

Faculty of Health Sciences



Annual
Report
2018

Office of the Dean
and Vice-President

Dean's message



McMaster University's Faculty of Health Sciences has celebrated many achievements in 2018, from innovative research findings that are published in some of the top scientific journals, to recognition through prestigious awards and honours to

the establishment of new research centres and funding opportunities. All of these achievements are the direct result of our tireless and dedicated faculty members, staff and students who foster academic excellence and help position us among the top universities in the world.

The calibre of our health education and research is evident by our consistently strong performance in global university rankings. For example, the Times Higher Education World University Rankings has named us as the second-best Canadian academic institution in the clinical, pre-clinical and health category. Furthermore, *Research Infosource* rated McMaster as the most research-intensive, medical-doctoral university for the second consecutive year.

The extraordinary impact of our faculty, staff, students and alumni is also evident by the number of important awards and honours received in 2018. These have included inductions into the Order of Canada, Canadian Academy of Health Sciences, and Council of Ontario University Programs in Nursing. We have also established new endowed research chairs, garnered international praise for many of our programs and research endeavours and continue to attract support from individuals, government agencies, non-profit foundations and industry.

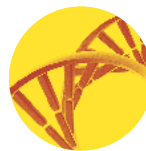
This annual report provides a snapshot of our many advances and success stories of the past year; yet, I encourage you to visit the Faculty's website regularly to stay up-to-date on all of our ongoing accomplishments in research, education and innovation at fhs.mcmaster.ca.

Paul O'Byrne, MB, FRCP(C), FRSC
Dean and Vice-President
Faculty of Health Sciences
Michael G. DeGroote School of Medicine



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News



Family medicine resident Justin Powers participates in an exercise during a simulation open house hosted by Niagara Health and McMaster's Michael G. DeGroot School of Medicine Niagara Regional Campus.

New partnership in Niagara

Physicians, medical residents and students, nurses and educators received hands-on patient care experiences during a simulation open house at the St. Catharines site of Niagara Health. The use of medical simulation for education to improve patient safety using shared resources and expertise is behind a new partnership between Niagara Health and the Niagara Regional Campus of McMaster University's Michael G. DeGroot School of Medicine. Coined "The Development & Education in Simulation Interprofessional Group of Niagara", the partnership fosters safe spaces to learn and practice.

