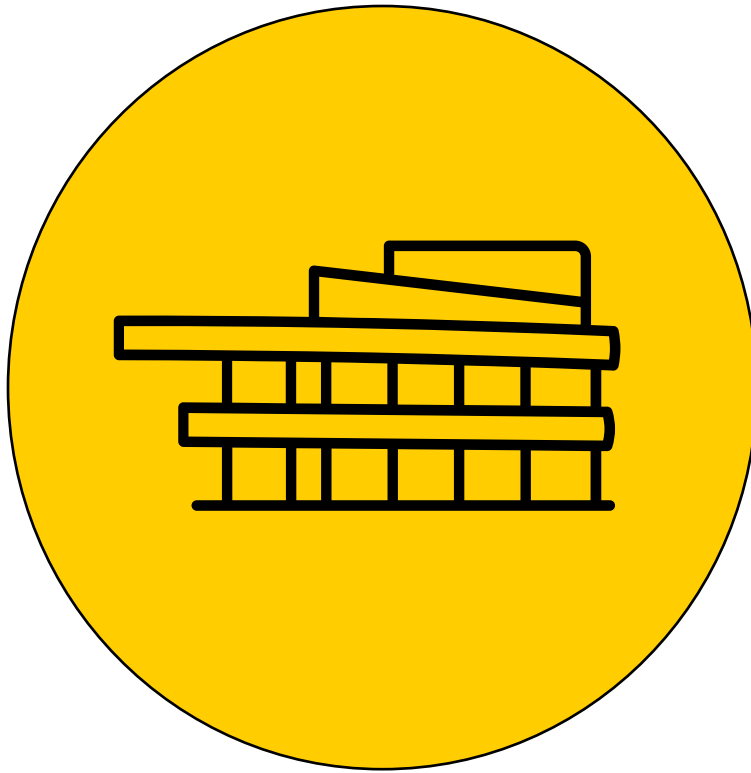




Medical Student Research Conference

September 16-18, 2026

University of Iowa
Roy J. & Lucille A. Carver College of Medicine

Sponsored by:
Medical Student Research Council
Carver College of Medicine Office of Student Affairs and Curriculum

Student Podium Presentations

Daniel Akinremi, M2G, PODIUM, 1171 MERF at 8:00

Title: pH-Mediated Changes in Antiarrhythmic Efficacy The Effect of pH on Flecainide Inhibition of Na channels in the Heart

Mentor: Barry London, Internal Medicine

Jonah Albrecht, M2, PODIUM, 1151 MERF at 8:45

Title: Prehospital Care Needs Assessment in Riobamba, Ecuador

Mentor: Hans House, Emergency Medicine

Tatiana Anderson, M2, PODIUM, 2136 MERF at 8:45

Title: The Invasive Proliferative Gelatinous Mass is a Specialized Inflammatory Niche of Hidradenitis Suppurativa

Mentor: Michal Kidacki, Dermatology

Olivia Arter, M2, PODIUM, 1151 MERF at 8:30

Title: Blunt cerebrovascular injury in trauma patients presenting with mandible fractures

Mentor: Dionne Skeete, Surgery

Jordan Bayles, M2, PODIUM, 1163 MERF at 8:00

Title: Differences in self-reporting nicotine use in pregnant people: comparing survey responses to paired clinical data

Mentor: Donna Santillan, Obstetrics & Gynecology

Michael Biertzer, M2, PODIUM, 1155 MERF at 9:45

Title: Body Mass Index and Psoas Muscle Index as Predictors of Outcomes Following Single-Level Lumbar Fusion for Degenerative Spine Disease

Mentor: Matthew Howard, Neurosurgery

Andrew Bolisay, M2, PODIUM, 2126 MERF at 9:30

Title: Impact of Adverse Childhood Experiences on Clinical, Physiological, and Self-Reported Outcomes in Multiple Sclerosis

Mentor: Terry L. Wahls, Internal Medicine

Kaisa Bornhoft, M2G, PODIUM, 1289 CBRB at 9:00

Title: Same target, worse aim: how aging alters cognitive precision

Mentor: Nandakumar Narayanan, Neurology

Corinne Bovee, M2, PODIUM, 1163 MERF at 8:45

Title: AI-Derived Volumetric Intraretinal Fluid Predicts Anti-VEGF Treatment Response Beyond Central Subfield Thickness in Diabetic Macular Edema

Mentor: Elliott Sohn, Ophthalmology & Visual Sciences

Student Podium Presentations

Justin Crawmer, M3, PODIUM, 1289 CBRB at 8:30

***Title:** Weight-Bearing CT Reveals Differing Restoration of Tibiofemoral Rotation and Screw Home Mechanics Following ACL Reconstruction*

Mentor: Don Anderson, Orthopaedics and Rehabilitation

Kip Cullinan, M4, PODIUM, 1289 CBRB at 8:15

***Title:** Transport of neonates in extremis: Exploring goals of care conversations*

Mentor: Samuel Wong, Pediatrics

Daniela Del Bosque Siller, M2G, PODIUM, 1289 CBRB at 9:15

***Title:** Treating Inherited Retinal Diseases with Next-Gen CRISPR Gene Editing Technology*

Mentor: Budd Tucker, Ophthalmology & Visual Sciences

Regan DeMaris, M2, PODIUM, 1163 MERFat 9:15

***Title:** Quantitative Laryngoscopic Assessment of Vocal Fold Bowing in Presbyphonia*

Mentor: Matthew Hoffman, Otolaryngology

Layna Depping, M2, PODIUM, 1155 MERF at 8:15

***Title:** Association of epithelialized status of spinal defects with postoperative complications in infants with myelomeningocele in Zambia*

