



**CASE WESTERN RESERVE
UNIVERSITY**
School of Medicine



Tinkham Veale University Center

October 16, 2025

Schedule of Events

8:00 am- 8:30 am	Breakfast and Registration	TVUC upper lobby	
8:30 am	Dean's Welcome Speaker: Dean Gerson	Ballroom B	
8:40 am	Keynote Speaker Introduction Speaker: Clifford V. Harding, MD, PhD		Speaker biography on page 10
8:45am- 9:45 am	Keynote Address "FUS Granule Assembly Mechanism" Speaker: Sua Myong, PhD		
10:00 am - 11:30am	Morning Poster Presentations	Ballroom AC	Poster titles and authors on pages 15-29
11:30 am- 11:45 am	Break to pick up lunch	TVUC upper lobby	
11:45 am - 1:15 pm	Oral Presentations Session 1 Moderator: David Lodowski, PhD	Ballroom B	Presentation titles and authors on page 13
1:30 pm- 3:00 pm	Afternoon Poster Presentations	Ballroom AC	Poster titles and authors on pages 30-44
3:00 pm- 4:00 pm	Oral Presentations Session 2 Moderator: Grace McComsey, MD	Ballroom B	Presentation titles and authors on page 14
4:00pm- 4:30 pm	Closing Remarks & Presentation of Student and Mentor Awards Speakers: Lia Logio, MD & Mark Jackson, PhD	Ballroom B	Event evaluation, page 45

Welcome

Dear Students, Faculty, Trainees, Staff and Guests:

Welcome to the third 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 300 graduate and medical students, presented in oral and poster presentations. We welcome our keynote speaker, scientist and mentor Sua Myong, PhD, a professor visiting from the Boston Children's Hospital. The variety of student presentations and Dr. Myong's own work are a testament to the power of translational, clinical and basic science discovery and the contributions that research across the spectrum 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 material needs of this event are funded by an endowment from an anonymous donor, whose support of this event we appreciate deeply.

This year, we have introduced a new element, a session of student oral presentations during Homecoming and Reunion Weekend. We appreciate the collaboration and support of

the Medical Alumni Association Board Alumni Engagement Committee in supporting this event and student awards.

To the students who are presenting today, we hope this is the beginning of a rewarding experience in the biomedical sciences and research. For those who are earlier on in their training or attending in the audience, we hope today will inspire you 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.

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
Vice Dean, Graduate Education
School of Medicine

Special Thanks and Congratulations

Outstanding Mentors

Mentor Award Committee

Ryellie Barnes, Masters student

Sonny Caradona, MD/PhD student

2025 Mentor Award Winners

Lilyana Angelov, MD, Cleveland Clinic

Salim M Hayek, MD, PhD; University Hospitals

Beata Jastrzebska, PhD; Case Western Reserve University

Shree Kurup, MD; University Hospitals

Special Thanks

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Keynote Speaker Committee

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Charles Guo, MD student

Ching-Wen Lin, Master's student

Tzu-Ni Sin, MD/PhD student

Walter Zhao, MD/PhD student

Yan Zou, PhD student

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Tessianna Misko, PhD; SOM Graduate Education Office

Sara Hart, Office of Medical Student Research

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Special Thanks

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Special Thanks

Faculty and Senior Trainee Presentation Reviewers (as of 9/30/25)

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Fawad Taj, MD; University Hospitals
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Ming Wang, PhD; Case Western Reserve University
Qian Wang, MD, MPH; University Hospitals
Susan Wang, PhD; Case Western Reserve University
Peter Whitehouse, MD, PhD; University Hospitals
Mohamad Yasmin, MD; VA Medical Center
Akihiro Yoshida, PhD; Case Western Reserve University
Jisung Yuk, PhD; MetroHealth Medical Center
Zihan Zhu, PhD; Case Western Reserve University
Nicholas Ziats, PhD; Case Western Reserve University
Rodrigo Aguiar, PhD; Case Western Reserve University
Maria Azam, PhD; Case Western Reserve University

Keynote Speaker

8:45-9:45 AM; Ballroom B

FUS Granule Assembly Mechanism

Sua Myong, PhD
Professor
Cellular Molecular Medicine
Boston Children's Hospital



Dr. Myong obtained her BA and PhD at the University of California, Berkeley. During her postdoctoral years at the University of Illinois, Urbana-Champaign (UIUC), she pivoted her research focus from molecular biology to single molecule biophysics. Dr. Myong began her independent career as an Assistant Professor in the Bioengineering Department at UIUC and moved to the Biophysics Department at Johns Hopkins University as an Associate Professor where she also served as a Director of Undergraduate Students. She joined the Program for Cellular Molecular Medicine at Boston Children's Hospital as a Professor starting in August of 2023.

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 listing 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 2025 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)

Full text of each abstract is available via QR code



Oral Presentation Session

Occurred October 9, 2025 as part of Homecoming and Reunion Weekend

Moderator: Bill Schiemann, PhD

#	Last name	First name	Academic Program	Abstract title
1	Ybarra	Mikayla	PhD program	Engineering Immunocompetent Human In Vitro Multiple Myeloma Bone Marrow Model for Disease Modeling and Therapy Screening
2	<i>Rodgers</i>	<i>Niki</i>	<i>MD--UP</i>	<i>Non-Tobacco Nicotine Dependence is Associated with Worse Outcomes after Humeral Shaft Operative Fixation</i>
3	Osborne	Scout	MSTP	Defining the neovaginal microbiome after gender affirming vaginoplasty
*4	Basu	Bijoya	MSTP	Stress Engages an Adipose-Brain Circuit to Drive Anxiety
5	<i>Bian</i>	<i>Michael</i>	<i>MD--UP</i>	<i>Limited Transparency in Costs of Melanoma Care Undermine Medicare Price Transparency Efforts</i>
6	Barone	Cassandra	PhD program	TDP-43 Impairs Glycolysis by Sequestering Hexokinase 1 in Amyotrophic Lateral Sclerosis