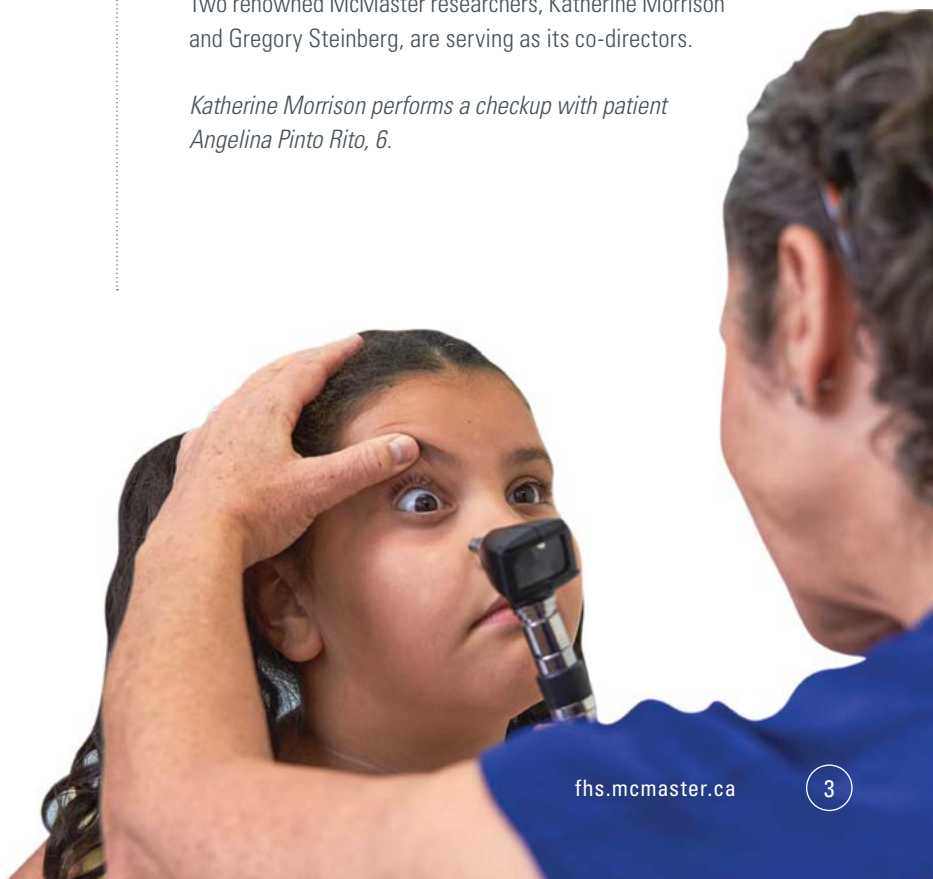
Federal funding boosts research

Two Faculty of Health Sciences researchers have been awarded infrastructure funding from the Canada Foundation for Innovation to advance their work in respiratory medicine and mental health. Jeremy Hirota, Canada Research Chair in Respiratory Mucosal Immunology and assistant professor of medicine, was awarded \$180,000 for his project: The Tissue Engineering for Advanced Medicine (TEAM) Lab: A Platform for Precision Prevention, Diagnosis, and Medicine. Flavio Kapczynski, professor of psychiatry and behavioural neurosciences, received \$140,000 for his project: The Biological Signatures of Clinical Progression in Bipolar Disorder.

Zeroing in on metabolic diseases

McMaster is growing its commitment to addressing the epidemic of obesity and related health consequences with the establishment of the Centre for Metabolism, Obesity and Diabetes Research (MODR). The centre is focused on translating world-leading basic science into clinical practice to improve the diagnosis, prevention and treatment of metabolic diseases in children and adults. Two renowned McMaster researchers, Katherine Morrison and Gregory Steinberg, are serving as its co-directors.

Katherine Morrison performs a checkup with patient Angelina Pinto Rito, 6.





From left, Lori Burrows, associate director of the Michael G. DeGrootte Institute for Infectious Disease Research and Federal Health Minister, Ginette Petitpas Taylor.

Health program aims to end gender-based violence

Federal Health Minister Ginette Petitpas Taylor and Minister of Seniors Filomena Tassi, announced a \$3.4 million five-year grant for research evaluating positive parenting initiatives, in a drive to help end gender-based violence. The funding supports researchers of McMaster’s Offord Centre for Child Studies. Its principal investigator is Andrea Gonzalez, assistant professor of psychiatry and behavioural neurosciences, and a member of the Offord Centre. It was one of three national initiatives announced as part of the Public Health Agency of Canada’s \$187-million, five-year strategy to prevent and address gender-based violence.

Educational innovator thought outside the box



Del Harnish

Delsworth “Del” Harnish, vice-dean of undergraduate education for the Faculty of Health Sciences, died Nov. 26, 2018 after a short illness. As vice-dean since 2015, Harnish established unique programs including the Integrated Biomedical

Engineering and Health Sciences program known as iBioMed with the Faculty of Engineering, and the Health Leadership Academy with the DeGrootte School of Business. Earlier, he had a key role in developing the innovative, extremely popular, inquiry-based Bachelor of Health Sciences Honours program. An event celebrating Del’s life will take place on Feb. 7 from 3 to 5 pm in the atrium of the Michael G. DeGrootte Centre for Learning and Discovery.

Searching for antibiotics with a 3D-printed box



Eric Brown

A small, black box developed in a McMaster lab could change the way scientists search for new antibiotics. The Printed Fluorescence Imaging Box – or PFIbox, for short – is capable of collecting massive amounts of data that will help researchers in the Michael

G. DeGrootte Institute for Infectious Disease Research in their quest to discover new antibiotics. The box allows scientists to analyze more than 6,000 samples of bacteria at a time. The tool uses LED lights to excite fluorescent proteins found in bacteria. It then wirelessly sends data to researchers studying how cells respond to antibiotics over time. The PFIbox’s nine structural parts can be 3D printed in about a day, snap together in minutes, and cost about \$200.