Mentor: Rebecca Reynolds, Neurosurgery

Braiden DeSchryver, M2, PODIUM, 1181 MERF at 8:45

***Title:** Brief Health Literacy Identifies Differences in Patient-Reported Health Status, but Not Surgical Improvement*

Mentor: Dallas Vanorny, Orthopaedics and Rehabilitation

Allison Dodds, M3, PODIUM, 1155 MERF at 8:45

***Title:** A prospective evaluation of the impact of early antibiotic initiation in infants with myelomeningocele in Zambia*

Mentor: Rebecca Reynolds, Neurosurgery

Eric Doorn, M2, PODIUM, 1155 MERF at 8:30

***Title:** Establishing an Approach to Study Dopaminergic Regulation of D1- and D2-MSN Activity During Interval Timing*

Mentor: Nandakumar Narayanan, Neurology

John Drey, M2, PODIUM, 1163 MERFat 9:30

***Title:** Feasibility of Zwitterionic Conditioning of the Decompressive Craniectomy Site for Early Cranioplasty*

Mentor: Brian Andrews, Otolaryngology - Head & Neck Surgery

Student Podium Presentations

Chase Eastham, M2G, PODIUM, 1289 CBRB at 8:00

Title: *Synergistic Trends Between Targeted Therapeutics for Malignant Peripheral Nerve Sheath Tumors*

Mentor: Dawn Quelle, Pharmacology

Sophie Fisher, M2, PODIUM, 1181 MERF at 8:00

Title: *Interaction Between Maternal Medical and Obstetric Complications and Early Breast Milk Feeding Practices: A Retrospective Study*

Mentor: Noelle Bowdler, Obstetrics & Gynecology

Dilara Flor, M2, PODIUM, 2189 MERF at 9:15

Title: *Upper Extremity Osteomyelitis: A Multicenter Retrospective Cohort Analysis with In-Depth Assessment of Patient-Centered Outcomes at Iowa Health Care*

Mentor: Martha Carvour, Internal Medicine

Parker Fryar, M2, PODIUM, 1181 MERF at 9:00

Title: *Structural Deformity and Dynamic Plantar Pressure Mapping of Adults Treated for Idiopathic Clubfoot with the Ponseti Method*

Mentor: Bopha Chrea, Orthopaedics and Rehabilitation

Ellie Garcia, M2, PODIUM, 1163 MERF at 9:00

Title: *MMP9 Genotype and Systemic Immunophenotype in Neovascular Age-Related Macular Degeneration*

Mentor: Elliott Sohn, Ophthalmology & Visual Sciences

Bailey Garnica, M4, PODIUM, 1171 MERF at 9:45

Title: *Web-based multi-variable computational models predicting early spontaneous resolution in children with vesicoureteral reflux*

Mentor: Christopher Cooper, Urology

Lauren Gray, M2, PODIUM, 1151 MERF at 9:30

Title: *Exploring the Association Between Adverse Childhood Experiences and Fatigue, Quality of Life, and Mood Among People with Multiple Sclerosis*

Mentor: Linda Snetselaar, Epidemiology

Grace Halupnik, M2, PODIUM, 1163 MERF at 9:45

Title: *Targeting Tumor-Associated Macrophages Modulates Proliferation in Vestibular Schwannoma*

Mentor: Marlan R. Hansen, Otolaryngology - Head & Neck Surgery

Student Podium Presentations

Grace Haugstad, M4, PODIUM, 2136 MERF at 9:45

***Title:** Clinical, Histologic, and Molecular Insights into Wound Healing Under Systemic Immunosuppression*

Mentor: Kelly Messingham, Dermatology

Margaret Huang, M2, PODIUM, 2126 MERF at 9:00

***Title:** Sleep changes as a predictor of antidepressant response to electroconvulsive therapy (ECT)*

Mentor: Mark Niciu, Psychiatry

Trevor Hughes, M2, PODIUM, 2126 MERF at 8:00

***Title:** Development of an Intraoperative Bone Quality Assessment Tool for Total Knee Arthroplasty*

Mentor: Jacob Elkins, Orthopaedics and Rehabilitation

Maya Jackson, M2, PODIUM, 2136 MERF at 9:00

***Title:** Assessment of the Performance of Large Language Models in the Diagnosis and Management of Cutaneous T-Cell Lymphoma*

Mentor: Vincent Liu, Dermatology

Aditya Joglekar, M2, PODIUM, 2126 MERF at 8:15

***Title:** Preoperative Median Nerve Cross-Sectional Area Is Not Associated with Recovery After Carpal Tunnel Release: An Analysis of Clinical, Anatomic, and Operative Factors*

