CASE WESTERN RESERVE UNIVERSITY
School of Medicine

# GRADUATE AND MEDICAL STUDENT RESEARCH DAY



**Tinkham Veale University Center**

**October 15, 2026**

# Schedule of Events

| | | | |
|---|---|---|---|
| 8:00 am-8:30 am | **Breakfast and Registration** | TVUC upper lobby | |
| 8:30 am | **Dean's Welcome**<br>**Speaker: Dean Gerson, MD** | Ballroom B | |
| 8:40 am | **Keynote Speaker Introduction**<br>**Speaker: Jim Anderson, MD, PhD** | | Speaker biography on page 8 |
| 8:45am-9:45 am | **Keynote Address "Regenerative Medicine: Current Concepts and Changing Trends"**<br><br>**Speaker: Anthony Atala, MD** | | |
| 10:00 am - 11:30am | **Morning Poster Presentations** | Ballroom AC | Titles and authors on pages 14-25; topic key on page 10 |
| 11:30 am-12:00 pm | **Break to pick up lunch** | TVUC upper lobby | |
| 12:00 pm - 1:15 pm | **Oral Presentations Session – Clinical Focus**<br><br>**Moderator: David Lodowski, PhD** | Ballroom B | Titles and authors on page 12 |
| 1:30 pm-3:00 pm | **Afternoon Poster Presentations** | Ballroom AC | Titles and authors on pages 26-36; topic key on page 10 |
| 3:05 pm-4:20 pm | **Oral Presentations Session— Basic Science Focus**<br><br>**Moderator: Bill Schiemann, PhD** | Ballroom B | Titles and authors on page 13 |
| 4:20 pm-4:30 pm | **Closing Remarks & Presentation of Student and Mentor Awards**<br><br>**Speakers: Lia Logio, MD & Mark Jackson, PhD, MBA** | Ballroom B | Event evaluation, 37 |

# Welcome

**Dear Students, Faculty, Trainees, Staff and Guests:**

Welcome to the fourth annual Case Western Reserve University School of Medicine Graduate and Medical Student Research Day. The goals of this event are to showcase research and innovation within the medical school and to encourage deep dialogue and cross-program exchanges between medical and graduate students, faculty and trainees.

Today we spotlight research conducted by over 200 graduate and medical students, presented in oral and poster presentations. We welcome our keynote speaker, scientist and mentor Anthony Atala, MD, visiting from Wake Forest Institute for Regenerative Medicine. The variety of student presentations and Dr. Atala's own work are a testament to the power of translational, clinical and basic science discovery and the many contributions that research across the spectrum can have on better understanding biomedical processes and improving care for patients.

Organizing a large event takes a team effort. We would like to thank the students, faculty and staff listed in this program who have contributed in so many ways: these include members of the planning committee, as abstract or presentation judges, and as moderators and presenters. The resources that support this event are funded by an endowment from an anonymous donor, whose support of this event we deeply appreciate.

To the students who are presenting today, we hope this is the beginning of a rewarding journey in biomedical science and research. For those who are earlier on in their training or attending in the audience, we hope today will inspire you to think about what you can accomplish in research. We look forward to hearing your presentations at a future School of Medicine Graduate and Medical Student Research Day. **Please save the date for the 2027 edition of this event, Thursday October 7, 2027.**

Part of what is both inspiring and important about research is making human connections between people whose ideas might be new and different from your own. In that spirit, we challenge each of you to put down your phone for a moment and talk to someone new today—visit as many posters as possible, ask questions or otherwise engage across disciplinary or programmatic silos. There is so much to learn and so many collaborations to be started—these connections are how breakthroughs are made!

Stan Gerson, MD
Dean
School of Medicine

Lia Logio, MD
Vice Dean, Medical Education
School of Medicine

Mark Jackson, PhD, MBA
Vice Dean, Graduate Education
School of Medicine

# Special Thanks

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Marjan Ghourchian, PhD; SOM Graduate Education Office
Sara Hart, Office of Medical Student Research

Special thanks to Tracey Bonfield, PhD for coordinating additional engagement activities with Dr. Atala.

# Congratulations!

## 2026 Outstanding Mentor Award Recipients

Anna Bruchez, PhD, Case Western Reserve
Andra Duncan, MD, Cleveland Clinic
Timothy J Mead, PhD, University Hospitals
Kurt Stange, MD, PhD, Case Western Reserve

# Special Thanks

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# Special Thanks

## Faculty and Senior Trainee Presentation Judges (as of 10/2/26)

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Nicholas Ziats, PhD; Case Western Reserve University

# Keynote Speaker

8:45-9:45 AM; Ballroom B



## Regenerative Medicine: Current Concepts and Changing Trends

Anthony Atala, MD
G. Link Professor and Director
Wake Forest Institute for Regenerative Medicine

Dr. Anthony Atala is the G. Link Professor and Director of the Wake Forest Institute for Regenerative Medicine. His research led to the first tissue engineered organ for permanent implantation in a human, the discovery of a novel highly multipotent source of stem cells derived from amniotic fluid and placenta that are being used clinically, the advancement of 3D printing strategies for manufacturing tissues and organs, and the use of regenerative medicine strategies to create organoid and body on a chip technologies currently being applied for patient related indications. Eighteen applications of technologies developed in Dr. Atala's laboratory have been used clinically.

Dr. Atala is a member of many prestigious organizations including the National Academy of Medicine, the National Academy of Inventors, and to the American Institute for Medical and Biological Engineering. His work has been recognized by organizations from the US Congress (Dr. Christopher Columbus Foundation Award) to Time Magazine (top 10 medical breakthroughs of the year, and as one of 5 discoveries that will change the future of organ transplants) and Nature Biotechnology (one of the top 10 translational researchers in the world). He has been a founder and leader of many regenerative medicine related societies including the Tissue Engineering Society and the Regenerative Medicine Society.

