

Charbonneau News

Meeting the Cancer Challenge

Director's Message

I'd like to begin by wishing everyone a Happy New Year. I hope this year brings you success in your research and personal endeavours.

Last year marked the Institute's 15th anniversary. We have grown and accomplished much in that time. In fact, last year our CIHR revenue was the highest it's ever been and we passed the Cumming School of Medicine in the number of publications per research equivalent. Well done!

We have a lot to look forward to in the coming years, as the 'cancer mission' continues its rise in the University and our impact is felt in Calgary and beyond.

Greg

CONTACT US

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Announcements



In Memory: Mr. Arnie Charbonneau

Mr. Arnie Charbonneau passed away on February 18, 2018. Remembered fondly by his family and friends, he was a highly successful business owner and incredibly generous philanthropist. His gift to the Institute and the University was celebrated on Tuesday, November 13th, 2018. It has enabled our Institute to recruit new faculty, purchase key equipment, fund trainees, and enable new research programs. We are forever grateful for his generosity.

Young philanthropist raises \$7,000 for brain cancer research

Eric Rogers raised \$7,000 for brain tumour research in memory of his mother, Jacqueline. On Eric's GoFundMe® page, he explains that his mother was diagnosed with a brain tumour she was 19, but at 45 her health had begun to decline. His goal in fundraising for cancer research was to see her stay alive until he becomes a grown-up. Unfortunately, Eric's mother passed away on October 21, 2018. Not long after, he made arrangements to come in to the Institute to present his cheque for \$7,000 and have his picture taken with cancer researchers. Pictured below are Eric Rogers, Dr. Gregory Cairncross and Dr. Jennifer Chan.



Welcome New Members to Charbonneau



Dr. Lisa Barbera, Professor and Head of Radiation Oncology



Dr. Jason Tay, Associate Professor (Hematology)



Dr. Jennifer Matthews, Assistant Professor (Head & Neck Cancer)



Dr. Lauren Walker, Assistant Professor (Psychosocial Oncology)



EVICT RADON

Dr. Aaron Goodarzi, Canada Research Chair for Radiation Exposure Disease and member of the **Robson DNA Science Centre**, is studying ionizing radiation, such as the alpha particles emitted by radon gas, and how this type of radiation impacts DNA damage and repair. His work is improving our knowledge of cancer development and the human aging process, as well as informing efforts to educate the public about the harms of ionizing radiation and how to avoid or reduce exposure. Radon is the leading cause of lung cancer in non-smokers and can further increase the risk of lung cancer in smokers. Work published by Dr. Goodarzi in 2017 revealed that 1 in 8 homes in southern Alberta have cancer-causing levels of radon. Yet, with appropriate mitigation, radon can be eliminated in homes. Dr. Goodarzi now leads a grass-roots, citizen science initiative, **Evict Radon**, to increase awareness about radon testing and mitigation. The Evict Radon campaign has evolved into a national research initiative to test thousands of homes across Canada for radon. Learn more, at www.evictradon.ca.



Congratulations to Dr. Fiona Schulte on her CIHR Early Career Investigator Award

Dr. Fiona Schulte was recently awarded an Early Career Investigator award from CIHR for her project titled, *Social Competence in Children Diagnosed with Sickle Cell Disease: An examination of risk factors*. Using a cross-sectional design, her project will examine social adjustment, social information processing, and social interactions in children with sickle cell disease and investigate the relationship between disease severity and social adjent.

Prostate Cancer Canada and the Movember Foundation Announce \$4M in Research Grants

Dr. Tarek Bismar one of the recipients will study low-risk prostate cancer that has not spread outside the prostate and is likely to be slow growing. Active surveillance can allow men to delay or avoid aggressive treatments like radiation and surgery and their subsequent side effects. However, many men choose these invasive treatments because they fear their cancer will become aggressive. Dr. Bismar's goal is to see if individual biological factors tested at diagnosis can determine which men will develop aggressive prostate cancer, giving men on active surveillance clear information with which to make their treatment choice.





