

# 2016 Research Day Program Guide

November 16, 2016 | Westin Hotel

The Power of Partnership



# Acknowledgements

## Thank you

The Women and Children's Health Research Institute (WCHRI) is a partnership between the University of Alberta and Alberta Health Services and is generously supported by the Stollery Children's Hospital Foundation and donors to the Lois Hole Hospital for Women. The Faculty of Medicine & Dentistry provides operating and in-kind support.

### The University of Alberta and the Faculty of Medicine & Dentistry



The University of Alberta strives to create and promote an environment of research excellence across the university to fuel knowledge advancement, discovery and innovation; all of which provide significant contributions to society provincially, nationally and globally. The University of Alberta's Faculty of Medicine & Dentistry (FoMD) is home to many of WCHRI's core groups and entire administrative staff. Its continued and generous support makes possible the training of our future scientists and physicians. The FoMD also provides partial funding for WCHRI's operating expenses, without which WCHRI would not be able to manage its many grants programs and research support initiatives.

### Alberta Health Services



Alberta Health Services (AHS) is a strong and active supporter of WCHRI. Their guidance has been invaluable in ensuring that women and children's health and AHS standards in the delivery of clinical care, wellness and prevention, remain a focus of WCHRI's mandate.

### The Royal Alexandra Hospital Foundation and the Lois Hole Hospital for Women



The Royal Alexandra Hospital Foundation (RAHF) advances healthcare for all Albertans through support of the Royal Alexandra Hospital and its medical centres of excellence. This includes the Lois Hole Hospital for Women, where donor dollars provide advanced technologies, facility enhancements and exciting new opportunities for research in women's health. In 2016 the Royal Alexandra Hospital Foundation renewed its commitment to the Women and Children's Health Research Institute (WCHRI) for another ten years, extending their contributions into 2025. This funding will build upon the foundation's initial investment of \$11 million by providing an additional \$14.5 million to WCHRI in support of women's health research.

### The Stollery Children's Hospital Foundation



The Stollery Children's Hospital Foundation raises funds to build the Stollery Children's Hospital into the best children's health-care delivery, research and teaching institution in the world. The Foundation recognizes the tremendous impact pediatric research has on disease prevention, treatment and improved health outcomes for children. In 2016, the Foundation committed \$40 million over ten years – the largest donation in the University of Alberta's history – to support WCHRI, bringing its total committed support to \$70 million since 2006.

# Contents

Director's message .....	4
WCHRI overview .....	5
Venue map .....	6
Program at a glance .....	7
Detailed program .....	8
• Workshops .....	8
• Oral presentations – morning .....	13
• Poster presentations – morning .....	18
• Reflecting on 10-years of research excellence .....	22
• Keynote speaker .....	23
• Oral presentations – afternoon .....	24
• Poster presentations – afternoon .....	29
List of presenters .....	33

# Director's message

This year's Research Day is a particularly special occasion for WCHRI – not only showcasing the incredible work of aspiring researchers, but also celebrating a historic year.

In June, we were honoured to announce that over the next ten years, WCHRI will receive \$40 million from the Stollery Children's Hospital Foundation and \$14.5 million from supporters of the Lois Hole Hospital for Women – the largest gift in the University of Alberta's history. This gift is a testament to the value of WCHRI, our members' research and the power of partnerships. The funds will help us support these ambitious trainees, who are demonstrating their efforts throughout the day. This year, for our ninth annual Research Day, and our ten-year celebration, we received more than 180 abstract submissions, spanning a diverse range of research topics.

Today our WCHRI members will showcase the breadth and scope of their research. Many of these projects are the result of research studies that have been supported by WCHRI through a number of programs and grants. Over the past year, WCHRI provided 93 trainee and student awards, and much of the progress and outcomes of these awards will be on display today.

We are thrilled that Stephen Matthews, PhD, an internationally recognized researcher from the University of Toronto, is joining us today as the keynote speaker. I look forward to his address "Programming and Protection of the Fetal Brain."

Thank you to all who contributed toward making Research Day a success – including presenters, judges, organizers and the participants. A special "thank you" to our funding partners, the Stollery Children's Hospital Foundation and supporters of the Lois Hole Hospital for Women, for their generosity.

This event epitomizes our mission: "WCHRI will foster the brightest minds to discover, innovate and ultimately transform the health of children and women through supporting research excellence."

Enjoy your day!

**Sandra Davidge, PhD**, Executive Director  
Women and Children's Health Research Institute



# WCHRI overview



**The Women and Children's Health Research Institute (WCHRI)** supports research excellence dedicated to improving the health and lives of women and children. As the only research institute in Canada to focus on three closely related areas – women's, children's and perinatal health – WCHRI is proud to provide a number of funding opportunities and support programs that improve health outcomes for women and children.



**Our membership is composed of 450 leading and rising researchers**, from a range of academic and clinical disciplines, who are committed to improving women's and children's health outcomes.



## Vision

To **harness the power of research innovation** for a healthy future for children and women.



## Mission

WCHRI will foster the brightest minds to discover, innovate and ultimately **transform the health of children and women** through supporting research excellence.

## Principles

The following operating principles (FACTTS) support WCHRI's research mission:

- **Facilitate** research activities, build capacity, catalyze research innovation and excellence.
- **Advocate** for women and children's health research platforms, programs and policy.
- **Communicate** research outcomes to stakeholders, patients, community and government.
- **Train** the next generation of researchers.
- **Translate** knowledge to support evidence informed practice and policy.
- **Sustain** operations through effective accountability reporting and stakeholder engagement.



# Strategic priorities

## Pillars of research

WCHRI's five-year strategic roadmap focuses on four areas of research.



### Research integrated hospitals and communities:

Improve health outcomes for children and women through research embedded at the point of care.



### Children's health and well-being:

Identify effective treatments to address the unique health needs of children; improve our understanding of rare and complex childhood diseases.



### Healthy development:

Optimize maternal and infant health outcomes; develop early intervention and prevention strategies to reduce the risk for lifelong chronic disease.

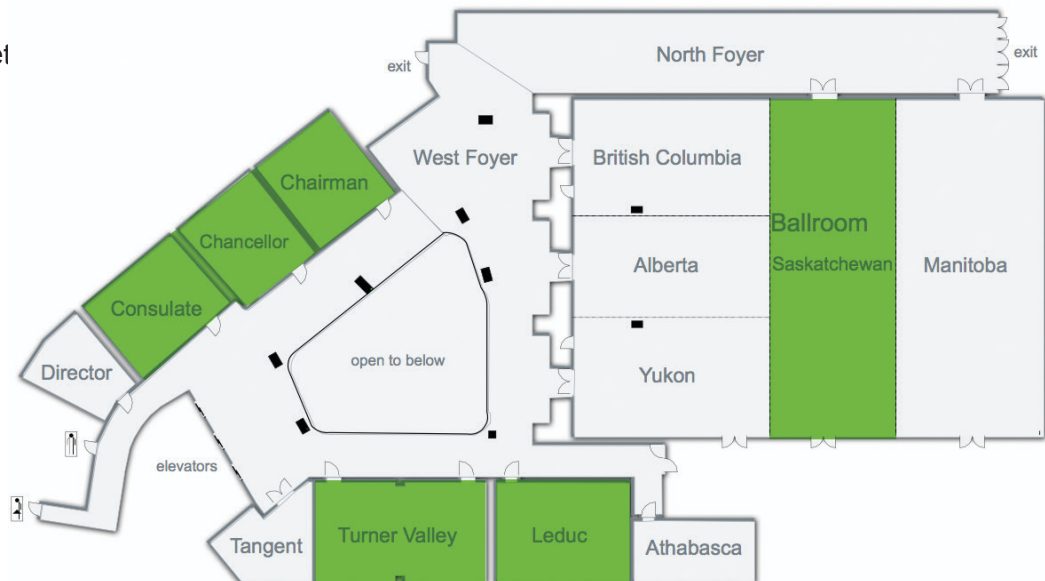


### Lifelong women's health:

Support research that addresses mechanisms related to the unique health needs of women; improve reproductive health outcomes.