Dr. Atala has led or served government committees, including the National Institutes of Health working group on Cells and Developmental Biology, the National Institutes of Health Bioengineering Consortium, and the National Cancer Institute's Advisory Board. Dr. Atala is editor of 25 books and 2 journals, has published more than 900 journal articles, and has applied for or received over 300 national and international patents. He has trained over 282 graduate students and post-doctoral fellows and has been the PI of an NIH T32 Training Grant since 2014.

# Presentation Information

Presentation titles and student author information are listed in the subsequent pages by session. Some posterboards have intentionally been left blank, leading to non-consecutive poster numbers.

The following abbreviations are used throughout the list for student programs.

MD—UP: CWRU University Program for MD degree
MD—CP: CWRU/CCLCM College Program for MD degree
MSTP: Medical Scientist Training Program (MD/PhD program)

Asterisks beside the presenter number represent the following:
* Outstanding oral or poster presentation awardee
** Poster was displayed without a presenter

Additionally, students who participated in the following 2026 summer research programs are noted with superscripts

1- Digestive Health Institute Medical Student Summer Research Program (T35)
2- Case Comprehensive Cancer Center Summer Medical Training Program
3- Medical Student Summer Research Program in Aging and Alzheimer's Disease (T35)

**Posters have been organized by student-designated topic:**

| AM Poster Numbers | Topic |
|---|---|
| AM1-5 | Biochemistry |
| AM6-11 | Biomedical Engineering |
| AM12-15 | Community Health |
| AM16 | Emergency Medicine |
| AM17-20 | Gastroenterology |
| AM22-26 | Health Disparities |
| AM27-28 | Medical Education |
| AM29-33 | Molecular Biology/Microbiology |
| AM34-40 | Neurosciences |
| AM41-57 | Ophthalmology |
| AM60-80 | Orthopedics |
| AM82-91 | Otolaryngology |
| AM92-101 | Pediatrics |
| AM102-103 | Physiology/Biophysics |
| AM104-105 | Psychiatry |
| AM106-108 | Radiology |
| AM109-121 | Surgery |

| PM Poster Numbers | Topic |
|---|---|
| PM1-8 | Anesthesiology |
| PM9-19 | Cardiology |
| PM20-29 | Dermatology |
| PM31 | Environmental Health Sciences |
| PM32-35 | Epidemiology/Biostatistics |
| PM36-38, PM112 | General Medicine |
| PM39-47 | Genetics |
| PM48-57 | Hematology/Oncology |
| PM58-60 | Molecular Medicine |
| PM61-63 | Neurology |
| PM64-67 | Neurosurgery |
| PM68-72 | Nutrition |
| PM73-79 | Other |
| PM80-84 | Pathology |
| PM85-92 | Pharmacology |
| PM93-95 | Plastic Surgery |
| PM96-97 | Public Health/Public Policy |
| PM98-100 | Radiation Oncology |
| PM101-104, PM111 | Reproductive Biology |
| PM105-110 | Urology |

**Full text of each abstract is available via QR code:**



**Note:** Abstract site requires CWRU login. Full abstracts are accessible through November 30, 2026.

# Oral Presentation Session 1: Clinical Focus

12:00 PM-1:15 PM; Ballroom B

Moderator David Lodowski, PhD

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| OP 1.1 | Shin | Jiwook | MD--UP | Immune Deficiency as a Risk Factor for Repeat Tympanostomy Tube Placement in Pediatric Patients with Recurrent Otitis Media |
| *OP 1.2 | Blincoe | Madelaine | PhD program | Machine Learning-Based Decoding of Gait Speed Intent after Spinal Cord Injury from Wearable Sensors for Future User-Driven Neuroprostheses |
| OP 1.3 | Shah | Krish | MD--UP | Positive Airway Pressure Adherence and Longitudinal Outcomes in Neovascular Age-Related Macular Degeneration |
| OP 1.4 | Wang | Patrick | MD--UP | Intraoperative Blood Pressure Monitoring Methods and Postoperative Outcomes in Noncardiac Surgery Patients with a Left Ventricular Assist Device |
| OP 1.5 | Agreda | Jasmine | MD--UP | Risk-outcome mismatch predicts postoperative decisional regret in patients undergoing surgery for benign prostatic hyperplasia |
| *OP 1.6 | Westrum | Ben | MD--UP | Actinic Keratosis and Cutaneous Squamous Cell Carcinoma Risk by Donor Type Among Kidney Transplant Recipients |

# Oral Presentation Session 2: Basic Science Focus

3:05-4:20PM PM; Ballroom B

Moderator Bill Schiemann, PhD

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| OP 2.1 | Hutson | Anelise | PhD program | Structural Insights into Regulation of Mitochondrial Fission |
| OP 2.2 | Nguyen | Linh | PhD program | Honey-derived Extracellular vesicles protected aged mice from metabolic dysfunction-associated steatotic liver disease (MASLD) |
| *OP 2.3 | Stiffler | Eiman | MD--UP | ADAMTS6 Loss of Function Causes Congenital Diaphragmatic Hernia and Renal Anomalies: Two Probands and a Mouse Model |
| OP 2.4 | Williams | Marnie | PhD program | Investigating proteostasis disruption in GABRA1 frameshift mutations and its implications for epilepsy pathogenesis |
| OP 2.5 | Hutchinson | Diarmuid | PhD program | Drugless Pretreatment Enhances the Systemic Circulation of Anti-Cancer Lipid Nanoparticles (LNPs) |
| *OP 2.6 | Seidita | Elizabeth | PhD program | The Role of TGFBRAP1 Overexpression in Endosomal Virus Entry Restriction |