Italicized entries also presented on Research Day as a poster

Oral Presentation Session 1

11:45 AM-1:15 PM; Ballroom B

Moderator David Lodowski, PhD

#	Last name	First name	Academic Program	Abstract title
1	Vincent	Mary	PhD program	NIMA Related Kinase 2 is a collateral vulnerability for mTOR inhibitor efficacy in triple negative breast cancer cells that have low basal anti-apoptotic tone.
2	Xu	Kevin	MD--UP	Development of a Machine Learning Model to Predict Strabismus with and without Amblyopia using Fixation Eye Movements
3	Liu	Mingda	PhD program	Unraveling Shared Pathogenic Mechanisms in Rhodopsin and M-Cone Opsin Mutations Underlying Inherited Blindness and Their Pharmacological Rescue
4	Loesch	Jack	MD--UP	Associations between Physical Activity and Irritable Bowel Syndrome: a Retrospective Analysis using the All of Us Research Program
*5	Li	Qiuchen	MD--UP	Cannabis Use in the Era of Immunotherapy: Real-World Outcomes in Advanced NSCLC Patients
6	Xiong	Ying	MSTP	Pathological Inflammation Alters Oligodendrocyte Differentiation and Function

Oral Presentation Session 2

3:00-4:00PM PM; Ballroom B

Moderator Grace McComsey, MD

#	Last name	First name	Academic Program	Abstract title
*1	Snell	John	PhD program	Comprehensive Testing of Ribosomal Skipping 2A-Like Peptides for Eukaryotic Cell Engineering
2	Reynolds	Claire	MD—UP ²	UVR exposure, skin visibility, and MCPyV status to assess clinical outcomes of a Merkel cell carcinoma cohort
3	Williams	Eduardo	MD--CP	Patients Treated for Anxiety or Depression Report Decreased Satisfaction Following Breast Reconstruction
4	Gorthi	Viraj	MD--UP	Music Therapy To Address Patients' Journeys With Chronic Illness, Outcomes, And Readmission (MAJOR CHORD): A Mixed Methods Feasibility Study

Morning Poster Presentations

10:00-11:30 AM; Ballroom AC

#	Last name	First name	Academic Program	Abstract title
1	Hailer	Ashley	MD--UP	Addressing Unfilled Anesthesiology Fellowships
2	Revnew	Andre	MD--UP	The Association Between Pre-operative Serum Phosphatidyl Ethanol and Peri-Operative Outcomes: Preliminary Results
3	Sidhu	Muskan	MD--UP	Evaluating Device Survival in Intrathecal Drug Delivery Systems
4	O'Malley	Liam	MD--UP	Language Barriers and Surgical Recovery: Postoperative Outcomes in Patients with Limited English Proficiency After Spinal Surgery
*5	Hu	Shawn	PhD program	Clint1: A Novel Regulator of Dormancy in Metastatic Breast Cancer
6	Joseph	Evan	PhD program	Estrogen Receptor Function Governs Stem Cell Self-renewal and Vascular Dynamics in Glioblastoma
7	Nelson	Brian	PhD program	Systematic analysis of mutations generated for mammalian directed protein evolution
*8	Levi	Cedric	PhD program	Suppressing Electric-Field Coupled Epileptiform Activity

#	Last name	First name	Academic Program	Abstract title
10	Gouker	Raegan	PhD program	Effects of sacral nerve stimulation on lower urinary tract function
11	Wong	Claudia	MD--UP	Global Electrical Heterogeneity Metrics are Associated with Increased Risk of Incident Heart Failure
12	Torres	Efrain	MD--UP	Plasma Trimethylamine N-Oxide Levels and Outcomes: A Retrospective Observational Cohort Study
13	Zhou	Amy	MD--UP	Magnetic Resonance Fingerprinting as a New Cardiac Biomarker to Delineate Sex Specific Differences in Cardiac Function in Moderate to Severe Aortic Regurgitation
14	Kona	Chandrahaas	MD--UP	Assessing electro-mechanical dyssynchrony using GEH: The Atherosclerosis Risk in Communities (ARIC) study
15	Shen	Daniel	MD--UP	Preliminary Feasibility of Aortic Wall Strain using 4D Whole Thoracic Automated Cardiac MC (AutoCMR)
16	Zhang	Anna	MD--UP	Role of GLP1-RAs on New Onset Atrial Fibrillation Post 90 days of Non-Cardiac Surgery in Older Adults
17	Prabhakar	Apurv	MD--UP	Outcomes with TTN-Associated Dilated Cardiomyopathy in a Diverse Patient Cohort
18	Henry	Caitlyn	MD—UP ³	Presence of Transthyretin Cardiac Amyloidosis is Associated with a Higher Risk of Various Cardiovascular and Non-Cardiovascular Conditions in Moderate Aortic Stenosis
19	Erkkila	Hailey	MD--UP	Functional Echocardiogram Markers Prior to and After Right Ventricular Outflow Tract Stenting in Fetal Sheep

#	Last name	First name	Academic Program	Abstract title
20	Yashar-Gershman	Sarah	MD--UP	Relationship between Social Needs and Health of the Caregiver-Child Dyad from the LINK (Local Inventory of Needs and Knowledge) Survey
21	Westrum	Ben	MD--UP	Cellulitis in the Emergency Department: Do Race and Ethnicity Influence Management?
22	TerMolen	Anna	MD--UP	Sepsis in Hidradenitis Patients
23	Yang	Annabel	MD--UP	Gynecological comorbidities associated with Central Centrifugal Cicatricial Alopecia
24	Newell	Daphne	MD--CP	Cancer Risk in Patients with Lipomas
25	O'Neill	Christopher	MD--UP	Expression of BAFF in cutaneous lesions of dermatomyositis
26	Lin	Ching-Wen	Masters program	Cell-Free Hemoglobin Exposure Leads to Stimulation of Adhesion Molecules in Human Vascular Aortic Endothelial Cells: Exploring the Role of Hemolysis in Trauma
27	Silver	Galen	MD--UP	Clinical Outcomes and Post-Discharge Trajectories of Emergency Department Patients Boarding for Placement
28	Miryala	Ritika	MD--UP	Disparities in Thyroid Cancer Distribution: County-Level Associations with Demographics and Physician Access
29	Fesko	Benjamin	MD—UP ³	5-Year Risk of Micro- and Macro- Vascular Events in Diabetic Patients by Covariate Status

