gillis (In Progress) , Dalhousie University
 Student Degree Start Date: 2017/9
 Student Degree Expected Date: 2021/4
 Project Description: Role of frailty in the clinical outcomes of pneumococcal community acquired pneumonia
 Present Position: Medicine
- Co-Supervisor May ElSherif (In Progress) , Dalhousie University
 Student Degree Start Date: 2016/9
 Student Degree Expected Date: 2018/4
 Project Description: Development of new serological methods for poliovirus
 Present Position: Research coordinator CCfV/CIRN
- Academic Advisor Anna Roesler (In Progress) , Dalhousie University
 Student Degree Start Date: 2016/9
 Student Degree Expected Date: 2018/9
 Project Description: Assessment of Natural killer cell phenotype, function, and KIR type pre- and post-hepatitis C virus cure

- Academic Advisor Lydia Li (Completed) , Dalhousie University
 Student Degree Start Date: 2016/9
 Student Degree Received Date: 2018/4
 Project Description: Disulfide formation pathways in Streptococcus pyogenes
- Academic Advisor Adam Aitchison (Completed) , Dalhousie University
 Student Degree Start Date: 2015/9
 Student Degree Received Date: 2018/4
 Project Description: Iron toxicity in Streptococcus pneumonia lung infection models
- Co-Supervisor Cameron Runte (Completed) , Dalhousie University
 Student Degree Start Date: 2015/7
 Student Degree Received Date: 2017/8
 Project Description: Phosphorylation of CesT controls Type 3 Secretion in Enteropathogenic E. coli
- Academic Advisor Aaron Liu (Completed) , Dalhousie University
 Student Degree Start Date: 2014/9
 Student Degree Received Date: 2016/4
 Project Description: Investigating Type 3 Secretion System Regulation in Vibrio parahaemolyticus
- Co-Supervisor Peter Robertson (Completed) , Dalhousie University
 Student Degree Start Date: 2014/9
 Student Degree Received Date: 2016/4
 Project Description: Investigating Secretion of HtpB, the multifunctional chaperonin in Legionella pneumophila
 Present Position: Canadian Food Inspection Agency (CFIA)
- Academic Advisor Adrian Herod (Completed) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Received Date: 2015/4
 Project Description: Shigella virulence
- Academic Advisor Alicia Malone (Completed) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Received Date: 2015/4
 Project Description: Immune responses to lactoferricin
- Academic Advisor Niluni Wijesundra (Completed) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Received Date: 2015/12
 Project Description: Exploration of phytochemicals-rich extracts of selected Canadian plants against streptococcal pharyngitis
- Principal Supervisor Brenda-Lee Rooney (All But Degree) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Expected Date: 2015/4
 Project Description: Development of an Oral Delivery System for the Delivery of Peptide Antagonists against Clostridium difficile
- Doctorate [n=2]**
- Academic Advisor Adrian Herod (In Progress) , Dalhousie University
 Student Degree Start Date: 2014/9
 Student Degree Expected Date: 2018/4
 Project Description: Shigella and Salmonella virulence

Academic Advisor Naif Jalal (In Progress) , Dalhousie University
 Student Degree Start Date: 2013/9
 Student Degree Expected Date: 2018/4
 Project Description: Surface expression of proteins in Streptococcus gordonii

Doctorate Equivalent [n=1]

Co-Supervisor Hayley Gillis (Completed) , Dalhousie University
 Student Degree Start Date: 2015/9
 Student Degree Received Date: 2017/6
 Project Description: PCR and Sequence-based Discrimination of vaccine-preventable serotypes of Streptococcus pneumoniae
 Present Position: Medicine, Halifax, NS

Post-doctorate [n=9]

Principal Supervisor Dr. Amanda Lang (In Progress) , Dalhousie University
 Student Degree Start Date: 2016/7
 Student Degree Expected Date: 2018/7
 Project Description: Clinical Microbiology Fellowship
 Present Position: Clinical Microbiologist, Saskatchewan Health Authority

Principal Supervisor Dr. Khalifa Binkhamis (In Progress) , Dalhousie University
 Student Degree Start Date: 2015/4
 Student Degree Expected Date: 2017/4
 Project Description: Fellowship in Molecular Microbiology
 Present Position: Medical Resident (Fellow)

Principal Supervisor Dr. Daniel Gaston (Completed) , Dalhousie University
 Student Degree Start Date: 2014/9
 Student Degree Received Date: 2015/4
 Project Description: Use of whole genome sequence comparisons to discriminate between Streptococcus pneumoniae serotypes
 Present Position: Bioinformatician at Nova Scotia Health Authority (NSHA)

Principal Supervisor Dr. Hilal Al-Sadari (In Progress) , Dalhousie University
 Student Degree Start Date: 2013/7
 Student Degree Expected Date: 2018/4
 Project Description: Medical resident (Clinical Microbiology)
 Present Position: Medical Microbiology in Halifax, NS