# Morning Poster Presentations

10:00-11:30 AM; Ballroom AC

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| *AM1 | Snell | John | PhD program | High Throughput Characterization of Eukaryotic 2A-Like Peptides Identifies Novel Leucine-Associated Reduction in Protein Abundance |
| AM2 | Swigris | Jaclyn | PhD program | Characterization of a novel vitamin D3 intracellular binding protein |
| AM3 | Buch | Anika | MD--UP[1] | Characterization of the in vitro pharmacologic properties of metabolic inhibitors in pancreatic ductal adenocarcinoma (PDAC) |
| AM4 | Lepak | Caylin | PhD program | Investigating the Role of Epigenetic Regulator LSD1 in Cardiac Development |
| *AM5 | Epp | Rebecca | PhD program | CDK10 Maintains Chromosomal Stability and Promotes Tumor Growth in Triple Negative Breast Cancer (TNBC) |
| AM6 | Tran | William | MD--UP[3] | Predicting Upper Extremity Rehabilitation Response in the Chronic Phase of Stroke |
| AM7 | Chavali | Srikanth | PhD program | Home Use of a Sensory Neuroprosthesis Reduces Rates of Falls and Stumbles |
| AM9 | Hauck | Lindsey | PhD program | Elicited Plantar Sensation via Neural Stimulation Modulates Muscle Activity in the Residual Limb |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| *AM11 | Petros | Eileen | PhD program | Effects of a Sensory Neuroprosthesis on Anticipatory Postural Adjustments during Gait Initiation |
| AM12 | Sangani | Sejal | MD--UP[3] | Intersection of Firearm Ownership and Alzheimer's Disease and Related Dementias |
| AM13 | Kouyate | Thomas | MD--CP | Emergency Department versus Primary Care Utilization Post Insurance Enrollment: A Retrospective Cohort Study |
| AM14 | Krishnan | Anika | MD--UP | The Driving Force Behind Quality Improvement?: A Closer Look at Plan-Do-Study-Act Cycles in a Regional Quality Improvement Collaborative |
| AM15 | Mai | Uyen | MSTP | Comparing Patron and Pantry Worker/Volunteer Perspectives on Adapting a Tobacco Cessation Intervention for Food Pantry Implementation |
| AM16 | Baerman | Logan | MD--UP | Efficacy of a Novel Emergency Department Based Peer Recovery Coach Program to Combat Stimulant Use Disorder |
| AM17 | Wang | Mark | MD--UP[1] | The Impact of Social Determinants of Health on Inflammatory Bowel Disease Outcomes |
| AM18 | Farrell | Sonya | MD--UP[1] | Real-World Outcomes Following Abnormal Noninvasive Colorectal Cancer Screening: A Retrospective Cohort Study |
| AM19 | Loscalzo | Emely | MD--UP[1] | Frequency and Clinical Characteristics of Post-colonoscopy Colorectal Cancer (CRC) in Young Onset CRC: A National Database Study |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM20 | Ahmed | Azam | MD--UP[1] | Racial Disparities in Clinical Outcomes and Care Utilization Among Patients with Inflammatory Bowel Disease: A Retrospective Cohort Study |
| *AM21 | Chen | Christy | MD--UP[1] | An Alternative to Ileoscopy for Monitoring Crohn's Disease Recurrence in Patients with Permanent Ileostomy: A Novel Non-Invasive Method Using the Breath Metabolome |
| AM22 | Dhillon | Taj | Masters program | Lead & Suicidal thoughts and behaviors among minority adolescents in the Cleveland Area |
| AM23 | Montgomery | Skylar | MD--UP | Investigating the Impact of Social Determinants of Health on Multimorbidity Burden in Gynecologic Oncology Patients: A SEER-MHOS Study |
| AM24 | Choi | Esther | MD--UP | The Effects of Area Deprivation Index on Pediatric Cochlear Implant Candidates |
| AM25 | Anand | Sasha | MD--UP | Differences in Antibiotic Prescribing for Community-Acquired Pneumonia (CAP) Between Rural and Urban Settings |
| *AM26 | Babatunde | Ifeoluwa | PhD program | Advancing Healthcare for All Children Starts with Equitable Clinical Guidance: The Creation of an Equity-Conscious Roadmap to guide Pediatric Clinical Policy Developers |
| AM27 | Zaniewski | Catriona | MD--UP | Teaching Cancer CALM: Culinary and Lifestyle Medicine (CALM) Education for Cancer Risk Reduction (CRR) |
| AM28 | Weiland | Aaron | MD--UP | Medical Student Perceptions of Preparation and Anxiety for the Surgery Clerkship Oral Examination |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM29 | Ang | William | MD--CP | Distinct Tumor Microbiomes Differentiate the Two Lineages of Tasmanian Devil Facial Tumor Disease |
| AM30 | Overend | Steven | PhD program | The impact of HMGB1 interaction with RIG-I on detection of viral nucleic acids and innate immune activation |
| AM33 | Verma | Amol | MD--UP | Expansion Medium and Donor Variability in the Inflammatory IL-6 Response of Human Mesenchymal Stromal Cells |
| AM34 | Ajon | Amara Breanne | MD--UP | Network-Based Characterization of Molecular Heterogeneity Reveals Distinct Alzheimer's Disease Subtypes |
| AM35 | Shapiro | David | PhD program | Microbiome Manipulation as a Therapeutic Approach to Modulate Meningeal Lymphatic Vasculature |
| AM36 | Noel | Kamryn | PhD program | Assessing the neuroprotective potential of brain NAD+/NADH homeostasis in Î±-synuclein-driven Parkinson’s disease models |
| AM38 | Yun | Yuhyun (McKenzie) | PhD program | Investigating the Role of Ptprd Signaling in Tau Pathology |
| *AM40 | Singh | Shwetank | PhD program | Seizure Detection with Spheres |
| **AM41 | Xu | Kevin | MD--UP | Deep Learning Detection of Corneal Guttae in Donor Endothelial Cell Images |
| AM42 | Maqbool | Hasan | MD--UP | Comparative IOP Reduction and Immunohistochemical Outcomes of Latanoprost, Latanoprostene Bunod, and Latanoprost-Netarsudi |