#	Last name	First name	Academic Program	Abstract title
31	Mukunda	Amrita	MD--UP	Impact of Perceived Racial Discrimination in Healthcare Settings Among Cancer Survivors
32	Liu	Chenyu	PhD program	APOE4-Linked Gut Microbiome Alterations and Alzheimer's Risk via the Gut-Brain Axis
33	Jian	Dana	PhD program	Investigating a structural variant in the haptoglobin (HP) gene as a potential modifier of APOE alleles on Alzheimer's Disease in the Midwestern Amish
34	Rufai	Feyi	MD—UP ¹	Factors Influencing Prostate Cancer Screening: Insights from Cleveland Health Survey
35	Host	Derek	PhD program	Metabolic Shifts in the Cystic Fibrosis Small Intestine: Potential Transcriptional Drivers of Glycolysis
36	DiPierro	Karissa	MD—UP ¹	Evaluation of physician orders and short term follow-up outcomes of patients with a positive multi-target stool DNA test and negative colonoscopy in clinical practice.
*37	Tomar	Alka	MD--UP	Specialized Enteric Glia Coordinate Intestinal Motility

#	Last name	First name	Academic Program	Abstract title
39	Srivastava	Anusha	MD—UP ¹	Angiotensin Receptor Blockers Reduce Crohn's Fibrotic Complications: A Propensity Score-Matched Retrospective Study
40	Gill	Arshdeep	¹	RIP1 and RIP3 as Circulating Biomarkers to Distinguish ALD, MetALD, and MASLD/MASH
41	Kiame	Nayef	MD--UP	Rate of Venous Thromboembolism in Patients with Inflammatory Bowel Disease with and without Primary Sclerosing Cholangitis
42	Scratchfield	Emma	PhD program	Lost in Transit: Membrane Protein Mislocalization in Autism and Therapeutic Paths to Rescue
43	Luzzi	Francesca	MD--CP	Characterizing Epilepsy in PTEN Hamartoma Tumor Syndrome
**44	DaCosta	Carly	PhD program	Assessing genetic risk in African Americans with postpartum depression
46	Ke	Luxin	PhD program	Single-cell analysis reveals a nuclear receptor as a regulator of \hat{I}^2 cell development and function
47	Charles	Cathy	MD--UP	The Diabetes Journey of Black Youth and Their Families' Challenges, Resilience, and Personal Empowerment
48	Babatunde	Ifeoluwa	PhD program	Building an Equity-Centric Approach to Pediatric Guidance Development

#	Last name	First name	Academic Program	Abstract title
*49	Ponti	Andras	PhD program	Sulfide oxidation is essential for mitochondrial respiration and growth in glioblastoma
50	Eghtedari	Cyrus	MD—UP ²	Evaluating HER2 and GD2 Specific T-Cell Engaging Bispecific Antibodies for Osteosarcoma Targeting
51	Seitz	Elizabeth	MD--UP	Effect of social determinants of health on lung cancer screening uptake in the U.S.
52	Tiwari	Anushri	MD--UP	Systematic review of the impact of prior and/or concurrent antibiotic usage during immunotherapy in patients with solid tumor malignancies.
53	Udoh	Eno-obong	MD--CP	Evaluating the Molecular Landscape of Genetic Mutations Among Black Patients Diagnosed with Acute Myeloid Leukemia
55	Fritz	Claire	MSTP	Investigating the role of BAFF in CAR-T cell associated toxicities
56	Kramer	Colleen	MD--UP	Social Determinants of Health (SDOH) in Trauma Care: a needs assessment of undergraduate medical education
57	Berk	Abigail	MD--UP	Educational Escape Rooms to Enhance Medical Pharmacology Curriculum
58	Schindler	Joseph	MSTP	Transcriptional responses to nitric oxide are widescale and source-dependent
59	Mody	Akash	PhD program	EVomic profiling of HIV-Associated Exosomes reveals novel cargo and their impact on KSHV infection and host antiviral programs

#	Last name	First name	Academic Program	Abstract title
60	Seidita	Elizabeth	PhD program	The Role of TGFBRAP1 Overexpression in Endosomal Virus Entry Inhibition
61	Chaba	Amal	Masters program	Role of FATP2 in Regulating a-Cell-Derived GLP-1 Synthesis and Secretion: Implications for Type 2 Diabetes Therapy
62	Honeycutt	Ethan	PhD program	m6A methylation patterns of HIV RNA differentiate RNA isoforms, cellular localization, and blockade of m6A machinery in HIV latently infected primary CD4+ T cells enhances protein translation
63	Atwood	Emily	PhD program	HER2-Mediated Immunoregulation and Therapy Resistance in Glioblastoma
**64	Zhou	Ruiting	PhD program	STAT1 gain-of-function (GOF) mutations disrupt the conformational balance of STAT1 and lead to immune dysregulation
65	Kyu	Jennifer	MD--UP	Education and Mixed Neuropathology in a National Autopsy Cohort
66	Yin	Claire	MD--UP	Differentiating outcomes of pure iatrogenic encephalitis from paraneoplastic encephalitis in ICI-treated patients
67	Uppada	Harshitha	MD--UP	Pregnancy Outcomes in Patients with Anti-NMDAr Autoimmune Encephalitis
68	Chin	Adeline	MD--CP	Postural Orthostatic Tachycardia Syndrome (POTS) is associated with Endometriosis: A Retrospective Chart Review

