

INTRODUCTION OF NEW FELLOWS

September 18, 2020



Canadian Academy of Health Sciences
Académie canadienne des sciences de la santé

INTRODUCTION DES NOUVEAUX FELLOWS

Le 18 septembre 2020

Annmarie Adams
Professor, McGill University



Annmarie Adams has pioneered interdisciplinary methodologies for assessing healthcare design, an increasingly relevant field as Canada's hospitals age. Trained as an architect and architectural historian, her award-winning publications, exhibitions, teaching, and activism illuminate the complex relationship of health and the built environment, and have situated Canadian hospitals at the forefront of international, architectural discourse. Her impact in medicine has been recognized by the architectural profession as "a model of professional outreach."

Hélène Boisjoly
Doyenne, Faculté de médecine, Université de Montréal



Première ophtalmologiste à devenir chercheure-boursière puis chercheure nationale du Fonds de recherche en santé du Québec, première directrice du Réseau provincial de recherche en santé de la vision, la docteure Hélène Boisjoly est également la première femme doyenne d'une faculté de médecine au Québec. Elle a marqué sa discipline en transplantation cornéenne et en développement de traitements de l'herpès oculaire. Chercheure de notoriété internationale en ophtalmologie, elle est aussi chef de file en médecine universitaire reconnue notamment pour ses initiatives inter sectorielles et inter professionnelles de même que ses contributions à la philanthropie et aux échanges internationaux en santé mondiale.

Lori Brotto

Professor, Department of Obstetrics & Gynaecology, University of British Columbia



Dr. Lori Brotto is internationally recognized as a leader in sexual health research. She has led teams to develop and establish effective psychological interventions to improve sexual dysfunction and genital pain, which collectively affect up to a third of women. Her work has influenced practice around the world, with mindfulness being implemented in sexual medicine centres and in international guidelines. In recognition of her contributions to the field, she is a Canada Research Chair in women's sexual health and received the Researcher of the Year (2017) award from the Society for Obstetricians and Gynaecologists Canada.

Yves Brun

Professeur et Chaire de recherche du Canada 150 en biologie cellulaire bactérienne, Université de Montréal



Professor at the Université de Montréal and Canada 150 Research Chair in Bacterial Cell Biology, Dr. Yves Brun is a world leader in microbiology. His transformative development of cell biology methods has greatly improved the study of many basic processes in bacteria and their evolution such as growth and division, differentiation, and biofilm formation. His methods to study the synthesis of the bacterial cell wall have revolutionized an area of critical importance for the development of antibiotics. His methods to visualise adhesive pili are transforming the study of biofilm formation, reservoirs of infectious agents that are difficult to eradicate.

2020 New Fellows

Stirling Bryan
President, BC Academic Health Science Network



Dr. Bryan's international reputation is in health economics, health technology assessment and health services and policy research. He was a Harkness Fellow in 2005 at Stanford University, has a career total of over 250 peer-reviewed articles, has won over \$45M in research funding during his 12 years in Canada, and currently chairs the Advisory Board for CIHR's Institute for Health Services & Policy Research. Dr. Bryan is an experienced and accomplished health research leader, having held numerous leadership roles throughout his career, culminating in his appointment in January 2020 as President of the BC Academic Health Science Network.

Gregory Cairncross
Director, Charbonneau Cancer Institute and Professor, Clinical Neurosciences and Oncology, University of Calgary



Dr. Cairncross discovered a chemosensitive brain cancer and led the international clinical trial that established the role of chemotherapy in the treatment of oligodendrogliomas. He also co-discovered with David Louis (Boston) a molecular marker that is used worldwide to diagnose oligodendrogliomas and guide the treatment of patients with this disease. He is a pioneer and champion of precision medicine in the brain cancer field, striving to improve patient care through genomic analysis of cancer. He continues to lead a wet lab research program at the Cumming School of Medicine and Directs the Charbonneau Cancer Institute at the University of Calgary.

Hélène Carabin

Professeur titulaire, Faculté de médecine vétérinaire, Université de Montréal



Dr. Hélène Carabin is an infectious disease epidemiologist, professor at the Faculty of Veterinary Medicine and The School Of Public Health, Université de Montréal. She holds the CRC in Epidemiology and One Health. She is a pioneer in using innovative epidemiological and biostatistical methods to better determine how the interface among animals, environment and humans result in zoonotic infections which are of increasing clinical and public health importance in Canada and globally. Her research team's rigorous epidemiological approaches has led to the addition of cysticercosis and cystic echinococcosis to the global burden of disease initiative.

R. Nicholas Carleton

Professor of Psychology, University of Regina



Dr. R. Nicholas Carleton is a Professor of Psychology at the University of Regina and the founding Scientific Director of the Canadian Institute for Public Safety Research and Treatment. His work has impacted mental health outcomes, practices, and policies in Canada and internationally through the development and integration of systems for Public Safety Personnel mental health research, assessment, and treatment. His efforts have galvanized Public Safety Personnel research, setting the stage to tangibly improve mental health for all Canadians. Carleton maintains a small private practice for military and public safety personnel who have anxiety-related disorders, particularly posttraumatic stress disorder.

David Chitayat

Head, The Prenatal Diagnosis and Medical Genetics Program, Department of Obstetrics and Gynecology, Mount Sinai Hospital, University of Toronto



Dr. Chitayat is a Professor of Paediatrics, Obstetrics & Gynecology, Laboratory Medicine and Pathobiology and Molecular Genetics, the head of the Prenatal Diagnosis and Medical Genetics Program at Mount Sinai Hospital, the Medical Director of the MSc Program in Genetic Counseling at the University of Toronto and a staff at the Division of Clinical and Metabolic Genetics at HSC. He has received many awards in recognition of his significant contributions and has published over 15 book chapters and over 400 peer reviewed papers in the field of Medical Genetics. His research interests include Prenatal Diagnosis, Urogenital abnormalities, Cardiac Genetics and Neurogenetics.

Patricia J. Conrod

Professor of Psychiatry, Université de Montréal



Dr. Patricia Conrod, Clinical Psychologist and Professor of Psychiatry at Université de Montréal, holds a Tier 1 Canada Research Chair in Preventative Mental Health and Addiction. Dr. Conrod co-leads the Quebec Research Network on Suicide, Mood Disorders and Related Conditions (RQSHA) and the Canadian Cannabis and Psychosis Research Team (CCPRT). She developed a targeted drug and alcohol prevention program which was evaluated in multiple international trials and is now recognised as an evidence-based program in the U.S. Surgeon General's Report on Addiction, and the UNODC's International Guidelines on Drug Prevention. She published over 200 peer-reviewed articles and is cited over 16,000 times in the scientific literature. Her publications are also widely covered in the media, including the New York Times, Wall St Journal, Financial Times, CNN, CBC, BBC.