Education & Training

TRAINEE SUCCESS

2018 Thesis Defense

Saurav Choudhury, PhD
Mana Alshehri, PhD
Shaun Moore, PhD
Alexandra Bohm, MSc
Nicholas Jette, PhD
Mary Hoffman, MSc
Rosy Dabas, PhD
Fintan Stanley, PhD
Joseph Kendall, MSc

2018 CSM Postdoctoral Fellowship Awards

Dr. Devesh Oberoi, Supervised by Dr. Linda Carlson
Dr. Ted Verhey, Supervised by Dr. Sorana Morrissy

2018 Robson Fellowship

Dr. Aditya Mojumdar, Supervised by Dr. Jennifer Cobb

2018 Howard Work in Progress Awards

Ayan Chanda
Beth Barretto
Lisa Deliu
Myra Joy Chen
Chris McCoy
Lucy Swift

FUNDING OPPORTUNITIES

- Clark H. Smith Brain Tumour Centre Graduate Scholarship
- Charbonneau Institute Director Graduate Scholarship in Cancer Research
- Rejeanne Taylor Research Prize
- Alex Cummings Trainee Travel Award
- Daniel Family Foundation Graduate Scholarship
- Howard Research Excellence Awards
- Postdoctoral Scholar Recruitment

Please visit our website (<https://charbonneau.ucalgary.ca>): or details on how to apply.

Upcoming Events

2019 CHARBONNEAU ANNUAL RESEARCH SYMPOSIUM

February 11, 2019

Featuring keynote speaker:
Dr. Bjorn Schwer

Distinguished Speaker Series

February 1, 2019

Dr. Razq Hakem,
University of Toronto

April 5, 2019

Dr. Jean Francois Cote
University of Montreal

May 3, 2019

Dr. Jeremy Rich
University of California
San Diego

May 24, 2019

Dr. Livia Garzia
McGill University

June 7, 2019

Dr. Ross Cagan
Icahn School of Medicine
at Mount Sinai

June 14, 2019

Dr. Mario Suva
Dana Farber/Harvard
Cancer Centre

Faculty Lunch Chalk Talks:

February, 2019

Dr. Marco Gallo
Dr. Nizar Bahlis

Safety Reminders

If common equipment is out of order please let Donna Wray know. 403-220-4494 or dwwray@ucalgary.ca

Did you know?

The Government of Canada now publishes Pathogen Safety Data Sheets? These data sheets include hazard identification, dissemination, stability and viability (including susceptibility to disinfectants), first aid / medical, laboratory hazards, exposure controls / personal protection, handling and storage, regulatory and other information. The website link is:

<https://www.canada.ca/en/public-health/services/laboratory-biosafety-biosecurity/pathogen-safety-data-sheets-risk-assessment.html>



Facilities & Infrastructure

All CO2 incubators within the Charbonneau lab footprint will be calibrated twice a year by Dan Lang.

New Equipment

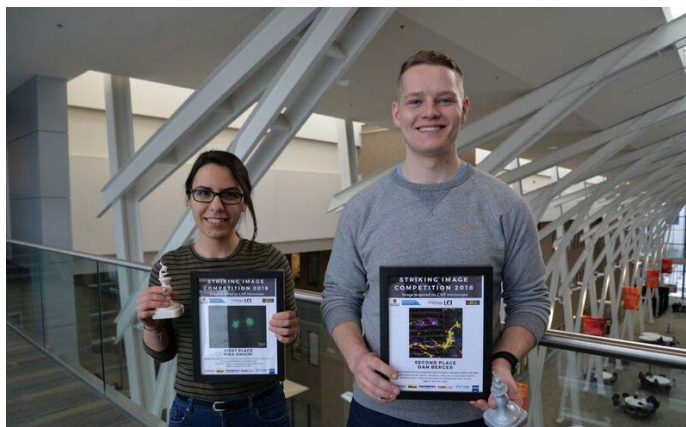
New fixed angle centrifuge rotor (6x500mL) for a floor model now located in HMRB 396 (cold room).

A complete list of Charbonneau equipment can be found on the Charbonneau website:

<https://charbonneau.ucalgary.ca/research/institute-resources>

CSM Striking Image Competition 2018

We would like to extend our congratulations to Hiba Omairi (Cairncross Lab) and Dan Berger (Chan/Goodarzi Lab) who placed first and second, respectively, in the Charbonneau category.



Welcome New Research Programs

The lab of Dr. Sam Weiss and Dr. Artee Luchman is moving the week of January 14th. They will be located in HRIC 2A-23.



Dr. Jennifer Corcoran's lab moved into the HRIC in September 2018.