Co-Supervisor Dr. Jessica McLellan (Completed) , Dalhousie University
 Student Degree Start Date: 2012/9
 Student Degree Received Date: 2013/2
 Project Description: Validation of real-time RT-PCR assays for the detection and typing of Influenza A and B.
 Present Position: Senior Scientific Officer PERCH Medical Research Council Unit (Gambia)

Co-Supervisor Dr. Amanda Wisner (Completed) , Dalhousie University
 Student Degree Start Date: 2012/7
 Student Degree Received Date: 2014/1
 Project Description: Molecular identification and typing of Streptococcus pneumoniae from nasopharyngeal swabs
 Present Position: Head of Emerging Viral Diseases in Environmental & Emerging Diseases Unit (EEDU) Papua New Guinea

- Co-Supervisor Dr. Sarah McAlpine (Completed) , Dalhousie University
 Student Degree Start Date: 2010/9
 Student Degree Received Date: 2015/4
 Project Description: Antigen sparing for pertussis vaccine and influenza virus cross-protection studies in vivo
 Present Position: Research manager
- Principal Supervisor Dr. Khalifa Binkhamis (Completed) , Dalhousie University
 Student Degree Start Date: 2010/9
 Student Degree Received Date: 2015/4
 Project Description: Development of a cost effective varicella zoster virus PCR
 Present Position: Resident (Medical Microbiology)
- Principal Supervisor Dr. Turkiya Al-Siyabi (Completed) , Dalhousie University
 Student Degree Start Date: 2010/9
 Student Degree Received Date: 2015/4
 Project Description: Development of a cost effective adenovirus PCR
 Present Position: Medical Microbiologist

Research Associate [n=1]

- Co-Supervisor Dr. Stephen Smith (Completed) , Dalhousie University
 Student Degree Start Date: 2008/6
 Project Description: Rapid influenza virus detection for laboratories in remote areas
 Present Position: Resident (Surgery)

Community and Volunteer Activities

- 2017/9 - 2018/9 Collaborator, Nova Scotia Community College
 Research project mentoring - Tara Hynes
- 2010/9 - 2017/9 Investigator, Dalhousie University
 Society of Immunology & Microbiology Students (SIMS) - promotion of research and career opportunities
- 2010/8 - 2017/8 Judge, Izaak Walton Killam Children's Hospital
 Summer Research Symposium
- 2011/4 - 2017/5 Judge, Association of Medical Microbiology and Infectious Diseases (AMMI)
 Judge, Poster AMMI awards
- 2010/4 - 2017/5 Judge, Canadian Centre for Vaccinology (CCfV)
 Research Day

International Collaboration Activities

- 2014/1 Collaborator, Argentina
 Centro de Referencia para Lactobacilos (CERELA): Development of probiotics for the treatment or prevention of Clostridium difficile.
- 2013/9 Collaborator, United States
 Collaboration with Dr Paul Hoffman (University of Virginia): Bioinformatic approach to investigate structural features of Legionella pneumophila OxyR activation
- 2017/1 - 2021/12 Co-Investigator, United States
 Investigator-driven industry funded research with Merck
- 2010/9 - 2017/12 Co-Investigator, United States
 Investigator-driven industry funded research with Pfizer

Presentations

1. (2019). Age stratified burden of pneumococcal community acquired pneumonia in hospitalized Canadian adults. Canadian Immunization Research Network (CIRN), Canada
Main Audience: Decision Maker
Invited?: Yes
2. (2019). Trends in pneumococcal community acquired pneumonia in hospitalized adults. Canadian Pneumococcal Vaccine Meeting, Canada
Main Audience: Decision Maker
Invited?: Yes
3. (2018). Spotlight Presentation: Is Streptococcus pneumoniae serotype 3 masking herd immunity in adults hospitalized with community acquired pneumonia?. International Symposium on Pneumococci and Pneumococcal Diseases, Melbourne, Australia
Main Audience: Knowledge User
Invited?: Yes
4. (2018). PCV13 serotype trends over time in pneumococcal community acquired pneumonia: Which method(s) work best?. Canadian Immunization Conference (CIC), Ottawa, ON, Canada
Main Audience: Decision Maker
Invited?: Yes
5. (2018). 'Tis the season... respiratory that is. Infection Prevention and Control Education Symposium, Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes
6. (2017). Gold Standards for Laboratory Testing. Canadian Public Health Laboratory Network (CPHLN) - Public Health Agency Of Canada, Canada
Main Audience: Decision Maker
Invited?: Yes
7. (2017). Burden of pneumococcal disease surveillance by the CIRN SOS network and use of molecular serotyping to assess colonization. Merck International, Philadelphia, United States
Main Audience: Decision Maker
Invited?: Yes
8. (2017). Burden of pneumococcal community acquired pneumonia and invassive pneumococcal disease among hospitalized adults : A Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network study.National Advisory Committee on Immunization (NACI), Halifax, Canada
Main Audience: Decision Maker
Invited?: Yes
9. (2017). Vaccine preventable burden of pneumococcal disease. Pfizer Global, Philadelphia, United States
Main Audience: Decision Maker
Invited?: Yes
10. (2017). Decrease in PCV13 serotypes in adults hospitalized with pneumococcal pneumonia over time: evidence herd immunity effects from childhood vaccination. Canadian Immunization Research Network (CIRN), Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes

11. (2016). Increasing The Diagnostic Yield Of Pneumococcal Community Acquired Pneumonia Surveillance In Hospitalized Adults Using Combinative Laboratory Testing. Canadian Immunization Conference, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
12. McNeil SA. (2016). Influenza vaccine effectiveness in the prevention of influenza-related hospitalization in Canadian adults over the 2011/12 through 2013/14 seasons: A pooled analysis from the CIRN SOS Network. Infectious Diseases Society of America - IDWeek, New Orleans, United States
Main Audience: Knowledge User
Invited?: Yes
13. LeBlanc JJ. (2016). Update on the Registration and Certification of the Biosafety Officer in Canada. Canadian Biosafety Symposium (CBS), Montreal, Canada
Main Audience: Knowledge User
Invited?: Yes
14. Gillis HD. (2016). Clinical Validation of PCR-Based Detection And Serotype Deduction of Streptococcus Pneumoniae from Nasopharyngeal Swabs Collected for Viral Studies. Canadian Immunization Conference, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
15. LeBlanc JJ. (2016). Burden of pneumococcal community acquired pneumonia and invasive pneumococcal disease among hospitalized adults : A Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network study. Canadian Immunization Research Network (CIRN), Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
16. LeBlanc JJ, Bonnar P, Davis I. (2016). Microbiota Therapy: Unleashing a Dirty Secret. Grand Rounds in Medicine, Nova Scotia Health Authority (NSHA), Halifax, Canada
Main Audience: Knowledge User
Invited?: Yes
17. McNeil SA, Nichol-Evans M. (2016). Effectiveness of influenza vaccines for the prevention of influenza-associated hospitalization in adults across 3 influenza seasons in Canada (2011/12- 2013/14) and Preliminary End-of-Season VE 2014/15 and the impact of prior influenza vaccination. National Advisory Committee on Immunization (NACI), Canada
Main Audience: Decision Maker
Invited?: Yes
18. McNeil SA. (2016). Resource Utilization and Cost of Laboratory Confirmed Influenza Requiring Hospitalization in Canadian Adults. Canadian Immunization Conference, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
19. (2016). Burden of vaccine-preventable disease in adults hospitalized with community Acquired pneumonia and invasive pneumococcal disease - A study by the Serious Outcomes Surveillance Network of the Canadian Immunization Research Network. Pneumococcal Research Exchange, Canadian Immunization Conference (CIC), Ottawa, Canada
Main Audience: Researcher
Invited?: Yes
20. Nichol-Evans M. (2016). Impact of Prior Season Vaccination on Seasonal Influenza Vaccine Effectiveness: A preliminary analysis over 4 seasons from the CIRN SOS Network. Canadian Immunization Conference, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes

21. LeBlanc JJ. (2016). Burden of vaccine-preventable pneumococcal disease in hospitalized adults: A Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network Study. Infectious Diseases Society of America (IDSA), New Orleans, United States
Main Audience: Knowledge User
Invited?: Yes
22. LeBlanc JJ. (2016). Are we on the right track? HPV-related cancer and disease prevention. CME presentation, Dartmouth hospital, Dartmouth, Canada
Main Audience: Knowledge User
Invited?: Yes
23. LeBlanc JJ. (2016). Burden of vaccine-preventable pneumococcal disease in hospitalized adults: A Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network Study. Canadian Immunization Conference (CIC), Ottawa, Canada
Main Audience: Decision Maker
Invited?: Yes
24. Andrew MK. (2016). Impact of Frailty on Influenza Vaccine Effectiveness and Clinical Outcomes: Experience from the Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network 2011/12 Season. Canadian Immunization Conference, Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
25. LeBlanc JJ. (2015). HPV-related cancer and disease prevention. CME presentation, Yarmouth hospital, Yarmouth, Canada
Main Audience: Knowledge User
Invited?: Yes
26. LeBlanc JJ. (2015). An update on herpes zoster vaccination for primary care. CME presentation, Yarmouth hospital, Yarmouth, Canada
Main Audience: Knowledge User
Invited?: Yes
27. LeBlanc JJ. (2015). Detection of Enterovirus D68 in Canadian laboratories. Association of Medical Microbiologists and Infectious Diseases (AMMI) / Canadian Association for Clinical Microbiology and Infectious Diseases (CACMID), Vancouver, Canada
Main Audience: Researcher
Invited?: Yes
28. LeBlanc JJ. (2015). Refining PCR- Based Surveillance of Vaccine-Preventable Serotypes of Streptococcus pneumoniae. Canadian Immunization Research Network (CIRN), Ottawa, Canada
Main Audience: Knowledge User
Invited?: Yes
29. LeBlanc JJ. (2015). Norovirus epidemiology and cruiseships and land. Health Canada Outbreak Management and Investigations on International Cruise ships Program, Halifax, Canada
Main Audience: Decision Maker
Invited?: Yes
30. LeBlanc JJ. (2015). Refining PCR-based surveillance of vaccine-preventable serotypes of Streptococcus pneumoniae. Canadian Center for Vaccinology (CCfV), Halifax, Canada
Main Audience: Researcher
Invited?: Yes