Janet Dancey

Director, Canadian Cancer Trials Group (CCTG) and Scientific Director Canadian Cancer Clinical Trials Network, Edith and Carla Eisenhauer Chair in Clinical Cancer Research, Ontario Institute for Cancer Research, Clinician Scientist, Queen's University



Dr. Janet Dancey is an international leader in novel trials of targeted cancer therapies with associated biomarkers, and for rare cancers patients. As Director of the Canadian Cancer Trials Group (CCTG), Canada's largest cancer trial network, she advanced its research strategy and expanded its portfolio of trials evaluating targeted agents, immunotherapy and application of genomics. She has championed expanding the roles of patients in setting research priorities and activities. Dr. Dancey has expertise in drug and biomarker development, and trials methodology. A prolific author with an excellent citation record, she is a sought-after speaker, both nationally and internationally.

Philip James Devereaux

Director, Division of Perioperative Care, McMaster University



Philip James (P.J.) Devereaux is the pre-eminent scientist who has developed the area of modern perioperative care. He established the first international research group involving >30 countries, and led many large trials and observational studies that have resulted in novel discoveries, which has improved care globally. Devereaux established the first Division of Perioperative Care at McMaster University, which uses reliable evidence from rigorous research, an innovative clinical fellowship training program, and a new clinical service model which systematizes care before, during, and after surgery to improve perioperative care. P.J. is an international leader in this emerging multidisciplinary field.

James D. Douketis

Professor of Medicine, McMaster University



Dr. James Douketis is Staff Physician in General Internal Medicine and Clinical Thromboembolism at St. Joseph's Healthcare Hamilton, and Professor of Medicine at McMaster University. He received his M.D. and did his residency in internal medicine at the University of Toronto followed by a thrombosis fellowship at McMaster University. Dr. Douketis' research interests include: perioperative anticoagulant and antiplatelet management and guideline development (2008, 2012, 2019 [in preparation] ACCP Guidelines); and prevention, treatment and prognosis of patients with venous thromboembolism. Dr.

Douketis is President of Thrombosis Canada, Editor-in-Chief of the

Canadian Journal of General Internal Medicine, Deputy Editor of Annals of Internal Medicine ACP Journal Club, Associate Editor of the Journal of Thrombosis and Haemostasis and Internal and Emergency Medicine, and has over 335 peer-reviewed publications.

Jacques Drouin

Directeur, Laboratoire de génétique moléculaire, Institut de recherches cliniques de Montréal (IRCM)



Jacques Drouin est directeur du Laboratoire de génétique moléculaire à l'Institut de recherches cliniques de Montréal. Il est membre de la Société royale du Canada et il a reçu un diplôme Honoris Causa de l'Université d'Aix-Marseille. Ses contributions portent sur les bases moléculaires de la fonction, du développement et des pathologies de l'hypophyse. Il a découvert des facteurs de transcription qui contrôlent la différenciation cellulaire et l'organogenèse de l'hypophyse, et a montré leur implication dans les déficiences hormonales chez l'homme. Il a aussi identifié des mécanismes de rétroaction des glucocorticoïdes et leurs implications dans la résistance hormonale des adénomes qui causent la maladie de Cushing. Il a identifié un facteur pionnier qui remodèle l'épigénome pour la spécification du destin cellulaire.

Chantale Dumoulin
Professor, School of Rehabilitation, Université de Montréal



Chantale Dumoulin is Canada's leading expert in women's urogynecological health and aging and one of top three internationally-recognized researchers in her field. She aims to improve women's urinary continence by increasing our knowledge of pathophysiology, developing cost-effective interventions and providing capacity-building for clinicians. She is Professor, founder and Director of the post-graduate pelvic floor rehabilitation program at the School of Rehabilitation, Université de Montréal, and holds the Canadian Research Chair in Urogynecological Health and Aging. A prolific researcher, Cochrane review author/editor and International Clinical practice guidelines chair, she contributes to providing Canadian women with affordable, targeted and effective first-line interventions.

Allison Eddy
Professor & Head, Department of Pediatrics, University of British Columbia,
Chief Pediatric Medicine, BC Children's and Women's Hospital



Dr. Allison Eddy is Professor & Head of Pediatrics, University of British Columbia and Chief, Pediatric Medicine, BC Children's & Women's Hospital. She has held prior faculty positions at U. Toronto (12 years) and U. Washington (15 years), also serving as the Director of a NIH-funded Child Health Research Center (UW) and the inaugural Director of the Tissue and Cell Sciences Research Center at Seattle Children's Research Institute. Dr. Eddy is internationally recognized for her basic research discoveries on the cellular and molecular mechanisms of kidney fibrosis and for training the next generation of academic pediatricians and kidney specialists.

Justin Ezekowitz

Professor of Medicine, Cardiologist, University of Alberta



Dr. Ezekowitz has demonstrated a clear passion and commitment to advance academic health sciences. His research and clinical focus is on the care of patients with heart failure (a major cause of morbidity and mortality in North America). He is internationally recognized for conducting high quality clinical research on heart failure involving interdisciplinary research teams that include the full spectrum of scientists from discovery-based through population health-based researchers. He works closely with NGOs, specialty societies, and health systems in Alberta, in Canada, and elsewhere to optimize the care and outcomes for heart failure patients in Canada and internationally.

Dean A. Fergusson

Senior Scientist and Full Professor, Ottawa Hospital Research Institute



Dr. Dean Fergusson is an established international leader in evidence-based transfusion medicine and clinical trial methods. Throughout his career, he has received over \$160 million in peer-reviewed research grants (including 134 CIHR grants), over \$39 million as a principal investigator (including 35 CIHR grants), and major salary awards from CIHR and the Province of Ontario. He is one of the most cited and impactful researchers, having published over 500 peer-reviewed journal articles, many in high impact journals. His current H-index is 94 and his global citation numbers rank in the top 1% in both transfusion medicine and epidemiology.

Marcia Finlayson

Vice Dean (Health Sciences) and Professor and Director, School of Rehabilitation Therapy, Queen's University



Dr. Marcia Finlayson is an occupational therapist and internationally recognized multiple sclerosis rehabilitation researcher. The overarching goal of her work is to improve care and quality of life outcomes for people with multiple sclerosis (MS), particularly as they age. Through the use of mixed methods, interdisciplinary collaboration, and engagement with national and international MS organizations, she has drawn attention to the day-to-day impact of living with MS and identified effective strategies that enable people affected by this disease to exert choice and control over their everyday lives.