Dr. Gwyn Bebb's team supporting the Glans-Look and POET programs have relocated to HMRB 383.





Upcoming External Grants:

Cancer Research Society (CRS)

Internal deadline (RSO):

February 11 at noon (pending LOI)

Canadian Institutes of Health Research (CIHR)

Internal deadline (RSO):

March 2019 (anticipated)

Reminder: Internal Peer Review

Do you plan to submit a grant to CRS? CIHR? If yes, have you registered for internal peer review?

To schedule a Faculty Lunch 'Chalk Talk', a peer review meeting, or to receive 1:1 feedback from selected peers, contact:

Dr. Savraj Grewal

grewalss@ucalgary.ca or

Melissa Shea-Budgell

melissa.sheabudgell@ucalgary.ca

News to Share?

Have you received a new grant or award? Has your student recently defended? Please share your story with us! We are looking for content for the website, our LinkedIn profile, and the new quarterly newsletter!

Research

Congratulations to the Following Tri-Council Grant Recipients in 2017-2018:

Natural Sciences and Engineering Research Council of Canada:

Dr. Shirin Bonni
Dr. Sarah Childs
Dr. Jennifer Cobb
Dr. Jason de Koning
Dr. Darren Derksen
Dr. Marco Gallo
Dr. Aaron Goodarzi
Dr. Savraj Grewal
Dr. Ebba Kurz
Dr. Haocheng Li
Dr. Jonathan Lytton
Dr. Gregory Moorhead
Dr. Derrick Rancourt
Dr. Karl Riabowol
Dr. Kristina Rinker
Dr. Amir Sanati Nezhad
Dr. David Schriemer
Dr. Hans Vogel
Dr. Edwin Wang
Dr. Gareth Williams

Canadian Institutes of Health Research (CIHR):

Spring 2018 Project Grant:

Dr. Gareth Williams
Dr. Hans Vogel

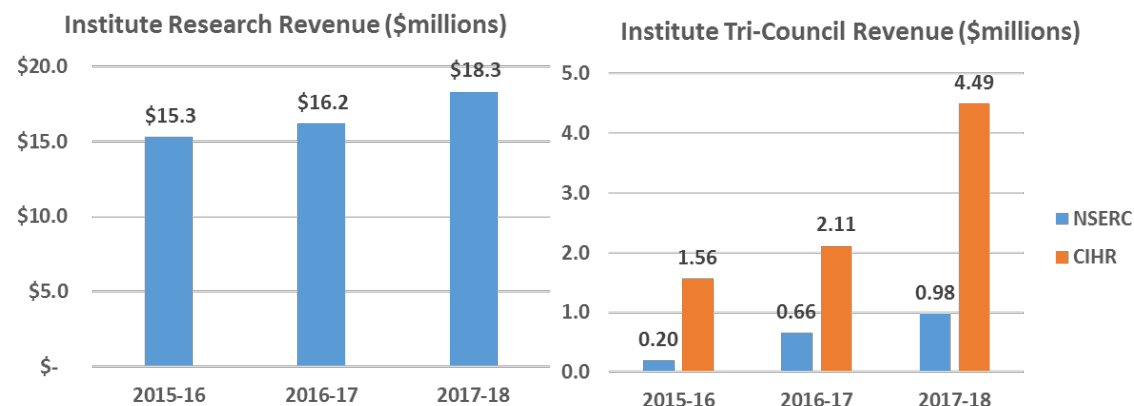
Fall 2017 Project Grant:

Dr. Jennifer Cobb
Dr. Christine Friedenreich
Dr. Marco Gallo
Dr. Garnette Sutherland
Dr. Voon Wee Yong

Special Operating / Catalyst / Supporting Patient-Oriented Research / Other:

Dr. Oliver Bathe
Dr. Darren Brenner
Dr. Gregory Cairncross
Dr. Michael Monument
Dr. Derrick Rancourt
Drs. Jessica Simon and Ayn Sinnarajah

Fun Facts Provided by the Office of Faculty Analytics:





Feature Article:

TGF-β-associated extracellular matrix genes link cancer-associated fibroblasts to immune evasion and immunotherapy failure.

Dr. Pinaki Bose,
Ohlson Research Initiative

Nat Commun. 2018 Nov 8;9(1):4692.