#	Last name	First name	Academic Program	Abstract title
69	Yerneni	Gowtham	MD--UP	Diffuse Cerebral Edema as a Predictor of Relapse and the Impact of Mycophenolate in Cerebral Amyloid Angiopathy-Related Inflammation
70	Golnari	Pedram	PhD program	Integrating Generative Language Models into Clinical Decision Support Systems for Parkinson's Disease
72	Jones	Claire	PhD program	Partial rescue of fentanyl-xylazine evoked respiratory depression in the in situ working-heart brainstem preparation of rats
73	de Freitas Brenha	Bianca	PhD program	Modeling Neurodevelopmental Deficits Caused by GABAA Receptor Mutations in DEEs Using Human iPSCs
74	Wu	Anika	PhD program	Astrocytic VPS's role in vascular formation during neocortex development
75	Murphy	Regan	PhD program	Investigation into the Immune Microenvironments of Non-Malignant CNS Pathologies
76	Bhattacharya	Brooke	Masters program	Childhood Trauma and Manifestation of Inattentive-Type ADHD Symptoms
77	Wang	Alexander	MD—UP ²	Defining steroid-induced immune barriers to immunotherapy in malignant glioma
78	Sonti	Anisha	MD--UP	Long Term Outcomes and Characteristics of Parsonage Turner Syndrome
79	Katewa	Aditya	MD--UP	Effects of Surgical Timing and Underlying Spondylosis on Functional Recovery in Cervical Spinal Cord Injury Patients

#	Last name	First name	Academic Program	Abstract title
80	Nag	Aritra	MD--UP	To see or not to see: An assessment of time to improvement in visual symptoms in patients with tuberculum sella meningiomas
81	Bonthu	Amrita	MD—UP ³	Investigating the Role of Age in a Food-as-Medicine Intervention: Findings from the NOURISH Hearts Randomized Control Trial
82	Mleczek	Julia	MD--UP	The Impact of Deep Brain Stimulation on Saccadic Control in Parkinson's Disease
*83	Bahierathan	Kanisha	MD--UP	Using the Charlson Comorbidity Index as a predictive tool for assessing appointment compliance and outcomes in patients with diabetic macular edema
84	Jindal	Darren	MSTP	Hypoglycemia Enhances Risk and Progression of Diabetic Retinopathy
85	Zhang	David	MD--UP	Prevalence of Myopia-related Retinal Detachments in a Multi-Institutional United States Platform from 2015 to 2024
*86	Patel	Evan	MD—UP ²	Outcomes of Combined versus Sequential Pars Plana Vitrectomy and Phacoemulsification Surgeries
87	Haddad	Eliot	MD--CP	Racial and Ethnic Disparities in Prescription of a Novel Agent in the Medical Management of Dry Eye Disease
88	Arnold	Keith	MD--UP	Trends of Atropine Prescription for Childhood Myopia
89	Koster	Karl	MD--UP	Retrospective Analysis of the Impact of Local Socioeconomic Factors on Goniotomy Outcomes
90	Guo	Charles	MD--UP	Molecular and Gene Therapy to Interrupt Glaucoma Pathogenesis

#	Last name	First name	Academic Program	Abstract title
92	Bogart	Jolie	MD--UP	Height Changes and Risser Staging Progression in Patients from the Bolton Brush Collection
93	Haneberg	Erik	MD--UP	Offloading Patellofemoral Contact Pressures: A Biomechanical Comparison Between Tibial Tubercle Osteotomy and a Retropatellar Tendon Implant
94	VanBibber	Helina	MD--UP	Monitoring of Muscle Oxygen Saturation Using Wearable Technology in a Healthy Population and Longitudinally in an Age-Matched Cohort of Patients Post- Anterior Cruciate Ligament Reconstruction
95	Schweitzer	Kate	MD--UP	Athletic Performance and Injury Risk in Transgender Individuals
96	DeMaster	Andrew	MD--UP	Staged Versus Concurrent Hardware Removal in Conversion Total Knee Arthroplasty: A Systematic Review of Indications and Outcomes
97	Omurzakov	Argen	MD--UP	Systemic Hormonal Contraceptive Use is Associated with Greater Odds of Shoulder Pathologies: A Propensity Matched Epidemiological Study
99	Wong	Justin	MD--UP	The Impact of Gluteal Tendon Tears/Tendinopathy on Outcomes Following Total Hip Arthroplasty: A Systematic Review
100	Kwas	Cole	MD--UP	Electronic PROM Nonresponse in Lumbar Spine Surgery: Development of a Risk Scoring Tool

#	Last name	First name	Academic Program	Abstract title
101	Han	David	MD--UP	Psychiatric Diagnoses following Axial and Lower Extremity Trauma in a Pediatric Population
103	Davis	Alyssa	MD--UP	Osteosarcoma Cell Surface HER2 and GD2 Induction for Immunotargeting
104	Mensah-Bonsu	Carol	MD--CP	Ranking importance of microbial functions from different environments.
*105	Mezger	Amelia	MD—UP ¹	Role of microRNA146a in dysregulated T cell function in Type 1 Diabetes: A potential therapeutic target to control T cell autoreactivity
106	Jung	Carmen	MD--UP	Effectiveness of Aspirin Prophylaxis for Adverse Events following Kidney Transplantation
107	Sheikholeslamian	Seyyede Mahsa	PhD program	Clinical Success Rate of Indirect Pulp Capping Using Bioactive Endodontic Cements for Managing Deep Caries in Permanent Mature Teeth with Reversible Pulpitis: A systematic review and meta-analysis
108	Ram	Ananya	MD— UP ³	Evaluating the potential role of GLP-1 receptor agonists in reducing incidence of diabetic peripheral neuropathy in patients with Type 2 Diabetes Mellitus

