

## UAlberta Professors eligible for supervision of doctoral students

### Basic Research Departments\*

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[Laboratory Medicine & Pathology](#)  
[Medical Genetics](#)

\* Nearly all faculty members from these departments are eligible for supervision of PhD students.

### Department of Pediatrics

Last Name	First Name	Research Interest	Research Pillar	Email Address
Adatia	Ian	Cardiology	Clinical	<a href="mailto:iadatia@ualberta.ca">iadatia@ualberta.ca</a>
Alexander	Todd	Nephrology	Basic	<a href="mailto:todd.alexander@albertahealthservices.ca">todd.alexander@albertahealthservices.ca</a>
Baksh	Shairaz	Cancer/Immunology	Basic	<a href="mailto:sbaksh@ualberta.ca">sbaksh@ualberta.ca</a>
Ball	Geoff	Obesity	Clinical/Population	<a href="mailto:geoffball@med.ualberta.ca">geoffball@med.ualberta.ca</a>
Baydala	Lola	Aboriginal Health	Population	<a href="mailto:Lola.Baydala@albertahealthservices.ca">Lola.Baydala@albertahealthservices.ca</a>
Bolduc	Francois	Neurosciences	Basic	<a href="mailto:fbolduc@ualberta.ca">fbolduc@ualberta.ca</a>
Cheung	Po-Yin	Neonatology	Basic/Clinical	<a href="mailto:poyin@ualberta.ca">poyin@ualberta.ca</a>
Dyck	Jason	Cardiac Sciences	Basic	<a href="mailto:Jason.Dyck@ualberta.ca">Jason.Dyck@ualberta.ca</a>
Hartling	Lisa	Pediatrics	Population	<a href="mailto:lisa.hartling@ualberta.ca">lisa.hartling@ualberta.ca</a>
Hornberger	Lisa	Cardiology	Clinical	<a href="mailto:lisa.hornberger@albertahealthservices.ca">lisa.hornberger@albertahealthservices.ca</a>
Joffe	Ari	Critical Care	Clinical	<a href="mailto:ari.joffe@albertahealthservices.ca">ari.joffe@albertahealthservices.ca</a>
Kozvrskyj	Anita	Health Systems	Population	<a href="mailto:kozvrskyj@ualberta.ca">kozvrskyj@ualberta.ca</a>
Lehner	Richard	Obesity	Basic/Clinical	<a href="mailto:richard.lehner@ualberta.ca">richard.lehner@ualberta.ca</a>
Li	Jia	Cardiac Sciences	Basic/Clinical	<a href="mailto:jia.li@albertahealthservices.ca">jia.li@albertahealthservices.ca</a>
Lopaschuk	Gary	Cardiac Sciences	Basic/Clinical	<a href="mailto:gary.lopaschuk@ualberta.ca">gary.lopaschuk@ualberta.ca</a>
Mandhane	Piush	Pulmonology	Clinical	<a href="mailto:Piush.Mandhane@albertahealthservices.ca">Piush.Mandhane@albertahealthservices.ca</a>
Massicotte	Patti	Thrombosis	Clinical	<a href="mailto:Patti.Massicotte@albertahealthservices.ca">Patti.Massicotte@albertahealthservices.ca</a>
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Newton	Mandi	Psychology	Population	<a href="mailto:Mandi.Newton@ualberta.ca">Mandi.Newton@ualberta.ca</a>
Osornio	Alvaro	Epidemiology	Clinical	<a href="mailto:osornio@ualberta.ca">osornio@ualberta.ca</a>
Vargas				
Persad	Sujata	Oncology/Gastroenterology	Basic	<a href="mailto:Sujata.Persad@med.ualberta.ca">Sujata.Persad@med.ualberta.ca</a>
Rasmussen	Carmen	Neurology	Clinical	<a href="mailto:carmen@ualberta.ca">carmen@ualberta.ca</a>
Rosychuk	Rhonda J.	Diagnostic Medicine	Population	<a href="mailto:rhonda.rosychuk@ualberta.ca">rhonda.rosychuk@ualberta.ca</a>
Schulz	Richard	Cardiac Sciences	Basic	<a href="mailto:richard.schulz@ualberta.ca">richard.schulz@ualberta.ca</a>
Smallhorn	Jeffrey	Cardiology	Clinical	<a href="mailto:jeffrey.smallhorn@albertahealthservices.ca">jeffrey.smallhorn@albertahealthservices.ca</a>
Thebaud	Bernard	Neonatology	Basic/Clinical	<a href="mailto:bthebaud@ualberta.ca">bthebaud@ualberta.ca</a>
Turner	Justine	Gastroenterology	Basic/Clinical	<a href="mailto:Justine.Turner@albertahealthservices.ca">Justine.Turner@albertahealthservices.ca</a>
Vohra	Sunita	Complimentary and Alternative Medicine	Clinical	<a href="mailto:svohra@ualberta.ca">svohra@ualberta.ca</a>
West	Lori	Cardiology	Basic/Clinical	<a href="mailto:iwest@ualberta.ca">iwest@ualberta.ca</a>