Charbonneau researcher, Dr. Pinaki Bose discovered a new genetic target for future cancer therapy. Genes associated with extracellular matrix have a direct connection to how patients with cancer respond to immunotherapy. The study, published in November 2018 in **Nature Communications**, in collaboration with the Princess Margaret Cancer Centre, showed that this new signature outperforms previously proposed biomarkers and could represent a future therapeutic target for cancer.

Research

Back by Popular Demand: Quarterly Cancer Bibliography (2018-19 Q3)

Basic/biomedical research studies

Institute Authors	Article Title	Journal
Bose P	TGF-β-associated extracellular matrix genes link cancer-associated fibroblasts to immune evasion and immunotherapy failure.	Nat Commun. 2018 Nov 8;9(1):4692. PMID:PMC6224529.
Bonni S	The Transcriptional Regulator SnoN Promotes the Proliferation of Cerebellar Granule Neuron Precursors in the Postnatal Mouse Brain.	J Neurosci. 2018 Nov 13. pii: 0688-18. PMID: 30425119.
Vogel H	Biomarker Phenotype for Early Diagnosis and Triage of Sepsis to the Pediatric Intensive Care Unit.	Sci Rep. 2018 Nov 9;8(1):16606. PMID: PMC6226431.
Bathe O	Host phenotype is associated with reduced survival independent of tumour biology in patients with colorectal liver metastases.	J Cachexia Sarcopenia Muscle. 2018 Oct 31. PMID: 30378742.
Chan JA	Factors Within the Endoneurial Microenvironment Act to Suppress Tumorigenesis of MPNST.	Front Cell Neurosci. 2018 Oct; 12:356. PMID: PMC6193112.
Zheng XL	Itaconate: an emerging determinant of inflammation in activated macrophages.	Immunol Cell Biol. 2018 Nov 14. Review. PMID: 30428148.
Zheng XL	Coiled-coil domain-containing 80 accelerates atherosclerosis development through de-creasing lipoprotein lipase expression via ERK1/2 phosphorylation and TET2 expression.	Eur J Pharmacol. 2018 Nov 12. pii: S0014-2999(18)30659-9. PMID: 30439364.
Liu H	Effect of selected biocides on microbiologically influenced corrosion caused by <i>Desulfovibrio ferrophilus</i> IS5.	Sci Rep. 2018 Nov 9;8(1):16620. PMID: PMC6226443.
Hollenberg M	Itch induced by peripheral mu opioid receptors is dependent on TRPV1-expressing neurons and alleviated by channel activation.	Sci Rep. 2018 Oct 19;8(1):15551. PMID: PMC6195532.
Zheng XL	Pregnancy-associated plasma protein-A in atherosclerosis: Molecular marker, mechanistic insight, and therapeutic target.	Atherosclerosis. 2018 Oct 9;278:250-258. PMID: 30340109.
Hollenberg M	Protease-activated Receptor-2 Signaling through β-Arrestin-2 Mediates Alternaria Alkaline Serine Protease-induced Airway Inflammation.	Am J Physiol Lung Cell Mol Physiol. 2018 Oct 18. PMID: 30335499.
Bose P Kelly J Yong VW	Microglia induces Gas1 expression in human brain tumor-initiating cells to reduce tumorigenicity.	Sci Rep. 2018 Oct 16;8(1):15286. PMID: PMC6191418.
Hollenberg M	Need for an Executive Leadership Curriculum in Scientist-Clinician Training Programs.	Clin Invest Med. 2018 Sep;41 (3):E144-7. PMID: 30315750.
Senger D	A Small Molecule Targeting the Transmembrane Domain of Death Receptor p75(NTR) Induces Melanoma Cell Death and Reduces Tumor Growth.	Cell Chem Biol. 2018 Oct 1. PMID: 30293939.
Cobb J	Identification of a limb enhancer that is removed by pathogenic deletions downstream of the SHOX gene.	Sci Rep. 2018 Sep 24;8(1):14292. PMID: PMC6155277.
Zheng XL	C1q tumor necrosis factor-related protein 9 in atherosclerosis: Mechanistic insights and therapeutic potential.	Atherosclerosis. 2018 Sep;276:109-116. PMID: 30056359.
Zheng XL	Cholesterol transport system: An integrated cholesterol transport model involved in atherosclerosis.	Prog Lipid Res. 2018 Dec; 73: 65-91. doi: 10.1016/j.plipres. 2018.12.002. PMID: 30528667.
Zheng XL	MicroRNA-377 Inhibits Atherosclerosis by Regulating Triglyceride Metabolism Through the DNA Methyltransferase 1 in Apolipoprotein E-Knockout Mice.	Circ J. 2018 Oct 25;82(11):2861-2871. PMID: 30232292.

