

2026 Summer Students' Research Program

59th Annual Summer Students' Research Day

POSTER PRESENTATION AWARD RECIPIENTS

Student	Supervisor	Department
Lori Adrovic DETECTING MISTRANSLATED PROTEINS DURING OXIDATIVE STRESS	Dr. Sue-Ann Mok	Biochemistry
Brielle Airey THE IMPACT OF A 0.5T BIPLANAR LINAC-MR MAGNETIC FIELD ON RADIATION-INDUCED DNA DAMAGE REPAIR IN NORMAL SKIN FIBROBLASTS	Dr. Armin Gamper	Oncology
Zinadine Asdaghi H2FPEF SCORE ACROSS CLINICALLY DEFINED ETIOLOGIES OF HFPEF IN A PROSPECTIVE DUAL-CENTRE HEART FUNCTION REGISTRY	Dr. Gavin Oudit	Medicine
Ocean Andrei Bautista ACUTE EFFECTS OF THC ON RESPIRATORY FUNCTION ACROSS DEVELOPMENTAL STAGES IN RATS	Dr. Silvia Pagliardini	Physiology
Aeden Beide ASSESSING ARM AND HAND FUNCTION AFTER BRAIN-COMPUTER INTERFACE WITH FUNCTIONAL ELECTRICAL STIMULATION THERAPY IN CHILDREN WITH CEREBRAL PALSY	Dr. Monica Gorassini	Medicine
Aiden Choo DECREASING UMN BURDENT SCORES IN ALS: CLINICAL IMPROVEMENT OR ONGOING NEURODEGENERATION?	Dr. Sanjay Kalra	Medicine
Jakub Fiala UNCOVERING THE MYSTERIOUS ROLE OF CASPASE-7 AND ITS SUBSTRATES IN SYNCYTIOTROPHOLBLAST PYROPTOSIS	Dr. Olivier Julien	Biochemistry
Sean Ghose INVESTIGATING THE IMPACT OF SALMONELLA EFFECTOR PROTEIN SSPH2 ON IRAK1 ACTIVITY	Dr. Amit Bhavsar	Medical Microbiology & Immunology
Syed Hasan HEALTHCARE PROVIDERS' PERSPECTIVE ON USING DIGITAL TECHNOLOGY TO SUPPORT INPATIENT MOBILITY	Dr. Rachel Khadaroo	Surgery
*Ehlam Iftikhar ER-PLASMA MEMBRANE TETHERING REGULATES ECTOSOME FORMATION IN PARKINGOSON'S DISEASE	Dr. Maria Ioannou	Physiology
Natasha Iwuc FINDING THE NEEDLE IN THE HAYSTACK BEFORE THE HAYSTACK CATCHES FIRE: USING MACHING LEARNING TO DETECT EARLY PRECLINICAL SIGNALS OF NEURODEGENERATIVE DISEASE	Dr. James Mackay	Pharmacology
XINGYU LAI DECIPHERING HOW DRG-RESIDENT CCR2+ MACROPHAGES SHAPE THE NEUROPATHIC PAIN AFTER SPARED NERVE INJURY USING XENIUM SPATIAL TRANSCRIPTOMICS TOOL	Dr. Bradley Kerr	Anesthesiology & Pain Medicine
Claudia Lopez Diaz A COMPARISON OF THE CONTENTS AND PROTECTIVE QUALITITES OF HEAT SHOCK AND CISPLATIN-INDUCED EXTRACELLULAR VESICLES IN HEI-OC1 CELLS AGAINST CISPLATIN-INDUCED OTOTOXICITY	Dr. Amit Bhavsar	Medical Microbiology & Immunology
Cody McCloy OPTIMIZING OF DOUBLE-STRANDED RNA PRODUCTION FOR RNAi-BASED BIOPESTICIDE TO CONTROL DARKLING BEETLE POPULATIONS IN POULTRY HOUSES	Dr. David Stuart	Biochemistry

POSTER PRESENTATION AWARD RECIPIENTS CONT'D

Student	Supervisor	Department
Kainat Meherali DIFFERENTIAL MODULATION OF PACLITAXEL-AND CISPLATIN-INDUCED NEURITE DEGENERATION BY NON-NEURONAL CELLS WITH IMPLICATIONS FOR TLR4 SIGNALLING	Dr. Bradley Kerr	Anesthesiology & Pain Medicine
Ramanuj Rallapalli SIALIC ACID AS A BARRIER TO ONCOLYTIC VIROTHERAPY: NEURAMINIDASE-ARMED VACCINIA VIRUSES OVERCOME BARRIERS TO SPREAD WITHIN TUMORS	Dr. Ryan Noyce	Medical Microbiology & Immunology
Jana Sharaby SELECTIVE IMMUNOMODULATORY DRUG-INDUCED DEGRADATION OF RNF166 REVEALS STRUCTURAL DETERMINANTS OF CEREBLON RECOGNITION OF CEREBLON RECOGNITION AND THERAPEUTIC OPPORTUNITIES IN MULTIPLE MYELOMA	Dr. Ismail Ismail	Oncology
Alyssa Spyrapoulos DEFICIENCIES IN ENDOTHELIAL CELL PROLIFERATION DURING ADVANCED AGE PREGNANCY	Dr. Meghan Riddell	Physiology
Linden Stuart ACUTE INFLAMMATORY TREATMENT ALTERS THE SECRETORY PROFILE OF THE FIRST TRIMESTER PLACENTA	Dr. Meghan Riddell	Physiology
Alex Want ANTERIOR CINGULATE CORTEX – DORSAL HIPPOCAMPAL ANATOMICAL CONNECTIVITY DEMONSTRATES AGE-DEPENDENT RETRACTION FROM THE NEONATAL PERIOD	Dr. Jesse Jackson	Physiology
*Siyi Zhang EXPRESSION OF VASCULAR, NEURAL & EXTRACELLULAR MATRIX MOLECULES DURING IN VITRO PIG ISLET DEVELOPMENT	Dr. Gina Rayat	Surgery
Tinghao Zhang ESTABLISHMENT OF A HUMAN SPINAL CORD ORGANOID PLATFORM FOR MODELING AUTISM SPECTRUM DISORDERS	Dr. Sandeep Gupta	Cell Biology

*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 2027.

Congratulations!