Funding propels development of new cancer therapies

McMaster received \$2.3 million in federal funding for a project that will validate a new white blood cell therapy for cancer. The funds, from Genome Canada’s Genomic Applications Partnership Program, supports the work of Jonathan Bramson, associate dean of research for the Faculty of Health Sciences, and professor of pathology and molecular medicine. He is also a Canada Research Chair in Translational Cancer Immunology. The funding will assist Bramson and his immunotherapy company Triumvira Immunologics Inc. in engineering and commercializing new immunotherapies based on T-cells, which are cells of the immune system, to treat terminal cancers.

McMaster’s Jonathan Bramson gives Kate Young, parliamentary secretary for science, a tour of his lab.





MP Philomena Tassi (centre) visits the lab of Gregory Steinberg (right).

McMaster receives \$19M in health research funding

Twenty-two Faculty of Health Sciences researchers received new grants totaling \$19 million from the Canadian Institutes of Health Research (CIHR). Their projects cover a wide range of health research, from immunology and stem cells to obesity and patient care, among others.

Michelle Kho, an assistant professor in the School of Rehabilitation Science, is working to address the common problem of leg weakness in ICU patients. Using a special bicycle that attaches to the hospital bed, ICU patients can gently exercise their legs. Kho received \$1.98 million to support her research.

Gregory Steinberg, a professor of medicine, is working to address obesity, which is an important risk factor for developing Type 2 diabetes, cardiovascular disease and some cancers. Steinberg and his team received \$950,000 in federal support.

Jason Busse, an associate professor of anesthesia, received \$2.2 million, the largest of the McMaster grants. He is leading research looking at how cognitive behavioural therapy could improve patient outcomes from trauma surgery.

The other McMaster principal investigators who received grants were: Darryl Leong, Zainab Samaan, Giuseppe Melacini, Dawn Bowdish, Brian Coombes, Waliul Khan, Lori Burrows, Andrew McArthur, Ali Ashkar, Kristin Hope, Karen Mossman, Catherine Hayward, Alison Holloway, Jeremy Hirota, Lesley MacNeil, Peter Kavsak, John Whitney, Alfonso Iorio and Mark Duffett.

Kaushic named scientific director of CIHR institute



Charu Kaushic

Charu Kaushic, a professor of pathology and molecular medicine and expert in women's reproductive health, has been named the scientific director of the Canadian Institutes of Health Research (CIHR) Institute of Infection and Immunity.

The new institute supports research and helps to build research capacity in the areas of infectious disease and the body's immune system. It is at the forefront of research into antimicrobial resistance, HIV, hepatitis C, Lyme disease, the microbiome, and organ transplantation. It will be located at McMaster until 2022, with the prospective of an additional four-year renewal. This is the first time a CIHR institute has been based at McMaster.

New Faculty leads

The Faculty of Health Sciences has appointed new leads of its School of Rehabilitation Science, School of Nursing, Midwifery Education Program and the Waterloo Regional Campus.



Dina Brooks

Dina Brooks, is the newly appointed vice-dean of McMaster's Faculty of Health Sciences and executive director of the School of Rehabilitation Science. Her five-year appointment began Jan. 1, 2019.



Sandra Carroll

Sandra Carroll has been appointed as vice-dean, Faculty of Health Sciences and executive director of the School of Nursing at McMaster University. She started her five-year term on July 1, 2018.



Liz Darling

Liz Darling has been appointed the assistant dean of the Midwifery Education Program. Her five-year term began July 1, 2018.



Margo Mountjoy

Margo Mountjoy has been appointed the regional assistant dean of the Waterloo Regional Campus of the Michael G. DeGroote School of Medicine. She started her new role on July 1, 2018.

Spotlights

Mysteries of DNA decoded

Public conversation is loaded with references to DNA through news and drama featuring criminal investigations, home-testing kits that tell us about our health and ancestry, and new advances in science. And while DNA, which stands for deoxyribonucleic acid, is the hereditary material in humans and almost all other organisms, many people know little about it.

Two biochemists of the Faculty of Health Sciences are working to put those mysteries to bed through a new public course called DNA Decoded.