Marilyn Ford-Gilboe

Distinguished University Professor and Women's Health Research Chair in Rural Health, Arthur Labatt Family School of Nursing, Western University



Marilyn Ford-Gilboe is a Professor and Women's Health Research Chair in Rural Health, in the Arthur Labatt Family School of Nursing, Western University. Canadian leader in the areas of women's health, violence, health equity and place, her research has contributed foundational knowledge about the health consequences of violence and effective health interventions for women experiencing intimate partner violence, including rural-dwelling women and people those who face significant barriers to care. This work is strengthening health care and social service responses to violence, trauma and inequity. Her research is advancing the measurement of intimate partner violence, with implications for global policy.

Amit Garg

Professor, Medicine, Epidemiology & Biostatistics, Western University



Dr. Amit X. Garg, Professor of Medicine (Nephrology), and Epidemiology and Biostatistics, has made many meaningful contributions to advancing academic health sciences over the last 18 years. He provides care and conducts research to improve health outcomes for patients with kidney disease including those receiving dialysis or a kidney transplant. His innovative research has had demonstrable impacts in areas ranging from advancing the safety and practice of living kidney donation, to improving the safety of prescription drugs in patients with kidney disease, to the prevention of peri-operative kidney injury and kidney health informatics.

Serge Gauthier

Director, Alzheimer Disease Research Unit, McGill University Research Centre for Studies in Aging



Dr. Serge Gauthier is the leading clinical trialist in the field of Alzheimer disease and related disorders in Canada. He has created and led the academic network C5R which has increased the role of Canada on the world stage for clinical trials in Alzheimer's disease. He has played a key part in the Canadian Consensus Conferences on the Diagnosis and Treatment of Dementia, which have guided provincial governments and clinicians over the past thirty years in the management of persons with dementia or have a higher risk towards it.

Dafna Gladman

Senior Scientist, Krembil Research Institute, Toronto Western Hospital



Dr. Dafna Gladman, Professor of Medicine, University of Toronto and Senior Scientist, Krembil Research Institute, has changed the way rheumatologists manage psoriatic arthritis (PsA). She found that PsA is more common and more severe than previously thought. She has identified factors that lead to the development of PsA among patients with psoriasis, and factors that are associated with more severe PsA. She also alerted the medical community to the fact that PsA was associated with important comorbidities including coronary artery disease, diabetes, obesity and depression. She has also led a number of clinical trials of new medications for PsA.

Michael Grant

Professor of Immunology, Associate Dean, BioMedical Sciences, Faculty of Medicine, Memorial University of Newfoundland



Michael Grant started his career as the only biomedical scientist in Atlantic Canada studying HIV. His innovative interdisciplinary work significantly influenced our understanding of immunology and infectious disease and helped put Canadian HIV research on the map. His exemplary leadership record is highlighted by election to president, Canadian Association for HIV Research, member, Ministerial Council on HIV/AIDS, chair, CIHR HIV/AIDS Research Advisory Committee, chair, CIHR Virology and Viral Pathogenesis Review panel and chair, Canadian Foundation for AIDS Research Scientific Advisory Committee. In 2018, Dr. Grant received the Hardy Cinader award, the highest honour bestowed by the Canadian Society for Immunology.

Chantal Guillemette

Professeure titulaire, Faculté de pharmacie, Université Laval



Professor at Université Laval, Canada Research Chair in Pharmacogenomics and co-director of the Cancer Research Center, Dr. Chantal Guillemette is a world leader in the field of drug and steroid metabolism and cancer pharmacogenomics with impressive research accomplishments. She has contributed to high-quality and clinically impactful research by leading an innovative program in close partnership with clinicians and with an exemplary record of training and mentoring successful research trainees. Her work has provided a deeper understanding of the molecular basis of variable therapeutic drug response and cancer progression, and contributed to the development of non-invasive prognostic and treatment decision tools.

Markus Haapasalo

Professor, Faculty of Dentistry, University of British Columbia



Dr. Haapasalo is Professor of Endodontics at UBC and a clinical endodontist who has focused his research on agents for disinfecting dental root canals and oral biofilm. He has authored two textbooks, eight book chapters, over 230 peer-reviewed articles, and supervised many graduate students. He is former editor-in-chief of Endodontic Topics, a former associate editor of the Journal of Endodontics, and serves on the editorial boards of dentistry's highest-ranking scholarly journals. Dr. Haapasalo received numerous research and teaching awards, including in 2019 the most prestigious endodontic AAE Louis I Grossman Award for extraordinary research contributions to his discipline.

Benedikt Hallgrímsson
Professor, University of Calgary



Benedikt Hallgrímsson is an international leader in the study of birth defects and the developmental genetics of anatomical variation. He was awarded the Rohlf Medal for orphometrics in 2015 and elected AAAS Fellow in 2019 for integrating imaging and morphometrics with developmental biology. Funded by CIHR, NSERC and NIH, his 160 publications have over 9000 citations. Hallgrímsson has held leadership roles at the University of Calgary where he led creation of the Bachelor of Health Sciences and co-led the successful proposal to create a Faculty of Veterinary Medicine. He is currently Scientific Director for the Alberta Children's Hospital Research Institute.

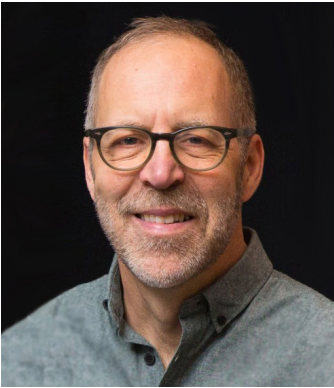
Marie-Josée Hébert
Vice-rectrice à la recherche, à la découverte, à la création et à l'innovation;
Professeure titulaire, Département de médecine, Faculté de médecine; Titulaire de la Chaire Shire en néphrologie et en transplantation et régénération rénales, Université de Montréal; Chercheuse, CRCHUM



Marie-Josée Hébert est une néphrologue transplanteuse dont la recherche translationnelle a renouvelé les concepts, fondamentaux et cliniques, de l'insuffisance rénale progressive et du rejet de greffe. Ayant découvert et caractérisé des autoanticorps et des structures subcellulaires à l'œuvre dans la réponse immunitaire, elle a créé des outils diagnostiques et établi de nouvelles cibles d'intervention pour prévenir le rejet et la dysfonction rénale chez les personnes transplantées. Elle a conduit plusieurs initiatives interdisciplinaires et collaboratives, notamment comme cofondatrice et codirectrice du Programme de recherche en don et transplantation du Canada, et vice-rectrice à la recherche de l'Université de Montréal.