Broadcast Interviews

- 2020/03/24 - COVID-19 Testing in Nova Scotia, Halifax Examiner
2020/03/24
- 2020/03/06 - Health System Preparation for Novel Coronavirus (COVID-19) - News Conference, Nova
2020/03/06 Scotia Government, many media outlets (radio, television, and online)

Text Interviews

- 2018/10/16 Research within the Division of Infectious Diseases and interdisciplinary collaborations,
Department of Medicine newsletter
- 2018/04/25 Recent developments in pneumococcal disease surveillance, Nova Scotia Health
Authority (NSHA) newsletter

Publications

Journal Articles

1. LeBlanc JJ, ElSherif M, Ye L, MacKinnon-Cameron D, Ambrose A, Hatchette TF, Lang ALS, Gillis HD, Martin I, Demczuk WHB, Laferriere C, Andrew MK, Boivin G, Bowie W, Green K, Johnstone J, Loeb M, McCarthy AE, McGeer A, Semret M, Trottier S, Valiquette L, Webster D, McNeil SA. (2020). Age stratified burden of pneumococcal community acquired pneumonia in hospitalized Canadian adults. *BMJ Open Respiration Research*. 7(1): e000550.
Published
Refereed?: Yes
2. Davis I, McNeil SA, Allen W, MacKinnon-Cameron D, Lindsay R, Bernat K, Dibernardo A, LeBlanc JJ, Hatchette TF. (2020). Performance of a modified two-tiered testing (MTTT) EIA algorithm for serologic diagnosis of Lyme disease in Nova Scotia. *Journal of Clinical Microbiology (JCM)*. N/A: N/A.
Co-Author
Published
Refereed?: Yes
3. Patriquin G, LeblancJJ. (2020). SARS-CoV-2 sensitivity limbo: How low can we go?. *New England Journal of Medicine*.
Submitted
4. Gale J, Clark D, Bohm C, Canney M, Davis I, LeBlanc JJ, Shorter A, Suri R, Vinson A, West K, Tennankore K. (2020). COVID-19 status, symptom burden and characteristics of dialysis patients residing in areas of community transmission: Research Letter. *Canadian Journal of Kidney Health and Disease*.
Submitted
5. LeBlanc JJ, Patriquin G, Pettipas J, Warhuus M, Sarty D, Jackson C, Heinstein C, MacDonald J, Haldane D, Hatchette TF. (2020). Look before diving into pooling of SARS-CoV-2 samples on high throughput analyzers. *J. Clin. Microbiol.*
Submitted
6. Patriquin G, Davis I, Heinstein C, MacDonald J, Hatchette TF, LeBlanc JJ. (2020). Exploring alternative swabs for use in SARS-CoV-2 detection from the oropharynx and anterior nares. *J. Virol. Methods*. 285: 113948.
Last Author
Published
Refereed?: Yes