Felicia Vulcu, an assistant professor of biochemistry and biomedical sciences, and Caitlin Mullarkey, an assistant professor for the Bachelor of Health Sciences program, have set a Massive Online Open Course, or MOOC. The MOOC was created by McMaster's Paul R. MacPherson Institute for Leadership, Innovation and Excellence in Teaching. The institute provides leadership in teaching and learning at McMaster and beyond to strengthen and enrich the university's reputation as a national and global leader in the field by using innovative, evidence-based approaches.

Caitlin Mullarkey and Felicia Vulcu are the instructors of a public course called DNA Decoded.



Mary Goodwin, a McMaster midwifery student, uses the MacAnatomy VRBBR app and headset.

VR app hones anatomy learning

McMaster students are using a new, virtual reality app to hone their anatomy expertise outside of the classroom. A savvy group of professors and students worked together to create the app, called MacAnatomy Virtual Reality Bell Ringer, or MacAnatomy VRBBR for short. The app uses a Google Cardboard virtual reality headset to deliver stereoscopic 3D images that serve as the basis for practice questions for undergraduate anatomy and physiology students.

Mental health initiative focuses on improving treatment for trauma

Margaret McKinnon, associate professor of the Department of Psychiatry and Behavioural Neurosciences, is the inaugural Homewood Chair in Mental Health and Trauma. This new position is the 86th research chair of the Faculty of Health Sciences.



Margaret McKinnon

McKinnon will play a key role in building the national network – known as the Homewood-McMaster Trauma Research Network – and will lead the development of a Trauma Research Program at Homewood Research Institute.

Nursing awards honour students and donors

Students from the collaborative nursing program of McMaster University, Mohawk College and Conestoga College were honoured at last spring's annual awards ceremony. Forty awards were presented to 102 students. The ceremony included remarks by Sandra Carroll, associate dean and director of the School of Nursing; James Humphreys, executive dean of the School of Health and Life Sciences and Community Services at Conestoga College, and Paul Armstrong, vice-president, academic of Mohawk College.



Guests at the School of Nursing awards ceremony.

Promoting intergenerational learning

To build better relationships between future physicians and older adults, an elder care education program has been rolled out by the Waterloo Regional Campus of McMaster University's Michael G. DeGroot School of Medicine. The program promotes intergenerational learning and is made up of six pillars of geriatric education including conferences and lectures; interprofessional events; clinical encounters; volunteerism and outreach; research and quality improvement; and online learning modules.



Ivan Samson, a retired pediatrician (centre) is pictured at the Waterloo Regional Campus with medical students Emily Allison (left) and Ellen Connelly.

Uniting seniors and students through music

A health sciences course at McMaster University is bringing generations of Hamiltonians together using the power of music. Music, Health and the Community is an interdisciplinary course that provides students with hands-on community experience through an intergenerational music program in Hamilton. The course is offered through the Bachelor of Health Sciences program, and is also open to McMaster music students.



McMaster University Bachelor of Health Sciences students, from left, Avery Clavio, Shannon Gui, Arbaaz Patel, Deeksha Kundapur and Charmaine Holland.

Faculty and students create emergency medicine board game

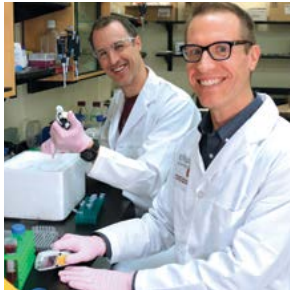
McMaster University emergency medicine faculty and medical students have designed a unique new board game called GridlockED, an educational tool to help future doctors and doctors training to be specialists in emergency medicine. In GridlockED, players work together to treat and prioritize patients with a variety of medical conditions. The goal is to take care of as many patients as possible, manage an eight-hour shift and maximize points.



(Front row) Josh Rempel, Teresa Chan, Paula Sneath, Daniel Tsoy and (back row) Rebecca Dang and Alim Pardhan with their McMaster-created medicine board game, GridlockED.

Research

Highlights



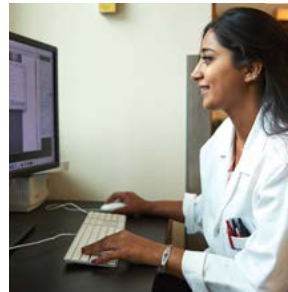
The research of Jonathan Schertzer, right, and Kevin Foley in the Schertzer lab focuses on how dietary and bacterial factors connect immunology and metabolism.

