December 7, 2022

CELEBRATING 100 YEARS OF ALBERTA CHILDREN'S HOSPITAL

Research is Care. Care is Research.

We are sharing the pride, vision and excitement for all that our research community has and will continue to achieve.

CONNECT WITH US

We invite you to share your stories of research excellence as we celebrate the Alberta Children's Hospital 100 years of hope + healing.

Researchers and Trainees, please email fiona.mackenzie@ucalgary.ca to set up a short interview. Stories will be shared in the newsletter and across social platforms throughout 2022.
Dr. Carly McMorris, a registered clinical child psychologist, is the director of The ENHANCE Lab, which promotes the mental health and well-being of children and youth with a neurodevelopmental disability (NDD). Dr. McMorris’ work has sought to fill the gaps in care that can often happen for families of neurodiverse youth. To do so, she has primarily focused on children who have been diagnosed with a NDD as well as a mental health issue such as anxiety, depression and suicidality.

This need inspired McMorris to implement the Facing Your Fears program in her research providing families with care that acknowledges both their child’s autism as well as their anxiety. Through the program, she has noted improvements in quality of life for both children and their caregivers. Read more.

Thanks to: Amy Coneybeare & Mave Cagas (Advancement)

2022 VANIER GRADUATE SCHOLARSHIPS

A huge congratulations goes out to the three outstanding ACHRI trainees on receiving a 2022 Vanier Graduate Scholarship. It’s one of the most prestigious doctoral awards available at UCalgary and is awarded to students who are conducting life-changing research that will have an impact far beyond the confines of our campus.

Congratulations to Isla Shill, PhD candidate in the Faculty of Kinesiology (Drs. Carolyn Emery and Brent Hagel) for her project exploring: The evaluation of a rugby-specific neuromuscular training warm-up in reducing injury and concussion rates in Canadian youth female rugby players.
Congratulations to **Janelle Boram Lee**, PhD student in the Department of Community Health Sciences (Drs. Nicole Letorneau and Kirsten Feist) exploring the *Intergenerational Transmission of Parental Exposure to Traumatic Experiences to Child Developmental Health: A Longitudinal Cohort Study*.

Congratulations to **Michaela Patton**, PhD student in Clinical Psychology (Dr. Fiona Schulte) for her work on *Internet-delivered cognitive-behavioral treatment for adolescent survivors of childhood cancer with chronic pain: A feasibility and pilot trial*. Read more.

**ROYAL SOCIETY OF CANADA HIGHLIGHT**

The UCalgary VPR office has created videos to celebrate the work of the **Royal Society of Canada** UCalgary inductees. Congratulations to **Dr. Melanie Noel** on being inducted into the College of New Scholars, Artists, and Scientists. Dr. Noel’s research focuses on the psychological aspects of children’s pain.

Watch the video.

**ANXIETY AND DEPRESSIVE SYMPTOMS IN CHILDREN WITH MIGRAINE**
Congratulations to **Dr. Serena Orr** and team on a recent publication in JAMA Pediatrics: *Anxiety and Depressive Symptoms and Disorders in Children and Adolescents With Migraine: A Systematic Review and Meta-analysis*. The study found that children and adolescents with migraine are at higher risk of anxiety and depressive symptoms and disorders (approximately double the odds). The association between internalizing symptoms, disorders, and migraine is complex, bidirectional, and driven by both environmental and genetic factors. The findings of this study strongly support the need for routine screening of depressive and anxiety symptoms and disorders when seeing children and adolescents with migraine in clinical practice.

**NEW ACHRI MEMBERS**

Welcome to **Dr. Brae Anne McArthur** who joins the Child Brain & Mental Health Program. Dr. McArthur’s research program focuses on understanding individual and family level risk and resiliency factors that impact child and youth mental health and well-being. Dr. McArthur’s research also applies positive psychology to scientifically study how young people cultivate psychological strengths and generate wellness and resilience. Using various research methods including qualitative, quantitative, and longitudinal designs, Dr. McArthur has studied child and youth mental health and well-being among at risk and healthy populations. Most recently, Dr. McArthur is actively involved in evaluating treatment outcomes for BIPOC and LGTBQIA2s+ youth seeking mental health services. [View profile](#).

**TRAINEE SUCCESS**
Congratulations to **Arsheen Rajan** who received the **2021 JB Hyne Research Innovation Award**. Arsheen is a PhD student in Dr. Peng Huang’s lab in the Department of Biochemistry and Molecular Biology. They are a developmental biology lab that uses zebrafish to study the formation of fibroblasts and model numerous human diseases. Arsheen’s work is focused on how fibroblasts in the zebrafish trunk modulate the regeneration of the tendon cells and structure after injury. She has identified a novel perivascular fibroblast cell population that plays a key role in this tendon regeneration process.