| AM43 | Saini | Anjali | MD--UP[3] | Validation of the DJ1 Mutant as a Microbiome-responsive Age-related Retinal Degeneration Mouse Model |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM44 | Kuo | Joyce | MD--UP | Flavoprotein Fluorescence Imaging of Optic Disc Drusen in Pediatric Patients |
| *AM45 | Lee | Soobien | MD--UP | Molecular and Structural Effects of Latanoprost, Latanoprostene Bunod, and Latanoprost-Netarsudil in Human Trabecular Meshwork Cells |
| AM46 | Liu | Mingda | PhD program | Pharmacochaperone-Based Targeting of Unliganded Cone Opsin-Induced Retinal Degeneration in *Stra6*$^{-/-}$ Mice |
| **AM47 | Porter | Cedric | MD--UP | Chronic Pain and Fatigue Disorders and Risk of Central Serous Chorioretinopathy |
| AM48 | Puig III | Enrique | MD--UP | Agreement Between Digital Palpation and Tono-Pen Tonometry With and Without an Eyelid Speculum After Cataract and Glaucoma Surgery: Preliminary Results |
| *AM49 | Deol | Manjot | MD--UP | Understanding AI Chatbot Triage of Retinal Detachment Emergencies |
| *AM50 | Migaldi | Mario | PhD program | HDAC8-mediated astrocyte reactivity in glaucoma |
| *AM51 | Marino | Domenica | MD--UP[1] | The Impact of Recipient Diabetes Status on Corneal Transplant Outcomes |
| AM52 | Freeman | Kaneshia | PhD program | The Mitochondrial Unfolded Protein Response (UPRMt) as a Novel Stress Response in Retinal Degeneration |
| AM53 | Mahip | Kalra | MSTP | Developing Structural and Biochemical Platforms to Study Mammalian Carotenoid Cleavage Dioxygenases |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| *AM54 | Liu | Alice | MSTP | Hypoglycemia modulates retinal endothelial cell metabolism and barrier function |
| AM55 | Evans | Matthew | PhD program | The Role of Retinal Pigment Epithelium-Associated Keratin 6a in Retinal Degeneration |
| AM56 | Belday | Karan | MD--UP | Social Determinants of Health and Barriers to Care for Patients with Syndromic Usher Syndrome: A Cross-Sectional Study |
| AM57 | Kesavadas | Mrinali | MD--UP | Evaluating the Risk of Retinal Vascular Occlusions in Patients with IBD |
| **AM60 | Wells | Trevor | MD--UP | Common antihypertensive medications are associated with site-specific nonunion following fracture fixation in a geriatric patient population |
| AM61 | Lioi | Laine | MD--UP | Gestational Timing Predicts Surgical Intervention for Pregnancy-Associated Carpal Tunnel Syndrome |
| AM62 | Davis | Spencer | MD--UP | Preoperative gluteal muscle fatty infiltration and atrophy as prognostic factors for functional recovery after primary total hip arthroplasty: a systematic review |
| AM63 | Achar | Jivan | MD--UP | Arthroscopic Bankart Repairs With Remplissage in Recurrent Adolescent Anterior Shoulder Instability With Hill-Sachs Deformity |
| AM64 | Shah | Ansh | MD--UP | Outcomes of Surgical Transposition for Extensor Carpi Ulnaris Instability: A Retrospective Cohort Study |
| AM65 | Yettapu | Dipankar | MD--UP | The Impact of Preoperative Segmental Kyphosis on Patient-Reported Outcomes Following 1- and 2-level Cervical Disc Replacement |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM67 | Tjahjadi | Natalie | MD--UP | Association Between Time to Surgery and Postoperative Outcomes in Elderly Patients With Hip Fractures |
| AM68 | Swanson | Mamiko | MD--UP[3] | Impact of Age on Outcomes Following Early Operative Management of Central Cord Syndrome |
| AM70 | Fletcher | Shane | MD--UP | Preoperative Folate Deficiency and Mechanical Outcomes After Total Knee and Total Hip Arthroplasty: A Propensity-Matched Analysis of a U.S. Electronic Health Record Network |
| AM71 | Hernandez | Vaughn | MD--UP | Obstructive Sleep Apnea and Postoperative Medical Complications After Ankle Fracture Fixation |
| AM72 | Qi | Andrew | MD--UP | Primary Total Elbow Arthroplasty and Ulnar Nerve Release: Outcomes With and Without Anterior Transposition |
| AM74 | Abid | Rayyan | MD--UP | Comparing Outcomes of Serial Casting in Idiopathic and Non-Idiopathic Early Onset Scoliosis |
| AM75 | McGraw | Patrick | MD--UP | The Epidemiology and Burden of Lower Extremity Injuries in Wrestling: A Systematic Review of Incidence, Injury Types, and Competition-Level Comparisons |
| AM76 | Shah | Isha | MD--UP | Menopausal Hormone Therapy Decreases the Odds of Developing Soft Tissue Disorders of the Shoulder in Perimenopausal Women |
| AM77 | Fahmy | Sandra | MD--UP | Improving the Readability of Postoperative Instructions following Tibial Plateau Fracture/Orthopedic Trauma: A Comparison of Three Freely Available Large Language Models |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM78 | Ranga | Sidharth | MD--UP | Mechanical Loading Attenuates Synovial Fibroblast Activation and Osteoarthritis After ACL Reconstruction |
| AM79 | DePalma | Jessica | MD--UP | Comparing the Effects of Glucagon-Like Peptide-1 Receptor Agonists and Bariatric Surgery on Outcomes of Total Shoulder Arthroplasty |
| AM80 | Bubnovich | Mark | MD--UP | The effects of salt inducible kinase inhibition on chondrogenesis in mice with long bone fractures |
| AM82 | Sinemani | Tweende | MD--UP | Comparative Effectiveness of Conventional Emergency Department Interventions for Adult Epistaxis: Associations With Hemostasis and Emergency Department Revisits |
| AM83 | Santana | Jose | MD--UP | Speech and Quality of Life Outcomes After Cochlear Implantation in Adults with Cognitive Comorbidities |