Basic/biomedical research studies (continued)

Institute Authors	Article Title	Journal
Zheng XL	PCSK9: A novel inflammation modulator in atherosclerosis?	J Cell Physiol. 2018 Sep 24. PMID: 30246446.
Narendran A	17-DMAG regulates p21 expression to induce chondrogenesis in vitro and in vivo.	Dis Model Mech. 2018 Oct 8;11(10).PMCID:PMC6215425.
Liu C	Observation of Topologically Protected Edge States in a Photonic Two-Dimensional Quantum Walk.	Phys Rev Lett. 2018 Sep 7;121(10):100502. PMID: 30240268.
Kovalchuk O Yong VW	Multimodal Enhancement of Remyelination by Exercise with a Pivotal Role for Oligodendroglial PGC1 α .	Cell Rep. 2018 Sep 18;24(12):3167-3179. PMID: 30232000.
Moorhead G	A Quantitative Chemical Proteomic Strategy for Profiling Phosphoprotein Phosphatases from Yeast to Humans.	Mol Cell Proteomics. 2018 Sep 18. pii: mcp.RA118.000822. PMID: 30228194.
Cobb J	Heterogeneous combinatorial expression of Hoxd genes in single cells during limb development.	BMC Biol. 2018 Sep 18; 16(1):101. PMCID: PMC6142630.
Rancourt D	Cytogenetics and Quality Control: Clinical Guardians for Pluripotent Stem Cells.	Stem Cells Transl Med. 2018 Sep 14. PMID: 30218497.
Eszlinger M Paschke R	Hyperthyroidism and Papillary Thyroid Carcinoma in Thyrotropin Receptor D633H Mutant Mice.	Thyroid. 2018 Oct;28(10):1372-1386. PMID: 30132406.
Hollenberg M	Interferon gamma decreases intestinal epithelial aquaporin 3 expression through downregulation of constitutive transcription.	J Mol Med (Berl). 2018 Oct; 96(10):1081-93. PMID: 30090948.
Mahoney D	Visualizing Oncolytic Virus-Host Interactions in Live Mice Using Intravital Microscopy.	Mol Ther Oncolytics. 2018 Jul; 10: 14-27. PMCID: 6070694.
Hollenberg M	Microenvironment proteinases, proteinase-activated receptor regulation, cancer and inflammation.	Biol Chem. 2018 Sep 25;399(9):1023-39. PMID: 29924723.
Vogel HJ	Impact of dietary fiber supplementation on modulating microbiota-host-metabolic axes in obesity.	J Nutr Biochem. 2018 Nov 26; 64:228-36. PMID: 30572270.
Storek J	Rabbit Antithymocyte Globulin Serum Levels: Factors Impacting the Levels and Clinical Outcomes impacted by the Levels.	Biol Blood Marrow Transplant. 2018 Dec. pii: S1083-8791(18)30887-5. PMID: 30572108.
Prenner EJ	Metabolic Control of Cytosolic-Facing Pools of Diacylglycerol in Budding Yeast.	Traffic. 2018 Dec. doi: 10.1111/tra.12632. PMID: 30569465.
Thakor N	Eukaryotic Initiation Factor 5B (eIF5B) cooperates with eIF1A and eIF5 to Facilitate uORF2-Mediated Repression of ATF4 Translation.	Int J Mol Sci. 2018 Dec 13;19(12). pii: E4032. PMID: 30551605.
Sinclair G	Atypical cerebral palsy: genomics analysis enables precision medicine.	Genet Med. 2018 Dec. PMID: 30542205.
Mahé ER	CapTCR-seq: hybrid capture for T-cell receptor repertoire profiling.	Blood Adv. 2018 Dec; 2(23): 3506-14. PMID: 30530777.
Mahé E Khan F Sinclair G	JAK2-tree: a simple CBC-based decision rule to guide appropriate JAK2 V617F mutation testing.	J Clin Pathol. 2018 Dec 4. PMID: 30514740.
Amrein M	Pseudomonas aeruginosa quorum-sensing metabolite induces host immune cell death through cell surface lipid domain dissolution.	Nat Microbiol. 2019 Jan; 4(1): 97-111. doi: 10.1038/s41564-018-0290-8. PMID: 30510173.
Zhang Q	Fast, Memory-Efficient Factorization of Prohibitively Large Relationship Matrices.	G3 (Bethesda). 2018 Nov 27. PMID: 30482799.
Zheng XL	Nobiletin reduces LPL-mediated lipid accumulation and pro-inflammatory cytokine secretion through upregulation of miR-590 expression.	Biochem Biophys Res Commun. 2018 Nov 21. PMID: 30471854.
Gallo M	DNA hypermethylation within TERT promoter upregulates TERT expression in cancer.	J Clin Invest. 2018 Dec 3. pii: 121303. PMID: 30358567.
Moorhead G	A Quantitative Chemical Proteomic Strategy for Profiling Phosphoprotein Phosphatases from Yeast to Humans.	Mol Cell Proteomics. 2018 Dec;17(12):2448-2461. PMCID: PMC6283287.
Rancourt D	Concise Review: Molecular Cytogenetics and Quality Control: Clinical Guardians for Pluripotent Stem Cells.	Stem Cells Transl Med. 2018 Dec;7(12):867-875. PMCID: PMC6265634.
Sinclair G	Pyruvate Carboxylase Deficiency Type C: A Rare Cause of Acute Transient Flaccid Paralysis with Ketoacidosis.	Neuropediatrics. 2018 Dec;49(6):369-372. PMID: 30045381.