Mentor: Joseph Buckwalter V, Orthopaedics and Rehabilitation

Eleanor Johnson, M2, PODIUM, 1181 MERF at 9:15

***Title:** Kidney Dysfunction and Nephrology Referral Patterns in Adolescents and Young Adults with Eating Disorders*

Mentor: Lyndsay Harshman, Pediatrics

Preston Johnson, M2G, PODIUM, 1289 CBRB at 9:45

***Title:** Role of Microglia in Thalamic Neurodegeneration Following Traumatic Brain Injury*

Mentor: Elizabeth Newell, Pediatrics

Akshaj Joshi, M2, PODIUM, 1181 MERF at 9:30

***Title:** Large Scale Lesion and Lesion Network Localization of Chronic Hemispatial Neglect*

Mentor: Aaron Boes, Pediatrics

Sameeullah Jung, M2, PODIUM, 2189 MERF at 9:00

***Title:** Upper-Extremity Functional Recovery After Breast Reconstruction: A Longitudinal Comparison of Implant-Based and DIEP Flap Reconstruction*

Mentor: Jerrod Keith, Surgery

Student Podium Presentations

Lucy Kim, M2, PODIUM, 1163 MERF at 8:15

Title: *Characteristics of High-Performing Low-Volume Birthing Facilities in Iowa*

Mentor: Stephanie Radke, Obstetrics & Gynecology

Jackson Komp, M3, PODIUM, 1171 MERF at 8:45

Title: *Pediatric Cannabis Exposures at an Academic Medical Center in Iowa: A 23-year Retrospective Review*

Mentor: Matthew Krasowski, Pathology

Christopher Langland, M4, PODIUM, 1171 MERF at 9:15

Title: *Medical Student Observations of Imaging Stewardship and Radiology Consultation During Clinical Rotations*

Mentor: Takashi Shawn Sato, Radiology

David Lee, M2, PODIUM, 1171 MERF at 9:30

Title: *Regional Lung Reserve Assessed by Quantitative Computed Tomography Identifies Moderate-Risk Patients Requiring Supplemental Oxygen After Lobectomy*

Mentor: Jessica Sieren, Radiology

Asya Lengel, M2, PODIUM, 1151 MERF at 9:45

Title: *KEAP1-NRF2 Pathway Upregulates Thiol Antioxidants, NADPH Regeneration, and Iron Internalization that are Crucial for Survival and Proliferation in NSCLC Cells*

Mentor: Douglas R. Spitz, Free Radical & Radiation Biology

Jamille Lockhart, M2, PODIUM, 1151 MERF at 8:00

Title: *Optic Atrophy 1 (OPA1) Deficiency in Brown Adipocytes Improves Cardiac Function Through Endocrine Signaling*

Mentor: Renata Alambert, Internal Medicine

Crystal Lore, M2, PODIUM, 1151 MERF at 9:00

Title: *A National Study of Pediatric Utility Task Vehicle Crashes and Fatalities on Public Roadways*

Mentor: Charles Jennissen, Emergency Medicine

Britt Mariman, M2, PODIUM, 2136 MERF at 9:30

Title: *BP180-Specific Autoantibodies and Localized Inflammation Remodel the Epidermal Tolerogenic Axis in Bullous Pemphigoid*

Mentor: Kelly Messingham, Dermatology

Chase McInville, M2, PODIUM, 1155 MERF at 9:15

Title: *Addiction Medicine After Burn and Traumatic Injury: Who is Offered Consultation and Who Accepts It?*

Mentor: Alexander Kurjatko, Surgery

Student Podium Presentations

Elizabeth Meyer, M2, PODIUM, 2126 MERF at 8:30

Title: *Regional Proximal Tibial CT Attenuation by Fixation Method in Robotic Total Knee Arthroplasty*

Mentor: Dallas Vanorny, Orthopaedics and Rehabilitation

Abdullahi Mohamed, M2, PODIUM, 2189 MERF at 9:30

Title: *Long Term Quality of Life After Pancreatic Resection at a Single Center from 2020-2025*

Mentor: Aziz Hassan, Surgery

Sarvin Mousakhani, M2, PODIUM, 2189 MERF at 9:45

Title: *Indications and Timing of Physical Therapy Referral and Upper Extremity Outcomes After Breast Reconstruction*

Mentor: Jerrod Keith, Surgery

Sarah Nacos, M4, PODIUM, 1171 MERF at 9:00

Title: *Effect of catheter ablation with vein of Marshall ethanol infusion vs catheter ablation alone on persistent atrial fibrillation.*

Mentor: Paari Dominic, Internal Medicine

Natalie Nelson, M2, PODIUM, 1181 MERF at 8:30

Title: *Spatial Proteogenomic Profiling of the Non-Small Cell Lung Cancer Tumor Microenvironment*

Mentor: christina Cho, Internal Medicine

Baqir Noor, M2, PODIUM, 1155 MERF at 9:30

Title: *Dynamic Changes in Heart Rate Variability Following Mechanical Thrombectomy and Their Association with Neurologic Recovery*

Mentor: Mario Zanaty, Neurosurgery

Melia Patrick, M2, PODIUM, 1181 MERF at 8:15

Title: *The Feasibility, Challenges, and Facilitators of Implementing a Web-Based Behavioral Lifestyle Intervention to Improve Cancer-Related Fatigue and Quality of Life Among People with Cancer in Remission: A Mixed-Methods Study*