| AM84 | Lyatuu | Glory | MD--UP | Timing of Timing of Adenotonsillectomy for Pediatric Obstructive Sleep Apnea and Risk of Subsequent ADHD Diagnosis: A Retrospective Cohort Study |
| AM85 | Choi | Jeongwon | MD--UP | Cryotherapy for the Treatment of Laryngotracheal Stenosis: a Scoping Review |
| AM86 | Fang | Tiffany | MD--UP | Impact of Menopause on Disease Progression and Surgery-Free Interval in Idiopathic Subglottic Stenosis |
| AM87 | Choi | Sean | MD--UP | Association of Oncogenic CASP8 Mutations With Bone Invasion in Oral Cavity Carcinoma |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM88 | Fritz | Claire | MSTP | Oncostatin M (OSM) ligand-based CAR-T cells as a potential therapy for head and neck squamous cell carcinoma |
| AM89 | Cui | Emily | MD--UP | Initial ED Epistaxis Management Predicts Need for Otolaryngology Consultation and Intervention |
| *AM90 | Chung | Catherine | MD--UP | Impact of Frailty on Treatment and Cancer Outcomes in Locally Advanced Squamous Cell Carcinoma of the Head and Neck |
| *AM91 | Ross | Lauren | MD--UP | Psychiatric Disorders in Laryngeal Dystonia: A Retrospective Cohort Study |
| AM92 | Dohner | Jade | MD--UP | Functional Assessment of Fetuses with Absent Ductus Venosus |
| AM93 | Wheeler | Emma | MD--UP | The Relationship of Body Composition and Motor Outcomes in Very Low Birth Weight Infants |
| *AM94 | Wikfors | Hallie | MD--UP | Evaluating Preventive Care and Developmental Outcomes Among Infants Enrolled in the RISE-Peds Program |
| AM95 | Sejdiu | Anita | MD--UP | Characterizing Variations in Current Adolescent Obesity Management Practices in Primary Care |
| AM96 | Rajeev | Meera | MD--UP | Perinatal Clinician Perspectives on the Clinical Translation of Artificial Womb Technology: A Qualitative Interview Study of Maternal-Fetal Medicine Specialists and Neonatologists |
| *AM97 | Huynh | Kayla | MD--UP | Connectors, Coordinators, and Caregivers: Characterizing Community Health Workers' Functions within a Care Team for Lower-Resourced Families of Youth with Type 1 Diabetes |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| AM98 | Gaviser | Alexandra | MD--UP | Utilization of a Hospital-Based Pediatric Food Market and Its Association with Glycemic Outcomes |
| AM99 | Masse | Olivia | MD--UP | Co-Designing a Neonatal Follow-Up Toolkit for Neonatal Nurse Training in Sub-Saharan Africa |
| AM100 | Lam | Josephine | MD--UP | Developmental Care Interventions in the Neonatal Intensive Care Unit and Neurodevelopmental Outcomes Following Preterm Birth: An Umbrella Review |
| AM101 | Ramkumar | Priyanka | MD--UP | The Unique Contributions of Diet and Exercise to Glycemia in Youth with Type 1 Diabetes |
| AM102 | Chen | Xi | PhD program | Epilepsy-associated GABRB2 variants impair GABAA receptor biogenesis through distinct proteostasis mechanisms |
| AM103 | Alansari | Jood | Masters program | Characterization of Sting1 Knockout Rats, and the Impact of Sting1 Deletion on Blood Pressure in Type 2 Diabetes |
| AM104 | Gabriel | Miranda | MD--UP | Neuropsychiatric Symptoms of Prion Diseases: A Scoping Review |
| AM105 | Caradonna | Salvatore | MSTP | Zfp737 is a candidate transcriptional regulator of PHLDA1 inhibition-mediated neuroprotection |
| AM106 | Zeng | Isaac | PhD program | A boundary-driven mathematical framework for quantifying growth dynamics in intracranial meningiomas |
| *AM107 | Lababede | Ayah | MD--UP | Characterization of testicular tissue with magnetic resonance fingerprinting in the context of infertility and hormonal disorders |
| AM109 | Schroeter | Anya | MD--UP | Long Term Symptom and Quality of Life Trajectories After Esophagectomy: A 1,179 Patient Cohort Using the Esophageal |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| | | | | Assessment Tool (EAT) and PROMIS-10 |
| AM110 | West | Emma | MD--UP | Promoting Safety Or Furthering Harm? Measuring The Predictive Value Of A History Of Incarceration On Short-Term Adverse Outcomes After Firearm Injury |
| AM111 | Long | Megan | MD--UP | Stage-Directed Assignment of Postoperative Surveillance Imaging After Lung Cancer Resection: Guideline Concordance and Implications for Observational Survival Comparisons |
| AM113 | Bellampalli | Avaneesh | MD--UP[3] | Who Receives a Geriatric Consult after Trauma? Variation by Setting and Service |
| AM114 | Gregory | Athan | MD--UP | Coronary Endarterectomy for Diffuse Coronary Disease: A Five-Year Experience |
| AM116 | Rajab | Nadia | MD--UP | Cell Free Hemoglobin Reduces Intracellular Nitric Oxide Availability in Endothelium |
| AM117 | Tian | Shari | MD--UP | Sexual Function Outcomes of Total Neoadjuvant Treatment for Locally Advanced Rectal Cancer |
| AM118 | Varlamos | Melina | MD--UP[2] | The Impact of Surveillance on Quality of Life of Rectal Cancer Patients Undergoing Nonoperative Management |
| AM119 | Stiffler | Mikhail | MD--UP | Red Blood Cell Exposure to Free Hemoglobin Increases Adhesion to the Endothelium |
| AM120 | Vasisht | Shubha | MD--UP | CASPER-PEH: A Multimodal Computer Vision Pipeline Integrating Needle Kinematics, Semantic Annotation, and Expert Skills |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| | | | | Assessment for Robotic Crural Closure |
| AM121 | Ansari | Parisa | MD--UP | Evolution of Hernia Registries: A Comparative Analysis of Data Dictionary Changes and Emerging Research Priorities |

