

2025 Summer Students' Research Program

58th Annual Summer Students' Research Day

POSTER PRESENTATION AWARD RECIPIENTS

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

POSTER PRESENTATION AWARD RECIPIENTS CONT'D

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

*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!