#	Last name	First name	Academic Program	Abstract title
109	Abraham	Adith	MD--UP	Comparing Incidence of Functional Endoscopic Sinus Surgery and Biological Treatment of Chronic Rhinosinusitis with Nasal Polyps
110	XU	ERIC	MD--UP	Vocal Injury in Military Drill Instructors: A Critical Occupational Health Hazard
111	Lau	Braden	MD--UP	Laryngomalacia and Supraglottoplasty in Premature Infants
112	Rozzo	Caroline	MD--UP	Clinical Value of Histopathological Examination of Sinus Contents Following Endoscopic Sinus Surgery
113	Mollin	Ashomathi	PhD program	VP8*-Specific IgG Responses to P[4], P[6], and P[8]-Specific Rotavirus Strains in Breast Milk of Nicaraguan Women
114	Beathe-Gateley	Brayden	PhD program	Harnessing B Cell Somatic Hypermutation to Prevent Viral Escape
115	Chen	Patricia	MD--UP	Neonatal Brain Injury and Neurodevelopmental Outcomes of Preterm Birth in Sub Saharan Africa: A Systematic Review and Meta-Analysis
116	Terala	Ananya	MD--UP	Rising Use of Immune Modulators in Pediatric Sepsis: Insights from an 8-Year PHIS Database Study
*117	Walia	Nevin	MD--UP	Changes in the Epidemiology and Outcomes of Diabetic Ketoacidosis and Hyperosmolar Hyperglycemic State in Pediatric Patients from 2017-2024: A PHIS Database Study
118	Deshpande	Isha	MD--UP	Association between Social Drivers of Health and Analgo-sedatives in Ventilated PICU Patients

#	Last name	First name	Academic Program	Abstract title
120	Zhang	Emily	MD—UP ³	Parent Perspectives on Integrated Behavioral and Psychosocial Support in Pediatric Primary Care (HealthySteps Program Evaluation)
121	Harish	Nehal	MD--UP	Balancing Efficiency and Empathy: Adolescent Priorities for High-Quality Primary Care
122	Dudziak	Anna	PhD program	Beyond Division: Investigating the Roles of Mitochondrial Fission Proteins in Organelle Health and Bioenergetics
123	McGill Percy	Kyle	PhD program	The Role of Metaxin 2 in Neurodegenerative Tauopathies
124	Hutson	Anelise	PhD program	The Role of Disordered Regions on Dynamin-related protein 1 Structure and Function
125	Ha	John Yuxuan	MD--UP	Incidence of Ocular Abnormalities in Metopic Craniosynostosis: Cranial Vault Reconstruction versus Endoscopic Suturectomy
127	Paul	Amisha	MD--UP	Community Engagement in Firearm Violence and Injury Prevention Research
128	Zhao	Emily	MD--UP	Cannabis use and menopause symptoms in a nationally representative sample of midlife women
129	Cleveland	Emilie	MD--UP	Relationship between childhood lead exposure and adolescent suicidal risk: longitudinal study

#	Last name	First name	Academic Program	Abstract title
130	Otaigbe	Egheoise	MD—UP ³	Temporalis Muscle Thickness as a Prognostic Marker in Glioblastoma Patients
132	Cherry	Fiona	MD--UP	Exploration of Shared Genetic Targets of Aryl Hydrocarbon Receptor (AhR) and Progesterone Receptor (PR) in the Pregnant Uterus
*134	Lee	Hojae	Masters program	Mechanism by which Inflammation Induces Labor
135	Chidi	Ify	Masters program	The Timing of Estrogen Therapy: Post-Menopausal Risks and Perimenopausal Benefits
*137	Caputo	Connor	MD--UP	Utility of Intraoperative Functional Lumen Imaging Probe in Revisional Hiatal Hernia Repair: A Long-Term Outcomes Study
138	Beltran	Guillermo	MD--UP	Limited Uptake of Surgical Rib Stabilization for Non-Flail Fractures After the NONFLAIL Trial
139	Putnam	Jonathan	MD--UP	Open, Hybrid, and Endovascular Repair of Recoarctation, Aneurysm, and Pseudoaneurysm after Aortic Coarctation Repair
140	Zlota	Ari	MD--UP	Hospital Variation in Adoption of Whole Blood Transfusion as an Adjunct to Massive Transfusion Protocols

#	Last name	First name	Academic Program	Abstract title
141	Moody	Daria	MD--UP	Interdisciplinary Perspectives on Non-medical Barriers to Equitable Gastrointestinal Cancer Care
142	Song	Minneh	MD--UP	Biological Aging and Minority Stress in Transgender and Gender Diverse Individuals
143	Estright	Alexander	MD--UP	Impact of Language Barriers on Patients Urological Outcomes: A Systematic Review

Afternoon Poster Presentations

1:30-3:00 PM; Ballroom AC

#	Last name	First name	Academic Program	Abstract title
1	Volpe	Samuel	MD--UP	Smartglasses-Assisted Saphenous Nerve Adductor Canal Blocks in Total Knee Arthroplasty: A Prospective Randomized Controlled Trial of Efficiency and Procedural Time
*2	Tsai	Travis	MD--UP	Platelet Transfusion Patterns and Requirements in Aortic Surgery: A Descriptive Cohort Analysis
3	Swensen	Erik	MD--UP	Evaluating the Efficacy of Intravenous Acetaminophen (IV Tylenol) in Reducing Pain and Agitation in Pediatric Patients Undergoing Elective Tonsillectomy and Adenoidectomy
4	Vergara Santibanez	Simon	MD--CP	GPCR Signaling and Resensitization: A New Discovery
5	Chaichanasittikarn	Oranatt	PhD program	High-Gamma Electrocorticography Activity Represents Perceived Vibration Intensity in Human Somatosensory Cortex
6	Blincoe	Madelaine	PhD program	Classification of Steady-State and Transitional Walking Periods Using a Hidden Markov Model
7	Morrison	Matthew	PhD program	An Exploration of Feedback Control for Enhancing Seated Stability by Activating Trunk Musculature via the Networked Neuroprosthesis