Mentor: Farnoosh Shemirani, Internal Medicine

Isabel Perez-Sandi, M2, PODIUM, 1155 MERF at 9:00

Title: *A Systematic Characterization of Tele-Buprenorphine? Hotlines in the US*

Mentor: Priyanka Vakkalanka, Emergency Medicine

Katerina Petroff, M2G, PODIUM, 1171 MERF at 8:15

Title: *The Microbiome's Effect on Tissue Loss in Sepsis*

Mentor: Kale Bongers, Internal Medicine

Student Podium Presentations

Steven Phu, M2, PODIUM, 1151 MERF at 9:15

***Title:** Integrating Advanced Practice Providers into 911 Response: A Retrospective Feasibility Analysis of Low-Acuity Calls*

Mentor: Thomas Striegel, Emergency Medicine

Atif Qureshi, M1, PODIUM, 2136 MERF at 8:00

***Title:** Alternative Splicing in Hypertrophic Murine Cardiac Models*

Mentor: Adnan Al Ayoubi, Cardiothoracic Surgery

Dominic Rivas, M2G, PODIUM, 1289 CBRB at 9:30

***Title:** Mitochondrial Responses To Simulated Loading Of Articular Cartilage*

Mentor: Mitch Coleman, Orthopaedics and Rehabilitation

Kal Rochford, M2, PODIUM, 1181 MERF at 9:45

***Title:** Sodium Supplementation on Growth Outcomes in Premature Neonates with AKI*

Mentor: Lyndsay Harshman, Pediatrics

Santo Roy, M2, PODIUM, 2136 MERF at 8:30

***Title:** Investigation of TGF- β mediated phenotypic switching of airway epithelial cells via EMT in Chronic Lung Allograft Dysfunction*

Mentor: Kalpaj Parekh, Cardiothoracic Surgery

Lillian Schmidt, M2, PODIUM, 2126 MERF at 8:45

***Title:** Clinical Implementation of OpenCap for Functional Biomechanical Assessment in Total Knee Arthroplasty*

Mentor: Jacob Elkins, Orthopaedics and Rehabilitation

Madison Seda, M2, PODIUM, 1163 MERF at 8:30

***Title:** Seminal Plasma From Hypertensive Fathers Influences iPSC Differentiation: A Model of the Paternal Role in Preeclampsia*

Mentor: Mark Santillan, Obstetrics & Gynecology

Kyle Trunnell, M2, PODIUM, 2189 MERF at 8:00

***Title:** A comparison of cadaveric and synthetic models for testing cement-augmented lumbar spinal fusion constructs in osteoporotic bone*

Mentor: Catherine Olinger, Orthopaedics and Rehabilitation

Caroline Van Bell, M2, PODIUM, 1151 MERF at 8:15

***Title:** Impact of OPA1 Loss in Brown Adipose Tissue on Cardiac Function and Remodeling Following Myocardial Infarction*

Mentor: Renata Alambert, Internal Medicine

Student Podium Presentations

Mukund Viswanadha, M2, PODIUM, 2136 MERF at 9:15

***Title:** Patient Satisfaction and Tolerability of Intralesional Chemotherapy for Non-Melanoma Skin Cancer: Findings from a Single-Institution Survey*

Mentor: Nicole Negbenebor, Dermatology

Arielle Weber, M2, PODIUM, 2189 MERF at 8:15

***Title:** Association of Hormone Replacement Therapy with Foot and Ankle Tendon and Fascia Injury: An Electronic Health Record Database Study*

Mentor: Bopha Chrea, Orthopaedics and Rehabilitation

Gabriel Weigel, M2G, PODIUM, 1289 CBRB at 8:45

***Title:** Knock out of Lactate Transporters MCT1 and MCT4 Differentially Polarize T Cells Towards a Tfh and Th1 phenotype during Plasmodium Infection.*

Mentor: Noah Butler, Microbiology

Carter Weyman, M1, PODIUM, 2189 MERF at 8:30

***Title:** Recurrence After Revision Shoulder Stabilization: Two-Year Results from the MOON Shoulder Cohort*

Mentor: Brian R. Wolf, Orthopaedics and Rehabilitation

Brett Wineinger, M1, PODIUM, 2136 MERF at 8:15

***Title:** CellSpy: A fully automated immunofluorescent image analysis tool.*

Mentor: Amy Ryan, Anatomy & Cell Biology

Manar Yaseen, M2, PODIUM, 2126 MERF at 9:15

***Title:** Changes in Brain Structure and function in Juvenile-Onset Huntington's Disease Over One Year*

Mentor: Peg Nopoulos, Psychiatry

Hye-Lin Yoo, M2G, PODIUM, 1171 MERF at 8:30

***Title:** Mathematically Modeling Antisense Transcription in Cardiac Stress*

Mentor: Colleen Mitchell, Mathematics and IM

Tucker Young, M2, PODIUM, 2189 MERF at 8:45

***Title:** Comparing Outcomes of Distal Femur Fractures of Native Femur and Existing Total Knee Arthroplasty: Distal Femur Replacement vs Open Reduction Internal Fixation*