# Afternoon Poster Presentations

1:30-3:00 PM; Ballroom AC

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM1 | Xu | Kelsey | MD--UP | Heparin Resistance in Cardiac Surgical Patients: Incidence and Risk Factors, Treatment and Outcomes |
| PM2 | Van Patten | Tyler | MD--UP | Implementation of a Difficult Airway Response Team (DART) in a Public, Academic, Safety-Net Hospital: An Implementation Report |
| PM3 | Kiernan | Jack | MD--UP | Preoperative Opioid Exposure and Postoperative Nausea and Vomiting Following Outpatient Orthopedic Surgery |
| PM4 | Chaudhary | Rahul | MD--UP | Generation of a Thin-Membrane Microfluidic Device for Real-Time Visualization of Red Blood Cell Deoxygenation and Deformability During Capillary Transit |
| PM5 | Dardir | Haddy | Masters program | Survey on Epidural Education and Social Media Influence |
| PM8 | Cabulong | Alexander | MD-UP | Predicting high-risk phenotypes in anemic cardiac surgery patients: A classification and regression tree (CART) machine learning approach |
| PM9 | Menke | Lauren | MD--UP | Diagnostic Limitations of Automated 12-Lead ECG P-Wave Metrics in Predicting Post-Ablation Atrial Fibrillation Recurrence |
| PM12 | Rush | Elizabeth | PhD program | A Novel, Preclinical Model Recapitulates Neonatal Marfan Syndrome and Uncovers Potential Mechanisms Underlying Disease Severity |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM13 | Sharma | Charvi | MD--UP | 3D Panoramic Optical Mapping to Elucidate Mechanisms of Arrhythmogenesis in Right Ventricular Dysfunction and Dilation |
| PM14 | Whisenant | Claire | MD--UP | Determinants of Appendicular Lean Mass in Patients with Advanced Heart Failure with Reduced Ejection Fraction (HFrEF) |
| PM15 | Komarovsky | Michael | MD--CP | Defining an Optimal Transfusion Strategy in Acute Myocardial Infarction (DOTS-AMI) |
| PM16 | Yelamarti | Shanmukh | MD--UP | Cardiovascular Death and Sudden Cardiac Death Adjudication in the Cleveland Clinic Primary Care ECG (CCPC-ECG) Cohort |
| PM17 | Azeem | Haris | MD--UP | Artificial Intelligence-Based Assessment of Heart Failure in Patients with Severe Mitral Valve Regurgitation |
| PM18 | Presswalla | Feriel | PhD program | Design and Preliminary Results of the Addressing Cardiometabolic Health Inequities by Early Prevention in the Great Lakes Region (ACHIEVE GREATER) Community Health Worker Led Intervention |
| PM19 | Jung | Somin | MD--UP | Shared Dilation, Distinct Etiologies: Diffusion Tensor Imaging Differentiates Microstructural Changes in Nonischemic Cardiomyopathy and Aortic Regurgitation |
| PM21 | Omer | Mishaal | MD--UP[2] | One Association, Two Immune Programs: A Public Single-Cell Comparison of T Cell Signatures in Endometriosis and Vitiligo |
| PM22 | Liang | Andrew | MD--UP[2] | Barriers to Skin Cancer Screening Among Kidney Transplant Recipients: A Cross-Sectional Survey Evaluating Personalized Risk Communication |
| PM23 | An | Christine | MD--UP[2] | Cognitive Burden in Melanoma Staging Guidelines and the Argument for Structured Decision Support: A Modified Delphi Consensus Study |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM24 | Chen | Wei-Chi | MD--UP | Effects of Environmental Stress Conditions on UVA and UVB Transmission Through Commercial Sunscreens: An In Vitro Radiometric Study |
| PM25 | Desai | Deven | MD--UP | Statin use is associated with reduced risk of psoriatic arthritis development in patients with psoriasis: a retrospective cohort study |
| PM26 | Nalla | Ashish | MD--UP[2] | Plasma and serum metabolomic signatures of systemic comorbidity in psoriasis |
| PM27 | Alasad | Bashiyer | MD--UP | A Machine Learning Model Developed for Cutaneous Melanoma Predicts Recurrence in Acral Melanoma |
| PM29 | Zhou | Xin Ming (Matt) | MD--UP | Autoimmunity-Associated HLA Alleles and Cutaneous Melanoma Susceptibility |
| PM31 | Sheikholeslamian | Seyyedeh Mahsa | PhD program | Can Airborne Ultrasound Exposure Relate to Non-Specific Health Effects: A Systematic Review and Meta-analysis |
| PM32 | Liu | Matthew | MSTP | Multi-Omics Characterization of Clonal Hematopoiesis Reveals Driver Gene Specific Epigenetic and Transcriptomic Signatures |
| PM33 | Nasirpour | Mohammad | PhD program | Circulating Metabolomic Signatures of Emphysema Severity and Progression in SPIROMICS and COPDGene |
| PM34 | DaCosta | Carly | PhD program | Transplacental transfer of viral IgG antibodies is variable across viral pathogens |
| PM35 | Phillips | Noa | MD--UP | Examining Psychosocial and Functional Profiles between Gleason 3+4 and 4+3 Prostate Cancer Patients: A SEER-MHOS Analysis |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM36 | Bromberg | Val | MD--UP | Understanding Antibiotic Prescribing Following Negative Point of Care Respiratory Pathogen Panel (POC RPP) Testing in Primary Care: Patient Symptom Profiles and Clinician Rationale |
| PM37 | Fear | Elisabeth | MD--UP[3] | Being Known: Patients' Experiences of Interactions with their Physicians |
| PM38 | Wu | Rachel | MD--UP | Identifying Varieties of Measures for Medication Complexity and Their Clinical Applications: A Scoping Review |
| PM39 | Gaytan | Nathalia | PhD program | Developing a Locus Oriented Gene Inhibition Circuit via Histone Lactylation (LOGIC-Lac) |
| *PM40 | Nelson | Brian | PhD program | Systematic analysis of genomically-targeted base editors for mammalian directed protein evolution |