## Venue map

**Westin Hotel**  
10135 100th Street  
(780) 426-3636





# Program at a glance

7 – 7:45 a.m.	<b>Breakfast / registration / poster set-up</b> – Foyer				
7:45 – 7:55 a.m.	<b>Welcome – Sandra Davidge, PhD</b> – Ballroom				
8 – 8:50 a.m.	<b>Workshop #1</b> <i>Chairman Room</i>	<b>Workshop #2</b> <i>Turner Valley Room</i>	<b>Workshop #3</b> <i>Leduc Room</i>		
	<b>How to effectively communicate your research to media, funders, the public</b> <ul style="list-style-type: none"><li>• Josie Hammond-Thrasher</li><li>• Janet Harvey</li><li>• Robert Moyles</li><li>• Lindsay Peddle</li></ul>	<b>Designing audience specific KT materials</b> SPOR platform leads: <ul style="list-style-type: none"><li>• Kathy Belton, PhD</li><li>• Lisa Hartling, PhD</li><li>• David Johnson, MD</li><li>• Ginetta Salvaggio, MD</li></ul>	<b>Networking and building collaborations</b> <ul style="list-style-type: none"><li>• Stephen Matthews, PhD</li></ul>		
9 – 10:30 a.m.	<b>Oral #1</b> <i>Turner Valley Room</i>	<b>Oral #2</b> <i>Chancellor Room</i>	<b>Oral #3</b> <i>Chairman Room</i>	<b>Oral #4</b> <i>Consulate Room</i>	<b>Oral #5</b> <i>Leduc Room</i>
	<b>Cardiac health and immunology</b>	<b>Maternal and fetal health</b>	<b>Knowledge translation and decision-making</b>	<b>Child development and musculo-skeletal health</b>	<b>Pediatric sub-specialty residents</b>
10:30 a.m. – 12 p.m.	<b>Poster viewing 1</b> – Ballroom				
12 – 12:40 p.m.	<b>Lunch</b> – Ballroom				
12:40 – 12:45 p.m.	<b>Reflecting on 10-years of research excellence:</b> Karen Faulkner from the Stollery Children's Hospital Foundation and Andrew Otway from the Royal Alexandra Hospital Foundation				
12:45 – 12:50 p.m.	<b>Introduction to keynote speaker</b>				
12:50 – 1:40 p.m.	<b>Keynote speaker</b> <b>Stephen Matthews, PhD – Programming and protection of the fetal brain</b>				
1:45 – 3:15 p.m.	<b>Oral #6</b> <i>Turner Valley Room</i>	<b>Oral #7</b> <i>Chancellor Room</i>	<b>Oral #8</b> <i>Chairman Room</i>	<b>Oral #9</b> <i>Consulate Room</i>	<b>Oral #10</b> <i>Leduc Room</i>
	<b>Nutrition and gastro-intestinal health</b>	<b>Women's health</b>	<b>Cardiac health and immunology</b>	<b>Respiratory health</b>	<b>Pediatric residents</b>
3:15 – 4:45 p.m.	<b>Poster viewing 2</b> – Ballroom				
4:45 – 5:30 p.m.	<b>Awards / 10-year birthday celebration</b> – Ballroom				

# Detailed program

7 – 7:45 a.m.

Breakfast / registration / poster set-up – Foyer

7:45 – 7:55 a.m.

Welcome – Ballroom

**Sandra Davidge, PhD**, Executive Director, Women and Children’s Health Research Institute

---

## Workshop #1

8 – 8:50 a.m.

Chairman Room

How to effectively communicate your research to media, funders, the public

**Josie Hammond-Thrasher, Janet Harvey, Robert Moyles, and Lindsay Peddle**

Four communications experts share their tips and ideas on how to create effective and inspiring messaging about your research. Also included will be two examples of a two-minute thesis “elevator” speech, which is becoming more popular. The presentation will be followed by a Q and A and interaction with the audience.

This workshop will help participants understand:

- how donors and funding agencies use research stories;
- how to present your research for the public “lay audience”;
- how to provide impact stories;
- how to excite donors;
- how to acknowledge funding; and,
- how to present your research in two-minutes.



**Josie Hammond-Thrasher** is a communications advisor with the Stollery Children’s Hospital Foundation. In her role, she focuses on sharing stories that help raise money in support of the pursuit of excellence in children’s health care, educate communities about the hospital’s needs and thank donors by sharing with them the impact of their gifts.

A multi-award winning public relations practitioner, Josie has built a reputation for planning and delivering creative communications solutions. She has more than ten years of experience in for-profit and non-profit sectors including the Alberta Public Affairs Bureau, Workers’ Compensation Board and Edmonton Public School Board. Josie is the membership chair on the board of the Canadian Public Relations Society – Edmonton.



**Janet Harvey, MA** has more than 15 years experience telling health research stories. After ten years in communications at the Alberta Heritage Foundation for Medical Research/Alberta Innovates – Health Solutions she went on to a position as senior writer/editor with the University of Alberta Faculty of Medicine & Dentistry. Since 2014 she has focused on freelance writing and editing with clients including WCHRI, the U of A Department of Pediatrics, the U of A Faculty of Medicine & Dentistry and Alberta Health Services.





**Robert Moyles, B.Com.** joined the University of Alberta's Office of Advancement as senior director of advancement strategic communications in May of 2012, where he oversees all communications for fundraising and to alumni. An alumnus of the University's Alberta School of Business and a graduate of MacEwan University's Public Relations program, Robert has previously led the communications functions of the Alberta Veterinary Medical Association, several provincial government departments, and spent six years as the director of strategic communications with the City of Edmonton, managing the City's brand and reputation.



**Lindsay Peddle, B.Com.** holds the role of director of communications at the Royal Alexandra Hospital Foundation. Lindsay has held various marketing and communications roles in both the for-profit and not-for-profit world, and possesses extensive knowledge and expertise in the digital media world, as well as a certification in Inbound Marketing.

In her current role Lindsay leads the communications department and oversees a team of experts in both digital and traditional correspondence. Lindsay is responsible for leading the marketing and communications of four centres of medical excellence at the Royal Alexandra Hospital: the Lois Hole Hospital for Women, the CK Hui Heart Centre, the Eye Institute of Alberta and the Orthopedic Surgery Centre, where her main objective is to communicate the need for donor support of innovative medical programs, advanced technologies and research in each of these areas of care.



# Workshop #2

8 – 8:50 a.m.

Turner Valley Room

## Designing audience specific knowledge translation materials

**Kathy Belton, PhD, Lisa Hartling, PhD, David Johnson, MD, and Ginetta Salvaggio, MD**

Designing and developing knowledge translation (KT) materials to reach different audiences is critical to ensuring research uptake and impact. The KT Platform of the Alberta Strategy for Patient Oriented Research (SPOR) SUPPORT Unit will present an overview of KT outputs designed for three specific types of audiences – clinical, policy and community – and present examples of KT products targeting each of these audience types.

The workshop will help participants:

- improve their understanding, knowledge and attitudes related to knowledge mobilization (KM) and KT;
- learn about different types of research outputs that can support KT; and,
- communicate research findings to multiple audiences.



**Kathy Belton, PhD** is the associate director of the Injury Prevention Centre in the School of Public Health at the University of Alberta. Her areas of interest are knowledge translation, motor vehicle and farm-related injuries and falls prevention for seniors. Kathy has a Masters of Education specializing in adult education and a PhD in public health at the University of Alberta. In 2013 she was awarded the National Leadership Award for her work in injury prevention. As an injury survivor, she knows first-hand the impact of preventable injuries.



**Lisa Hartling, PhD** is an associate professor in the Department of Pediatrics at the University of Alberta.

Hartling is a CIHR New Investigator, and holds three directorships. The first two are at the Alberta Research Centre for Health Evidence, and the University of Alberta Evidence-based Practice Centre. The focus at these two centres is to gather and summarize the best available scientific evidence to help support decision-making by healthcare providers, administrators, and patients and their families. Her third directorship is with the international Cochrane Child Health Field, where her role involves knowledge translation activities to disseminate high quality research to inform decisions in health.