Wine	Eytan	Gastroenterology	Basic	<a href="mailto:wine@ualberta.ca">wine@ualberta.ca</a>
Yager	Jerome	Neurology	Basic/Clinical	<a href="mailto:jeromeyager@mac.com">jeromeyager@mac.com</a>
Zhang	Dawei	Cardiac Sciences	Basic	<a href="mailto:dzhang@ualberta.ca">dzhang@ualberta.ca</a>
Zwaigenbaum	Lonnie	Autism	Clinical	<a href="mailto:lonnie.zwaigenbaum@albertahealthservices.ca">lonnie.zwaigenbaum@albertahealthservices.ca</a>

## Department of Oncology

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Baracos	Vickie	Skeletal muscle atrophy in cancer associated cachexia		<a href="mailto:Vickie.Baracos2@albertahealthservices.ca">Vickie.Baracos2@albertahealthservices.ca</a>
Chan	Gordon	Chromosome segregation, kinetochore structure and assembly, mitotic checkpoint control, and chromosome cohesion		<a href="mailto:Gordon.Chan@albertahealthservices.ca">Gordon.Chan@albertahealthservices.ca</a>
DeZanche	Nicola	Advanced MRI techniques for MR-guided radiation treatment; high-density receiver coil arrays for MRI; magnetic field monitoring for MRI		<a href="mailto:Nicola.DeZanche@albertahealthservices.ca">Nicola.DeZanche@albertahealthservices.ca</a>
Fallone	Gino	Integration of a Linac with an MRI System for Real-Time Image-Guided Radiotherapy.		<a href="mailto:Gino.Fallone@albertahealthservices.ca">Gino.Fallone@albertahealthservices.ca</a>
Fassbender	Konrad	Effects of health reform and technological change on health and economic outcomes of dying patients and their families		<a href="mailto:konrad.fassbender@ualberta.ca">konrad.fassbender@ualberta.ca</a>
Fu	YangXin	Signaling pathways and gene regulation in ovarian cancer and therapeutics		<a href="mailto:yangxin@ualberta.ca">yangxin@ualberta.ca</a>
Godbout	Roseline	Characterization of genes expressed in developing retina and in retinoblastoma; gene regulation mechanisms in brain tumours		<a href="mailto:rgodbout@ualberta.ca">rgodbout@ualberta.ca</a>
Henzel	Michael	Nuclear compartments; the DNA damage response and chromatin-based epigenetic mechanisms		<a href="mailto:Michael.Henzel@albertahealthservices.ca">Michael.Henzel@albertahealthservices.ca</a>
Hitt	Mary	Oncolytic viruses, adenovirus replication, gene regulation, RNA interference, and gene therapy		<a href="mailto:Mary.Hitt@albertahealthservices.ca">Mary.Hitt@albertahealthservices.ca</a>
Jans	Hans-Sonke	Multimodality imaging; quantitative imaging		<a href="mailto:Hans-Sonke.Jans@albertahealthservices.ca">Hans-Sonke.Jans@albertahealthservices.ca</a>