David Hodgins

Professor, Departments of Pathology and Lab Medicine and Obstetrics and Gynaecology, University of Calgary



Dr. Hodgins is a world-leading scientist in the field of addiction studies. His creative work has profoundly changed the way in which scholars, practitioners, and policy makers understand both the etiology of disordered gambling, its comorbidity with other disorders, and its natural course, treatment and recovery. Through creativity and outstanding leadership, Dr. Hodgins has advanced the science and practice of clinical psychology in gambling and other addictions. Dr. Hodgins' brief treatment and relapse prevention interventions have influenced mental health services around the globe. A leader of several collaborative international initiatives, he has set directions for treatment of gambling disorder.

David Huntsman

Professor, University of British Columbia



Dr. Huntsman is a pathologist and clinical molecular geneticist. Through a combination of genetic and pathology approaches, Dr. Huntsman has redefined our understanding of ovarian and several rare cancers, including hereditary stomach cancer, leading to significant improvements in management. He proposed, developed, and promulgated the subtype-specific approach to ovarian cancer research, prevention, and treatment that is now the international standard. He discovered the key mutations in several ovarian cancer subtypes. His research has been published in prestigious journals, is highly cited, and is the basis of clinical innovations used in Canada and internationally.

Lois A. Jackson

Professor of Health Promotion, School of Health and Human Performance,
Dalhousie University



Dr. Lois A. Jackson, Professor of Health Promotion, is internationally recognized for her community based, collaborative research with marginalized populations. Dr. Jackson's highly productive program of research identifies how social inequities impact access to health services, and her work draws attention to inequities across urban and rural places. She is a leader in population health research providing a voice for communities living socially and economically on the margins of society. Her research informs programs and policies, and has significantly advanced community-engaged scholarship. She is the recipient of several career awards and has an extensive track record of volunteer service.

Marina Klein

Professor of Medicine, McGill University



Dr. Klein is a senior Clinician Scientist and Research Director of the McGill University Health Centre Chronic Viral Illness Service and holds a Tier 1 Canada Research Chair. She is an internationally recognized leader in the fields of HIV and hepatitis C virus (HCV), observational research and clinical trials. She has promoted treatment access for viral hepatitis globally as governing council member of the International AIDS Society. She leads a highly successful interdisciplinary research program aimed at evaluating and implementing interventions to improve health outcomes for HIV-HCV coinfecting persons and influencing policy to increase access to care for vulnerable populations.

Felicia Marie Knaul

Director, Institute for Advanced Study of the Americas and Professor, Miller School of Medicine, University of Miami; Founding President Tómatelo A Pecho, AC México



Felicia Marie Knaul dedicates her research and advocacy to reducing inequities and strengthening health systems to improve the well-being of vulnerable populations. Combining health systems science and economics, she has made policy contributions and pioneered research in women's and children's health, global cancer, palliative care and pain relief, and health financing. She founded Tómatelo a Pecho, a Mexican NGO dedicated to improving women's health and transformed her breast cancer experience into evidence-based innovations for low-income populations. She directs the University of Miami Institute for Advanced Study of the Americas and is a Professor of the Miller School of Medicine.

Jaspinder Komal

Vice-President, Science Branch, Canadian Food Inspection Agency and Chief Veterinary Officer and OIE Delegate for Canada



Jaspinder Komal has a long, distinguished record in public service related to veterinary public health, agricultural science and policy. His detailed knowledge of Canada's agriculture and food production systems has advanced policies to ensure safe, sustainable food production for Canadians and foster economic viability. His passion to strengthen and collaborate with Canadian veterinary colleges has led to better training of students and sharing of public research facilities. As Canada's chief veterinary officer and World Organisation for Animal Health delegate, he has represented Canada with distinction through positive leadership and enhanced the reputation of Canada's animal health sector worldwide.

Marlys Koschinsky
Professor of Physiology & Pharmacology, Western University



Marlys L. Koschinsky, PhD, is the Scientific and Executive Director for Robarts Research Institute, Professor in the Department of Physiology & Pharmacology, and member of the Senior Leadership team of the Schulich School of Medicine & Dentistry, Western University. Koschinsky's research is in the broad areas of atherosclerosis and thrombosis and focuses on the understanding of mechanisms of action of emerging risk factors for cardiovascular disease. She is an internationally recognized expert in the study of the cardiovascular risk factor lipoprotein(a), and is a well-respected opinion leader in the area of lipoproteins and cardiovascular disease.

Raymond W. Lam
Professor and BC Leadership Chair in Depression Research, Faculty of Medicine,
Department of Psychiatry, University of British Columbia



Dr. Lam is Professor and BC Leadership Chair in Depression Research at the University of British Columbia. He is internationally recognized for his clinical research in depression and its treatments. His studies pioneered light therapy as an evidenced-based, non-pharmacological treatment for seasonal and nonseasonal depression. He led development of Canadian Network for Mood and Anxiety Treatments (CANMAT) guidelines for depression that are widely used internationally, and global mental health initiatives through the Asia-Pacific Economic Cooperation (APEC), focusing on digital and mobile health technology solutions. He is a highly cited scientist and has published almost 400 peer-reviewed papers and 11 books.

Harriet MacMillan
Distinguished University Professor, McMaster University



Dr. Harriet MacMillan is a pediatrician, psychiatrist, and scientist whose research has transformed how family violence, including child maltreatment and intimate partner violence, is understood, responded to, and prevented. Her pioneering work has led to a better understanding of the impact of exposure to violence, and its link to mental health outcomes. She has influenced national and international guidelines and led the development and evaluation of prevention and intervention efforts. Dr. MacMillan has furthered our knowledge of the individual and societal impacts of child maltreatment and intimate partner violence and has worked tirelessly to improve the lives of our most vulnerable citizens.

Ashok Malla
Professor, Department of Psychiatry, McGill University



Ashok Malla is a Professor of Psychiatry, McGill University and a Tier-1 Canada Research Chair in Early Psychosis and Early Intervention in Youth Mental Health. He is an international leader in research in schizophrenia and other psychoses and early intervention. He has made enormous contributions to our understanding of and interventions in improving outcome in serious mental disorders, especially at onset in youth. His work has had substantial impact nationally and internationally on health policies on early intervention in psychoses and service transformation in youth mental health. Currently he leads a \$25M national project on youth mental health, ACCESS Open-Minds.