**David Johnson, MD** is a pediatric emergency physician, medical toxicologist, a professor of pediatrics and physiology and pharmacology, and a theme lead at the University of Calgary, Faculty of Medicine's Alberta Children's Hospital Research Institute. His research interests are primarily focused on the management of common childhood respiratory emergencies, and ensuring primary health care professionals utilize the "best evidence" in managing these diseases.

Johnson's primary research interests focus on the management of common respiratory illnesses (croup, bronchiolitis, and asthma), and has published several large multi-centre randomized controlled trials assessing the benefit of corticosteroids for both croup and bronchiolitis in the *New England Journal of Medicine*. More recently, he has become interested in determining how best to translate knowledge into practice, and has completed several large multi-centre studies assessing different strategies for implementing clinical practice guidelines and clinical pathways in Alberta.



**Ginetta Salvaggio, MD** is a family physician and associate professor with the University of Alberta Department of Family Medicine. Her clinical and research interests are primarily in the area of social accountability and community engagement, with a special focus on inner city health services. She serves as the associate scientific director for Edmonton's Inner City Health and Wellness Program.



## Workshop #3

**8 – 8:50 a.m.**

*Leduc Room*

**Networking and building collaborations**

**Stephen Matthews, PhD**

More and more research granting opportunities are available for teams of researchers. No one operates in a silo; we all need to be constantly networking and establishing and maintaining collaborations locally, nationally and internationally.

This workshop will help participants:

- identify and/or create networking opportunities;
- understand the collaborative research world;
- learn how to foster collaborative research;
- learn how to develop research teams; and,
- learn the benefits of networking and collaborating.



**Stephen Matthews** is also the keynote speaker.

Please see his bio on page 21.



# Oral presentation #1

9 – 10:30 a.m.  
Turner Valley Room

## Cardiac health and immunology

#	Name	Position	Supervisor	Abstract title
1	<b>Yusuke Echigoya</b>	post doctoral fellow	Toshifumi Yokota	Systemic multi-exon skipping with peptide-conjugated antisense morpholinos improves heart function of a dog model of Duchenne muscular dystrophy
2	<b>Brandon Chan</b>	PhD student	Richard Schulz	Doxorubicin induces de novo expression of N-terminal truncated MMP-2 which impairs calcium transients in neonatal cardiomyocytes
3	<b>Tiffany Kim</b>	undergraduate student	Simon Urschel	Lymphocyte alterations in heart-transplanted children in relation to development of allergic and autoimmune disorders
4	<b>Andy Le</b>	undergraduate student	Joanna MacLean	Impaired quality of life in children following extreme preterm birth: contribution of cardiorespiratory function and problem behaviour
5	<b>Garett Dunsmore</b>	undergraduate student	Shokrollah Elahi	CD71+ erythroid precursor cells compromise neonatal host defense to Bordetella pertussis infection
6	<b>Victor Do</b>	undergraduate student	Lisa Hornberger	Fetal programming: Cardiovascular structure, function and aortic stiffness in fetuses, early and late infants of pre-gestational diabetic mothers

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

# Oral presentation #2

9 – 10:30 a.m.  
Chancellor Room

## Maternal and fetal health

#	Name	Position	Supervisor	Abstract title
7	<b>Ashley Bahry</b>	M.Sc. student	Jerome Yager	Alterations in brain connectivity in a model of placental insufficiency and the effects of broccoli sprout supplementation
8	<b>Graeme Purdy</b>	undergraduate student	Craig Steinback	There and back again: Cardiovascular adaptations to exercise in pregnancy
9	<b>HanHyung Lee</b>	M.Sc. student	David Olson	Leukocyte migration into the uterine tissues is upregulated prior to spontaneous birth
10	<b>Cameron Sklar</b>	resident	Kentia Naud	Accuracy of prenatal ultrasound in detecting growth abnormalities in triplets: a retrospective cohort study
11	<b>Floor Spaans</b>	post doctoral fellow	Sandra Davidge	Syncytiotrophoblast extracellular vesicles alter angiotensin II induced vasoconstriction in mouse uterine artery
12	<b>Andrew Woodman</b>	M.Sc. student	Stephane Bourque	Sex dependent cytochrome c oxidase upregulation in iron deficient fetal rat kidneys: A potential protective mechanism

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).



# Oral presentation #3

9 – 10:30 a.m.  
Chairman Room

## Knowledge translation and decision-making

#	Name	Position	Supervisor	Abstract title
13	<b>Nomathemba Dube</b>	PhD student	Paul Veugelers	Does access to and use of TVs, computers, tablets, video games and cellphones before bedtime affect sleep and body weight of children?
14	<b>Michelle Pollock</b>	PhD student	Lisa Hartling	Guidance for conducting overviews of reviews: Results from a scoping review and qualitative metasummary
15	<b>Btissam El Hassar</b>	PhD student	Rebecca Gokiert	Using stakeholder engagement to develop an evaluation capacity building instrument: Improving use by interweaving science and participation
16	<b>Sarah Walton</b>	undergraduate student	Shannon Scott	Usability evaluation of knowledge translation tools for parents with acutely ill children
17	<b>Allison Norris</b>	PhD student	Shannon Scott	The experiences of parents who have children with chronic pain: A qualitative descriptive study
18	<b>Priatharsini (Tharsini) Sivananthajothy</b>	M.Sc. student	Zubia Mumtaz	Who holds the power? Exploring obstetrical decision-making within the experiences of Canadian and newcomer women in Edmonton, Alberta

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

# Oral presentation #4

9 – 10:30 a.m.  
Consulate Room

## Child development and musculoskeletal health

#	Name	Position	Supervisor	Abstract title
19	<b>Lori-Ann Sacrey</b>	post doctoral fellow	Lonnie Zwaigenbaum	The Autism Parent Screen for Infants (APSI): A novel parent report questionnaire of early behavioral signs of autism spectrum disorder (ASD) between 6 title
20	<b>Amanda Greenwell</b>	undergraduate student	Lawrence Richer	Derivation of a clinical prediction model of medically important causes of pediatric 'brain attack'
21	<b>Sarah Raza</b>	PhD student	Lonnie Zwaigenbaum	The Infant-Toddler Social and Emotional Assessment (ITSEA) for early risk detection of Autism Spectrum Disorder
22	<b>Amy Toosi</b>	PhD student	Solina Richter	Early childhood development in children of immigrant families: A cohort study
23	<b>Sanja Schreiber</b>	post doctoral fellow	Eric Parent	Schroth Physiotherapeutic Scoliosis-specific exercises improve Cobb Angles in adolescents with Idiopathic Scoliosis – a randomized controlled trial
24	<b>Andrew Chan</b>	PhD student	Edmond Lou	Accuracy and precision of motion capture cameras for adolescent idiopathic scoliosis image guidance system

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

# Oral presentation #5

9 – 10:30 a.m.  
Leduc Room

## Pediatric sub-specialty residents

#	Name	Position	Supervisor	Abstract title
25	<b>Michael Khoury</b>	subspecialty resident	Nee Khoo	Cardiac rehabilitation in the pediatric Fontan population: Developing an interval training program using a novel telemedicine gaming exercise platform
26	<b>Asma Noshewan</b>	subspecialty resident	Georg Schmolzer	MRSOPA-Drills to improve mask ventilation in the delivery room
27	<b>Gitanjali Mansukhani</b>	subspecialty resident	Paul Kantor	Outcomes of pediatric heart failure-related hospitalizations in Canada: 2004-2013
28	<b>M. Florencia Ricci</b>	health/clinical fellow	Charlene M.T. Robertson	The relationship between deterioration of functional abilities and stroke in children surviving the Fontan procedure
29	<b>Jayani Abeysekera</b>	subspecialty resident	Lisa Hornberger	Umbilical blood flow in the 3rd trimester and its association with clinical and neurodevelopmental outcomes in children with congenital heart disease
127	<b>Mohammed Bahari</b>	subspecialty resident	Michael van Manen	Exploring Canadian neonatologists perceptions of targeted neonatal echocardiography

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).