Mentor: Nicolas Noiseux, Orthopaedics and Rehabilitation

Hannah Zadeh, M2, PODIUM, 2126 MERF at 9:45

***Title:** Chronic Kidney Disease Prevention in Iowa Primary Care: An Interview Study*

Mentor: Martha Carvour, Internal Medicine

Student Podium Presentations

Hannah Zipf, M2, PODIUM, 1155 MERF at 8:00

Title: *Effect of surgical treatment of hydrocephalus on radiographic parameters and neurological development in pediatric myelomeningocele patients in Zambia*

Mentor: Rebecca Reynolds, Neurosurgery

Student Poster Presentations

Reed Adajar, M2, POSTER, THURSDAY #37

***Title:** Risk Factors for Pickleball-Related Orthopedic Injuries: A 10-Year Analysis of Injury Patterns in a Rapidly Growing Sport*

Mentor: Robert Westermann, Orthopaedics and Rehabilitation

Ryan Albright, M3, POSTER, WEDNESDAY #84

***Title:** Home Versus Office Foley Catheter Removal Following Routine Urologic Surgery: A Retrospective Cohort Study*

Mentor: Amanda Myers, Urology

Alaa Ali, M2, POSTER, THURSDAY #65

***Title:** DNA Methylation and Pathway Signatures Associated With Postoperative Delirium and Clinical Outcomes*

Mentor: Gen Shinozaki, Psychiatry

Susan Anil, M4, POSTER, WEDNESDAY #38

***Title:** Strabismus as a Presentation of Stickler Syndrome: A Case Series*

Mentor: Alina Dumitrescu, Ophthalmology & Visual Sciences

Aiden Atkins, M2, POSTER, THURSDAY #39

***Title:** Food Insecurity and Diabetes in Foot and Ankle Orthopedics: Implications for Risk Stratification and Care*

Mentor: Bopha Chrea, Orthopaedics and Rehabilitation

Ahmed Baig, M2, POSTER, THURSDAY #9

***Title:** Characterization of Mucin 5B Expression in Hidradenitis Suppurativa*

Mentor: Michal Kidacki, Dermatology

Cyrus Barati, M2, POSTER, WEDNESDAY #52

***Title:** Reversing Aging-Associated Epigenetic Silencing in Endometrial Cancer Using Combined 5-Azacytidine and Romidepsin*

Mentor: Shujie Yang, Pathology

Ardith Bhinu, M2, POSTER, THURSDAY #49

***Title:** Effect of Treatment Timing with Losartan on Auditory Recovery after Noise Overexposure*

Mentor: Douglas Bennion, Otolaryngology

Emma Blomberg, M4, POSTER, THURSDAY #11

***Title:** Exploring Pediatric Skin Conditions Through Caregivers' Narratives: A Qualitative Study of Lived Experience*

Mentor: Trinidad Hasbun, Dermatology

Student Poster Presentations

Paisley Bryant, M4, POSTER, WEDNESDAY #76

Title: A Multidisciplinary Approach to Neurogenic Thoracic Outlet Syndrome

Mentor: Maen Aboul Hosn, Surgery

Ashley Callaghan, M2, POSTER, THURSDAY #35

Title: Prediction of Ovarian Cancer Chemo-Response with Multimodal Deep Learning Analysis Integrating Clinical, Pathological, and CT Imaging Data

Mentor: Jesus Gonzales, Obstetrics and Gynecology-Oncology

Sean Carroll, M2, POSTER, WEDNESDAY #86

Title: Clinical Data Artificial Intelligence Platform for Real-Time Chart Abstraction of Prostate Cancer in the Electronic Health Record

Mentor: Kenneth Nepple, Urology

Christopher Ceplecha, M2, POSTER, THURSDAY #41

Title: Perioperative pembrolizumab increases wound healing complication rates following high grade soft tissue sarcoma resection

Mentor: Benjamin Miller, Orthopaedics and Rehabilitation

Hayley Chappell, M2, POSTER, THURSDAY #43

Title: Patients' Expectations and Education Surrounding Shoulder Surgery

Mentor: Brendan Patterson, Orthopaedics and Rehabilitation

Perapa Chotiprasidhi, M2, POSTER, WEDNESDAY #8

Title: Effects of a Very Low-Calorie Diet on Metabolic and Microbiome Profiles in Women with Obesity and Metabolic Dysfunction-Associated Steatotic Liver Disease

Mentor: Marcelo Correia, Internal Medicine-Endocrine

Edward Cuao, M2, POSTER, THURSDAY #51

Title: Relationship between Neo-ossification and Neo-angiogenesis after cochlear implantation

Mentor: Alexander Claussen, Otolaryngology

Riley DeJohn, M2, POSTER, THURSDAY #53

Title: Understanding the Impact of VEGFR2 Inhibitors on Neoangiogenesis after Cochlear Implantation in Mice

Mentor: Alexander Claussen, Otolaryngology

Sandeep Dhingra, M4, POSTER, WEDNESDAY #54

Title: Co-occurring Autoimmune and Immune-Mediated Diseases in a University of Iowa MS Cohort Reveal a Broad Systemic Inflammatory Phenotype

Mentor: Ashutosh Mangalam, Pathology

Student Poster Presentations

Nick Dolphin, M2, POSTER, THURSDAY #7

Title: *Studying Mechanisms of Action of Small Neurotrophic Molecules trans-Banglene and ARDD*

