

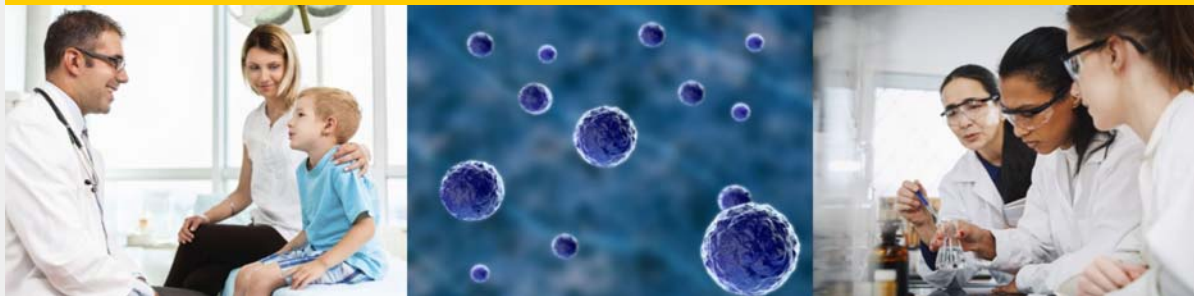
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WEEKLY NEWSLETTER

February 10, 2020

EXCELLENCE IN RESEARCH - CIHR GRANTS



Congratulations to all CIHR awardees!

Catalyst Grants

Dr. Gina Dimitropoulos - *Towards a pan-Canadian network for integrating research-evaluation and knowledge translation in youth mental health*

Dr. Fiona Schulte - *Creating a National Aftercare Strategy for Survivors of Pediatric Cancer*

Dr. Keith Yeates - *Canadian Concussion Network*

The 2020 CIHR Project internal deadline is March 2 at 9 am. Please contact Anna LeMarquand, Senior Research Grants Officer with any inquiries at asamuels@ucalgary.ca

POSTDOCTORAL AWARDS



"I am thrilled to be awarded with the 2020 Alberta Innovates Fellowship. It is a great opportunity to improve my research training and career development while working on my life goal - improving the life of young children affected by neurodevelopmental disorders."

Noschang came to the University of Calgary as an ACHRI postdoctoral fellow in 2019 from Brazil. Congratulations!

ALBERTA INNOVATES POSTDOCTORAL FELLOWSHIP

Dr. Cristie Noschang, PhD
Supervised by Dr Deborah Kurrasch,
PhD
Investigating neurodevelopmental disorders

ACHRI TRAINEES

IMPORTANT - ACHRI is implementing a new registration process for all trainees. Please [register](#) and complete this [survey](#) by Feb. 21.

By completing the registration, you are confirming that you would like to be eligible for ACHRI trainee funding and training opportunities.

Visit the ACHRI Weekly Training Post on the [ACHRI website](#) to learn about the educational and funding opportunities available for trainees.

PROGRAM NOTES

RESEARCH SERVICES OPEN HOUSE

You're invited to a Research Services Open House - get to know the teams who are supporting your research.

Main Campus, 7th Floor, MacKimmie Tower

Monday, Feb. 24

2 pm - 4 pm [Register](#)

Maternal and Child Health Journal Club

Wednesday, Feb 26

11:30 am - 1 pm

Calgary Women's Health Centre, Room 255

The next maternal health journal club features Krista Wollny and Malcolm Eaton leading a discussion on two journals from basic science and epidemiological perspectives.

Topics: *Paediatric and Perinatal Epidemiology*, *The association of stillbirth with placental abnormalities*

Nature, *Placentation defects are highly prevalent in embryonic lethal mouse mutants*

Please RSVP to [Linda Cosway](#)

The 2020 CCHCSP Certificate Eligible Session

Partnered with ACHRI, CCHCSP is excited to offer a series of *2020 CCHCSP Certificate* eligible sessions in Calgary. All are welcome - trainees of any level, discipline and faculty.