Kumar	Piyush	Chemistry, radiochemistry and pre-clinical evaluations of novel molecules for the theranostic (diagnosis + therapy) management of hypoxic tumors in cancer diseases and their		<a href="mailto:Piyush.Kumar@albertahealthservices.ca">Piyush.Kumar@albertahealthservices.ca</a>
Lewis	John	Non-invasive imaging and targeting of angiogenesis and metastasis using nanoparticles		<a href="mailto:John.Lewis@lhsc.on.ca">John.Lewis@lhsc.on.ca</a>
Mackenzie	Marc	Radiation dosimetry; Monte Carlo methods; intensity modulation radiation therapy and inverse planning; helical tomotherapy		<a href="mailto:Marc.Mackenzie@albertahealthservices.ca">Marc.Mackenzie@albertahealthservices.ca</a>
Mcewan	Sandy	Functional imaging in cancer		<a href="mailto:Sandy.Mcewan@albertahealthservices.ca">Sandy.Mcewan@albertahealthservices.ca</a>
Mercer	John	Probing cellular responses to chemotherapy and radiotherapy using molecular imaging agents		<a href="mailto:John.Mercer@albertahealthservices.ca">John.Mercer@albertahealthservices.ca</a>
Murray	David	DNA repair in the response to anti-cancer agents; prediction of patient responses to therapy		<a href="mailto:David.Murray5@albertahealthservices.ca">David.Murray5@albertahealthservices.ca</a>
Nekolaichuk	Cheryl	Psychosocial issues in cancer and palliative care, psychosocial aspects of pain; measurement issues in advanced cancer and palliative care		<a href="mailto:cheryl.nekolaichuk@ualberta.ca">cheryl.nekolaichuk@ualberta.ca</a>
Pilarski	Linda	a focus on B lineage malignancies and on adapting clinically important cancer and biomedical testing to nanotechnology platforms for use in the clinic		<a href="mailto:Linda.Pilarski@albertahealthservices.ca">Linda.Pilarski@albertahealthservices.ca</a>
Rathee	Satyapal	Imaging for guiding the fractionated radiotherapy; integrating MRI with a linear accelerator		<a href="mailto:Satyapal.Rathee@albertahealthservices.ca">Satyapal.Rathee@albertahealthservices.ca</a>
Riauka	Terence	Incorporation of functional and biological image data in external radiotherapy planning; development of a 3D Radionuclide Dosimetry program; assessment of novel radionuclide for PET imaging		<a href="mailto:Terence.Riauka@albertahealthservices.ca">Terence.Riauka@albertahealthservices.ca</a>
Robinson	Don	Multi-modality Image registration and fusion, motion induced image artifacts, intensity modulated radiotherapy, conformal radiotherapy, dosimetry, radiobiological dose response modeling, inverse treatment planning and plan optimization		<a href="mailto:Don.Robinson2@albertahealthservices.ca">Don.Robinson2@albertahealthservices.ca</a>