Mentor: Florence Williams, Chemistry

Kim Fairhead, M3, POSTER, WEDNESDAY #10

Title: *Self-reported dietary changes lead to improved outcomes in newly diagnosed multiple sclerosis patients*

Mentor: Terry L. Wahls, Internal Medicine-General

Will Fairman, M1, POSTER, THURSDAY #17

Title: *From Vessel to Viable Ring: Establishing a Living Human Coronary Plaque Platform for Disease Modeling*

Mentor: Jennifer Streeter, Internal Medicine-Cardiovascular

Sarah Fu, M2, POSTER, WEDNESDAY #78

Title: *Tirzepatide activates GIPR-mediated signaling and enhances tyrosine kinase inhibitor sensitivity in gastroenteropancreatic neuroendocrine neoplasm cells*

Mentor: James Howe, Surgery

Alejandro Garay, M2, POSTER, WEDNESDAY #56

Title: *Impact of oral cavity and velopharyngeal dimensions on sleep disordered breathing and pre-speech language metrics in infants with oral cleft*

Mentor: Amy Conrad, Pediatrics

Emma Gehlbach, M2, POSTER, WEDNESDAY #40

Title: *MiR-23a-3p mimics modulate GPX4 expression in corneal endothelial cell lines*

Mentor: Mark Greiner, Ophthalmology & Visual Sciences

Agam Gill, M2, POSTER, THURSDAY #55

Title: *Analysis of Electrode Migration After Cochlear Implant in Dexamethasone Eluting Electrodes*

Mentor: Alexander Claussen, Otolaryngology

Caleb Greene, M2, POSTER, WEDNESDAY #24

Title: *Plaque Enhancement on High-Resolution MRI and its association with Recurrent Ischemic Stroke in Intracranial Atherosclerotic Disease: A Multicenter Longitudinal Study*

Mentor: Edgar Samaniego, Neurology

Kendall Haefele, M4, POSTER, WEDNESDAY #2

Title: *Droperidol vs. Ketamine for Out-of-Hospital Agitation Management*

Mentor: Peter Georgakakos, Emergency Medicine

Student Poster Presentations

Gwen Harty, M2, POSTER, THURSDAY #33

Title: *It's Not All Your Fault: Paternal Health Status and the Impacts on Preeclampsia Development*

Mentor: Mark Santillan, Obstetrics & Gynecology

Lauren Herrington, M2, POSTER, THURSDAY #31

Title: *Hospital rurality, CoC accreditation status and timeliness of adjuvant radiation in patients with head and neck squamous cell cancer*

Mentor: Xiang Gao, Surgery

Jacob Hill, M2, POSTER, THURSDAY #69

Title: *Vaccine Hesitancy Among US Adults and the 7C Psychological Antecedents Model: A Cluster Analysis*

Mentor: Natoshia Askelson, Public Health

Treyton Hveem, M2, POSTER, WEDNESDAY #48

Title: *Improving geometric and dynamic fluid modeling in the optic nerve head with a nerve-centered image segmentation approach.*

Mentor: Edward Linton, Ophthalmology and Visual Sciences

Delaney Ita, M4, POSTER, WEDNESDAY #34

Title: *Evaluation of Subsequent Fetal Outcomes Following Chorioamnionitis Diagnosis in a Prior Pregnancy*

Mentor: Donna Santillan, Obstetrics & Gynecology

Sonia Jeon, M2, POSTER, THURSDAY #29

Title: *Finger Tapping Performance Before and After Subthalamic Nucleus Deep Brain Stimulation in Parkinson's Disease*

Mentor: Jeremy Greenlee, Neurosurgery

Alex Johnson, M2, POSTER, WEDNESDAY #58

Title: *Safety and Efficacy of Atrial Antitachycardia Pacing with a Plugged Ventricular Port in Patients with Congenital Heart Disease*

Mentor: Ian Law, Pediatrics

Alana Jones, M2, POSTER, THURSDAY #15

Title: *Limited Health Literacy is Associated with Reduced Healthcare Engagement and Worse Patient-Reported Outcomes in Orthopedic Patients*

Mentor: Natalie Glass, Epidemiology

Student Poster Presentations

Vivek Joshi, M2, POSTER, WEDNESDAY #14

Title: Pre-Transplant Pulmonary and Cardiac Function as Predictors of Outcomes After Autologous Stem Cell Transplantation in Multiple Myeloma.

Mentor: Hira Shaikh, Internal Medicine-Hemonc

Isabel Kidd, M2, POSTER, WEDNESDAY #60

Title: Impact of Treatment on Prevalence of Mental Health Disorders in Children with Hemophilia A

Mentor: Janice Staber, Pediatrics

Sean Kim, M4, POSTER, WEDNESDAY #80

Title: Body Image Distress and Psychosocial Well-Being Following Implant-Based Breast Reconstruction: A Preliminary Cross-Sectional Analysis.