7. Lees C, Godin J, McElhaney JE, McNeil SA, Loeb M, Hatchette TF, LeBlanc JJ, Bowie W, Boivin G, McGeer A, Poirier A, Powis J, Semret M, Webster D, Andre MK. (2020). Frailty Hinders Recovery From Influenza and Acute Respiratory Illness in Older Adults. *J. Infect Dis.* mar 9: Jiaa092.
Published
Refereed?: Yes
8. LeBlanc JJ, Heinsteinst C, MacDonald J, Pettipas J, Hatchette TF, Patriquin G. (2020). A combined oropharyngeal/nares swab is a suitable alternative to nasopharyngeal swabs for the detection of SARS-CoV-2. *Journal of Clinical Virology.* 128: 104442.
Published
Refereed?: Yes
9. LeBlanc JJ, Bastien N, Li Y, Needle R, Arneson SR, Marcino D, Charest H, Desnoyers G, Dust K, Fattouh R, Garceau R, German G, Hatchette TF, Kraiden M, Kuschak T, Lang ALS, Levett P, Mazzulli T, McDonald R, Rutherford C, Smieja M, Zahariadis G, Zelyas N, Gubbay J. (2020). Real-time PCR-based SARS-CoV-2 detection in Canadian Laboratories. *Journal of Clinical Virology.* 128: 104433.
Published
Refereed?: Yes
10. Andrew MK, MacDonald S, Godin J, McElhaney JE, LeBlanc JJ, Hatchette TF, Bowie W, Katz K, McGeer A, Semret M, McNeil SA. (2020). Persistent functional decline following hospitalization with influenza or acute respiratory illness. *Journal of the American Geriatrics Society (JAGS).*
Co-Author
Refereed?: Yes
11. Andrew MK, McElhaney JE, McGeer A, Hatchette TF, LeBlanc JJ, Webster D, Bowie W, Poirier A, Nichols MK, McNeil SA. (2020). Influenza surveillance case definitions miss a substantial proportion of older adults hospitalized with laboratory-confirmed influenza: A report from the Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network. *Infection Control Hospital Epidemiology.* 9: 1-6.
Co-Author
Published
Refereed?: Yes
- [12.](#) LeBlanc JJ, Patriquin G, Pettipas J, Warhuus M, Sarty D, Jackson C, Heinsteinst C, MacDonald J, Haldane D, Hatchette TF. (2020). Look before diving into pooling of SARS-CoV-2 samples on high throughput analyzers. *medRxiv.* online: online.
First Listed Author
13. Elsherif M, Andrew MK, Ye L, Hatchette TF, LeBlanc JJ, Ambrose A, Boivin G, Brodtkin E, Katz K, Loeb M, MacKinnon-Cameron D, McCarthy A, McElhaney JE, McGeer A, Nichols MK, Trottier S, Valiquette L, McNeil SA. (2020). Interim 2019/20 influenza vaccine effectiveness estimates for preventing influenza-related hospitalizations among Canadian adults: An analysis from the Serious Outcomes Surveillance (SOS) Network of the Canadian Immunization Research Network. *EuroSurveillance.* N/A: N/A.
Co-Author
Submitted
Refereed?: Yes
14. LeBlanc JJ, ElSherif M, Ye L, et al. (2019). *Streptococcus pneumoniae* serotype 3 is masking PCV13-mediated herd immunity in Canadian adults hospitalized with community acquired pneumonia: A study from the SOS Network of the Canadian Immunization Research Network (CIRN). *Vaccine.* 37(36): 5466-5473.
First Listed Editor
Published
Refereed?: Yes

15. LeBlanc JJ, ElSherif M, Mulpuru S, et al. (2019). Validation of the Seegene RV15 multiplex PCR for the detection of influenza A subtypes and influenza B lineages during national influenza surveillance in hospitalized adults. *J Med Microbiol.* 69(2): 256-264.
Published
Refereed?: Yes
16. Nichols MK, Ye L, Andrew MK, Hatchette TF, Ambrose A, Boivin G, Bowie W, Dos Santos G, ElSherif M, Green K, Haguinet F, Katz K, LeBlanc JJ, Loeb M, MacKinnon-Cameron D, McCarthy A, McElhaney JE, McGeer A, Powis J, Richardson D, Semret M, Sharma R, Shinde V, Smyth D, Trottier S, Valiquette L, Webster D. (2019). The impact of prior season vaccination on subsequent influenza vaccine effectiveness (VE) to prevent influenza-related hospitalizations over four influenza seasons in Canada. *Clinical Infectious Diseases.* 69(6): 970-979.
Co-Author
Published
Refereed?: Yes
17. Shabi Y, Jackson C, Sarty D, Heinstein C, MacDonald J, Ng J, Mazzulli T, Hatchette TF, LeBlanc JJ. (2019). Comparison of two Health Canada approved methods for herpes simplex virus detection and differentiation on automated instruments. *Journal of Clinical Virology.* 117: 85-88.
Last Author
Published
Refereed?: Yes
18. Nichols MK, Andrew MK, Hatchette TF, Ambrose A, Boivin G, Bowie W, Chit A, Dos Santos G, ElSherif M, Green K, Haguinet F, Halperin SA, Ibarguchi B, Johnstone J, Katz K, Lagacé-Wiens P, Langley J, LeBlanc J, Loeb M, MacKinnon-Cameron D, McCarthy A, McElhaney JE, McGeer A, Poirier A, Powis J, Richardson D, Schuind A, Semret M, Shinde V, Smith S, Smyth D, Stiver G, Taylor G, Trottier S, Valiquette L, Webster, D, Ye L, McNeil, SA. (2018). Influenza vaccine effectiveness to prevent influenza-related hospitalization and serious outcomes in Canadian adults over the 2011/12 through 2013/14 influenza seasons: A pooled analysis from the CIRN SOS Network . *Vaccine.* 36(16): 2166-2175.
Co-Author
Published
Refereed?: Yes
19. Gillis HD, Demczuk WHB, ..., LeBlanc JJ. (2018). PCR-based discrimination of emerging *Streptococcus pneumoniae* serotypes 22F and 33F. *Journal of Microbiological Methods.* 144: 99-106.
Last Author
Published
Refereed?: Yes
20. Mulpuru S, Li L, Ye L, Hatchette TF, Andrew MK, Ambrose A, Boivin G, Bowie W, Chit A, Santos GD, ElSherif M, Green K, Haguinet F, Halperin SA, Ibarguchi B, Johnstone J, Katz K, Langley JM, LeBlanc JJ, Loeb M, MacKinnon-Cameron D, McCarthy A, McElhaney JE, McGeer A, Powis J, Richardson D, Semret M, Shinde V, Smyth D, Trottier S, Valiquette L, Webster D, McNeil SA. (2018). Effectiveness of influenza vaccination on hospitalizations and risk factors for severe outcomes in hospitalized patients with chronic obstructive pulmonary disease (COPD). *CHEST.* 155(1): 69-78.
Co-Author
Published
Refereed?: Yes