# Poster presentations – morning

10:30 a.m. – 12 p.m.  
Ballroom

#	Presenter	Supervisor	Abstract title
---	-----------	------------	----------------

## CARDIAC HEALTH AND IMMUNOLOGY

30	Silvia Alvarez	Nee Khoo	Speckle tracking echocardiography and magnetic resonance imaging derived circumferential strain rate are closely associated in the single RV
31	Kandice Mah	Nee Khoo	Right ventricular remodelling in Hypoplastic Left Heart Syndrome: Impact of the Norwood and hybrid procedures
62	Iram Usman	Rhonda Rosychuk	Geographic ariation in time to specialist visit following an emergency department presentation for atrial fibrillation and flutter in Alberta, Canada
64	Kim Ho	Gary Lopaschuk	Adaptive or maladaptive? Increased ketone body oxidation in the failing heart is assessed for cardiac efficiency
65	Laura Reyes	Sandra Davidge	Effects of prenatal hypoxia on fetal cardiomyocyte proliferation

## CHILD DEVELOPMENT AND MUSCULOSKELETAL HEALTH

66	Basma Aljabri	Helly Goez	Expanding the Phenotypic spectrum of disorders related to ATP1A3 mutations
67	Stephen Hunter	Valerie Carson	A quasi-experimental examination of how school-based physical activity changes impact youth moderate-to vigorous-intensity physical activity
68	Steffen Adria	Edmond Lou	Predicting bending flexibility for female brace patients with adolescent idiopathic scoliosis
69	Maliheh Ghaneei	Samer Adeeb	Effects of Schroth exercises added to standard care in adolescents with idiopathic scoliosis on marker-less surface topography asymmetry measurements
70	Noureen Ali	Sujata Persad	Role of $\beta$ -catenin/Active $\beta$ -catenin in Osteosarcoma progression
71	Larissa Brosinsky	Holly Stack-Cutler	Underserved students engaged in intensive afterschool music instruction: Examining skill development and opportunities for growth
72	Stephanie Penner	Debra Andrews	Developing skills for developmental disabilities: Teaching module improves medical students' confidence
73	Jenna Crawford	Sujata Persad	Optimization of the growth period of in vitro neuron isolation
74	Rhianna Charchuk	Michael Hawkes	The experience of privately sponsored Syrian refugee families in Edmonton
75	Nooshin Jafari	Kim Adams	An assistive robotic system to enhance play activities for children with disabilities - preliminary study

## CHILD HEALTH – GENETIC DISCOVERY AND THERAPIES

77	Hunter McColl	David Eisenstat	Regulation of the BMI1 and RET proto-oncogenes by the DLX2 transcription factor in the developing gastro-intestinal tract
78	SaiKrishna Annamraju	Ordan Lehmann	FoxF1 influences hedgehog signaling by regulating the primary cilia length

#	Presenter	Supervisor	Abstract title
79	Kelly Fagan	Rachel Wevrick	MAGEL2, a protein implicated in Prader Willi Syndrome, modifies the activity of the RNF41-USP8 complex in leptin sensing neurons
80	Tishani Methsala Wijesuriya	Rachel Wevrick	MAGEL2 associates with USP8 and RNF41 to regulate ubiquitination pathways involving the leptin receptor
81	Andrew Waskiewicz	Andrew Waskiewicz	Superior coloboma: A novel disease that reflects a newly discovered feature of ocular development
82	Jerry Chen	Oana Caluseriu	Treating Fibrodysplasia Ossificans Progressiva (FOP) with Antisense Phosphorodiamidate Morpholino Oligomers (PMOs) via Exon skipping
83	Kana Hosoki	Toshifumi Yokota	Development of phosphorodiamidate morpholino-based antisense therapy for spinal muscular atrophy
84	Peter Sabiri	Daniel Graf	A role for Bmp7 in sensory nerve development

## CHILD HEALTH – NEPHROLOGY

85	Justin Lee	R. Todd Alexander	Identification of novel calcium transport pathway in Jejunum of suckling mice
----	------------	-------------------	---

## KNOWLEDGE TRANSLATION AND DECISION-MAKING

86	Robin Featherstone		Social media to promote evidence in pediatric emergency medicine: Assessment of a knowledge dissemination strategy
87	Reed Sutton	Vivian Huang	An online educational portal improves concerns of inflammatory bowel disease patients regarding pregnancy and medication
88	Salima Meherali	Shannon Scott	Digital knowledge translation tools on Otitis media for Canadian and Pakistani parents
89	Allison Gates	Lisa Hartling	Informing innovative knowledge translation tools to help parents manage their child's procedural pain in the emergency department: A systematic review
90	Lauren Albrecht	Shannon Scott	The development of knowledge translation tools for parents in pediatric acute care

## MATERNAL AND FETAL HEALTH

91	Jill Morris	Rhonda Bell	Gestational weight gain, nutrition, and physical activity counselling practices of prenatal health care providers: What influences practice?
92	Fabiana Mamede	Fabiana Mamede	Evaluation of expectation and satisfaction of pregnant women in Sao Paulo - Brazil
93	Juliana Cristina dos Santos Monteiro		Breastfeeding self-efficacy and duration of exclusive breastfeeding among adolescent mothers
94	Richard Mah	Andrew Woodman	Effect of maternal iron deficiency on fetal glomerular size and density in the prenatal rat
95	Barbara Verstraeten	David Olson	Potential role for pro- and anti-inflammatory cytokines in adverse pregnancy outcomes in a rat two-hit stress model
96	Brittany Matenchuk	Margie Davenport	Prenatal bed rest in developed and undeveloped countries: A meta-analysis

#	Presenter	Supervisor	Abstract title
97	Laura Adam	Rhonda Bell	What is the current knowledge and eating behaviours of low-risk pregnant women in Edmonton?
98	Alison Care	Sandra Davidge	Regulatory T cell-depletion during pregnancy causes fetal growth restriction and uterine artery dysfunction
99	Peter Anto Johnson	Stephane Bourque	The effect of prenatal iron deficiency and chronic cold exposure on brown adipose tissue morphology
100	Mohammad Mehdi Houshmandi	Lisa K. Hornberger	Improving rate of fetal diagnosis of Coarctation of the aorta in Alberta
101	Esha Ganguly	Sandra Davidge	Effect of maternal antioxidant MitoQ treatment in a rat model of Intrauterine Growth Restriction (IUGR)
102	Dora Gyenes	Lisa Hornberger	Exploring Doppler-based predictors of maternal diabetes-induced pathology through first trimester fetal echocardiography
103	Kate Haynes	Vivian Huang	Maternal-fetal immunotolerance in Inflammatory Bowel Disease
105	Kelycia Leimert	David M. Olson	Optimization of a novel co-culture model to study maternal and fetal components of uterine transformation for labour.
106	Tania Luthra	Sandra Davidge	Effect of STBEVs on the production of reactive oxygen and nitrogen species in endothelial cells
107	Jihee Yoo	Stephane Bourque	The effect of prenatal iron deficiency on UCP-1 expression in brown adipose tissue
108	Charlene Nielsen	Alvaro Osornio Vargas	Spatial relationships of Alberta's outdoor environment and really small newborns

## NUTRITION AND GASTROINTESTINAL HEALTH

109	Hein Min Tun	Anita Kozyrskyj	How pets make our babies healthier: Their influence on gut microbiome of infants following caesarean delivery
110	Samaneh Khanpour Ardestani	Sunita Vohra	Parents and clinicians' opinions about probiotic therapy in prevention of pediatric antibiotic-associated diarrhea
111	Jessica Wu	Justine Turner	Does registered dietitian counseling improve the knowledge of Celiac Disease in parents of children with Celiac Disease?
112	Ryan Fung	David Eisenstat	Tales from the Crypt: Regulation of intestinal stem cell markers Lgr5 and Bmi-1 by DLX2 during intestinal development and regeneration
113	Maha Alsaif	Andrea Haqq and Carla Prado	Fasting and postprandial glucose, insulin and GLP-1 levels in children with Prader-Willi Syndrome
114	Ghazal Danesh	Eytan Wine	Bacteria isolated from terminal ileum washings of pediatric Crohn disease patients activate the NLRP3 inflammasome
115	Krista MacDonald	Diana Mager	Body composition, handgrip strength, dietary intake, physical capacity & markers of cardiometabolic & liver dysfunction in children with NAFLD & PWS.
116	Jordan Rycroft	Radha Chari	The impact of premature rupture of membranes and gestational age on infant gut microbiota at three months