Clinical studies

Institute Authors	Article Title	Journal
Narendran A Anderson R	Targeting the Proteasome in Refractory Pediatric Leukemia Cells: Characterization of Effective Cytotoxicity of Carfilzomib.	Target Oncol. 2018 Nov 16. PMID: 30446871.
Balogh A	Definitive radiotherapy for localized follicular lymphoma staged by (18)F-FDG PET-CT: a collaborative study by ILROG.	Blood. 2018 Nov 16. pii: blood-2018-04-843540. PMID: 30446493.
Nelson G	Review of Enhanced Recovery after Surgery Principles Used for Scheduled CD: Perioperative Process Evaluation.	J Obstet Gynaecol Can. 2018 Nov 12. pii: S1701-2163(18)30516-4. PMID: 30442516.
Carlson L	The Role of Hypnosis in Cancer Care.	Curr Oncol Rep. 2018 Nov 13;20(12):93. PMID: 30421307.
Morris D Monument M	Surgical excision versus observation as initial management of desmoid tumors: A population based study.	Eur J Surg Oncol. 2018 Oct 25. pii: S0748-7983(18)31434-3. PMID: 30420189.
Daly A	Myeloablative vs reduced-intensity conditioning allogeneic hematopoietic cell transplantation for chronic myeloid leukemia.	Blood Adv. 2018 Nov 13;2(21):2922-2936. PMID: PMC6234373.
Anderson R	Optimal training frequency for acquisition and retention of high-quality CPR skills: A randomized trial.	Resuscitation. 2018 Oct 31. pii: S0300-9572(18)31068-2. PMID: 30391370.
Naugler C	Incidence of chronic myeloid leukemia in Calgary, Alberta, Canada.	BMC Res Notes. 2018 Nov 1;11(1):780. PMID: PMC6211485.
Daly A	Bacterial blood stream infections (BSIs), particularly post-engraftment BSIs, are associated with increased mortality after allogeneic hematopoietic cell transplantation.	Bone Marrow Transplant. 2018 Dec 13. doi: 10.1038/s41409-018-0401-4. [Epub ahead of print] PubMed PMID: 30546070.
Bismar TA	Validation of the Decipher Test for predicting adverse pathology in candidates for prostate cancer active surveillance.	Prostate Cancer Prostatic Dis. 2018 Dec 12. PMID: 30542054.
Owen C	Fixed Duration of Venetoclax-Rituximab in Relapsed/Refractory Chronic Lymphocytic Leukemia Eradicates Minimal Residual Disease and Prolongs Survival.	J Clin Oncol. 2018 Dec 3;JCO1801580. [Epub ahead of print] PubMed PMID: 30523712.
Nelson G	Creation of an Enhanced Recovery After Surgery Guideline for neonatal intestinal surgery patients: a knowledge synthesis and consensus generation approach and protocol study.	BMJ Open. 2018 Dec 9;8(12):e023651. doi: 10.1136/bmjopen-2018-023651. PubMed PMID: 30530586.
Walker L Robinson J	Canadian consensus algorithm for erectile re-habilitation following prostate cancer treatment.	Can Urol Assoc J. 2018 Dec 3. PMID: 30526799.
Owen C	Ibrutinib Regimens versus Chemoimmunotherapy in Older Patients with Untreated CLL.	N Engl J Med. 2018 Dec 1. PMID: 30501481.
Schulte F	Executive functions and social skills in pediatric brain tumor survivors.	Appl Neuropsychol Child. 2018 Nov 30;1-9. PMID: 30501139.
Dickinson J	Performance of Stool Testing Recommendations for Acute Gastroenteritis when Used to Identify Children with Nine Potential Bacterial Enteropathogens.	Clin Infect Dis. 2018 Dec 4. doi: 10.1093/cid/ciy1021. [Epub ahead of print] PubMed PMID: 30517612.
Hilsden R	Prediction of findings at screening colonoscopy using a machine learning algorithm based on complete blood counts (ColonFlag).	PLoS One. 2018 Nov 27;13(11):e0207848. PMID: PMC6258529.
Trpkov K	Dataset for the reporting of prostate carcinoma in core needle biopsy and transurethral resection and enucleation specimens: recommendations from the International Collaboration on Cancer Reporting (ICCR).	Pathology. 2018 Nov 23. pii: S0031-3025(18)30481-1. doi: 10.1016/j.pathol.2018.10.003. [Epub ahead of print] PubMed PMID: 30477882.
Fear EC	Conformal and Disposable Antenna-Based Sensor for Non-Invasive Sweat Monitoring.	Sensors (Basel). 2018 Nov 22; 18(12). PMID: 30469510.