21. Ng C, Ye L, Noorduyn S, Hux M, Thommes E, Goeree R, Ambrose A, Andrew MK, Hatchette T, Boivin G, Bowie W, ElSherif M, Green K, Johnstone J, Katz K, Leblanc J, Loeb M, MacKinnon-Cameron D, McCarthy A, McElhaney J, McGeer A, Poirier A, Powis J, Richardson D, Semret M, Sharma R, Smith S, Smyth D, Stiver G, Trottier S, Valiquette L, Webster D, McNeil SA; on behalf of the Serious Outcomes Surveillance Network of the Canadian Immunization Research Network (CIRN) Investigators and the Toronto Invasive Bacterial Diseases Network (TIBDN) Investigators. (2018). Resource utilization and cost of influenza requiring hospitalization in Canadian adults: A study from the Serious Outcomes Surveillance Network of the Canadian Immunization Research Network. *Influenza and Other Respiratory Viruses*. 12(2): 232-240.
Co-Author
Published
Refereed?: Yes
22. Runte C, Jain U, Kuwae A, Abe A, Stadnyk A, Kaper J, Hansen A-M, LeBlanc JJ, Thomas NA. (2018). Tandem tyrosine phosphosites in the enteropathogenic *Escherichia coli* chaperone CesT are required for differential type III effector translocation and virulence. *Molecular Microbiology*. 108(5): 536-550.
Co-Author
Published
Refereed?: Yes
23. Schembri J, Gillis HD, Lang ALS, Warhuus M, Martin I, Demczuk W, ElSherif M, McNeil SA, LeBlanc JJ. (2018). Multi-target plasmid controls for conventional and real-time PCR-based serotyping of *Streptococcus pneumoniae*. *Plasmid*. 98: 45-51.
Last Author
Published
Refereed?: Yes
24. Binkhamis K, Gillis H, Lafreniere JD, Hiebert J, Mendoza L, Pettipas J, Severini A, Hatchette TF, LeBlanc JJ. (2017). Comparison of monoplex and duplex RT-PCR assays for the detection of measles virus. *Journal of Virological Methods*. 239: 58-60.
Last Author
Published
Refereed?: Yes
25. Gillis HD, Lang ALS, ElSherif M, Martin I, Hatchette TF, McNeil SA, LeBlanc JJ. (2017). Assessing the diagnostic accuracy of PCR-based detection of *Streptococcus pneumoniae* from nasopharyngeal swabs collected for viral studies in Canadian adults hospitalized with community acquired pneumonia. *BMJ Open*. 7(6): e015008.
Last Author
Published
Refereed?: Yes
26. Al Sidairi H, Binkhamis K, Jackson C, Roberts C, Heinsteinst C, Jimmy MacDonald, Needle R, Hatchette TF, LeBlanc JJ. (2017). Comparison of two automated instruments for Epstein Barr Virus (EBV) serology in a large adult hospital and implementation of an EBNA-based testing algorithm. *J. Med Microbiol*. 66(11): 1628-1634.
Last Author
Published
Refereed?: Yes
27. LeBlanc JJ, ElSherif M, Ye L, et al. (2017). Burden of vaccine-preventable pneumococcal disease in hospitalized adults: A Canadian Immunization Research Network (CIRN) Serious Outcomes Surveillance (SOS) Network study. *Vaccine*. 35(29): 3647-3654.
First Listed Author
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Refereed?: Yes

