

## 2025 Summer Students' Research Program

### 58<sup>th</sup> Annual Summer Students' Research Day

#### POSTER PRESENTATION AWARD RECIPIENTS

Student	Supervisor	Department
<b>Muhammad Ali</b> STROMAL DECIDUALIZATION MAY BE IMPAIRED DURING ADVANCED AGE PREGNANCY	<b>Dr. Meghan Riddell</b>	<b>Obstetrics &amp; Gynecology</b>
<b>Arshjot Benipal</b> PHOX2B <sup>+7Ala</sup> MUTATION IN THE SOLITARY TRACT NUCLEUS REDUCES CENTRAL CO <sub>2</sub> CHEMOREFLEX RESPONSES IN RATS	<b>Dr. Siliva Pagliardini</b>	<b>Physiology</b>
<b>Nicole Berthiaume</b> RECRUITMENT OF NUCLEAR PORE COMPLEX PROTEINS TO ROTAVIRUS VIRAL FACTORIES	<b>Dr. Lorne Tyrrell</b>	<b>Medical Microbiology &amp; Immunology</b>
<b>George Brownrigg</b> LONG-TERM OUTCOMES IN PEDIATRIC RECIPIENTS OF AUTOLOGOUS ISLET TRANSPLANTATION: AN OBSERVATIONAL COHORT STUDY	<b>Dr. A.M. James Shapiro</b>	<b>Surgery</b>
<b>Thomas Colyn</b> WHY SO SEVERE? INVESTIGATING THE CLEAVAGE OF GALECTIN-8 BY CORONAVIRUS MAIN PROTEASES TO GAIN INSIGHT INTO SEVERE RESPIRATORY ILLNESSES	<b>Dr. Joanne Lemieux</b>	<b>Biochemistry</b>
<b>*Callum French</b> FROM SCREEN TO SCALPEL: ASSESSING SURGICAL WOUND MANAGEMENT SKILLS AMONG JUNIOR SURGICAL RESIDENTS COMPLETING A BRIEF ONLINE COURSE	<b>Dr. Alexis Armour</b>	<b>Surgery</b>
<b>Christos Gallegos Somatopoulos</b> HUMAN PARAINFLUENZA 3 MANIPULATES HOST TRANSLATION MACHINERY	<b>Dr. David Marchant</b>	<b>Medical Microbiology &amp; Immunology</b>
<b>Jack Hayhoe</b> 3D PRINTED, LOW-COST ELECTRICAL CONNECTORS FOR PORTABLE MRI SCANNERS FOR REMOTE HEALTHCARE	<b>Dr. Nicola De Zanche</b>	<b>Oncology</b>
<b>*Jing Huang</b> LANDSCAPE OF GUIDELINES IN NORTH AMERICA FOR COMMON PRIMARY CARE CONDITIONS	<b>Dr. Tina Korownyk</b>	<b>Family Medicine</b>
<b>Jocelyn Kay</b> DECODING COMPLEX LOCALIZATION DETERMINANTS WITHIN KMT5B INTRINSICALLY DISORDERED REGION	<b>Dr. Alan Underhill</b>	<b>Oncology</b>
<b>Justine Lai</b> T-CELL GENE EXPRESSION PROFILE AS A PREDICTIVE MARKER OF CAR T-CELL THERAPY RESPONSE	<b>Dr. Michael Chu</b>	<b>Oncology</b>
<b>Pei Yu (Alex) Liu</b> THE CD4 <sup>+</sup> T CELL RESPONSE TO HIGH AND LOW AFFINITY PEPTIDES IS MODULATED BY BTLA AND PD-1 COINHIBITORS	<b>Dr. Colin Anderson</b>	<b>Surgery</b>
<b>Aidan Ly</b> INVESTIGATING THE IMPACT OF ACETYLATION-MIMICKING MUTATIONS ON TAU FOLDING AND AGGREGATION	<b>Dr. Sue-Ann Mok</b>	<b>Biochemistry</b>
<b>Natalie Nakatsui</b> INVESTIGATING IMPAIRED BLOOD VESSEL REMODELLING IN ADVANCED AGE PREGNANCIES USING A MURINE MODEL	<b>Dr. Meghan Riddell</b>	<b>Obstetrics &amp; Gynaecology</b>

## POSTER PRESENTATION AWARD RECIPIENTS CONT'D

Student	Supervisor	Department
<b>Gabriel Nasr</b>	<b>Dr. Nikolai Malykhin</b>	<b>Psychiatry</b>
CONTRIBUTIONS OF HIPPOCAMPAL WHITE MATTER CONNECTIONS TO EPISODIC MEMORY FUNCTION IN HEALTHY AGING; A 4.7T DIFFUSION TENSOR IMAGING STUDY		
<b>Avery Noppers</b>	<b>Dr. Stephane Bourque</b>	<b>Anesthesiology &amp; Pain Medicine</b>
BIOMARKERS FOR SEPSIS-ASSOCIATED ACUTE KIDNEY INJURY IN A MURINE MODEL OF PERITONITIS		
<b>Leenah Qureshi</b>	<b>Dr. Anastassia Voronova</b>	<b>Medical Genetics</b>
ANKRD11 IS A CRITICAL REGULATOR OF NEURAL STEM CELLS IN THE HIPPOCAMPUS		
<b>Livia Rainville</b>	<b>Dr. Emmanuelle Cordat</b>	<b>Physiology</b>
INVESTIGATING THE USE OF EMPAGLIFLOZIN AS A POTENTIAL TREATMENT FOR dRTA		
<b>Ahmad Refaat</b>	<b>Dr. Wael Elhenawy</b>	<b>Medical Microbiology &amp; Immunology</b>
THE ASSEMBLY OF A HYBRID TYPE IV SECRETION SYSTEM BY A CROHN'S DISEASE-ASSOCIATED ESCHERICHIA COLI STRAIN		
<b>Sarah Strick</b>	<b>Dr. Christopher Power</b>	<b>Medicine</b>
INVESTIGATING GASDERMIN-E AND -D IN MULTIPLE SCLEROSIS-ASSOCIATED NEUROINFLAMMATION		
<b>Efia Wiredu</b>	<b>Dr. Meghan Riddell</b>	<b>Obstetrics &amp; Gynaecology</b>
DEVELOPING A UTERINE NATURAL KILLER CELL ISOLATION PROTOCOL FOR IN VITRO CELL CULTURE TO STUDY ADVANCED AGE PREGNANCY		
<b>Coen Wojcicki</b>	<b>Dr. Kalyan Das</b>	<b>Medical Microbiology &amp; Immunology</b>
BIOPHYSICAL CHARACTERIZATION OF RECOMBINANT LASA VIRUS RNA-DEPENDENT RNA POLYMERASE (LASV RdRp)		
<b>Erica Zhang</b>	<b>Dr. Kristi Baker</b>	<b>Oncology</b>
IDENTIFYING DIFFERENCES IN MACROPHAGE PHAGOCYTOSIS AND ANTIGEN PRESENTATION IN COLORECTAL CANCER SUBTYPES		

\*Top 2 MD Students selected to represent the Faculty of Medicine & Dentistry (FoMD) and the University of Alberta at the annual National Student Research Forum hosted in Galveston, Texas in the Spring of 2026.

**Congratulations!**