| PM42 | Thompson | Calia | PhD program | Linking Genes to Circuits: A Transcriptional Approach in Aplysia |
| PM43 | Host | Derek | PhD program | Metabolic shifts in the Cystic Fibrosis small intestine: Potential transcriptional drivers of glycolysis |
| PM44 | Vaghela | Nirbhayaditya | PhD program | Deciphering the molecular mechanisms governing cell fate transition and lineage commitment by H3K4me1/2 demethylation. |
| PM45 | Peterson | Devan | PhD program | High throughput screen to find small molecules that can modulate adenine base editor efficiency for CFTR R553X |
| PM46 | Nicholson | Lisa | PhD program | Restoring CFTR function in nonsense mutation cystic fibrosis murine models by pharmacological approaches |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM47 | Koenig | Kayla | MD--CP | Assessing Performance of FIND-GKD, a Predictive Screening Model for Genetic Kidney Diseases, Using an Internal Validation Cohort |
| PM49 | James | Jadyn | MD--UP | B-Lymphocyte Depletion Combined with Piezo1 Deletion in CD11b+ Cells Improves Anti-Tumor Response |
| PM50 | Wang | Albert | MD--UP | Ambient ozone exposure is independently associated with EGFR mutations in thoracic malignancies |
| *PM51 | Klatt | Kayla | MSTP | Characterizing the Oncostatin M Signaling Axis in Lung Adenocarcinoma Across Disease Progression and Treatment |
| PM52 | Ross | John | MD--UP | Sociodemographic and Smoking-Related Associations with Early-Onset Lung Cancer: An Age- and Sex-Matched Case-Control Study |
| PM53 | Urcuyo Acevedo | Javier | MSTP | Epigenetic Reprogramming of Medulloblastoma via CDK5 Inhibition to Induce Tumor Immunogenicity |
| *PM54 | Klein | Bailey | PhD program | Mast Cell Derived Histamine Negatively Regulates Hematopoiesis |
| PM55 | Chen | Andy | MSTP | Noradrenergic Signaling and Stress Potentiates Metastasis in Triple Negative Breast Cancer Through a B2AR-Yes1/Src-FOXM1 Axis |
| PM56 | Witterholt | Matthew | MD--UP[2] | Assessing immunotherapy outcomes for stage IV melanoma patients by gene mutations |
| PM57 | Nemecek | Andrew | MD--UP | Clinical Predictors and Outcomes of ICU Admission in Chimeric Antigen Receptor-T Cell (CAR-T) Therapy for Hematologic Malignancies |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| **PM58 | Ponti | Andras | PhD program | SQOR controls H2S detoxification to limit lipid droplet accumulation and maintain glioblastoma metabolic fitness |
| PM59 | Randall | Sabre | PhD program | Female microglia have enhanced anti-tumorigenic role in the glioblastoma microenvironment compared to male microglia |
| PM60 | Vincent | Mary | PhD program | YES1 represses STING expression and innate immune signaling in triple negative breast cancer |
| PM61 | Khanal | Sambridhi | MD--UP | Characterizing Pediatric Sleep Health in Autism Using the B-SATED Framework: Baseline Results from the SLEEP-Autism Trial |
| PM62 | O'Reilly | Liam | MD--UP | Exercise Experience in Patients Diagnosed with Postural Orthostatic Tachycardia Syndrome |
| PM63 | Shrivatsa | Aaina | MD--UP | Establishing a Longitudinal Database to Evaluate Autoimmune Encephalopathy Panel Use in Clinical Practice: Methods of a Retrospective Chart Review |
| PM64 | Benkart | Grace | MD--UP | En Bloc versus Multilayer Muscle Closure in Pediatric Chiari Decompression |
| PM65 | Frey | Karina | MD--UP | Comparative Assessment of Spontaneous CSF Leak Repair Surgery in Anterior or Lateral Skull Base Meningoencephaloceles and Idiopathic Intracranial Hypertension |
| PM66 | Korn | Nicholas | MD--UP | Navigating Grief in Neurotrauma: A Qualitative Exploration of Neurosurgical Resident Experiences |
| **PM67 | Bambakidis | Peter | MD--UP | The role of levetiracetam in de-novo seizure prophylaxis following craniotomy for supratentorial tumor resection: a critical review of the literature and proposal for future trial development |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM68 | Yu | Han | PhD program | Therapeutic Potential of Dietary Vesicle-like Nanoparticles in Suppressing Chronic Hepatic Inflammation in Alcohol-Associated Steatohepatitis |
| PM69 | Ahmed | Simra | MD--UP[1] | Project Title: Dietary Pistachio Intake and Nutrition-Related Outcomes in Individuals Using GLP-1 Receptor Agonists: A Randomized Controlled Trial |
| PM70 | Kassaie | Hannah | MD--UP | Nutrition Screening and Sports Dietitian Services Increase Grip Strength, Lean Body Mass and Multiple Psychological Health Metrics in NCAA Division III Student-Athletes |
| *PM71 | Kanchibhatla | Anuhya | MD--UP | Family Focus Group Findings Following Participation in a Culinary Medicine Intervention for Youth with Type 1 Diabetes |
| PM72 | Armstrong | Tre | MD--UP | Registered Dietitian Nutrition Support in NCAA Division III Athletics: Grip Strength, Body Composition, and Psychological Health Outcomes Across the Eat2Win and PERFORM Programs |
| PM73 | Liu | Shuanglin | Masters program | Evaluation of TGFÎ²RIIDN-Armored ROR1 CAR Î³Î´ T Cells for Sarcoma Treatment |
| PM74 | Yu | Daisey | MD--UP | Patient Reported Outcomes after Lumbar Transforaminal Epidural Steroid Injection for Patients with Moderate to Severe Lumbar Spinal Stenosis |
| *PM75 | Mahajan | Sarisha | MD--UP[2] | Pulmonary Rehabilitation Utilization in Patients With Non-Small Cell Lung Cancer |