#	Presenter	Supervisor	Abstract title
---	-----------	------------	----------------

### RESPIRATORY HEALTH

117	<b>Justine Klaver-Kibria</b>	Irena Buka	Indoor air quality and asthma in children: A review of residential indoor air quality hazards with a special focus on renovations and indoor chemicals
118	<b>Tim Dalmer</b>	Robin Clugston	Retinoic acid signalling and congenital diaphragmatic hernia-associated genes: evidence from humans and mice
119	<b>Giseon Heo</b>		Contribution of craniofacial form to the pathogenesis of pediatric obstructive sleep apnea
120	<b>Brianne St. Hilaire</b>	Silvia Pagliardini	A new chemogenetic rodent model of central sleep apnea

### WOMEN'S HEALTH

121	<b>Alexandra Bain</b>	Jane Schulz	Improving access to health information regarding Pelvic Floor Disorders to a urogynecology clinic population
122	<b>Daniel Nisakar Meenakshi Sundaram</b>	Hasan Uludag	Targeting integrin-β1 to reduce attachment and migration of breast cancer cells
123	<b>Beate Sydora</b>	Sue Ross	Change over time in patient-reported symptoms and quality of life in Edmonton's interdisciplinary menopause clinics
124	<b>Xiaoyun Tang</b>	David Brindley	Doxycycline attenuates breast cancer related inflammation by decreasing lysophosphatidate and inhibiting NF-κB activation
125	<b>Powel Crosley</b>	Mary Hitt	PAC-1 combination with TRAIL enhances apoptosis in cell-line and primary cultured adult granulosa cell tumour cells
126	<b>Shehzad Kassam</b>	Ginetta Salvalaggio	Managed alcohol programs: Integrating a public health intervention into an acute care setting
181	<b>Samuel Yang</b>	Mark Glover	Function of TopBP1 in ATR recruitment to sites of DNA damage

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

## Lunch

12 – 12:40 p.m.

Ballroom

Buffet

# Reflecting on 10-years of research excellence

12:40-12:45 p.m.

Ballroom

**Karen Faulkner from the Stollery Children's Hospital Foundation and Andrew Otway from the Royal Alexandra Hospital Foundation**

On June 22, WCHRI was excited to announce that, thanks to generous gifts from the Stollery Children's Hospital Foundation and the Royal Alexandra Hospital Foundation, research support through the Women and Children's Health Research Institute will continue for another ten years. The Stollery Children's Hospital Foundation's Vice President, Karen Faulkner, and the Royal Alexandra Hospital Foundation's President & CEO, Andrew Otway, will say a few words about this historic event.



# Keynote presentation

12:50 – 1:40 p.m.

## Stephen Matthews, PhD

### Programming and protection of the fetal brain



The developing fetal brain is responsive to endocrine, nutritional and chemical cues. Glucocorticoids (GC) are crucial for normal brain development and are tightly regulated at low levels in the fetus for most of pregnancy.

Levels increase rapidly near term; a surge that is critical for fetal lung development and maturation of other organ systems including the brain. However, fetal GC levels can be elevated earlier in gestation as a result of maternal or fetal stress or maternal GC treatment.

Premature fetal exposure to GC can result in lifelong changes in the regulation of hypothalamic-pituitary-adrenal (HPA) function and behaviours in the offspring of several species, including humans. We have shown that these programming effects are associated with profound modification of the transcriptome and epigenome (methylation and acetylation), and that effects can be transmitted across multiple generations. Most recently, we have identified specific protection mechanisms in the placenta and fetal blood-brain barrier.

Understanding the functional regulation of these systems may allow the development of approaches that protect the fetal brain from the adverse effects of premature GC exposure, as well as exposure to other factors including environmental toxins and maternally administered therapeutic factors.

The keynote address will help attendees to better understand:

- how to conduct research in the field of fetal programming;
- protection mechanisms in the placenta and fetal blood-brain barrier; and,
- environmental factors that can affect the fetus.

**Stephen Matthews, PhD** is a professor of physiology, obstetrics and gynaecology and medicine at the University of Toronto. He is the director of research at the Fraser Mustard Institute for Human Development. His research is focused towards understanding how alterations in the fetal environment can affect developmental trajectories leading to permanent modification of neurologic and endocrine function. Matthews has published over 195 scientific papers and chapters, is regularly invited to present his work around the world and is involved in a number of large international research initiatives.

# Oral presentation #6

1:45 – 3:15 p.m.  
Turner Valley Room

## Nutrition and gastrointestinal health

#	Name	Position	Supervisor	Abstract title
32	Liane Kang	M.Sc. student	Anita Kozyrskyj	Maternal pre and postnatal depression is associated with reduced 4-month gut immunoglobulin A levels in Canadian infants
33	Manjeet Kumari	post doctoral fellow	Anita Kozyrskyj	Cesarean section affects gut microbial metabolites that regulate human physiology
34	Deenaz Zaidi	PhD student	Eytan Wine	Dysregulation of TNFAIP3 (A20) is associated with inflammation in pediatric Crohn disease
35	Nadia Browne	PhD student	Geoff Ball	Can a novel eHealth tool nudge parents to discuss children's weight status with their pediatrician?
36	Hillary Gazie	undergraduate student	Hien Huynh	Risk stratification in pediatric Crohn's disease
37	Emily Wadge	undergraduate student	Catherine Field	The effect of maternal diet on breast milk medium chain fatty acid composition in the Alberta Pregnancy Outcomes and Nutrition (APrON) study

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

# Oral presentation #7

1:45 – 3:15 p.m.  
Chancellor Room

## Women's health

#	Name	Position	Supervisor	Abstract title
38	<b>Mackenzie Coatham</b>	PhD student	Lynne Postovit	Inactivation of SWI/SNF chromatin remodelling complex proteins in clinically aggressive dedifferentiated endometrial carcinoma
39	<b>Kirstie De Jong</b>	PhD student	Sean McGee	Women with Polycystic Ovary Syndrome exhibit an increased risk of left ventricular hypertrophy
40	<b>Gayathri Ananthakrishnan</b>	PhD student	Donna Vine	Androgens modulate lipid metabolism in a rodent model of Poly Cystic Ovary Syndrome
41	<b>Shangmei Hou</b>	PhD student	Tom Hobman	Zika virus inhibits the induction and downstream signaling of host interferon system
42	<b>Olena Bilyk</b>	post doctoral fellow	Lynne Postovit	Nodal promotes cell plasticity and therapy resistance in ovarian cancer cells
43	<b>Arielle Cantor</b>	resident	Cathy Flood	Do patients understand the role of resident physicians in the operating room? A survey of gynecology patients

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

# Oral presentation #8

1:45 – 3:15 p.m.  
Chairman Room

## Cardiac health and immunology

#	Name	Position	Supervisor	Abstract title
44	<b>Billie-Jean Martin</b>	health/clinical fellow	Ivan M. Rebeyka	Regionalized surgical care: Lack of association between on site surgical program and post-operative outcomes in children undergoing Fontan Palliation
45	<b>Anmol Sidhu</b>	undergraduate student	Timothy Colen	Progressive reduction of leaflet coaptation with time is associated with increased tricuspid valve regurgitation in hypoplastic left heart syndrome
46	<b>Jacqueline Krysa</b>	PhD student	Timothy Colen	The relationship of remnant cholesterol to sub-clinical cardiovascular risk in youth
47	<b>Mais Aljunaidy</b>	PhD student	Spencer Proctor	Effect of maternal antioxidant MitoQ treatment on offspring cardiovascular function in a rat model of intrauterine growth restriction (IUGR)
48	<b>Yiqun Wang</b>	undergraduate student	Lori West	Blood group A-antigen-specific tolerance following infant A-antigen exposure in a mouse model of ABO-incompatible heart transplantation
49	<b>Kristofor Ellestad</b>	post doctoral fellow	Colin Anderson	PD-1 <sup>-/-</sup> newly generated CD4 <sup>+</sup> T cells drive autoimmunity in lymphopenia independent of Fas and perforin-dependent killing

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).