ACH, Room 3 12:00 pm - 1:30 pm

Feb. 11 Paper writing - Qualitative Research - Gina Dimitropoulos

Feb. 25 Paper Writing - Quantitative Research - Susan Samuel

Mar. 10 Navigating Budget - Jenna Slobozian

April 14 Negotiating Your First Faculty Position - Jim Kellner

For more information or to register please contact [Janet Wu](#)

PUBLICATIONS



ARTIFICIAL SWEETENERS IMPACT OFFSPRING

A new study led by Dr. Raylene Reimer, PhD, published in the high-impact journal *Gut*, discovered that the consumption of low-calorie sweeteners while pregnant increased body fat and disrupted gut microbiota in offspring. “Understanding the impact of dietary ingredients on maternal metabolism and gut microbiota may help to define the optimal maternal diet, one which promotes a healthier future for both mother and child,” says Reimer. *Support was provided by the CIHR with trainee support from the Alberta Children's Hospital Research Foundation.* [Read more](#)



NEUROLOGICAL DISORDER BETTER UNDERSTOOD AND TREATED

Tyson Sawchuk, clinical psychologist at ACH, is collaborating in a five-nation global study to better understand non-epileptic seizures and their risk factors. The findings are published in *Seizure: European Journal of Epilepsy*. “This collaboration represents a major step forward towards recognition and advocacy,” says Sawchuk. Leah Zurbrigg tells her story of managing her disorder through therapy at the Alberta Children's Hospital. *The Children's Comprehensive Epilepsy Centre is supported by community donations through the Alberta Children's Hospital Foundation.* [Read more](#)



CANCER RATES RISE FOR YOUNG PEOPLE

Dr. Miranda Fidler-Benaoudia, PhD, led a study finding cancer rates in adolescents and young adults aged 15 to 39 went up dramatically between 1998 and 2012. The study examined cancer trends in 41 countries over 15 years. The results highlight future healthcare needs for treatment and the urgency for public health initiatives to mitigate the burden of cancer. The findings are published in *Journal of the National Cancer Institute*.

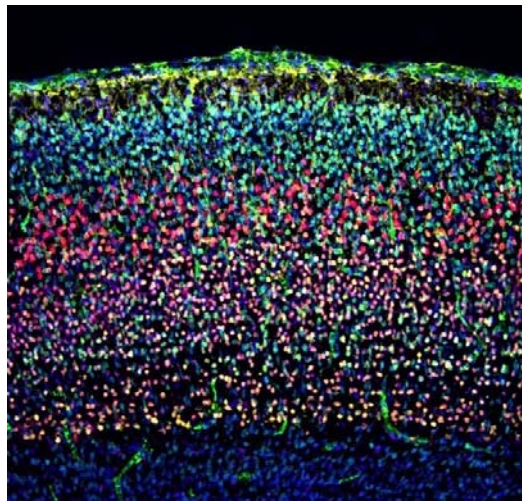
GRANT



MICROBIOME AND ASTHMA

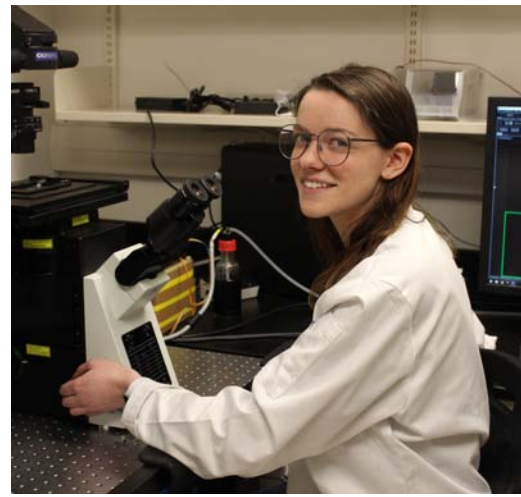
(Photo: [Canadian Museum of Nature](#)) The federal government and partners are investing \$18 million over five years in microbiome research which includes a grant to Dr. Marie Claire Arrieta, PhD, to study why children born prematurely are at a higher risk of developing asthma. “We will now be able to monitor clinical and environmental exposures unique to the neonatal intensive care unit (NICU) to help us investigate how the known alterations in the gut microbiome of premature babies contributes to airway inflammation and asthma later in life,” she says. [Read more](#)

LAB SPOTLIGHT



Microscopy Lab

This is a multi-channel image - 20x magnification of embryonic mouse brain tissue (photo above). Blue shows all the nuclei and each additional colour reveals a different molecular marker for cell type. The microscopy lab in HSC Room 2206 houses an Olympus confocal microscope equipped with a resonance scanner for high-speed imaging of living samples.



Trainee Emily Harvey (above photo) is a first year Master's student in the Yang lab.

Dr. Guang Yang, PhD, is conducting research to better understand how the trafficking, localization and interactions of RNA and proteins regulate neural stem cell fate decisions during mammalian brain development.