Clinical studies (continued)

Institute Authors	Article Title	Journal
Heng D	Prognostication in Kidney Cancer: Recent Advances and Future Directions.	J Clin Oncol. 2018 Oct 29;JCO2018790147. PMID: 30372388.
Sutherland G	Challenges in developing a magnetic resonance-compatible haptic hand-controller for neurosurgical training.	Proc Inst Mech Eng H. 2018 Oct 24;954411918806934. PMID: 30355029.
Bahlis N Neri P	Selinexor plus low-dose bortezomib and dexamethasone for patients with relapsed or refractory multiple myeloma.	Blood. 2018 Oct 23. pii: blood-2018-06-858852. PMID: 30352784.
Heng D	Safety and efficacy of nivolumab in combination with sunitinib or pazopanib in advanced or metastatic renal cell carcinoma: the CheckMate 016 study.	J Immunother Cancer. 2018 Oct 22;6(1):109. PMID: PMC6196426.
Verma S	Overall Survival with Palbociclib and Fulvestrant in Advanced Breast Cancer.	N Engl J Med. 2018;379 (20): 1926-36. PMID: 30345905.
Heng D	Active Smoking Is Associated With Worse Prognosis in Metastatic Renal Cell Carcinoma Patients Treated With Targeted Therapies.	Clin Genitourin Cancer. 2018 Sep 12. pii: S1558-7673(18)30506-8. PMID: 30341028.
Hao D	Sequential treatment with afatinib and osimertinib in patients with EGFR mutation-positive non-small-cell lung cancer: an observational study.	Future Oncol. 2018 Nov;14(27):2861-2874. PMID: 30336693.
Duggan M Chu P Nation J Nelson G Ghatage P	Impact of Gynaecological Tumour Board Rounds on Patient Care.	J Obstet Gynaecol Can. 2018 Nov 2. pii: S1701-2163(18)30464-X. PMID: 30393059.
Naugler C	Chronic kidney disease in type 2 diabetes: Does an abnormal urine albumin-to-creatinine ratio need to be retested?	Can Fam Physician. 2018 Oct;64(10):e446-e452. PMID: 30315036
Brenn T	Melanocytic lesions - Staying out of trouble.	Ann Diagn Pathol. 2018 Sep 27;37:91-102. PMID: 30312883.
Owen C	Prognostic value of end-of-induction PET response after first-line immunochemotherapy for follicular lymphoma: secondary analysis of a randomised, phase 3 trial.	Lancet Oncol. 2018 Oct 8. PMID: 30309758.
Heng D	Checkpoint inhibitors in patients with metastatic renal cell carcinoma: Results from the International Metastatic Renal Cell Carcinoma Database Consortium.	Cancer. 2018 Sep 15;124(18):3677-3683. PMID: 30307610.
Trpkov K Gotto G Donnelly B Shea-Budgell M	Gleason Grading: Clear and Straightforward Rules Facilitate Judgment.	Am J Surg Pathol. 2018 Oct 8. PMID: 30300146.
deGroot J	How clinicians integrate humanism in their clinical workplace-'Just trying to put myself in their human being shoes'.	Perspect Med Educ. 2018 Oct;7(5):318-324. PMID: PMC6191400.
Truong T Strother D	Enrollment on clinical trials does not improve survival for children with acute myeloid leukemia: A population-based study.	Cancer. 2018 Oct 15;124(20):4098-4106. PMID: 30291800.
Verma S	Multisite stereotactic body radiotherapy for metastatic non-small-cell lung cancer: Delaying the need to start or change systemic therapy?	Lung Cancer. 2018 Oct;124:219-226. PMID: 30268464.
Tremblay A	A Noisy Flow Volume Loop.	Am J Respir Crit Care Med. 2018 Sep. PMID: 30265128.
Lewis V	Impact of vertebral fractures and glucocorticoid exposure on height deficits in children during treatment for leukemia.	J Clin Endocrinol Metab. 2018 Sep 20. PMID: 30247635.