# Oral presentation #9

1:45 – 3:15 p.m.  
Consulate Room

## Respiratory health

#	Name	Position	Supervisor	Abstract title
50	<b>Pranidhi Baddam</b>	undergraduate student	Daniel Graf	Loss of neural crest-derived Bmp7 causes craniofacial malformations leading to Obstructive Sleep Apnea
51	<b>Prabhjot Bedi</b>	M.Sc. student	Joanna MacLean	Infants represent a distinct group within the pediatric non-invasive ventilation population in Alberta
52	<b>Malak Gazzaz</b>	resident	Hamdy El-Hakim	Does drug-induced sleep endoscopy change the surgical decision in children with snoring/sleep disordered breathing? A retrospective cohort study
53	<b>Jasmeen Saini</b>	PhD student	Silvia Pagliardini	Expiratory modulated abdominal muscle recruitment in neonatal and adult rats across sleep states
54	<b>Rachel Skow</b>	PhD student	Margie Davenport	Potential differences in sympathetic respiratory modulation in pregnant and non-pregnant women
55	<b>Daniel Wollin</b>	undergraduate student	Joanna MacLean	Unmasking a disorder: The characterization of treatment emergent central sleep apnea in children

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

# Oral presentation #10

1:45 – 3:15 p.m.  
Leduc Room

## Pediatric residents

#	Name	Position	Supervisor	Abstract title
56	Joel Semeniuk	resident	Andrew Dixon	How do Canadian pediatric emergency physicians repair fingernail injuries?
57	Mohamed El-Kalla	resident	Hien Huynh	Retrospective analysis of pharmacokinetic infliximab data in pediatric IBD patients
58	Emma Heydari	resident	Todd Alexander	Screening candidate genes for a cause of pediatric idiopathic hypercalciuria
59	Waleed Masoud	resident	Elizabeth T. Rosolowsky	Effectiveness of the Alberta newborn metabolic screening program for congenital adrenal hyperplasia
60	Marian Thorpe	resident	Lindsay Ryerson	Smaller pulmonary artery size is associated with acute post-operative complications in systemic to pulmonary artery shunts
61	Wallace Wee	resident	Carina Majaesic	Dry powder inhaler delivery of tobramycin in in vitro models of tracheostomized children

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).



# Poster presentations – afternoon, reception

3:15 – 4:45 p.m.  
Ballroom

#	Presenter	Supervisor	Abstract title
---	-----------	------------	----------------

## CARDIAC HEALTH AND IMMUNOLOGY

63	<b>Morgan Sosniuk</b>	Lori West	Old dogs with new tricks: Optimizing mixed lymphocyte reaction with duraclone flow cytometry phenotyping
127	<b>Mohammed Bahari</b>	Michael van Manen	Exploring Canadian neonatologists perceptions of targeted neonatal echocardiography
128	<b>Proscovia Mugaba</b>	Lisa Hornberger	Cardiac MRI as an alternative to routine cardiac catheterization in single-ventricle infants undergoing a bidirectional Glenn at the Stollery Hospital
129	<b>Sonia Rawat</b>	Gary Lopaschuk	Cardiac hypertrophy in congenital neonatal heart disease delays maturational increases in fatty acid oxidation through myocardial acetylation control
130	<b>Andrej Roczkowsky</b>	Richard Schulz	Intracellular MMP-2 activation is an early event in doxorubicin-treated cardiomyocytes
131	<b>Chantal Allan</b>	Lori West	Physical fitness after pediatric solid organ transplantation: A review
132	<b>Devin Chetan</b>	Jennifer Conway	Successful treatment of VAD pump thrombosis in four pediatric patients
133	<b>Ali Hajar</b>	Simon Urschel	Age-related differences in the regulatory capacity of CD5+CD1d+ B-cells in the context of heart graft acceptance
134	<b>Abbas Hyderi</b>	Lisa Hornberger	Healthy teens with preterm birth have increased LV twist parameters. Is it a mechanism of LV compensation to an impaired diastolic performance?
135	<b>Joren Manz</b>	Denise Hemmings	Sphingosine-1-phosphate mediated vascular adaptations and the impact TNF on vascular tone in pregnancy

## CHILD DEVELOPMENT AND MUSCULOSKELETAL HEALTH

136	<b>Aamena Kapasi</b>	Carmen Rasmussen	Executive functioning and adverse childhood experiences in children with prenatal alcohol exposure
137	<b>Rotem Lavy</b>	Fred Berry	foxc1a genetically interacts with ripply1 to regulate mesp-ba expression and somitogenesis
138	<b>Dorothea Hui</b>	Sandra Wiebe	Is parenting style related to language development in early childhood?
139	<b>Uyen Tran</b>	Samina Ali	Acute pain management: The medical students' perspective
140	<b>Stephanie Powley Unrau</b>	Valerie Carson	Update of the Canadian Physical Activity Guidelines for the Early Years (Aged 0-4 Years)
141	<b>Lesley Brennan</b>	Irena Buka	Mold exposure in the home: Insights from the Children's Environmental Health Clinic (ChEHC)
142	<b>Catherine Stewart</b>	Sarah Curtis	Dog related injury in the Stollery emergency department
143	<b>Allison Smith</b>	Monica Gorassini	Motor pathways in children with perinatal stroke receiving intensive therapy
144	<b>Jacqueline Crossman</b>	Tarek El-Bialy	The effect of low intensity pulsed ultrasound on the temporomandibular joint in mice

#	Presenter	Supervisor	Abstract title
145	Kim Cuong Nguyen	Lawrence Le	In-vitro evaluation of tooth-periodontium using a high resolution phased array ultrasound system
146	Julyana Gomes de Oliveira Carvalho	Lawrence Le	Reliability of cone beam computed tomography for alveolar bone level assessment in the adolescent population: A pilot study
147	Haroon Ahmed	Mosarrat Qureshi	Lack of awareness about prevalence of Developmental Coordination Disorder (DCD) in preterm infants in the Northern Alberta Neonatal Program

## CHILD HEALTH – GENETIC DISCOVERY AND THERAPIES

76	Aleksander Touznik	Toshifumi Yokota	In vitro efficacy of locked nucleic acid/DNA mixmer antisense oligonucleotides for treating spinal muscular atrophy
148	Rika Maruyama	Toshifumi Yokota	Development of antisense oligonucleotide therapy for Fibrodysplasia Ossificans Progressiva
149	Maria Choi	Andrew Waskiewicz	Investigating the genetic and cellular factors underlying superior coloboma, a novel birth defect affecting development of the eye

## CHILD HEALTH - NEPHROLOGY

150	Megan Beggs	Todd Alexander	Novel calcium transport pathways mediate intestinal calcium absorption pre-weaning
-----	-------------	----------------	--

## KNOWLEDGE TRANSLATION AND DECISION-MAKING

151	Kassi Shave	Lisa Hartling	Procedural pain in children: utilizing parent expertise in research and knowledge translation
153	Stephanie Kowal	Tania Bubela	Conducting ethically robust pediatric clinical trials of bio-therapeutics for chronic, manageable diseases: Lessons from a scoping review
154	Rhonda Rosychuk		Stratified regression analysis of recurrent events with coarsened censoring times
155	Shelly Jun	Amanda S Newton	Point-of-care cognitive support technology in emergency departments: A scoping review of technology acceptance by clinicians
156	Maryam Nesari	Shannon Scott	Study design for developing evidence-based digital knowledge translation tools on fever for Canadian and Iranian parents
157	Osnat Wine	Alvaro Osornio Vargas	The barriers and facilitators of integrated knowledge translation in environmental health context: Preliminary deliberations of the DoMiNO project

## MATERNAL AND FETAL HEALTH

158	Lisa Shulman	Yan Yuan	Statistical methods for studying the relationships between body fat and weight changes during pregnancy
159	Stephana Cherak	Stephane Bourque	The effect of prenatal iron deficiency on fetal programming of body composition: Role of brown adipose tissue
160	Meagan McLavish	Donna Manca	A description of obstetric and neonatal outcomes for the Be Healthy in Pregnancy study
161	Mette Madsen	Rhonda Bell	Gestational weight gain in a cohort of women with standard prenatal care in Edmonton, Alberta