Deborah Marshall

Professor and Arthur J.E. Child Chair in Rheumatology Research, University of Calgary



Dr. Marshall is a champion for health technology assessment - a systematic rigorous approach to evidence-informed policy development. Her research includes simulation modelling at the individual patient level considering care pathways, patient preferences and resources required to deliver health services in the context of precision health. She has advanced the methods beyond traditional methodologies by engaging patients as partners in research and eliciting preferences to ensure that patient and provider voices are included resulting in evidence-informed patient-centered health care decisions. Her 210 publications have been cited >11,000 times (H-index: 40) and she has presented 385 invited addresses nationally and internationally.

Richard Massé

Conseiller médical stratégique, Ministère de la santé et des services sociaux



Dr Richard Massé a exercé un leadership au niveau gouvernemental et académique. Il a occupé des postes de directeur de santé publique à Montréal, de sous-ministre adjoint et de Directeur national de la santé publique au Ministère de la santé et des services sociaux du Québec et de PDG de l'Institut national de santé publique du Québec. Il a été le premier directeur de l'École de santé publique de l'Université de Montréal. Il agit comme expert au Canada et à l'international. En 2018, il recevait le Prix R. D. Defries, la plus haute distinction de l'Association Canadienne de Santé publique.

Katherine S. McGilton

Senior Scientist, KITE - Toronto Rehabilitation Institute, UHN



Katherine McGilton is a Senior Scientist at Toronto Rehabilitation Institute and is recognized internationally as a leader in the field of aging. Her research focuses on developing solutions for improving care and access to rehabilitation for older adults with cognitive impairment and increasing the effectiveness of nurse supervisors in nursing homes. She does this by working in an integrated model with practitioners, administrators and policy decision makers. She is the founder of the International Consortium of the Professional Practice of Nurses in Long-Term Care, where leaders collaborate to improve care outcomes for residents and practice conditions for staff.

Derek M. McKay

Professor, Department of Physiology & Pharmacology, University of Calgary



Dr. McKay's research, conducted in relevant model systems, is revealing novel aspects of host-bacteria-parasitic helminth interaction that may translate to new treatment for infectious and inflammatory diseases of the gut. A past President of the Canadian Association of Gastroenterology, he has >170 publications and frequently delivers invited presentations at scientific conferences and to the public. The significance of his contributions to health-science research, commitment to mentoring (capacity building), and leadership have been recognized with a number of national and international awards. His volunteer activities highlight the burden of digestive disease and the need for investment in discovery and translational research.

Luanne Metz

Professor, Department of Clinical Neurosciences, University of Calgary



Dr. Luanne Metz is a Professor, Neurologist and was Head of the Division of Neurology at the University of Calgary until 2019. She has led the internationally recognized Calgary Multiple Sclerosis (MS) Clinic with innovative research, treatment and care. She has raised the standards of medical care for MS patients in Calgary, Alberta and nationally. Her pioneering of many clinical activities including leading a successful Phase III trial of minocycline in early MS published in the New England Journal of Medicine has provided the MS field worldwide with many novel insights and advances in treating the disorder.

Wilson H. Miller Jr.

Medical Oncologist, Jewish General Hospital



Dr. Miller holds the Distinguished James McGill Professorship in Oncology and is Deputy Director of the Segal Cancer Centre, where he directs early phase clinical trials. These have led to his numerous high impact publications, especially in the transformational new area of immune-oncology. Dr. Miller serves as the Clinical Lead of the Rossy Cancer Network, a collaborative effort of the McGill University hospitals to improve cancer care. Dr. Miller is a passionate scientist, leading also a CIHR-funded basic research team, which uncovers novel mechanisms of response and resistance to therapies used in the clinic.

Jeffrey S. Mogil

E.P. Taylor Professor of Pain Studies, McGill University



Dr. Mogil has made seminal contributions to the field of pain research, founding the significant new subfield of pain genetics. His demonstrations of the effect of strain, sex, social factors, and laboratory environmental variables on pain behaviour in animals have improved the design and interpretation of biomedical experiments worldwide and led to changes in research policy. His discovery of empathy in rodents, facial expressions of pain in laboratory animals, and successful mouse-to-human translational findings have implications not only for analgesic drug development, but also for evolutionary theory, ethics and veterinary care.

Xavier Montalban

Chair, Department of Neurology-Neuroimmunology and Director, Multiple Sclerosis Center of Catalonia (Cemcat), Vall d'Hebron University Hospital



Prof. Montalban has been the Director of the Neurology Division, University of Toronto. He is Chair of Neurology and Director of Cemcat at Vall d'Hebron University Hospital in Barcelona. He is an internationally renowned neurologist whose work led to significant advances for understanding the mechanisms associated with a devastating neurological disease, such as Multiple Sclerosis. His ground-breaking work led to great scientific discoveries, helping to define important clinical features that impact significantly on the health and quality-of-life of patients. Prof. Montalban's commitment for excellence is contributing to promoting Canadian research. He has received numerous invitations to deliver lectures at national and international meetings and to lead prestigious professional societies. He was named among the most Highly Cited Researchers.

Karen Mossman

Vice President - Research and Professor, McMaster University



Dr. Karen Mossman's research focuses on molecular virology and cancer immunotherapy, spanning basic science to translational investigations. She is passionate about service to science, and has gained extensive experience and accolades in both administration and research, serving as Associate Vice President Research while leading a robust lab group that produced over 80 successful trainees. She has garnered numerous awards and invitations to speak at conferences and institutions globally and to serve on international grant panels, while committed to engaging the public on the translation of research. As a model for women in STEM, she is dedicated to building a stronger science community.

Heyu Ni

Professor, Senior Scientist, and Platform Director, Canadian Blood Services Centre for Innovation at the station of St. Michael's Hospital, University of Toronto



Dr. Heyu Ni is a Platform Director at Unity Health Toronto - St. Michael's Hospital, Professor at the University of Toronto, and Senior Scientist of Canadian Blood Services Centre for Innovation. Dr. Ni has discovered and redefined the fundamental mechanisms underlying thrombosis and hemostasis, which are critical for heart attack, stroke and bleeding disorders. He developed the first intravital microscopy thrombosis model and was the first to discover fibrinogen/VWF-independent thrombosis, leading to a paradigm shift in the field. He has also established several autoimmune/alloimmune thrombocytopenia (bleeding disorders) and tumor metastasis models, and developed new diagnostics/therapies to control these life-threatening diseases.