#	Last name	First name	Academic Program	Abstract title
8	Abboud	Mark	MD--UP	Wearable Biosensor Adoption and Experiences in Congenital Heart Disease Patients
**9	Duong	Phu	MD--UP	Longitudinal Effects of Increased Body Mass on Global Electrical Heterogeneity
10	Baerman	Logan	MD--UP	Sex Differences in the Association of ECG Global Electrical Heterogeneity with Cardiac Structure and Function in the Atherosclerosis Risk in Communities (ARIC) Study
11	Park	Kevin	MD--UP	Effect of changes in Device- and Patient-Reported Physical Activity and Weight on AF Burden in the TRIM-AF Study
12	Singh	Ayush	MD--UP	Global electrical heterogeneity and incident heart failure hospitalization: absolute and adjusted risks in UK Biobank using competing-risk methods
13	Liou	Wilson	MD—UP ³	Leveraging Large Language Models for Structured Data Extraction from Free-Text Cardiology Reports
14	Ganesh	Shriienidhie	MD--UP	Polycystic Ovary Syndrome Polygenic Score Stratifies Cardiometabolic Risk in Women
15	Miller	Jacob	MD--CP	Genetic variants linked to pro-arrhythmic epicardial fat deposition in a cohort of atrial ablation patients
16	Liu	Jonathan	MD—UP ³	Association of Major Ischemic Stroke, System Embolism, and Hemorrhagic Events in Patients that have Switched from Apixiban to Rivaroxaban
17	Lee	Serena	MD--UP	Patient Healthcare Seeking If There Were No Limits

#	Last name	First name	Academic Program	Abstract title
19	Fakult	Nathan	MD--UP	The Epidemiology of Merkel Cell Carcinoma in the United States
20	Kim	Elyssa	MD—UP ²	Current Progress of a Pilot Study for Measuring Dermatological Quality of Life (QoL) in Patients with with Breast Cancer
21	Shamita	Gazi Amena Noor	PhD program	Targeting CDK2 to Combat CDK4/6 Inhibitor Resistance in NRAS-Mutant Melanoma
22	Xu	Katie	MD--UP	Comparison of Chronic Postoperative Dysesthesia across Linear, Flap, and Secondary Intention Closures
24	Brower	Ian	MD--UP	Demographic and Utilization Patterns of Emergency Department Patients Boarding for Placement
26	Braybrooks	Grey	MD--UP	Effect of High vs. Low Mean Arterial Pressure on Arrhythmias in a Model of Post-Arrest Shock
27	Chen	Zhengxi	PhD program	Conditional Power and Predictive Probability Estimation for Interim Overall Survival Analysis: A Comparison of Frequentist and Bayesian Inferences with Change-Point Detection
28	Menta	Kathryn	PhD program	Comparative Suicide Risk Following Pregnancy Outcomes: A Bayesian Network Meta-Analysis of European vs. Non-European Countries

#	Last name	First name	Academic Program	Abstract title
*31	Samuel	Reina	MD--UP	The Epidemiology of Second Primary Lung Cancer: An Analysis of the Surveillance, Epidemiology, and End Results (SEER) Program
33	Smith	Samantha	¹	Effects of high fat diet on a murine model of colitis-associated colon cancer
34	Kohli	Rhea	MD--UP	Association Between COVID-19 Infection and Risk of New-Onset Inflammatory Bowel Disease in Young Adults
35	Yacoub	Simon	MD--CP	The Effects of Methylglyoxal on the Integrity of the Intestinal Epithelium
36	Saad	Badat	¹	Cathepsin G-Mediated HMGB1 Cleavage as a Driver of Tissue Damage and Inflammation in Inflammatory Bowel Diseases
38	Krevlin	Zoe	MD—UP ¹	Circulating Trimethylamine N-Oxide Is Associated With Fibrostenotic Complications of Crohn's Disease

#	Last name	First name	Academic Program	Abstract title
39	Kim	Sarah	MD--UP	Assessing CT Colonography (CTC) Use and Diagnostic Pathways After Incomplete Colonoscopy
41	Pelger	Sydney	PhD program	CFTR expression decreases over the lifespan
42	Pathak	Vai	PhD program	The Integration of Germline and Somatic Pharmacogenomics for Precision Medicine in Cancer Therapeutics.
43	Steven	Overend	PhD program	SVA retrotransposons: insights into human brain evolution and disease
44	Lytle	Sara	MD--UP	Phenotypic and Molecular Characterization of Endometrial Stromal Cells Isolated from Menstrual Effluent in People with Endometriosis and Healthy Controls
**46	Muthyala	Prerna	MD--UP	Associations Between Food Insecurity and Obstructive Sleep Apnea Symptoms
47	Borjas	Gustavo	MSTP	A Dual-loaded Lipid Nanoparticle to Enhance Dendritic Cell Therapy
48	Urcuyo Acevedo	Javier	MSTP	Exploring the effects of CDK5 inhibition on immune sensitivity in medulloblastoma

#	Last name	First name	Academic Program	Abstract title
49	Ruppert	Nathaniel	MD—UP ²	Toward Personalized Cancer Therapy: Development of a Patient-Derived Sarcoma Tumoroid Platform
50	Shultes	Paulameena	MSTP	Cell-Cell Fusion in NSCLC: Novel Transcriptomic Features
51	Fox	Julie	MD--UP	Stress-induced recruitment of the Integrated Stress Response in yeast and mammalian models of Shwachman-Diamond syndrome
52	Bennett	Kaylyn	PhD program	Sex-specific trajectories of venous thrombus resolution and the role of PAR4 in thrombus fate
*53	Klatt	Kayla	MSTP	Oncostatin-M Ligand-Based CAR-T Therapy Targets and Eliminates Non-Small Cell Lung Cancer
*54	Buenaventura	Rand Gabriel	MD--CP	Identification of NPDC1 as a Synthetic Lethal Target Within - 7/del7q Acute Myeloblastic Leukemia
55	Ang	William	MD--CP	HPV-linked shifts in the oral microbiome mirror tumor-associated microbial profiles
56	Stollar	Cailin	MD--UP	Trends in Physical Medicine and Rehabilitation Match and Unmatched Residency Applicant Data from 2007-2024
58	Anolick	Harel	MD--UP	Developing a curriculum to educate use of Through the scope endoscopic doppler probe
**59	Pierson	Lane	PhD program	Comparative Analysis of Bat STING Orthologs Highlights Species-Specific Differences