Clinical studies (continued)

Institute Authors	Article Title	Journal
Carlson L	Integrative Oncology Trials in the Real World: Assessing the Pragmatism of an Ongoing Integrative Oncology Trial of Mindfulness and T'ai Chi/Qigong.	J Altern Complement Med. 2018 Sep/Oct;24(9-10):926-932. PMID: 30247962.
Bathe O Sutherland F Dixon E	Acute kidney injury following resection of hepatocellular carcinoma: prognostic value of the acute kidney injury network criteria.	Can J Surg. 2018 Oct 1;61(5):E11-E16. PMID: PMC6153104.
Neri P	CRISPRing the CRL4(CRBN) RING in multiple myeloma.	Blood. 2018 Sep 20;132(12):1219-20. PMID: 30237253.
Tremblay A	19-G EBUS: Why, When, and How?	J Bronchology Interv Pulmonol. 2018 Oct;25(4):257-259. PMID: 30247291.
Nelson G	Guidelines for Antenatal and Preoperative care in Cesarean Delivery: Enhanced Recovery After Surgery (ERAS) Society Recommendations (Part 1).	Am J Obstet Gynecol. 2018 Sep 18. pii: S0002-9378(18)30763-4. PMID: 30240657.
Bahlis N	Daratumumab plus lenalidomide & dexamethasone versus lenalidomide and dexamethasone in relapsed or refractory multiple myeloma: updated analysis of POLLUX.	Haematologica. 2018 Sep 20. PMID: 30237262.
Trpkov K	"High-grade oncocytic renal tumor": morphologic, immunohistochemical, and molecular genetic study of 14 cases.	Virchows Arch. 2018 Sep 19. PMID: 30232607.
Hamilton M	Management of Venous Sinus Thrombosis.	Neurosurg Clin N Am. 2018 Oct;29(4):585-594. PMID: 30223971.
Strother D	Early changes in white matter predict intellectual outcome in children treated for posterior fossa tumors.	Neuroimage Clin. 2018 Sep 6;20:697-704. PMID: PMC6139996.
Dixon E	Surgical Transgastric Necrosectomy for Necrotizing Pancreatitis: A Single-stage Procedure for Walled-off Pancreatic Necrosis.	Ann Surg. 2018 Sep 13. PMID: 30216220.
Sinclair S	Assessing the credibility and transferability of the patient compassion model in non-cancer palliative populations.	BMC Palliat Care. 2018 Sep 13;17(1):108. PMID: PMC6137734.
Smith W	Framework for the quantitative assessment of adaptive radiation therapy protocols.	J Appl Clin Med Phys. 2018 Nov;19(6):26-34. PMID: 30160025.
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