Mentor: Kelly Ledbetter, Surgery

Madelyn Klemmensen, M2, POSTER, WEDNESDAY #26

Title: Identifying Novel Variants and Genotype-Phenotype associations in Charcot-Marie-Tooth and Hereditary Spastic Paraplegias using Long-Read Sequencing

Mentor: Michael Shy, Neurology

Dennis Kobuzi, M3, POSTER, THURSDAY #1

Title: Validity of surgical pathology collection times and closing count documentation times as milestones related to the start of surgical closure for display on operating room management status boards

Mentor: Franklin Dexter, Anesthesia

Mallory Lafever, M4, POSTER, WEDNESDAY #36

Title: Glyphosate Exposure in Pregnancy

Mentor: Donna Santillan, Obstetrics & Gynecology

Lillie Lamont, M2, POSTER, WEDNESDAY #16

Title: Outcomes of Budesonide Compared to Prednisone for Immune Checkpoint Inhibitor Hepatitis and Immunotherapy Rechallenge

Mentor: Mohammed Milhem, Internal Medicine-Hemonc

Spenser Larson, M4, POSTER, THURSDAY #19

Title: Through the Wormhole: Conservatively Managed Clot-in-Transit Across a Patent Foramen Ovale With Systemic Embolization

Mentor: Christopher Benson, Internal Medicine-Cardiovascular

Grant Leach, M2, POSTER, WEDNESDAY #42

Title: Test-Retest Repeatability of the Smart System Virtual Reality Perimetric Headset

Mentor: Andrew Pouw, Ophthalmology & Visual Sciences

Student Poster Presentations

Mikayla Lewis, M2, POSTER, WEDNESDAY #62

Title: Rapid Non-invasive Pediatric Solid Tumor Diagnosis through Liquid Biopsy Nanopore Sequencing

Mentor: Andrew Groves, Pediatrics

Ben Madden, M1, POSTER, WEDNESDAY #20

Title: Complement system biomarkers and adverse cardiac outcomes in diabetic and non-diabetic kidney disease

Mentor: Diana Jalal, Internal Medicine-nephrology

Deeraj Manika, M2, POSTER, THURSDAY #21

Title: Left Atrial Appendage Geometry During Concomitant Pulsed-Field Ablation and Closure Using Four-Dimensional Echocardiography

Mentor: Paari Dominic, Internal Medicine-Cardiovascular

Charles Mascardo, M2, POSTER, WEDNESDAY #44

Title: Characterizing ferroptosis and mechanotransduction transcriptomic changes in corneal endothelial cells in Fuchs Endothelial Corneal Dystrophy

Mentor: Mark Greiner, Ophthalmology & Visual Sciences

Mary McCormick, M2, POSTER, THURSDAY #63

Title: Preanalytical considerations for RNA analysis of archived PAXgene whole blood collected during pregnancy

Mentor: Marie Gaine, Pharmacy

Jasmine Miftahof, M2, POSTER, THURSDAY #5

Title: Investigating Environmental PCBs, Adipocyte Crosstalk, and Matrix Mechanics in Macrophage Polarization During Tissue Repair

Mentor: James Ankrum, Biomedical Engineering

Jenna Mosnik, M2, POSTER, WEDNESDAY #82

Title: Short- and Long-Term Outcomes of Older Adult Patients with Burn Injuries

Mentor: Lucy Wibbenmeyer, Surgery

Edin Muminovic, M2, POSTER, THURSDAY #23

Title: From Expiration to Preservation: Reducing Plasma Waste by Incorporating Liquid Plasma in Trauma Resuscitation — A Before-and-After Evaluation

Mentor: Hayden Smith, Internal Medicine-EM

Student Poster Presentations

Sabah Munir, M2, POSTER, WEDNESDAY #46

Title: *Oculocutaneous Albinism: Visual Outcome Predictors Among Genetically Tested Pediatric Patients*

Mentor: Alina Dumitrescu, Ophthalmology & Visual Sciences

Troy Nation, M2, POSTER, THURSDAY #45

Title: *Comparing Surgical Outcomes of Osteochondritis Dissecans of the Knee at Minimum 5-Year Follow-Up*

Mentor: Robert Westermann, Orthopaedics and Rehabilitation

Annie Noel, M3, POSTER, WEDNESDAY #12

Title: *Association of dieting with MRI outcomes in patients with multiple sclerosis*

Mentor: Terry L. Wahls, Internal Medicine-General

Spencer Pham, M4, POSTER, THURSDAY #27

Title: *Pregnancy-Relevant Autoantibody Profiles and Adverse Pregnancy Outcomes in Patients with Sjögren's Disease: A Retrospective Chart Review*

Mentor: Brittany Bettendorf, Internal Medicine-Immunology

Corey Plate, M2G, POSTER, WEDNESDAY #28

Title: *Empathy: Organizing a Field*

Mentor: Daniel Tranel, Neurology

Paige Ransdell, M2, POSTER, WEDNESDAY #64

Title: *Effects of Hemophilia A Severity and Mental Health Disorders on Healthcare System Usage*

Mentor: Janice Staber, Pediatrics

Sam Reyes, M4, POSTER, THURSDAY #13

Title: *Phenobarbital Based Protocol for Alcohol Withdrawal Syndrome in the Emergency Department*

Mentor: Joshua Radke, Emergency Medicine

Emily Riley, M2, POSTER, THURSDAY #59

Title: *Genetic and clinical contributors to speech perception outcomes after cochlear implantation*

Mentor: Marlan R. Hansen, Otolaryngology - Head & Neck Surgery

Tarynn Rodman, M2, POSTER, THURSDAY #3

Title: *Understanding Breakthrough Pain During Labor Analgesia: The Role of Neuraxial Analgesia Duration in a Predominantly Combined Spinal-Epidural Practice Using PIEB/PCEA*