Congratulations to **Bilal Shakir**, a third year Biomedical Sciences student in the Bachelor of Health Sciences program on receiving the **Cumming School of Medicine award at the University of Calgary's Undergraduate Research Symposium**. Human development is one of Bilal’s primary interests, specifically the complex interplay between different cell types and tissues required for complex growth. His fascination in this area led him to exploring the mechanisms of craniofacial development at the **Hallgrímsson lab**. His current project focuses on developing an imaging protocol for light sheet, a novel microscopy approach that allows researchers to capture shape and cellular processes in 2D and 3D.

**PHYSICAL ACTIVITY FOR CHILDREN ON TREATMENT**

Congratulations to **Dr. Nicole Culos-Reed** and collaborators on receiving a CIHR Project Grant for Exploring the effectiveness and implementation of the IMPACT intervention: A physical activity program for children and adolescents on treatment for cancer. The study team has co-created, with key stakeholders, a tailored, 1:1, online physical activity intervention called the ‘IMPACT’ program (IMplementation of Physical Activity for Children and adolescents on Treatment) to enhance physical activity and well-being.

This study will be among the first examining effectiveness and implementation of an online physical activity intervention for young people.
diagnosed with cancer - and will be used scale the intervention across Canada.

ELF ON THE SHELF EXPLAINS THE BRAIN

Check out the Alberta Children's Epilepsy Program Etsy shop. The team has created a "Elf on the Shelf" memory game to provide a fun and interactive way for kids and families to learn about the brain and raise awareness around pediatric epilepsy. Brainy, the "Elf on the Shelf" explains the brain in the game, which is available in virtual and physical board games formats. Board games will be preordered and delivered prior to Christmas.

All funds will go to the Alberta Children's Hospital Foundation.

For more brain fun follow: @ExcitedBrains on Twitter, FB and Instagram. Through the month of December, Dr. Snuggles will explore what happens at a children's hospital. A great way for families to learn and raise awareness of what goes in a specialized pediatric hospital. Please share with your networks.

ACHRITA GIFT DRIVE & HOLIDAY TREATS

ACHRITA will be on-site at both Alberta Children's Hospital and Foothills Campus collecting toys, books and gifts for the Alberta Children's Hospital Foundation's Gift-In-Kind Program. ACHRITA will also be handing out holiday treats for everyone!
Need support with biostatistical areas in your research study?

ACHRI has a dedicated Biostatistics Consultant, Dr. Grace Kwong, providing biostatistical support for ACHRI members and trainees. To discuss your project needs, initiate a consultation.

We’d like to hear from you about your research, and any barriers and/or areas in which you could benefit from biostatistics capacity building.

2022 CHILD HEALTH AND WELLNESS RESEARCH RETREAT

ACHRI members, research staff and trainees will learn about each other’s work across Child Health and Wellness programs and Grand Challenge areas.

2022 Child Health and Wellness Research Retreat

Thursday, December 15, 8 am - 9:30 pm
Friday, December 16, 8:30 am - 1 pm

MacEwan Ballroom and Hall, UCalgary

Retreat Program

ACADEMIC CONSORTIUM FOR INTEGRATIVE MEDICINE AND HEALTH

Did you know that along with 75 other institutions, the University of Calgary is a member of the Academic Consortium for Integrative Medicine and Health? The mission of ACIMH is to advance integrative medicine and health through academic
institutions and health systems, with a vision of a transformed healthcare system offering integrative medicine and health for all.

You can join the consortium for free, and take advantage of member benefits including an academic journal, special interest groups, educational programs with CMEs, and a library of resources related to integrative medicine training and practice. For more information, visit the website, or contact our local Institutional Representative, Dr. Linda Carlson.

FUNDING OPPORTUNITIES

2022 The Koopmans Memorial Research Fund Competition
This endowment honours the late Henry S. Koopmans. It provides funds for innovative research into the mechanisms of food intake, energy balance or integrative GI physiology.
**Deadline: Friday, December 9, 2022**
Details

Genome Canada: Genomic Applications Partnership Program (GAPP) - Round 25
This opportunity funds downstream research and development projects driven by challenges and opportunities identified by end-users such as industry, government, not-for-profits, or other receptor organizations. This is an ongoing competition.
**Deadline: Monday, December 12, 2022 (EOI)**
Details

SSHRC Knowledge Synthesis Grant: Shifting Dynamics of Privilege and Marginalization
With additional funding from Genome Canada, this program aims to foster a deeper understanding about the shifting dynamics of privilege and marginalization brought about by a variety of factors, such as old and recent socio-political events; new technologies, including genomics; the new mis/information age; and the COVID-19 pandemic.
**Deadline: Monday, December 12, 2022**
Details

CIHR Clinical Trials Funding – SEED Grant
The Cumming School of Medicine and Alberta Health Services Clinical Research Fund is now open for seed applications. This opportunity will support the Eyes High strategic vision of leadership in high impact clinical research at UCalgary and promote the objectives of AHS strategy for research innovation and analytics.
**Deadline: Thursday, December 15, 2022**
Details

Public Health Agency of Canada - Healthy Canadians and Communities Fund
This program aims to prevent chronic disease with common behavioural risk factors, including diabetes, cancer, and cardiovascular disease. (ie. tobacco use, unhealthy eating, and physical inactivity). Projects supported by the HCCF need to address
these risk factors, as well as focus on priority populations who face health inequalities and are at greater risk of developing chronic disease.