- Researchers have found that gut bacteria, modified

by diet, plays a role in elevated blood glucose, which is the primary indicator of Type 2 diabetes. Based on research in mice, the data showed that while an obesity-causing diet altered gut bacteria within days, it took more than a month for these new gut bacteria to change blood glucose. The findings, led by Kevin Foley, first author and a postdoctoral fellow in the Schertzer lab at McMaster, were published in the journal *Nature Communications*.

- A panel of international experts led by McMaster researchers, and published in the medical journal *The BMJ*, recommend physicians cut back on routine oxygen for hospital patients because the benefit is uncertain and there is clear harm. “It is commonplace for patients to receive oxygen when they shouldn’t, or be given more oxygen than they need,” said physician Reed Siemieniuk, one of the panel’s co-chairs and a researcher with McMaster’s Department of Health Research Methods, Evidence, and Impact. Panel co-chair Gordon Guyatt, a McMaster professor of health research methods, evidence and impact, added: “Healthcare workers need to start thinking of oxygen like any other treatment – one that can sometimes be useful but one that can also cause serious harm.”

- Women in Ontario who are newly diagnosed with locally advanced cervical cancer may receive additional imaging as a result of a clinical study involving McMaster researchers. The study, published in the *Journal of the American Medical Association Network Open*, involved researchers Lorraine Elit, co-principal investigator of the study, professor of obstetrics and gynecology at McMaster and a gynecologic oncologist at the Juravinski Cancer Centre and Mark Levine, a professor of oncology and director of the Ontario Clinical Oncology Group at McMaster.



Bushra Ilyas, a PhD student in the Coombes’ lab, is the first author of a paper in *Cell Reports* that explains a new way bacteria evade the human immune system and promote infection.

- Researchers have found a new way bacteria evade the human immune system and promote infection. Comparing two strains of *Salmonella* – one that causes disease in humans and the other in reptiles – researchers discovered a covert way that the human-affecting bacteria essentially tricks the immune system into not attacking. The findings, led by Brian Coombes, a professor in the Department of Biochemistry and Biomedical Sciences at McMaster and Canada Research Chair in Infectious Disease Pathogenesis, were published in the journal *Cell Reports*.



Postdoctoral fellows Lili Aslostovar, left, and Allison Boyd, centre, at work in the lab with Mick Bhatia, right, director of the Stem Cell and Cancer Research Institute at McMaster University.

- Researchers have provided evidence of new cancerous cells they have termed cancer regenerating cells, which are responsible for the return of acute myeloid leukemia after remission. The study, published in the journal *Cancer Cell*, suggests that leukemia cells change in unique ways in response to the chemotherapy, allowing them to masquerade for a short time so they are able to start disease regeneration. The work was led by Mick Bhatia, director of the McMaster Stem Cell and Cancer Research Institute.



Mahshid Dehghan

- Dairy consumption of around three servings per day is associated with lower rates of cardiovascular disease and mortality, compared to lower levels of consumption, according to a McMaster study. Researchers also found that people who consumed three servings of whole fat dairy per day had lower rates of mortality and cardiovascular disease compared to those who consumed less than 0.5 serving of whole fat dairy per day. The study was published in *The Lancet* and was led by Mahshid Dehghan, an investigator at the Population Health Research Institute.

- Research shows that for the vast majority of individuals, sodium consumption does not increase health risks except for those who eat more than five grams a day, the equivalent of 2.5 teaspoons of salt. Fewer than five per cent of individuals in developed countries exceed that level. The large, international study, published in *The Lancet*, also shows that even for those individuals there is good news. Any health risk of sodium intake is virtually eliminated if people improve their diet quality by adding fruits, vegetables, dairy foods, potatoes, and other potassium rich foods. The study was led by Andrew Mente, a researcher with the Population Health Research Institute.

- A large international study led by McMaster has found a patient-centric treatment that works for people with mild asthma. People with mild asthma are often prescribed a daily treatment regimen, but up to 80 per cent do not follow the routine, using inhalers only when they have an asthma attack. Now, researchers have found an as-needed combined-drug inhaler is a viable treatment option. Paul O’Byrne is the principal investigator on the study published in the medical journal, *The New England Journal of Medicine*.