Mentor: Unyime Ituk, Anesthesia

Student Poster Presentations

Anna Royer, M2, POSTER, WEDNESDAY #66

Title: Immune Tolerance Induction Strategies for Tividenofusp Alfa in Mucopolysaccharidosis II

Mentor: John Bernat, Pediatrics

Brianna Schoenfeld, M2, POSTER, WEDNESDAY #74

Title: Multidimensional Sleep and Movement Behaviors Across Pregnancy: the Pregnancy 24/7 Cohort Study

Mentor: Kara Whitaker, Health & Human Physiology

Devin Soldati, M3, POSTER, THURSDAY #47

Title: Diagnostic Utility of Ultrasonography in Diagnosing Carpal Tunnel Syndrome Versus Electrodiagnostic Studies

Mentor: Joseph Buckwalter V, Orthopaedics and Rehabilitation

Keegan Staab, M2, POSTER, WEDNESDAY #4

Title: Quantitative CT for Early Detection of Chronic Rejection in Lung Transplantation

Mentor: Sean Fain, Radiology

Ethan Stallman, M2, POSTER, WEDNESDAY #68

Title: Risk of Developing Atopic Conditions in Term Infants Exposed to Chorioamnionitis

Mentor: Jeremy Sandgren, Pediatrics

Nathan Steimel, M2, POSTER, WEDNESDAY #18

Title: Outcomes of Budesonide Compared to Prednisone for Immune Checkpoint Inhibitor Colitis and Immunotherapy Rechallenge

Mentor: Mohammed Milhem, Internal Medicine-Hemonc

Ava Stipanovich, M2, POSTER, WEDNESDAY #70

Title: Comparative Efficacy of Dexamethasone Burst versus DART Steroid Regimens in Preterm Infants with Evolving Bronchopulmonary Dysplasia

Mentor: Adrienne Rahde Bischoff, Pediatrics

Padraic Sullivan, M2, POSTER, THURSDAY #25

Title: Patterns in Substance Use-Related Presentations to the Emergency Department

Mentor: Hayden Smith, Internal Medicine-EM

Mary Thomas, M2, POSTER, WEDNESDAY #72

Title: Targeting Caspase-8 and the Extrinsic Apoptotic Pathway in Ewing Sarcoma Tumors

Mentor: David Gordon, Pediatrics

Student Poster Presentations

Abbie Townsend, M2, POSTER, THURSDAY #61

***Title:** Standardized Parotid Gland Subunit Classification Improves Interpretation of Multimodal Imaging in Salivary Gland Disease*

Mentor: Henry Hoffman, Otolaryngology - Head & Neck Surgery and Radiology

Lorena Tran, M1, POSTER, WEDNESDAY #22

***Title:** Epigenetic inflammatory memory is sustained in airway basal cells in vivo*

Mentor: Alejandro Pezzulo, Internal Medicine-Pulmonary

Emma VandeLune, M2, POSTER, THURSDAY #57

***Title:** GLP-1 Receptor Agonists and Hearing Outcomes in Metabolic Syndrome*

Mentor: Douglas Bennion, Otolaryngology

Veena Venkatesh, M4, POSTER, WEDNESDAY #88

***Title:** Reducing Unnecessary Hospital Admissions After Routine Percutaneous Nephrostomy Catheter Placement*

Mentor: Kenneth Nepple, Urology

Caitlyn Weeks, M1, POSTER, WEDNESDAY #30

***Title:** Pain Recognition and Rejection of Care in Hospitalized Persons Living with Dementia*

Mentor: Clarissa Shaw, Nursing

Karl Wilson, LOA, POSTER, THURSDAY #67

***Title:** Patient Characteristics and Retention at Iowa's Only Same-Day Walk-In MAT Clinic*

Mentor: Andrea Weber, Psychiatry

Angela Wong, M2, POSTER, WEDNESDAY #50

***Title:** Improvements in Glaucoma Medication Reconciliation Using Structured Versus Free Text Entry*

Mentor: Andrew Pouw, Ophthalmology and Visual Sciences

Kane Zemo, M1, POSTER, WEDNESDAY #6

***Title:** Ac2-26 Activates Concordant Plaque-Stabilization Programs in Reversa Mice and an Ex Vivo Human Coronary Atherosclerosis Model*

Mentor: Jennifer Streeter, Internal Medicine-Cardiovascular

Jennifer Zeng, M2, POSTER, WEDNESDAY #32

***Title:** Feasibility, Acceptability, and User Experience of the PACE-App: A Mixed-Methods Pilot Randomized Trial*

Mentor: Nai-Ching Chi, Nursing

Student Poster Presentations

John Davelaar, M4, VIRTUAL, September 23 at 10:15

Title: *CFTR Modulators Alter the Metabolism and Growth of Pancreatic Cancer Cells*

Mentor: Aliye Uc, Pediatrics

Joel VandeLune, M4, VIRTUAL, September 23 at 10:00

Title: *Neighborhood Socioeconomic Deprivation and Risk of Orofacial Clefts: A Multistate Population-Based Study*

Mentor: John Jensen, Surgery