CARING FOR KIDS RADIOTHON



Country 105 Caring for Kids Radiothon supports state-of-the-art rapid diagnosis research technology

Thanks to community support for funding special equipment at the Alberta Children's Hospital to rapidly diagnose viruses and bacteria. **Dr. Stephen Freedman, MD**, leads research in rapid diagnosis to help children who become ill by infections.

Photo: Dr. Stephen Freedman being interviewed on the first day of Radiothon with parent Tamara Mathews. Global News [VIDEO](#)

GRANT OPPORTUNITIES

ACHRI Internal Funding Awards

[The Allied Health Research Award](#)

[Application and guidelines](#)

[The Shaikh Family Research Award](#)

[Application and guidelines](#)

These awards recognize, promote and support nurses and allied health professionals to perform clinical and/or translational research initiatives in child health. They also support research activities that are clinically significant, have

scientific merit, the potential for meaningful impact to advance shared priorities of ACHRI and AHS/Alberta Children’s Hospital.
Deadline for submissions: March 6, 2020

Newsletter schedule

The ACHRI Newsletter will be on a break Monday, February 17 for Alberta Family Day. We hope everyone has an enjoyable and relaxing holiday with their families and friends!

ACHRI CALENDAR OF EVENTS

Open to all investigators, clinicians, trainees and research staff, these events are supported by generous community donations through the Alberta Children's Hospital Foundation.

For additional details, please visit our **website**.

GRAND ROUNDS & LECTURES

Feb. 19 | Dr. Quan Long, PhD
Research in Progress Seminar
1 pm - 2 pm G382, Health Sciences Centre
Use Natural Language Processing to Identify Patient Concerns and Adverse Events from Electronic Medical Records

Feb. 20 | Dr. Monica Justice, PhD
Precision Medicine & Disease Mechanisms Program
11 am - 12 pm, Theatre 4, Health Sciences Centre
A genetic suppressor screen in Mecp2 mice implicates the DNA damage response in Rett syndrome pathology

Feb. 20 | Sara Austin
Child Health Research Rounds
8:30 am - 9:30 am ACH Auditorium
Raising Canada: Sounding the alarm on the state of childhood in Canada

Feb. 20 | Dr. Monica Justice, PhD
Precision Medicine and Disease Mechanisms Program
11 am - 12:00 pm Theatre 4, Health Sciences Centre, Foothills Campus
A genetic suppressor screen in Mecp2 mice implicates the DNA damage response in Rett syndrome pathology

Feb. 27 | Olivia Cullen, MSW, RSW, Doctoral Candidate
Dr. Gina Dimitropoulos, PhD, MSW, RSW, RMFT
Brooke Allemang, MSW, RSW
Child Health Research Rounds
8:30 am - 9:30 am ACH Conference Room 3
Patient oriented versus participatory action: Engaging young people in health research

Mar. 5 | Dr. Raylene Reimer, PhD, RD
Child Health Research Rounds
8:30 am - 9:30 am ACH Conference Room 3
The role of early-life gut microbiota and diet in programming chronic disease risk

Mar. 9 | Dr. Hilary Critchley, MD, FRCOG, FRSE
Precision Medicine & Disease Mechanisms Program
11 am - 12 pm, Theatre 4, Health Sciences Centre
Unmet clinical need: Menstrual bleeding, role of the endometrium and potential as a therapeutic target

CONFERENCES

Feb. 11 | [4th Annual Meeting DOHaD Canada](#)

Banff Centre for Arts and Creativity

Feb. 12 | [Canadian National Perinatal Research Meeting](#)

Banff Centre for Arts and Creativity

Mar. 6 | [33rd Annual Sebastian K. Littman Research Day](#)

Clara Christie Theatre, Health Sciences Centre

Mar. 19-22 | [Canadian Developmental Biology Meeting](#)

Banff Centre for Arts and Creativity

Mar. 23 | [APRON 10th Anniversary Research Day](#)

Alberta Children's Hospital Auditorium

May 5 | Doug Lockhart Memorial Oncology Research Day

Alberta Children's Hospital Auditorium

June 4 | [28th Annual Cumming School of Medicine Symposium](#)

Drs. Deborah Sloboda, Barbel Rohrer, Ami Bhatt, Jie Shen & Jenn Haverfield
Foothills Campus

June 10 | Owerko Centre Conference

Drs. Joanne Weinberg, PhD and Michael Kobor, PhD
Theatre Four, Health Sciences Centre

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research4kids.ucalgary.ca

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