#	Presenter	Supervisor	Abstract title
---	-----------	------------	----------------

## NUTRITION AND GASTROINTESTINAL HEALTH

162	Maryam Kebbe	Geoff Ball	Perspectives of adolescents with obesity on nutrition, physical activity, sedentary behavior, and sleep habits: A scoping review
163	Erin Faught	Paul J. Veugelers	Disentangling the effects of food insecurity, household income, and diet on children's academic achievement in Nova Scotia, Canada
164	Daniel Fung	Susan Gilmour	Pediatric liver transplant quality of life (PeLTQL) questionnaire to measure health related quality of life in the pediatric liver transplant populati
165	Sarah Andrishak	Vivian Huang	The impact inflammatory bowel disease has on breastfeeding patterns
166	Nicole Gehring	Geoff Ball	Is there a role for home visits in managing pediatric obesity? Preliminary findings
167	Ambika Agrawal	Karen Madsen	Breast milk from mothers with Inflammatory Bowel Disease elicits lower inflammatory responses than milk from healthy controls
168	Usha Rai	Anita Kozyrskyj	Impact of duration of labor on infant gut microbiota composition at 3 months
169	Jocelyn Shulhan	Lisa Hartling	Effect of hydrolyzed formula and enteral nutrition infant products on the incidence of necrotizing enterocolitis in neonates: A systematic review
170	Yesmine Elloumi	Vivian Huang	Change in levels of inflammatory cytokines during pregnancy in women with IBD

## RESPIRATORY HEALTH

171	Andre Isaac	Hamdy El-Hakim	Predictors of failure of DISE-directed adenotonsillectomy in children with sleep disordered breathing
172	Atoosa Golfar	Dr. Po-yin Cheung	The outcomes and predictors of INO on preterms with severe hypoxemic respiratory failure rescued with high frequency oscillatory ventilation
173	Justin Haas	Silvia Pagliardini	Determination of presynaptic connections to the parafacial respiratory group using viral constructs, optogenetics and immunohistochemistry
174	Muna Kamal	Piush Mandhane	Predictors of sleep disordered breathing trajectories at age 2 years: Analysis of data from the CHILD Edmonton study

## WOMEN'S HEALTH

175	Mahsa Alaee	Manijeh Pashar	Anti-tumor/metastasis activity of plakoglobin in invasive ovarian carcinoma cells
176	Nicole Pitre		Living in the shadow of domestic violence: Mapping the experience of mothering in conditions of pervasive unpredictability and distrust
177	Rebecca Miyagishima		Developing and testing the validity of case definitions for pelvic floor disorders in women who consult family medicine practices in Canada

#	Presenter	Supervisor	Abstract title
178	Tho Tran	Lawrence Le	A pilot study to measure ultrasonic velocity in human tibiae
179	Zelei Yang	David Brindley	Role of autotaxin and inflamed mammary adipose tissue in the development of doxorubicin resistance in breast cancer
180	Xiaolu Han	Yangxin Fu	Phosphorylation profiles in cisplatin-sensitive and -resistant epithelial ovarian cancer cells
182	Jiesi Zhou	Yangxin Fu	The RUNX family of transcription factors are oncogenes in granulosa cell tumors of the ovary
183	Ashley McCurdy	Margie Davenport	The impact of exercise on postpartum depressive symptoms

For full abstracts please visit our website at [www.wchri.org/ResearchDay](http://www.wchri.org/ResearchDay).

## Awards / 10-year birthday celebration

4:45 – 5:30 p.m.  
Ballroom





# List of presenters

Name	#	Time	Room
Abeyskera, Jayani	29	09:00-10:30	Leduc Room
Adam, Laura	97	10:30-12:00	Ballroom
Adria, Steffen	68	10:30-12:00	Ballroom
Agrawal, Ambika	167	15:15-16:45	Ballroom
Ahmed, Haroon	147	15:15-16:45	Ballroom
Alaee, Mahsa	175	15:15-16:45	Ballroom
Albrecht, Lauren	90	10:30-12:00	Ballroom
Ali, Noureen	70	10:30-12:00	Ballroom
Aljabri, Basma	66	10:30-12:00	Ballroom
Aljunaidy, Mais	47	13:45-15:15	Chairman Room
Allan, Chantal	131	15:15-16:45	Ballroom
Alsaif, Maha	113	10:30-12:00	Ballroom
Alvarez, Silvia	30	10:30-12:00	Ballroom
Ananthkrishnan, Gayathri	40	13:45-15:15	Chancellor
Andrishak, Sarah	165	15:15-16:45	Ballroom
Annamraju, SaiKrishna	78	10:30-12:00	Ballroom
Baddam, Pranidhi	50	13:45-15:15	Consulate Room
Bahari, Mohammed	127	15:15-16:45	Ballroom
Bahry, Ashley	7	09:00-10:30	Chancellor
Bain, Alexandra	121	10:30-12:00	Ballroom
Bedi, Prabhjot	51	13:45-15:15	Consulate Room
Beggs, Megan	150	15:15-16:45	Ballroom
Bilyk, Olena	42	13:45-15:15	Chancellor
Brennan, Lesley	141	15:15-16:45	Ballroom
Brosinsky, Larissa	71	10:30-12:00	Ballroom
Browne, Nadia	35	13:45-15:15	Turner Valley Room
Cantor, Arielle	43	13:45-15:15	Chancellor
Care, Alison	98	10:30-12:00	Ballroom
Carvalho, Julyana Gomes de Oliveira	146	15:15-16:45	Ballroom
Chan, Brandon	2	09:00-10:30	Turner Valley Room
Chan, Andrew	24	09:00-10:30	Consulate Room
Charchuk, Rhianna	74	10:30-12:00	Ballroom
Chen, Jerry	82	10:30-12:00	Ballroom
Cherak, Stephana	159	15:15-16:45	Ballroom
Chetan, Devin	132	15:15-16:45	Ballroom
Choi, Maria	149	15:15-16:45	Ballroom
Coatham, Mackenzie	38	13:45-15:15	Chancellor
Crawford, Jenna	73	10:30-12:00	Ballroom
Crosley, Powel	125	10:30-12:00	Ballroom
Crossman, Jacqueline	144	15:15-16:45	Ballroom
Dalmer, Tim	118	10:30-12:00	Ballroom
Danesh, Ghazal	114	10:30-12:00	Ballroom
De Jong, Kirstie	39	13:45-15:15	Chancellor
Do, Victor	6	09:00-10:30	Turner Valley Room
Dube, Nomathemba	13	09:00-10:30	Chairman Room
Dunsmore, Garrett	5	09:00-10:30	Turner Valley Room
Echigoya, Yusuke	1	09:00-10:30	Turner Valley Room