Colleen M. Norris

Professor, Scientific Director, Cardiovascular Health and Stroke Strategic Clinical Network, Faculty of Nursing, University of Alberta



Dr. Colleen Norris, Professor and Clinician Scientist, Faculties of Nursing, Medicine & Dentistry, and School of Public Health, University of Alberta, is Scientific Director, Cardiovascular Health and Stroke Strategic Clinical Network; Fellow, American Heart Association; and Chair, Canadian Women's Heart Health Alliance, Health Policy and Services Working Group. Dr. Norris is internationally recognized for her leadership in developing and disseminating evidence informed strategies to transform clinical practice and impact public policy related to women's heart health. She established the methodology to incorporate sex and gender information into the Canadian Cardiovascular Society's Clinical Practice Guidelines.

Grace Parraga

Professor, Department of Medical Biophysics, Western University



Dr. Grace Parraga's research has deepened our understanding of inflammatory airways disease including asthma and COPD, which are recognized as among the costliest and most common diseases in the world, affecting millions. Her lab's pioneering patient-based pulmonary research has led to the understanding that currently used clinical measurements are insensitive to early and mild airways disease and their response to treatment. Her foundational studies have also demonstrated that genetics and environment determine airway tree branching that plays a role in asthma. This has important implications for the tens of millions of children and adults with asthma worldwide.

Scott B. Patten

Professor, Department of Psychiatry, University of Calgary



Dr. Patten is a psychiatrist and epidemiologist. His research applies population-based approaches to questions related to mental health, including the prevalence of mental disorders, associated risk and prognostic factors and patterns of mortality. He has led studies of medical-psychiatric comorbidity and mental health stigma in Canada. His over 800 publications have been cited over 50,000 times (HIndex: 72). He is recognized as one of the world-class researchers selected for their exceptional research performance, demonstrated by production of multiple highly cited papers that rank in the top 1% by citations for field and year in Web of Science by Clarivate Analytics.

Bernadette Pauly

Professor, School of Nursing, University of Victoria and Scientist, Canadian Institute of Substance Use Research



Dr. Bernie Pauly is a Professor in the University of Victoria's School of Nursing, Associate Director and Scientist of the Canadian Institute for Substance Use Research, and the Island Health Scholar in Residence. A highly engaged community-based researcher, Dr. Pauly is a global leader in substance use, harm reduction and the promotion of health equity for people who use substances at the intersection of poverty and homelessness. She is especially skilled in strategies for engaging and working with people with lived experience and in promoting the adoption of cultural safety and harm reduction as approaches for reducing stigma and harms of substance use.

Stuart Peacock

Professor and Leslie Diamond Chair in Cancer Survivorship, Simon Fraser University



Stuart Peacock holds the Leslie Diamond Chair in Cancer Survivorship in the Faculty of Health Sciences at Simon Fraser University. He is Co-Director of the Canadian Centre for Applied Research in Cancer Control, and Head of the Department of Cancer Control Research at BC Cancer. He has over 200 publications, including papers in the BMJ, Journal of the American Medical Association, and Lancet Oncology. He has shaped healthcare priority setting in Canada, serves as a Board Director of the Canadian Agency for Drugs and Technologies in Health, and is an international advisor on cancer control strategies and priority setting.

Eric Racine

Professeur titulaire de recherche et Directeur d'unité de recherche, Institut de recherches cliniques de Montréal (IRCM)



Dr. Eric Racine is Research Professor at the Institut de recherches cliniques de Montréal (IRCM) and Université de Montréal and also Adjunct Professor at McGill University. He is Director of the Pragmatic Health Ethics Research Unit. Dr. Racine is internationally known for his contributions to the development of novel ethics approaches in health care. He is a member of the Board of the FRQ-S, the CIHR Standing Committee on Ethics, and the International Neuroethics Society. He is the author of more than 175 peer reviewed papers and several books, and has supervised the work of over 100 early career scholars.

Marek Radomski

Vice Dean Research and Professor of Anatomy, Physiology and Pharmacology,
University of Saskatchewan



Marek Radomski, MD, PhD, is one of the world's foremost experts in the pharmacology and physiology of platelet aggregation and a pioneer in the field of nanopharmacology. In addition to his outstanding original research contributions, Dr. Radomski has held senior leadership positions in the academy and in industry both in Europe and in Canada. He has also contributed to major international initiatives, including the WHO's Safe Maternity Program and European committees tasked with setting policies on nanotechnologies in food. The recipient of numerous recognitions, Dr. Radomski was elected as an international member of the Polish Academy of Learning in 2018.

Vardit Ravitsky

Full Professor, Department of Social and Preventive Medicine, Université de Montréal



Throughout her career, Professor Vardit Ravitsky has demonstrated exemplary commitment to advancing academic health sciences through her innovative research, her teaching, and her service to the community. A leader in bioethics research, she has influenced policy making, as well as clinical practice, especially in the areas of reproduction and genomics. She runs an active well-funded research program, trains and mentors a new generation of scholars, and invests in building novel educational opportunities. Her roles on boards and advisory bodies, investment in knowledge dissemination, public engagement, and work with policy makers, bear witness to her public service locally, nationally, and internationally.

Ravi Retnakaran

Clinician-Scientist, Mount Sinai Hospital, Leadership Sinai Centre for Diabetes



Dr. Ravi Retnakaran is a Professor of Medicine in the Division of Endocrinology and Metabolism at the University of Toronto and Mount Sinai Hospital. His research focuses on the pathophysiology and treatment of type 2 diabetes (T2DM). His work has demonstrated that pregnancy poses a physiologic challenge to a woman's body that can provide unique insight into her future risks of both T2DM and cardiovascular disease, and hence an opportunity for their prevention. Furthermore, his research has highlighted the potential reversibility of the underlying disease process early in the course of diabetes, leading to novel strategies for treating T2DM.

Joy Richman

Professor, Faculty of Dentistry, University of British Columbia



Dr. Richman is a specialist in Pediatric Dentistry with a PhD in developmental biology from University College London. She is known internationally for her discoveries in facial development and tooth replacement with funding support from the CIHR, NSERC and the NIH. Dr. Richman is an Associate Editor for the Journal of Dental Research. She served on the board of the International Association for Dental Research as well as on the executive of the Canadian Association for Dental Research. Dr. Richman is the Director of the Graduate Program in Pediatric Dentistry at UBC, and treats children with complex disorders at BC Children's Hospital.