| PM76 | Opoku | Isaac | MD--UP[3] | Cellular Aging and Dehydration in Older Adults |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| *PM77 | Chung | Ashley | MD--UP[3] | Characterizing How Opioid exposure and chronic pain affect Response to music therapy During hospitalization (CHORD) |
| PM78 | Streever | Danielle | MSTP | Rethinking "Just the Delivery Vehicle" |
| *PM79 | Carlson | Grace | PhD program | Investigating the effects of various proinflammatory cytokines on endothelial cells' ability to sialylate IgG |
| PM80 | Bryson | Elizabeth | PhD program | A Role of Neuronal Pentraxin 2 in Regulating Pro-Inflammatory Macrophage in Ulcerative Colitis |
| PM81 | Wang | Siyu | PhD program | Estrogen Receptor-Dependent Regulation of IgG Glycosylation |
| PM82 | Li | Ruoxuan | PhD program | Nanobody-Based OSMR-Targeting CAR-T Cells Demonstrate Antitumor Activity Against Triple-Negative Breast Cancer |
| PM83 | Morrison | Cameron | MD--UP[1] | Gasdermin B (GSDMB) Induces Increased Expression of Mucins and Antimicrobial Peptides in Goblet-like Cells |
| PM84 | Ybarra | Mikayla | PhD program | Engineering immunocompetent human in vitro multiple myeloma bone marrow model for disease modeling and therapy screening |
| PM85 | Craig | Emily | PhD program | Hacking Host Clearance: An Enhanced Polymer Platform to Widen the Therapeutic Window of Cellular Therapies |
| PM86 | Zhuang | Patrick | MSTP | Characterization of the first-in-class inhibitor of KDSR and its mechanism of cytotoxicity in cells |
| PM87 | Khandaker | Afsana Mim | PhD program | Cargo-Free Engineered Polymer Nanoparticles Transiently Attenuate B-Cell IgG Secretion Without Depletion |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM88 | DiMatteo | Alexis | Masters program | Role of Drp1 Interface 1 in Drp1 Assembly and Mitochondrial Fission |
| *PM90 | Dudziak | Anna | PhD program | Defining how the cytosolic mitochondrial fission protein Drp1 regulates inner mitochondrial membrane structure and bioenergetics. |
| PM91 | Kim | Joyce | MSTP | Complement C3d as a means of revitalizing immunity in pancreatic ductal adenocarcinoma |
| PM92 | Condoleo | Juliana | MSTP | Development of novel alpha3 glycine receptor modulators for potential pain therapeutics |
| **PM93 | Park | Lindsay | MD--UP[1] | Symptom Resolution and Complication Rates Following Carpal Tunnel Release (CTR) in Patients with Chronic Kidney Disease (CKD) |
| PM94 | Chang | Emily | MD--UP | Early Prediction of Septic Wrist Arthritis Using Machine Learning Models |
| PM95 | Fan | Yichen | MD--UP | Postoperative Outcomes Following Mandibular Distraction Osteogenesis in Infants: A TriNetX Network Analysis |
| PM96 | McDonald | Ashley | MD--UP[3] | Trends in Pregnancy-Associated Cancer in the United States |
| PM97 | Ramasubramanian | Vennila | PhD program | Perspectives from Food Pantry Neighbors and Food Retailers in Cuyahoga County on SNAP Work Requirement Changes |
| PM98 | Shera | Simer | MD--CP | Outcomes of Inpatient Palliative Radiation Therapy for Malignancy-Associated Bleeding: A Retrospective Cohort Study |
| PM99 | Hung | Christina | MD--UP | Steroid Dependence After Radiosurgery Alone for Large Brain Metastases |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM100 | Kim | Alex | MD--UP | Evaluating Treatments Over Time for Patients with Glioblastoma |
| PM101 | Hunt | Charlotte | MD--UP | Tipping the Scales: How SMFM and ISUOG Fetal Growth Restriction Guidelines Measure Up in Predicting Low Neonatal Adiposity in Twins |
| PM102 | Adams | Lily | MD--UP | Enhancing the Induction Experience: The Impact of a Pre- Induction Educational Handout on Patient Satisfaction |
| PM103 | Faust | Amanda | MD--UP | Obesity and Delayed Infertility Care-Seeking Among U.S. Women: A Cross-Sectional Analysis of the National Survey of Family Growth, 2011-2023 |
| PM104 | Marsland | Laura | MD--UP | Analysis of immune cell populations in cervical samples in patients undergoing IVF |
| *PM105 | Traub | Thomas | MD--UP | Preoperative GLP-1 Receptor Agonist Exposure and Functional Outcomes After Transurethral Resection of the Prostate: A National Propensity-Matched Analysis |
| PM106 | Fioritto | James | MD--UP | Prostate MRI for Detecting Prostate Cancer in Patients with Normal Prostate Specific Antigen: A retrospective cohort study |
| PM107 | Ouyang | Aaron | MD--UP[2] | Ambient Air Pollutant Exposure and Upper Tract Urothelial Carcinoma: A Geospatial Case-Control Analysis |
| PM109 | Nitzkowski | Pierangelo | MD--UP | Comparative Persistence, Laboratory Monitoring, and Biochemical Outcomes Across Testosterone Replacement Therapy Formulations: A Real-World Urology Cohort |

| # | Last name | First name | Academic Program | Abstract title |
|---|---|---|---|---|
| PM110 | Chen | Edward | MD--UP | Threshold Instability Masquerades as Algorithmic Inequity: A Subgroup Fairness Audit of an Automated CT-Derived Renal Tumor Complexity Score |
| PM111 | Cumming | Celine | MD--UP | Is there a gender gap in reproductive surgery expertise at REI fellowship programs? |
| PM112 | Alvarez | Nicolas | MD--UP | International Comparison of Cancer Screening Measures and Management among High and Middle Income Countries |

## Thank you for attending today's event!

**Please help us improve this event for future years by providing your feedback via a brief survey, accessed through this QR code.**

**Thank you!**

**Save the date for Research Day 2027:**

# Thursday October 7, 2027!

**Abstract submission and judge sign-up will open in July 2027.**