#	Last name	First name	Academic Program	Abstract title
60	Lavin	Thomas	MSTP	Selective Reactivation of Latent HIV Without Global T Cell Activation using CyclinT1-Tat-Containing Virus-Like Particles
61	Parrilla	Maria	MD--CP	Role of Fusobacterium nucleatum Adhesins in Regulating PD-L1 Expression in Oral Squamous Cell Carcinoma
62	Singh	Subha	PhD program	Molecular Factors in Fusobacterium nucleatum subspecies Influence their Colonization Ability in Head and Neck Squamous Cell Carcinoma
63	Zhang	Yingting	PhD program	Cell specific role of IRF3 in acute fibrotic responses to carbon tetrachloride (CCl4) in the liver of mice
65	Afolabi	Susan	PhD program	Development and characterization of a novel anti-complement Factor H nanobody as a complement agonist
67	Rilinger	Ryan	MD--CP	Optimizing diagnostic workup and clinical treatment of the neuropathic subtype of postural orthostatic tachycardia syndrome (POTS)
68	Li	Sean	MD--UP	Therapy-associated microstructural change and motor gains in chronic severe stroke
69	Abdulameer	Zahraa	MD--UP	Adult-Onset Leukodystrophies Misdiagnosed as Multiple Sclerosis in Clinical Practice: An Interim Analysis

#	Last name	First name	Academic Program	Abstract title
70	Rush	Lindsey	MD—UP ³	Dementia risk with long-term vs. short-term selective serotonin reuptake inhibitor use in patients with major depressive disorder
71	Shapiro	David	PhD program	Manipulating the microbiome to regulate the meningeal lymphatics and improve sociability in a mouse model of autism spectrum disorder (ASD)
73	Leboit	Phoebe	MD--CP	Understanding Hyperreflective Foci in Experimental Autoimmune Encephalitis
74	Chen	Xi	PhD program	Missense variants in GABAA receptor γ 2 subunit disrupt receptor proteostasis regulation and function
*75	Williams	Marnie	PhD program	Investigating proteostasis disruption in GABRA1 frameshift mutations and its implications for epilepsy pathogenesis
76	Anderson	Reid	MD--UP	Mobility and Gait Metrics Utilized in Analyzing Cervical Spondylotic Myelopathy -- A Systematic Review
77	Kim	Tony	MD--UP	Preliminary Findings from Systematic Review of Intrathecal Drug Delivery Systems (IDDS) for Chronic Craniofacial Pain
78	Gonugunta	Nikita	MD--UP	Impact of a Multimodal Perioperative Protocol for Microvascular Decompression for Trigeminal Neuralgia on Postoperative Outcomes: A Retrospective Cohort Study

#	Last name	First name	Academic Program	Abstract title
79	Power	Landon	MD—UP ²	Stereotactic Radiosurgery in the Management of Craniovertebral Junction Metastasis and Impact on Fracture Incidence and Progression
80	Mailapur	Nisha	MD--UP	The Impact of Food Insecurity Status on Pregnancy: A 2024 Retrospective Study of Medicaid-insured, Cuyahoga County Patients with Singleton Deliveries at MetroHealth
81	Evans	Matthew	PhD program	Characterizing the Roles of Retinal Pigment Epithelial Keratins and Exogenous KAMPs in Retinal Degeneration
82	Decker	Nicole	MD--UP	Risk of Diabetic Retinopathy Disease Progression and Hemorrhagic Outcomes Following Stroke
83	Raju	Priya	MD--UP	Direct Oral Anticoagulant Use and Risk of Primary Open-Angle Glaucoma: A Propensity-Matched Cohort Study
84	Wu	Shirley	MD--UP	The Effect of Systemic Tyrosine Kinase Inhibitors on the Development and Progression of Age-Related Macular Degeneration
85	Amin	Radhika	MD--UP	Prevalence and effectiveness of opioid therapy for chronic ocular pain
87	Sin	Tzu-Ni	MSTP	Assessment of mitochondrial fusion and fission in DJ-1 mice

#	Last name	First name	Academic Program	Abstract title
88	Nambiar	Pooja	MD--UP	Deep Brain Stimulation of the Subthalamic Nucleus: Effects on Vergence in Parkinson's Disease
89	Kass	Samara	MD--UP	Impact of Social Determinants of Health Disparities on Thumb Carpometacarpal Joint Arthritis Treatment
91	Rodio	Lauren	MD--UP	Epidemiology, Associated Injuries, and Surgical Intervention of 255,081 Clavicle Fractures in the United States from 2015-2024
92	Molitor	Luke	MD--UP	Do Research Gap Years and Summer Programs Enhance Orthopaedic Residency Match Success? A Systematic Review
93	Bogart	Maisy	MD--UP	Early Detection of Systemic Amyloidosis via Carpal Tunnel Syndrome Screening at an Urban Medical Center
94	Mangel	Matthew	MD--UP	Medicare Advantage and Traditional Medicare Patients Have Different PROMs Completion Rates Following Primary Total Hip Arthroplasty: Implications for the New CMS PRO-PM Mandate

#	Last name	First name	Academic Program	Abstract title
98	Parks	Meaghan	PhD program	Using Fisher's Geometric Model to Uncover Liver Cancer's Fitness Landscape
*99	Hudson	Kayla	MD--UP	Impact of host inflammation on Plasmodium falciparum gametocyte sex ratio in school-age children with subclinical malaria
100	Prantzas	Katrina	PhD program	AI-Guided Digital Twins for Seizure Detection: Integrating Language Models with Topological Data Analysis
101	Ravichandran	Varun	MD--UP	Outcomes of Intra-articular Corticosteroid Injections in Patients with Known Avascular Necrosis of the Hip
102	Hunter	Nicole	MD—UP ³	The Association of Modifiable Risk Factors with Macrovascular Outcomes in Aging Patients with Type 2 Diabetes Mellitus
103	Nasirpour	Mohammad	PhD program	Circulating Metabolomic Signatures of COPD in SPIROMICS and COPDGene
104	Lababede	Nour	MD--UP	Azithromycin vs Doxycycline in Hospitalized Community Acquired Pneumonia
105	Upadhyaya	Dipak	PhD program	Democratizing Clinical AI: Large Language Models for Automated Stereopsis Screening from Eye Movement Recordings