Shaw	Andrew	New roles for inflammatory signaling molecules in the nucleus		<a href="mailto:Andrew.Shaw@albertahealthservices.ca">Andrew.Shaw@albertahealthservices.ca</a>
Sloboda	Ron	Source dosimetry and treatment planning for brachytherapy, and the development of portal dosimetry using EPIDs for external beam treatment verification		<a href="mailto:Ron.Sloboda@albertahealthservices.ca">Ron.Sloboda@albertahealthservices.ca</a>
Steciw	Stephen	MR-Linac: Magnetic Interference; EPID Modeling and dosimetry		<a href="mailto:Stephen.Steciw@albertahealthservices.ca">Stephen.Steciw@albertahealthservices.ca</a>
Tuszynski	Jack	Computational biophysics, rational drug design, pharmacokinetics		<a href="mailto:Jack.Tuszynski@albertahealthservices.ca">Jack.Tuszynski@albertahealthservices.ca</a>
Underhill	Alan	Transcription factors in melanoma; gene regulation in development and disease		<a href="mailto:alan.underhill@ualberta.ca">alan.underhill@ualberta.ca</a>
Warkentin	Brad	Synchrotron-based Radiotherapy applications: Microbeam radiotherapy; MR-LINAC: Monte Carlo dosimetry; radiobiological modeling		<a href="mailto:Brad.Warkentin@albertahealthservices.ca">Brad.Warkentin@albertahealthservices.ca</a>
Weinfeld	Michael	Detection and repair of DNA damage		<a href="mailto:Michael.Weinfeld@albertahealthservices.ca">Michael.Weinfeld@albertahealthservices.ca</a>
Wuest	Frank	Probe development for molecular imaging of cancer		<a href="mailto:Frank.Wuest@albertahealthservices.ca">Frank.Wuest@albertahealthservices.ca</a>
Yahya	Atiyah	Magnetic resonance spectroscopy (MRS)		<a href="mailto:Atiyah.Yahya@albertahealthservices.ca">Atiyah.Yahya@albertahealthservices.ca</a>

## Department of Ophthalmology

Last Name	First Name	Research Interest	Research Pillar	Email Address
Lehmann	Ordan	glaucoma genetics and pathological retina development	Basic/Clinical	<a href="mailto:olehmann@ualberta.ca">olehmann@ualberta.ca</a>
MacDonald	Ian	genetics of retina disorders	Basic/Clinical	<a href="mailto:macdonal@ualberta.ca">macdonal@ualberta.ca</a>
Sauve	Yves	retina electrophysiology and anatomy in humans and animal models of retina pathologies	Basic/Clinical	<a href="mailto:ysauve@ualberta.ca">ysauve@ualberta.ca</a>