28. Andrew MK, Shinde V, Ye L, Hatchette TF, Haguinet F, Dos Santos G, McElhaney J, Ambrose A, Boivin G, Bowie W, Chit A, ElSherif M, Green K, Halperin S, Ibarguchi B, Johnstone J, Katz K, Langley J, Leblanc JJ, Loeb M, MacKinnon-Cameron D, McCarthy A, McGeer A, Powis J, Richardson D, Semret M, Stiver G, Trottier S, Valiquette L, Webster D, McNeil SA; on behalf of the Public Health Agency of Canada/Canadian Institutes of Health Research Influenza Research Network (PCIRN) Serious Outcomes Surveillance Network and the Toronto Invasive Bacterial Diseases Network (TIBDN). (2017). The importance of frailty in the assessment of influenza vaccine effectiveness against influenza-related hospitalization in elderly people. *J. Infect. Dis.* 216(4): 405-414.
Co-Author
Published
Refereed?: Yes
29. Andrew MK, Shinde V, Hatchette TF, Ambrose A, Boivin G, Bowie W, Chit A, Dos Santos G, ElSherif M, Green K, Haguinet F, Halperin SA, Ibarguchi B, Johnstone J, Katz K, Langley JM, LeBlanc J, Loeb M, MacKinnon-Cameron D, McCarthy A, McElhaney J, McGeer A, Nichols MK, Powis J, Richardson D, Semret M, Stiver G, Trottier S, Valiquette L, Webster D, Ye L, McNeil SA. (2017). Influenza vaccine effectiveness against influenza-related hospitalization during a season with mixed outbreaks of four influenza viruses: a test-negative case-control study in adults in Canada. *BMC Infectious Diseases.* 17(1): 805.
Co-Author
Published
Refereed?: Yes
30. Davey L, Cohen A, LeBlanc J, Halperin SA, Lee SF. (2016). The disulfide oxidoreductase SdbA is active in *Streptococcus gordonii* using a single C-terminal cysteine of the CXXC motif. *Molecular Microbiology.* 99(2): 236-253.
Co-Author
Published
Refereed?: Yes
31. LeBlanc JJ, Pettipas J, Gaston D, Taylor R, Hatchette TF, Booth TF, Mandes R, McDermid A, Grudeski E. (2016). Outbreak of norovirus GII.P17-GII.17 in the Canadian province of Nova Scotia. *Can. Journal of Infectious Diseases and Medical Microbiology.* 2016: 1280247-1280253.
First Listed Author
Published
Refereed?: Yes
32. LeBlanc JJ, Heinstein C, MacDonald J, et al. (2016). ANNALS EXPRESS: Pushing the limits of chemistry point-of-care testing for the management of patients under investigation for Ebola virus disease. *Annals of Clinical Biochemistry.* 53(Pt2): 288-291.
First Listed Author
Published
Refereed?: Yes
33. Lang AL, Gillis H, Elsherif M, Martin I, Hatchette TF, McNeil SA, LeBlanc JJ. (2016). Refining PCR-based surveillance of vaccine-preventable serotypes of *Streptococcus pneumoniae*. *Journal of Epidemiological Research.* 3(1): 28-36.
Last Author
Published
Refereed?: Yes
34. Tanner J, Patel P, Hellinga J, Donald L, Jimenez C, LeBlanc JJ, Brassinga AK. (2016). *Legionella pneumophila* OxyR is a redundant transcriptional regulator that contributes to expression control of the two-component CpxRA system. *J. Bacteriol.* 199(5): e00690-16.
Co-Author
Published
Refereed?: Yes

35. Zacour M, Ward BJ, Brewer A, Tang P, Boivin G, Li Y, Warhuus M, McNeil SA, LeBlanc JJ, Hatchette TF. (2016). Standardization of hemagglutination inhibition assay for influenza serology allows for high reproducibility between laboratories. *Clinical Vaccine Immunology*. 23(3): 236-242.
Co-Author
Published
Refereed?: Yes
36. Patriquin G, LeBlanc J, Heinsteinst C, Roberts C, Lindsay R, Hatchette TF. (2016). Cross reactivity between Lyme and syphilis screening assays: Lyme disease does not cause false positive syphilis screens. *Diagnostic Microbiology and Infectious Diseases*. 84(3): 184-186.
Co-Author
Published
Refereed?: Yes
37. Hatchette TF, Drews SJ, Grudeski E, Booth T, Martineau C, Dust K, Garceau R, Gubbay J, Karnauchow T, Kraiden M, Levett PN, Mazzulli T, McDonald RR, McNabb A, Mubareka S, Needle R, Petrich A, Richardson S, Rutherford C, Smieja M, Tellier R, Tipples G, LeBlanc JJ. (2015). Detection of enterovirus D68 in Canadian laboratories. *Journal of Clinical Microbiology*. 53(5): 1748-1751.
Last Author
Published
Refereed?: Yes
38. Schleihauf E, Fathima S, Pettipas J, LeBlanc JJ, Hatchette TF, Drews SJ, Haldane D. (2015). Respiratory outbreak investigations: How many specimens should be tested?. *Infection Control and Hospital Epidemiology*. 36(11): 1344-1347.
Co-Author
Published
Refereed?: Yes
39. McNeil SA, Andrew MK, Ye L, Haguinet F, Hatchette TF, ElSherif M, LeBlanc J, Ambrose A, McGeer A, McElhaney JE, Loeb M, MacKinnon-Cameron D, Sharma R, Dos Santos G, Shinde V; Investigators of the Serious Outcomes Surveillance Network of the Canadian Immunization Research Network (CIRN). (2015). (2015). Interim estimates of 2014/15 influenza vaccine effectiveness in preventing laboratory-confirmed influenza-related hospitalisation from the Serious Outcomes Surveillance Network of the Canadian Immunization Research Network. *EuroSurveillance*. 20(5): 21024.
Co-Author
Published
Refereed?: Yes
40. Lang AL, McNeil SA, Hatchette TF, Elsherif M, Martin I, LeBlanc JJ. (2015). Detection and serotypes deduction of *Streptococcus pneumoniae* directly from nasopharyngeal swabs using PCR. *Journal of Medical Microbiology*. 64(8): 836-844.
Last Author
Published