- Karun Singh, a researcher with the McMaster Stem Cell and Cancer Research Institute, has pinpointed a gene that is linked to neurodevelopmental disorders, including autism. This is the first comprehensive study that supports previous research suggesting the involvement of this gene. The study was published in the journal *Molecular Psychiatry*.



Lori Regenstreif

- A McMaster study suggests more can be done to improve access to and delivery of opioid dependence treatment in adult correctional facilities in Ontario. Researchers say collaboration between the health care and correctional systems is needed to close the gaps, and to benefit and improve the health of those in custody. The study results were published in the journal *PLOS ONE* and led by Lori Regenstreif, assistant clinical professor of family medicine at McMaster.



Matthew Miller

- While past exposure to influenza A viruses often builds immunity to similar, and sometimes different, strains of the virus, Canadian researchers are calling for more attention to exceptions to that rule. New data analysis suggests that people born at the time of the 1957 H2N2 or Asian Flu pandemic were at a higher risk of dying during the 2009 H1N1 Swine Flu pandemic as well as

the resurgent H1N1 outbreak in 2013-2014. Results of the study by researchers of McMaster and the Université de Montréal were presented in the open access journal *mBio*, published by the *American Society for Microbiology*. The work was led by Matthew Miller, a researcher with the Michael G. DeGroot Institute for Infectious Disease Research.

- A team of scientists found that high intensity interval training boosts both the number and activity of natural killer cells in overweight and obese women, along with obese mice with breast cancer. The results come on the heels of previous research that reported similar results in normal weight female subjects. The study was published in the *Journal of Cancer Prevention* and led by Ali Ashkar, professor in the Department of Pathology and Molecular Medicine.



Guillaume Paré

- Until now, the only way to determine a person’s risk of developing early coronary artery disease is to test for a rare genetic defect that is known to be a factor in some cases. However, McMaster researcher Guillaume Paré and his team at the Population Health Research Institute have discovered that, by testing for multiple genetic variations, they’re able to predict early coronary artery disease in five times as many patients than the current test. Study results were published in the American Heart Association’s journal *Circulation: Cardiovascular Genetics*.

- In a study published by the *Journal of the American Medical Association*, McMaster researchers reviewed 96 clinical trials with more than 26,000 participants and found opioids provide only small improvements in pain, physical functioning and sleep quality compared to a placebo. The opioids, however, also increase the risk of vomiting, drowsiness, constipation, dizziness, nausea, dry mouth, and itching. The study was led by Jason Busse, a researcher with the Michael G. DeGroot Institute for Pain Research and Care.

- Researchers have found there is no significant association between cannabis use and suicidal behaviour in people with psychiatric disorders. The study findings contrast with pre-existing data that shows the drug is linked to an increased chance of suicidal behaviour in the general population. However, based on a small subset of participants, researchers did note the heaviness of cannabis use increased risk of suicidal behaviour in men, suggesting a closer follow-up by medical professionals of those patients. The study, published in the journal *Biology of Sex Differences*, was led by Zainab Samaan, associate professor in the Department of Psychiatry and Behavioural Neurosciences.

With distinction



International rankings



SECOND in Canada in the clinical medicine category
Shanghai Jiaotong University Academic Ranking of World Universities 2018



SECOND in Canada for post-secondary institutions offering clinical, pre-clinical and health programs
Times Higher Education World University Rankings 2018



THIRD in Canada in the nursing subject ranking
FOURTH in Canada in the medicine subject ranking
QS World University Rankings 2018



FIFTH in Canada in a ranking measuring how universities perform on graduate employability
Times Higher Education Global Employability University Survey 2018



Canadian rankings



Canada's most research-intensive, medical-doctoral university for the second consecutive year
Research Infosource 2018



FIFTEEN scientists among most highly cited in the clinical medicine category
Clarivate Analytics' Highly Cited Researchers 2018



FOURTH in Canada in the medical doctoral category
Maclean's Student Satisfaction Rankings 2019



Canada Research Chairs



Five Faculty of Health Sciences researchers have received renewals of their Canada Research Chairs, including:



- Sonia Anand, Canada Research Chair in Ethnic Diversity and Cardiovascular Disease (Tier 1)