## Department of Medicine

Last Name	First Name	Research Interest	Research Pillar	Email Address
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Becher	Harald	Cardiology	Clinical	<a href="mailto:harald@ualberta.ca">harald@ualberta.ca</a>
Braam	Branko	Nephrology	Basic/Clinical	<a href="mailto:branko.braam@ualberta.ca">branko.braam@ualberta.ca</a>
Broadhurst	David	General Internal Medicine	Basic/Clinical	<a href="mailto:dbroadhu@ualberta.ca">dbroadhu@ualberta.ca</a>
Cameron	Lisa	Pulmonary	Basic/Clinical	<a href="mailto:lisa.cameron@ualberta.ca">lisa.cameron@ualberta.ca</a>
Davoine,	Francis	Public Health	Population	<a href="mailto:fdavoine@ualberta.ca">fdavoine@ualberta.ca</a>
Ezekowitz	Justin	Cardiology	2,3,4	<a href="mailto:justin.ezekowitz@ualberta.ca">justin.ezekowitz@ualberta.ca</a>
Fedorak	Richard	Gastroenterology	Basic/Clinical	<a href="mailto:richard.fedorak@ualberta.ca">richard.fedorak@ualberta.ca</a>
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Jacobs	Phillip	Gastroenterology	Population	<a href="mailto:piacobs@ualberta.ca">piacobs@ualberta.ca</a>
Jahroudi	Nadia	Nephrology	Basic	<a href="mailto:nadia.jahroudi@ualberta.ca">nadia.jahroudi@ualberta.ca</a>
Kar	Satyabrata	Neurology	Basic	<a href="mailto:skar@ualberta.ca">skar@ualberta.ca</a>
Kaul	Padma	Cardiology	Population	<a href="mailto:padma.kaul@ualberta.ca">padma.kaul@ualberta.ca</a>
Klarenbach	Scott	Nephrology	Population	<a href="mailto:scott.klarenbach@ualberta.ca">scott.klarenbach@ualberta.ca</a>
Kroeker	Karen	Gastroenterology	Clinical	<a href="mailto:karen.kroeker@ualberta.ca">karen.kroeker@ualberta.ca</a>
Kumar	Deepali	Infectious Diseases	Basic/Clinical	<a href="mailto:deepali.kumar@ualberta.ca">deepali.kumar@ualberta.ca</a>
Lacy	Paige	Pulmonary	Basic	<a href="mailto:paige.lacy@ualberta.ca">paige.lacy@ualberta.ca</a>
Long	Richard	Pulmonary	4	<a href="mailto:richard.long@ualberta.ca">richard.long@ualberta.ca</a>
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Martin	Wayne	Neurology	Clinical/Population	<a href="mailto:wayne.martin@ualberta.ca">wayne.martin@ualberta.ca</a>
Mason	Andrew	Gastroenterology	Basic/Clinical	<a href="mailto:andy.mason@ualberta.ca">andy.mason@ualberta.ca</a>
McAlister	Finlay	General Internal Medicine	3,4	<a href="mailto:finlav.mcalister@ualberta.ca">finlav.mcalister@ualberta.ca</a>
McMurtry	Sean	Cardiology	Clinical	<a href="mailto:mcmurtry@ualberta.ca">mcmurtry@ualberta.ca</a>
Michelakis	Evangelos	Cardiology	Basic/Clinical	<a href="mailto:evangelos.michelakis@albertahealthservices.ca">evangelos.michelakis@albertahealthservices.ca</a>
Murray	Allan	Nephrology	Basic/Clinical	<a href="mailto:allan.murray@ualberta.ca">allan.murray@ualberta.ca</a>
Oudit	Gavin	Cardiology	Basic/Clinical	<a href="mailto:gavin.udit@ualberta.ca">gavin.udit@ualberta.ca</a>
Padwal	Raj	General Internal Medicine	3,4	<a href="mailto:rpadwal@ualberta.ca">rpadwal@ualberta.ca</a>
Power	Chris	Neurology	Basic/Clinical	<a href="mailto:chris.power@ualberta.ca">chris.power@ualberta.ca</a>
Shuaib	Ashfaq	Neurology	Basic/Clinical	<a href="mailto:ashfaq.shuaib@ualberta.ca">ashfaq.shuaib@ualberta.ca</a>

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Tonnelli	Marcello	Nephrology	3,4	<a href="mailto:mtonelli-admin@med.ualberta.ca">mtonelli-admin@med.ualberta.ca</a>
Toth	Ellen	Endocrinology	Basic/Clinical	<a href="mailto:ellen.toth@ualberta.ca">ellen.toth@ualberta.ca</a>
Tsuyuki	Ross	Cardiology	Population	<a href="mailto:ross.tsuyuki@ualberta.ca">ross.tsuyuki@ualberta.ca</a>
Vliagoftis	Harrisios	Pulmonary	Basic/Clinical	<a href="mailto:hari@ualberta.ca">hari@ualberta.ca</a>
Westaway	David	Neurology	Basic	<a href="mailto:david.westaway@ualberta.ca">david.westaway@ualberta.ca</a>
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## Department of Surgery