Name	#	Time	Room
El Hassar, Btissam	15	09:00-10:30	Chairman Room
El-Kalla, Mohamed	57	13:45-15:15	Leduc Room
Ellestad, Kristofor	49	13:45-15:15	Chairman Room
Elloumi, Yesmine	170	15:15-16:45	Ballroom
Fagan, Kelly	79	10:30-12:00	Ballroom
Faught, Erin	163	15:15-16:45	Ballroom
Featherstone, Robin	86	10:30-12:00	Ballroom
Fung, Ryan	112	10:30-12:00	Ballroom
Fung, Daniel	164	15:15-16:45	Ballroom
Ganguly, Esha	101	10:30-12:00	Ballroom
Gates, Allison	89	10:30-12:00	Ballroom
Gazie, Hillary	36	13:45-15:15	Turner Valley Room
Gazzaz, Malak	52	13:45-15:15	Consulate Room
Gehring, Nicole	166	15:15-16:45	Ballroom
Ghaneei, Maliheh	69	10:30-12:00	Ballroom
Golfar, Atoosa	172	15:15-16:45	Ballroom
Greenwell, Amanda	20	09:00-10:30	Consulate Room
Gyenes, Dora	102	10:30-12:00	Ballroom
Haas, Justin	173	15:15-16:45	Ballroom
Hajar, Ali	133	15:15-16:45	Ballroom
Han, Xiaolu	180	15:15-16:45	Ballroom
Haynes, Kate	103	10:30-12:00	Ballroom
Heo, Giseon	119	10:30-12:00	Ballroom
Heydari, Emma	58	13:45-15:15	Leduc Room
Ho, Kim	64	10:30-12:00	Ballroom
Hosoki, Kana	83	10:30-12:00	Ballroom
Hou, Shangmei	41	13:45-15:15	Chancellor
Houshmandi, Mohammad Mehdi	100	10:30-12:00	Ballroom
Hui, Dorothea	138	15:15-16:45	Ballroom
Hunter, Stephen	67	10:30-12:00	Ballroom
Hyderi, Abbas	134	15:15-16:45	Ballroom
Isaac, Andre	171	15:15-16:45	Ballroom
Jafari, Nooshin	75	10:30-12:00	Ballroom
Johnson, Peter Anto	99	10:30-12:00	Ballroom
Jun, Shelly	155	15:15-16:45	Ballroom
Kamal, Muna	174	15:15-16:45	Ballroom
Kang, Liane	32	13:45-15:15	Turner Valley Room
Kapasi, Aamena	136	15:15-16:45	Ballroom
Kassam, Shehzad	126	10:30-12:00	Ballroom
Kebbe, Maryam	162	15:15-16:45	Ballroom
Khanpour Ardestani, Samaneh	110	10:30-12:00	Ballroom
Khoury, Michael	25	09:00-10:30	Leduc Room
Kim, Tiffany	3	09:00-10:30	Turner Valley Room
Klaver-Kibria, Justine	117	10:30-12:00	Ballroom
Kowal, Stephanie	153	15:15-16:45	Ballroom
Krysa, Jacqueline	46	13:45-15:15	Chairman Room

Name	#	Time	Room
Kumari, Manjeet	33	13:45-15:15	Turner Valley Room
Lavy, Rotem	137	15:15-16:45	Ballroom
Le, Andy	4	09:00-10:30	Turner Valley Room
Lee, HanHyung	9	09:00-10:30	Chancellor
Lee, Justin	85	10:30-12:00	Ballroom
Leimert, Kelycia	105	10:30-12:00	Ballroom
Luthra, Tania	106	10:30-12:00	Ballroom
MacDonald, Krista	115	10:30-12:00	Ballroom
Madsen, Mette	161	15:15-16:45	Ballroom
Mah, Kandice	31	10:30-12:00	Ballroom
Mah, Richard	94	10:30-12:00	Ballroom
Mamede, Fabiana	92	10:30-12:00	Ballroom
Mansukhani, Gitanjali	27	09:00-10:30	Leduc Room
Manz, Joren	135	15:15-16:45	Ballroom
Martin, Billie-Jean	44	13:45-15:15	Chairman Room
Maruyama, Rika	148	15:15-16:45	Ballroom
Masoud, Waleed	59	13:45-15:15	Leduc Room
Matenchuk, Brittany	96	10:30-12:00	Ballroom
McCull, Hunter	77	10:30-12:00	Ballroom
McCurdy, Ashley	183	15:15-16:45	Ballroom
McLavish, Meagan	160	15:15-16:45	Ballroom
Meenakshi Sundaram and Daniel Nisakar	122	10:30-12:00	Ballroom
Meherali, Salima	88	10:30-12:00	Ballroom
Miyagishima, Rebecca	177	15:15-16:45	Ballroom
Monteiro, Juliana Cristina dos Santos	93	10:30-12:00	Ballroom
Morris, Jill	91	10:30-12:00	Ballroom
Mugaba, Proscovia	128	15:15-16:45	Ballroom
Nesari, Maryam	156	15:15-16:45	Ballroom
Nguyen, Kim Cuong	145	15:15-16:45	Ballroom
Nielsen, Charlene	108	10:30-12:00	Ballroom
Norris, Allison	17	09:00-10:30	Chairman Room
Nosherwan, Asma	26	09:00-10:30	Leduc Room
Penner, Stephanie	72	10:30-12:00	Ballroom
Pitre, Nicole	176	15:15-16:45	Ballroom
Pollock, Michelle	14	09:00-10:30	Chairman Room
Powley Unrau, Stephanie	140	15:15-16:45	Ballroom
Purdy, Graeme	8	09:00-10:30	Chancellor
Rai, Usha	168	15:15-16:45	Ballroom
Rawat, Sonia	129	15:15-16:45	Ballroom
Raza, Sarah	21	09:00-10:30	Consulate Room
Reyes, Laura	65	10:30-12:00	Ballroom
Ricci, M. Florencia	28	09:00-10:30	Leduc Room
Roczkowski, Andrej	130	15:15-16:45	Ballroom
Rosychuk, Rhonda	154	15:15-16:45	Ballroom
Rycroft, Jordan	116	10:30-12:00	Ballroom
Sabiri, Peter	84	10:30-12:00	Ballroom

Name	#	Time	Room
Sacrey, Lori-Ann	19	09:00-10:30	Consulate Room
Saini, Jasmeen	53	13:45-15:15	Consulate Room
Schreiber, Sanja	23	09:00-10:30	Consulate Room
Semeniuk, Joel	56	13:45-15:15	Leduc Room
Shave, Kassi	151	15:15-16:45	Ballroom
Shulhan, Jocelyn	169	15:15-16:45	Ballroom
Shulman, Lisa	158	15:15-16:45	Ballroom
Sidhu, Anmol	45	13:45-15:15	Chairman Room
Sivananthajothy, Priatharsini (Tharsini)	18	09:00-10:30	Chairman Room
Sklar, Cameron	10	09:00-10:30	Chancellor
Skow, Rachel	54	13:45-15:15	Consulate Room
Smith, Allison	143	15:15-16:45	Ballroom
Sosniuk, Morgan	63	10:30-12:00	Ballroom
Spaans, Floor	11	09:00-10:30	Chancellor
St. Hilaire, Brianne	120	10:30-12:00	Ballroom
Stewart, Catherine	142	15:15-16:45	Ballroom
Sutton, Reed	87	10:30-12:00	Ballroom
Sydora, Beate	123	10:30-12:00	Ballroom
Tang, Xiaoyun	124	10:30-12:00	Ballroom
Thorpe, Marian	60	13:45-15:15	Leduc Room
Toosi, Amy	22	09:00-10:30	Consulate Room
Touznik, Aleksander	76	10:30-12:00	Ballroom
Tran, Uyen	139	15:15-16:45	Ballroom
Tran, Tho	178	15:15-16:45	Ballroom
Tun, Hein Min	109	10:30-12:00	Ballroom
Usman, Iram	62	10:30-12:00	Ballroom
Verstraeten, Barbara	95	10:30-12:00	Ballroom
Wadge, Emily	37	13:45-15:15	Turner Valley Room
Walton, Sarah	16	09:00-10:30	Chairman Room
Wang, Yiqun	48	13:45-15:15	Chairman Room
Waskiewicz, Andrew	81	10:30-12:00	Ballroom
Wee, Wallace	61	13:45-15:15	Leduc Room
Wijesuriya, Tishani Methsala	80	10:30-12:00	Ballroom
Wine, Osnat	157	15:15-16:45	Ballroom
Wollin, Daniel	55	13:45-15:15	Consulate Room
Woodman, Andrew	12	09:00-10:30	Chancellor
Wu, Jessica	111	10:30-12:00	Ballroom
Yang, Zelei	179	15:15-16:45	Ballroom
Yang, Samuel	181	15:15-16:45	Ballroom
Yoo, Jihee	107	10:30-12:00	Ballroom
Zaidi, Deenaz	34	13:45-15:15	Turner Valley Room
Zhou, Jiesi	182	15:15-16:45	Ballroom

Scan to view WCHRI's  
2016 Research Day  
abstract booklet





[www.wchri.org](http://www.wchri.org)

**Women and Children's Health Research Institute**

4-081 Edmonton Clinic Health Academy (ECHA)

11405 – 87 Avenue

Edmonton, AB T6G 1C9

780-248-5602

wchri@ualberta.ca

**We gratefully acknowledge the support  
of our A/V and venue sponsors:**

**A/V sponsor:**



**Venue sponsor:**



The Power of Partnership