**Deadline: Friday, December 16, 2022 (RSO Internal)**

**Details**

**Alex's Lemonade Stand Foundation - RUNX1 Early Career Investigator Program**
This award is designed to fund research investigating strategies that will lead to the development of therapies that will prevent the transition from pre-malignancy to overt hematologic malignancy in patients with RUNX1-FPD.

**Deadline: Wednesday, December 21, 2022**

**Details**

**CIHR Planning Grants for Implementing Healthy Urban Policy**
This program supports collaboration between city leaders and researchers and co-development of activities related to implementing and evaluating interventions in urban settings that would improve health and wellbeing.

**Deadline: Monday, January 2, 2023**

**Details**

**AHS Critical Care Strategic Clinic Network - 2022 New Investigator Seed Grant**
This program supports research proposals to provide critically ill patients with better care and better health outcomes. Proposals can target science and innovation in any part of the continuum. A priority area of interest is supporting critical care staff facing moral distress/injury and burnout.

**Deadline: Friday, January 6, 2023 (Intent to apply)**

**Details**

**Simons Foundation Neuroscience Collaborations – Call for Vision Statements 2023**
This call seeks vision statements to identify new, emerging breakthrough areas of neuroscience that are poised for high-impact funding by the Simons Foundation.

**Deadline: Wednesday, January 11, 2023**

**Details**

**Lloyd J. Old STAR Program**
This program provides grants of $1.25 million over 5 years to mid-career scientists. This long-term funding is not tied to a specific research project, but aims to provide flexibility for investigators to explore outside-the-box and disruptive avenues of research.

**Deadline: Wednesday, January 11, 2023 (RSO Internal)**

**Details**

**2023 SSHRC Insight Development Grant**
These grants enable the development of new research questions, as well as experimentation with new methods, theoretical approaches and/or ideas. Funding is
provided for short-term research development projects of up to two years that are proposed by individuals or teams.

**Deadline: Thursday, January 19, 2023 (RSO Internal)**

**Details**

**CIHR dedicated funding for Collaboration with the European Commission - Joint Transnational Calls.**

The Canadian dedicated funding will support the involvement of Canadian researchers in multinational research consortia in the following areas: neurodegenerative diseases, rare diseases, and antimicrobial resistance.

**Details**

Contact Brandi Povitz to confirm CIHR and RSO Internal deadline(s).

Visit ACHRI website for funding opportunities.

**TRAINEE FUNDING OPPORTUNITIES**

**Alex's Lemonade Stand Foundation: Young Investigator Award**

This award supports early career researchers pursuing promising childhood cancer research ideas and who demonstrate a commitment to a research career in pediatric cancer. A mentor is required, as well as a career development plan.

**Deadline: Wednesday, December 21, 2022**

**Details**

**Brain Tumour Foundation of Canada - Studentship Grant**

This program supports research for adult or pediatric brain tumour research that is Basic, Clinical or Translational in nature.

**Deadline: Friday, January 6, 2022**

**Details**

**ACHRI Graduate Scholarship**

ACHRI Graduate Scholarships (MSc/PhD) are competitive internal awards for the purpose of providing stipend support to trainees pursuing graduate research.

**Deadline: Monday, January 9, 2023**

**Details**

**CIHR – Institute of Neurosciences, Mental Health and Addiction (INMHA) - Brain Star Award**

The specific objectives of the Brain Star program are to: promote research careers in neuroscience, mental health and addiction in Canada and stimulate the involvement of students and trainees in the Institute and increase awareness of INMHA activities among students and trainees.

**Deadline: Sunday, January 15, 2023**

**Details**
Visit ACHRI website for trainee funding opportunities.

If you haven't done so please complete the ACHRI Trainee Registration Form.

EVENTS AND SEMINARS

Owerko Neurodevelopmental Clinical Rounds
Treating Anxiety Among Children and Adolescents with Autism and ADHD: Updates from the Facing Your Fears Program
Wednesday, December 7, 2022
12 - 1 pm
Dr. Carly McMorris & Stephanie Howe (PhD Candidate)
Register

Developmental Genetics
Research-In-Progress Seminar Series
Wednesday, December 14, 2022
1 - 2 pm
Harmony Fong & Dr. Jing Zheng (Kurrasch Lab)
Health Sciences Centre (HSC) 1405A

Neonatal Grand Rounds
The Role of Artificial Intelligence Technologies in Medicine and Research
Wednesday, December 14, 2022
4 - 5 pm
Dr. Joon Lee
Register

Calgary Adapted Hub: Research and Community Engagement Meeting
Adapted Physical Activity after Traumatic Brain Injury
Wednesday, December 14, 2022
4 - 5 pm
Dr. Enrico Quilico
Register

For all events visit the ACHRI calendar.

SEND US YOUR NEWS!

Please send discoveries, research publications, and grants to Fiona Mackenzie at r4k@ucalgary.ca
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