Michael John Rieder

CIHR-GSK Chair in Paediatric Clinical Pharmacology, Western University



Dr. Rieder is a distinguished university professor at Western University and a leader nationally and internationally in paediatric clinical pharmacology. He holds the CIHR-GSK Chair in Paediatric Clinical Pharmacology, the only endowed chair in pediatric pharmacology in Canada and one of a handful internationally. Dr. Rieder is recognized for his work in exploring drug safety and efficacy in children and serves as a consultant for many national and international agencies. His laboratory, the Drug Safety Laboratory, is a core laboratory for a unique national network, the Canadian Pharmacogenomic Network For Drug Safety.

Bernard Robaire

James McGill Professor, Department of Pharmacology and Therapeutics, McGill University



Bernard Robaire is a world leader in the field of male reproduction and medicine. His ground breaking research demonstrated that paternal exposure to some therapeutic agents and environmental chemicals may alter the quality of sperm chromatin and have adverse effects on offspring. Importantly, he established that aging of the father is associated with decreased sperm quality and that this has consequences for progeny outcome. His pioneering studies of androgen action revealed the pathway by which androgens act rapidly on target cells. His fundamental studies on the impact of steroid combinations on spermatogenesis are the basis for developing a male contraceptive.

Norman Rosenblum

Pediatric Nephrologist, Senior Scientist, Professor of Pediatrics, The Hospital for Sick Children



Norman Rosenblum is a Clinician Scientist in Paediatric Nephrology. His research focuses on signaling mechanisms controlling normal and malformed kidney development. His major impact has also been on the career development of clinician- and translational scientists and the development of health research strategies locally (Associate Dean of Physician Scientist Training, University of Toronto), nationally (Canadian Child Health Clinician Scientist Program, and internationally (Board of Trustees of Eureka Institute For Translational Medicine; Chair of Scientific Advisory Board of Faculty Of Medicine, University of Helsinki). He is Scientific Director of the Canadian Institutes of Health Research Institute of Nutrition, Metabolism and Diabetes.

Susan Rvachew

Associate Dean and Director, School of Communication Sciences and Disorders, Faculty of Medicine, McGill University



Professor Susan Rvachew, Ph.D., S-LP(C), ASHA Fellow, has received national and international recognition for outstanding professional achievements in the field of speech-language pathology practice and research. These achievements include theoretical and methodological advancements that highlight the role of speech perception in speech production development and speech disorders. She developed new computer-based assessment and treatment tools that have transformed speech therapy practice for the remediation of developmental speech sound disorders. She is well-known for her commitment to knowledge mobilization, having collaborated with many groups to create accessible publications for students, practitioners, policy makers and the lay public.

Lisa Saksida

Canada Research Chair in Translational Cognitive Neuroscience (Tier 1); Professor, Department of Physiology and Pharmacology, Western University; Co-Scientific Director, BrainsCAN; Scientist, Robarts Research Institute; Principal Investigator, The Brain and Mind Institute



Dr. Saksida, Tier 1 Canada Research Chair in Translational Cognitive Neuroscience, has made numerous contributions to understanding the circuits and mechanisms underlying cognition—particularly learning and memory—in the healthy brain and in disease. Her work involves theoretically rigorous, mechanistic studies of cognition, using pharmacological, genetic and molecular techniques combined with sophisticated analysis of behaviour. She also contributes immensely to leadership in the wider scholarly community through focused efforts to change the scientific environment for the better, with an emphasis on open science and team science as well as initiatives to improve equity, diversity and inclusivity.

Brent Schacter

Professor Emeritus, Department of Internal Medicine, University of Manitoba



Dr. Brent Schacter has held many major national and international leadership roles: President/CEO of CancerCare Manitoba; CEO of Canadian Association of Provincial Cancer Agencies; and Co-Chair of Steering Committee, Canadian Strategy for Cancer Control. These roles allowed effective advocacy for establishment of Canadian Partnership Against Cancer. Dr. Schacter was the P.I. of the Canadian Tumour Repository Network, which launched a Biobank Education and Certification Program that has been adopted globally. He was President of International Society of Biological and Environmental Repositories (ISBER) and a member of ISO TC276, which published ISO 20387 and ISO 22758, the global standards in biobanking.

Arya M. Sharma
Professor of Medicine, University of Alberta



Arya M. Sharma, MD, is Professor of Medicine at the University of Alberta and is globally recognised as Canada's leading voice in obesity science and medicine. He has authored over 450 scientific articles and has lectured in over 50 countries on evidence-based prevention and management of obesity. He is the Scientific Director of Obesity Canada, Canada's national health charity focussed on improving the lives of Canadians affected by obesity, and his work has been extensively recognised through numerous prestigious awards. He is also regularly featured as an expert in national and international media and maintains a widely read blog at <http://www.drsharma.ca>.

Graeme N. Smith
Professor & Head, Department of Obstetrics & Gynaecology, School of Medicine,
Queen's University



Graeme Smith MD, PhD is an internationally recognized clinician scientist and Head of the Department of Obstetrics & Gynecology at Queen's University. Dr. Smith established the Academic Council at the Society for Obstetricians & Gynecologists of Canada to oversee educational activities ranging from medical students to residents to practicing clinicians. He has demonstrated a career long commitment to trainee research education ranging from his own basic science graduate trainees, establishing the Royal College Clinician Investigator Program at Queen's University, running the Introduction to Research course for all first year residents and establishing mentorship recognition programs in the SOGC and Department.

Janet Smylie

Professor, Dalla Lana School of Public Health, University of Toronto, Research Chair, St. Michael's Hospital, Staff Physician, Unity Health Toronto



Among Canada's first Métis physicians and the most prolific author in her field, Dr. Smylie is globally respected by academics and Indigenous community leaders for consistently producing and translating innovative research into tangible benefits for Indigenous community. Her research findings have been applied to lever >\$20 million of new funding for Indigenous health and social services, such as Indigenous midwifery and child development programming. Her scholarly contributions include: advancing theory and practice of Indigenous knowledge translation; unmasking urban Indigenous population size and health inequities; and improving recognition of health systems' responses to racism as a core determinant of Indigenous health.