#	Last name	First name	Academic Program	Abstract title
108	Deng	Zhe	PhD program	Discovery of essential kinase dependencies in HPV-negative head and neck squamous cell carcinoma via parallel in vitro and in vivo screens
109	Mahesh	Abhishek	MD--UP	Efficacy Of A Novel Disinfection Machine, D60, Using UV-C Light Technology
110	Zhao	Ziyin	PhD program	A Novel Bioinformatic Method to Trace Donor-Specific B Cell Evolution in Transplant Recipients
111	Caradonna	Salvatore	MSTP	Cereblon homeostasis is perturbed by traumatic brain injury and critical for mitochondrial dynamics
112	Cowen	Erin	MD--UP	The role of CD55, ZMYND8, and EZH2 in platinum-resistant epithelial ovarian cancer
*113	Mechnikov	Pelli	MD--UP	Apgar Score and Intraventricular Hemorrhage in Preterm Infants with Low Serum Choline
114	Sumit	Tanvi	MD--UP	Models of Neonatal Follow-Up Care in Sub-Saharan Africa: Current Practices, Barriers, and Facilitators
115	Madugula	Nikhil	MD--UP	Predictors of Low Cardiac Output Syndrome
116	Srinivasan	Priyanka	MD--UP	Associations between Fungemia and Clinical Outcomes among Pediatric ECMO Patients

#	Last name	First name	Academic Program	Abstract title
117	Grayson	Victoria	MD--UP	Over the Counter, Under the Radar: Youth and Opill Access
118	Dickey	Sarah	MD--UP	Implementation of Novel Technologies in Pediatric Cardiology
119	Wood	Beverlee	PhD program	Proteolytic Cleavage of Progesterone Receptor Isoform B: A Novel Mechanism for Functional Progesterone Withdrawal During Labor
120	Hoffner	Natalie	MD--UP	A Systematic Review of Nipple Areola Complex Placement in Transgender Males
121	Morris	Kayla	MD--UP	Nerve Blocks for Postoperative Pain in Orthognathic Surgery: A Systematic Review and Meta-Analysis
*122	Patel	Mihir	MD--UP	Predictors of Complications After Axillary Lymph Node Dissection with Immediate Prosthesis-Based Reconstruction
123	Armah	Lesley	MD--UP	Meditational analysis on depression, stigma and self efficacy in PWE SMART 6 month outcomes
124	Ogg	Miette	MD--UP	Reading, Writing, and Communicating: Characteristics and Comorbidities in Children With Specific Language Disorders and Dyslexia
125	Berg	Mitchell	MD--UP	Comparison of Comorbidities in Pediatric Patients Diagnosed with a Speech and Language Disorder Before and After Age 6.
126	Befekadu	Henock	MSTP	Structural and functional basis of 5-HT3R modulation by antidepressants

#	Last name	First name	Academic Program	Abstract title
127	Srivastava	Meha	MD--UP	Implementation & Patient-Reported Outcomes of an Insurance-Based Integrative Oncology Symptom Management Program
128	Yoon	Jessica	MD--UP	Examining the Prevalence and Application of the Concepts “Food is Medicine” and “Culinary Medicine” in Diet-Related Interventions: A Scoping Review
129	Mehta	Nihit	Masters program	County-Level Obesity and Breast Cancer Screening: An Ecological Analysis in Ohio
130	Hwang	Inga	MSTP	Macrophage polarization with focused ultrasound and nanobubbles
132	Oladeji	Temiloluwa	MD--CP	Glucagon-Like Peptide-1 Receptor Agonists (GLP-1s) Are More Effective Than Metformin In Promoting Weight Loss in Patients with Polycystic Ovary Syndrome: A Retrospective Cohort Study
*133	Pedicini	Megan	MD—UP ²	The effects of diet, body composition, and dietary intervention on ovarian cancer growth
135	Han	Jay	MD--UP	Midline Anterior Fascial Tension at Closure Is Not Associated with Recurrence or Patient-Reported Outcomes at Greater Than 1 Year following Ventral Hernia Repair with Transversus Abdominus Release

#	Last name	First name	Academic Program	Abstract title
136	Risser	Kayleigh	MD--UP	Long-Term Outcomes of Ventral Hernia Repair Using Heavyweight Non-Woven Polypropylene Mesh
*137	Stiffler	Mikhail	MD--UP	Cell-Free Hemoglobin Increases Endothelial Adhesion to Red Blood Cells in a Concentration Dependent Manner
138	Medarametla	Lekha	MD--UP	Characterizing Postoperative Hypothermia in Patients Undergoing Major Thoracic Surgery
139	Tian	Shari	MD--UP	Short Versus Long Course Radiation in Total Neoadjuvant Therapy: A Single Institution Comparison on Survival Outcomes in Rectal Cancer Patients
140	Ting	Julia	MD--UP	Evaluating Implant Timing in Orthognathic Surgery for Edentulous Patients: A Systematic Review of Clinical Protocols and Outcomes
141	Barclay	Kyle	MD--UP	Gender Affirming Mastectomy Outcomes Stratified by BMI: A mixed institution Retrospective Review
142	Bansal	Puneet	MD--UP	Donor Obesity and MASLD as Barriers to Living Donor Liver Transplantation: Institutional Patterns and National Outcomes
143	Kosuru	Sindhu	MD--UP	Comparative Analysis of Male Stress Urinary Incontinence Treatments: A Review of Efficacy, Safety and Clinical Outcomes
*144	Patel	Sahil	MD--UP	Using Large Language Models to Automatically Extract Structured Data from Radiology, Operative, and Pathology Reports for Kidney Tumor Patients

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Thank you!