- Nathan Magarvey, Canada Research Chair in Chemical Biology and Natural Products (Tier 2)



- Parminder Raina, Canada Research Chair in Geroscience (Tier 1)



- Michael Surette, Canada Research Chair in Interdisciplinary Microbiome Research (Tier 1)



- Timothy Whelan, Canada Research Chair in Breast Cancer Research (Tier 1)



Awards and honours

The late **Heather Arthur** of the School of Nursing; **Michael Boyle** of the Department of Psychiatry and Behavioural Neurosciences, and **Saroj Saigal** of the Department of Pediatrics have joined the Faculty of Health Sciences' Community of Distinction, in recognition of their outstanding scholarship and innovative research.

Andrea Baumann, associate vice-president, global health, **Mohit Bhandari**, professor of surgery, and **Jack Gauldie**, professor emeritus of the Department of Pathology and Molecular Medicine, have been named members of the Order of Canada.

Dawn Bowdish and **Guillaume Paré**, both associate professors of pathology and molecular medicine, have been appointed University Scholars.

May Cohen, a professor emerita of the Department of Family Medicine, and **Mary Law**, a professor emerita and former associate dean, health sciences (rehabilitation), have been named Officers of the Order of Canada.

Susan Denburg, executive vice-dean and associate vice-president, academic in the Faculty of Health Sciences, has been elected as a Fellow to the Canadian Academy of Health Sciences.

Bernice Downey, assistant professor of the School of Nursing, and Indigenous Early Career Women's Heart and Brain Health Chair, received an award for excellence in nursing education and scholarship from the Council of Ontario University Programs in Nursing.

Patricia (Pat) Ford, an assistant clinical professor of McMaster University's School of Nursing, is the 2018 recipient of the John C. Sibley Award for excellence in education.

Eileen Hutton, former assistant dean of McMaster's midwifery program and **Karyn Kaufman**, the founding dean of the program, have been recognized for their pioneering role in their field with bursaries named in their honour.

Alfonso Iorio has been named the inaugural holder of the new Bayer Chair for Clinical Epidemiology Research and Bleeding Disorders at McMaster. He is a professor and researcher of the Department of Health Research Methods, Evidence, and Impact and the Department of Medicine.

Harriet MacMillan, professor, Department of Psychiatry and Behavioural Neurosciences, and **Eric Brown**, Professor, Department of Biochemistry and Biomedical Sciences, have been conferred with the title of Distinguished University Professor.

Margaret McKinnon, associate professor of the Department of Psychiatry and Behavioural Neurosciences, has been named the inaugural Homewood Chair in Mental Health and Trauma.

Guillaume Paré, an associate professor in the Department of Pathology and Molecular Medicine and the Department of Health Research Methods, Evidence, and Impact and holder of a Canada Research Chair in Genetic and Molecular Epidemiology, has been named a member of the Royal Society of Canada's College of New Scholars, Artists and Scientists.

Saroj Saigal, a professor emerita of pediatrics, received the 2018 Virginia Apgar Award in recognition of her long-time efforts dedicated to improving the health of extremely premature infants.

Jean-Éric Tarride has been named the inaugural McMaster Chair in Health Technology Management. He is an associate professor in the Department of Health Research Methods, Evidence, and Impact, and an associate member of the Department of Economics at McMaster.

Allyn Walsh, professor of family medicine, was a co-recipient of the 2018 Association of Faculties of Medicine of Canada Award for Outstanding Contribution to Faculty Development in Canada.

Samantha Winemaker, an associate clinical professor in the Department of Family Medicine, was awarded the Elizabeth J. Latimer prize in palliative care.

Chair focuses on Indigenous women's heart health



Assistant professor Bernice Downey has received the Indigenous Early Career Women's Heart and Brain Health Chair Award to explore the culture-related factors that have led to gaps in health promotion, diagnosis, treatment and research which impact

Indigenous women. The chair is one of four Women's Heart and Brain Health Chair Awards announced by the Canadian Institutes of Health Research and the Heart and Stroke Foundation of Canada. Downey is cross appointed to the School of Nursing and the Department of Psychiatry and Behavioural Neurosciences. The five-year project is funded for more than \$1 million.

HEALTH SCIENCES