Henry Thomas Stelfox

Department Head, Critical Care Medicine, University of Calgary, Alberta Health Services



Dr. Stelfox is an internationally recognized intensive care physician, scientist, educator and healthcare system leader. He is a leading expert in the use of applied health services research methods to improve the care of critically ill patients. He has extensively contributed to academic health sciences by leading provincial, national and international efforts to build applied research capacity, create new health service delivery knowledge and translate that knowledge into better patient care. He has successfully trained multiple scientists and clinicians and mentored early career academic faculty who have gone on to successful careers in academia, healthcare, industry and government.

Maryam Tabrizian

Full Professor, Department of Biomedical Engineering, McGill University



M. Tabrizian has pioneered many concepts in the field of (nano) biomaterials and (nano) biointerfaces to promote the interactions and crosstalk between alive and artificial systems. This resulted in shifting the paradigm in conventional approaches to regenerative medicine and nanomedicine, and many acclaimed publications. Of great significance are her approaches to layer-by-layer self-assembly of natural polymers to make a nano-thin film on any templates including live cells and tissues along with developing inventive microfluidic platforms for biosensing of live tissue and pathogen detection.

Lehana Thabane

Professor and Interim Chair, HEI, McMaster University



Dr. Lehana Thabane is a Professor in Biostatistics at McMaster University. He is a pioneer in health-research and clinical-trials methodology, celebrated as an academic mentor, and an advocate of evidence-based medicine and health care in Canada and the world. Dr. Thabane was the lead statistician on several trials that won national and international awards for their methodological rigour and impact on health policy and practice. He is dedicated to developing biostatistical expertise in the Sub-Saharan region of Africa and is distinguished by his extraordinary passion and aptitude for mentoring. Dr. Thabane's Mentoring Without Borders approach has influenced hundreds worldwide.

Angelo Tremblay

Professeur titulaire, Département de kinésiologie, Université Laval



Le Professeur Tremblay est un chercheur universitaire dont la carrière a été orientée envers l'étude de l'obésité humaine. Il a mis à profit avec justesse ses compétences de physiologiste spécialiste de la bioénergétique afin de mieux comprendre les déterminants de l'obésité et fournir aux professionnels de la santé des outils pour la prise en charge de cette condition. Cette recherche lui a permis de contribuer à la formation de plusieurs chercheurs dont certains sont devenus des chefs de file dans leur domaine de spécialité. Il figure parmi les spécialistes de la bioénergétique de l'obésité les plus cités au monde.

Ross Upshur

Associate Director, Lunenfeld Tanenbaum Research Institute, Sinai Health, Professor, Department of Family and Community Medicine and Dalla Lana School of Public Health, Dalla Lana Chair in Clinical Public Health, Division Head, Division of Clinical Public Health, Dalla Lana School of Public Health, University of Toronto



Dr. Ross E.G. Upshur is recognized for his significant contributions to primary care/family medicine research in Canada, particularly in multi-morbidity and the integration of public health and primary care, for which has been named one of Top 20 Pioneers in Family Medicine Research in Canada. Additionally, Dr. Upshur contributed to the resurgence of public health ethics as an academic discipline particularly with respect to work in ethics and infectious diseases helping Canada and other countries develop their approach to responding to outbreaks of SARS-CoV-2, pandemic influenza and Ebola. He has also made original contributions to the philosophy of medicine.

2020 New Fellows

Barbara Vanderhyden

Professor, Senior Scientist, and Corinne Boyer Chair of Ovarian Cancer Research,
University of Ottawa and The Ottawa Hospital



Dr. Barbara Vanderhyden is a Distinguished Professor and holds the endowed Corinne Boyer Chair in Ovarian Cancer Research at the University of Ottawa. She is a highly accomplished scientist who has made significant and paradigm-shifting discoveries in ovarian biology and ovarian cancer. She has shown exceptional leadership and commitment to advancing health science research by chairing several key committees and research advisory boards, including the Ovarian Cancer Canada OvCAN Governing Council. She is a tireless advocate for health research who conceived and developed extensive and successful outreach programs for youth, vulnerable populations and cancer patients.

Lu-Yang Wang

Senior Scientist, The Hospital For Sick Children Research Institute, Professor,
Department of Physiology, University of Toronto



Lu-Yang Wang holds a Tier 1 Canada Research Chair in Brain Development and Disorders, and is a Senior Scientist at SickKids Research Institute. He is also a Professor in the Department of Physiology at the University of Toronto, where he serves as Associate Chair. He is a distinguished scholar internationally recognized for his paradigm-shifting work on brain plasticity and neurodevelopmental disorders that were published in Nature, Science, Neuron, Science Translational Medicine, and Molecular Psychiatry. He is an exceptional academic leader regularly elected to serve as the chair and/or the executive member of national and international scientific organizations, conferences and editorial boards.

J. Scott Weese

Professor, Department of Pathobiology, Ontario Veterinary College, University of Guelph



J. Scott Weese is one of the world's leading experts in veterinary infectious disease. He has made numerous contributions in a broad range of infectious diseases of animals, notably bacterial infections in animals and particularly those affecting humans and emerging diseases, including methicillin-resistant staphylococcal infections, *Clostridium difficile*, antimicrobial resistance, numerous emerging infectious diseases, as well as in infection control. An outstanding communicator and teacher, his impact epitomizes One Health. His ability to engage at a high level in the veterinary and medical fields contribute to his many activities as an energetic, influential and highly productive national and international leader in veterinary infectious disease.

Lakshmi N. Yatham

Professor and Head of Psychiatry, University of British Columbia



Dr. Lakshmi Yatham is Professor and Head of the UBC Department of Psychiatry, Director of the UBC Institute of Mental Health, and Regional Head of Psychiatry for Vancouver Coastal and Providence Health Care Authorities. He is also Editor-in-Chief for the Canadian Journal of Psychiatry, and President of the World Federation of Societies of Biological Psychiatry. Dr. Yatham is a world-class clinician scientist in mood disorders who has made fundamental advancements to the understanding of the neurobiology and treatment of bipolar disorder. He is a highly cited researcher and has won numerous prestigious awards from national and international organizations.

Peter Zandstra

Director, School of Biomedical Engineering and Michael Smith Laboratories,
University of British Columbia



Dr. Peter Zandstra is internationally recognized for his distinguished contributions to the field of biomedical engineering and is advancing our fundamental understanding of how stem cells develop into mature blood cells. Using this knowledge to design and implement new technologies that enable stem cell-based therapies for diseases such as leukemia, Dr. Zandstra is driving the development and clinical testing of these new therapies with Canadian biotechnology companies. A leader in cell and gene therapy manufacturing, Dr. Zandstra is catalyzing the growth of biomedical engineering research and education, across Canada and around the world.