Book Chapters

1. Novel use of *Helicobacter pylori* nitroreductase (rdxA) as a counterselectable marker in allelic vector exchange to create *Legionella pneumophila* Philadelphia-1 mutants. *Legionella: state of the art 30 years after its recognition*.
Co-Author
Accepted, ASM Press, Washington DC
Refereed?: No

2. LeBlanc J. and J. Vogel. The Legionella pneumophila Type IVB Secretion System. Legionella: Pathogenesis and Immunity.
First Listed Author
Accepted, Springer ISBN-13: 978-0-387-70895-9
Refereed?: No

Working Papers

1. (J. LeBlanc, M. ElSherif, L. Ye, D. MacKinnon-Cameron, A. Ambrose, M. Warhuus, I. Martin, T. Hatchette, S. McNeil). Increasing the diagnostics yield of pneumococcal community acquired pneumonia in hospitalized adults using combinative laboratory testing.
2. (Jack Schembri, Gillis H, Lang A, McNeil SA, LeBlanc JJ). Multitarget controls for molecular serotyping of Streptococcus pneumoniae.
3. (M. ElSherif, A. Kapur, L. Ye, D. MacKinnon-Cameron, L. Li, A. Ambrose, I. Martin, T. Hatchette, S. McNeil, and J. LeBlanc). Comparison Of Two Pneumococcal Urine Antigen Detection Tests For Detection Of Community Acquired Pneumonia (CAP) In Hospitalized Adults.

Manuals

1. LeBlanc J, Desjardins M, Drews S, Petric M, Chin N, Dufresne P, Beaucher J, Clarke S, Sowden-Plunkett L, Wakefield M, Heisz M, Carrière R, Campbell J, Smida A. (2017). Certification Requirements and Core Competency Profile for a Biosafety Officer as a Specialist Microbiologist of the Canadian College of Microbiology [SCCM(BSO)].
Accepted

Conference Publications

1. LeBlanc JJ, ElSherif M, Ye L, MacKinnon-Cameron D, Ambrose A, Hatchette TF, Lang ALS, Gillis HD, Martin I, Demczuk WHB, Laferriere C, Andrew MK, Boivin G, Bowie W, Green K, Johnstone J, Loeb M, McCarthy AE, McGeer A, Semret M, Trottier S, Valiquette L, Webster D, McNeil SA. (2020). Testing biases underestimate pneumococcal community acquired pneumonia in active surveillance. Association of Medical Microbiology and Infectious Diseases Canada (AMMI)/Canadian Association for Clinical Microbiology and Infectious Diseases (CACMID)
Abstract
First Listed Author
Accepted
2. LeBlanc JJ, ElSherif M, Ye L, MacKinnon-Cameron D, Ambrose A, Hatchette TF, Lang ALS, Gillis HD, Martin I, Demczuk WHB, Laferriere C, Andrew MK, Boivin G, Bowie W, Green K, Johnstone J, Loeb M, McCarthy AE, McGeer A, Semret M, Trottier S, Valiquette L, Webster D, McNeil SA. (2020). Comparison between Canadian adults 50+ and 65+ years hospitalized with pneumococcal community acquired pneumonia. International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD)
Abstract
First Listed Author
Accepted

3. LeBlanc JJ, ElSherif M, Ye L, MacKinnon-Cameron D, Ambrose A, Hatchette TF, Lang ALS, Gillis HD, Martin I, Demczuk WHB, Laferriere C, Andrew MK, Boivin G, Bowie W, Green K, Johnstone J, Loeb M, McCarthy AE, McGeer A, Semret M, Trottier S, Valiquette L, Webster D, McNeil SA. (2020). A novel serotype-specific urine antigen method enhances detection of non-bacteremic pneumococcal community acquired pneumonia attributed to PPV23 serotypes in hospitalized Canadian adults. International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD)
Abstract
First Listed Editor
Accepted
4. LeBlanc JJ, ElSherif M, Ye L, MacKinnon-Cameron D, Ambrose A, Hatchette TF, Lang ALS, Gillis HD, Martin I, Demczuk WHB, Laferriere C, Andrew MK, Boivin G, Bowie W, Green K, Johnstone J, Loeb M, McCarthy AE, McGeer A, Semret M, Trottier S, Valiquette L, Webster D, McNeil SA. (2020). Effectiveness of PPV23 pneumococcal vaccine against pneumococcal community acquired pneumonia in hospitalization Canadian adults. International Symposium on Pneumococci and Pneumococcal Diseases (ISPPD)
Abstract
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