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Agrawal	Babita	T cell responses and their regulation in context of cancer and viral infections		<a href="mailto:bagrawal@ualberta.ca">bagrawal@ualberta.ca</a>
Anderson	Colin	Immune tolerance of self antigens vs "nonself" antigens		<a href="mailto:colinand@ualberta.ca">colinand@ualberta.ca</a>
Bedard	Eric	Minimally invasive pulmonary and esophageal surgery		<a href="mailto:elbedard@gmail.com">elbedard@gmail.com</a>
Berry	Fred	Genetic networks that regulate the correct formation of the axial skeleton		<a href="mailto:fberry@ualberta.ca">fberry@ualberta.ca</a>
Bigam	David	Neonatal physiology, abdominal organ transplantation and hepatopancreaticobiliary oncology		<a href="mailto:dbigam@ualberta.ca">dbigam@ualberta.ca</a>
Birch	Daniel	Minimally invasive gastrointestinal surgery		<a href="mailto:dbirch@ualberta.ca">dbirch@ualberta.ca</a>
Churchill	Tom	Metabolism of tissues and organs during exposure to hypothermia and ischemia/reperfusion		<a href="mailto:tchurch@ualberta.ca">tchurch@ualberta.ca</a>
El-Hakim	Hamdy	Sleep disordered breathing in children; Laryngeal paralysis and Impaired salivary control		<a href="mailto:hamdy.elhakim@albertahealthservices.ca">hamdy.elhakim@albertahealthservices.ca</a>
Jomha	Nadr	Cryopreservation of AC for transplantation; Repair, regeneration and transplantation of articular cartilage		<a href="mailto:njomha@ualberta.ca">njomha@ualberta.ca</a>
Khadaroo	Rachel	Intestinal Ischemia/Reperfusion injury; sepsis; multiple organ dysfunction		<a href="mailto:khadaroor@gmail.com">khadaroor@gmail.com</a>
Kneteman	Norman	Liver transplantation in the treatment of HCC and development and evaluation of therapy for hepatitis C in a laboratory model		<a href="mailto:kneteman@ualberta.ca">kneteman@ualberta.ca</a>
Korbutt	Greg	Co-transplantation of islets		<a href="mailto:korbutt@ualberta.ca">korbutt@ualberta.ca</a>
McMullen	Todd	Developing diagnostic biomarkers and establishing therapeutic targets for metastatic papillary thyroid cancer		<a href="mailto:todd.mcmullen@ualberta.ca">todd.mcmullen@ualberta.ca</a>
Metcalfe	Peter	The development of a laboratory model of partial bladder outlet obstruction		<a href="mailto:pmetcalf@ualberta.ca">pmetcalf@ualberta.ca</a>
Meyer	Steven	Transplant immunology and clinical outcomes		<a href="mailto:srmeyer@ualberta.ca">srmeyer@ualberta.ca</a>
Moore	Ronald	Novel modalities/therapeutics for treating urinary tract cancers		<a href="mailto:ronald.moore@ualberta.ca">ronald.moore@ualberta.ca</a>
Nagendran	Jayan	Chronic rejection in cardiac and thoracic allografts		<a href="mailto:javan@ualberta.ca">javan@ualberta.ca</a>
Pugh	Jeffery	Treatment of complicated hydrocephalus		<a href="mailto:jpugh@ualberta.ca">jpugh@ualberta.ca</a>
Rayat	Gina	Islet xenotransplantation		<a href="mailto:gravat@ualberta.ca">gravat@ualberta.ca</a>
Seikaly	Hadi	Functional surgical and reconstructive outcomes, microvascular head and neck reconstruction, submandibular gland transfer and medical modeling as it applies to the head and neck region		<a href="mailto:hadi.seikaly@albertahealthservices.ca">hadi.seikaly@albertahealthservices.ca</a>
Shapiro	James	islet survival by switching off apoptosis pathways to induce immunological tolerance; islet implantation and insulin-producing stem cells to reverse diabetes in experimental models		<a href="mailto:amis@islet.ca">amis@islet.ca</a>
Tredget	Ted	Development of skin substitute for burn treatment		<a href="mailto:etredget@ualberta.ca">etredget@ualberta.ca</a>
White	Jonathan	Professional identity in medical education; use of qualitative methods to explore surgical practice; evaluation of teaching approaches in surgery is taught ; role of online education; transformational leadership in medical education		<a href="mailto:jswhite1@ualberta.ca">jswhite1@ualberta.ca</a>
Wolfaardt	John	Maxillofacial prosthetics with emphasis in the area of head and neck reconstruction, osseointegration and treatment outcomes		<a href="mailto:joan.wolfaardt@albertahealthservices.ca">joan.wolfaardt@albertahealthservices.ca</a>
Zheng	Bin	Surgical simulation; image-guided surgery; human factors in surgery		<a href="mailto:bin.zheng@ualberta.ca">bin.zheng@ualberta.ca</a>