

2025 HEALTH SCIENCES RESEARCH DAY

Category I: Undergraduates and Medical Students

Basic Science

Poster ID	Title of Abstract	First Author
1	Investigating the Role of ACTC1 in Human Placenta Using Pluripotent Cell-derived Trophoblast	Agee, Madeline
2	Potential of AKR1B10 Inhibition in Overcoming Chemoimmunotherapy Resistance in NSCLC Patients	Bertucci, Grant
3	Structural characterization of lcmSW binding sites on effector proteins of the Dot/Icm secretion system in Legionella pneumophila	Brodeur, Cole
4	Cerebral Perfusion Alterations in Male Mice Following Blast-Induced Mild Traumatic Brain Injury: A Preclinical Model for Veteran-Related mTBI	Brooks, Jake
5	c-REL EXPRESSION MODULATION WITHIN C9ORF72 AMYOTROPHIC LATERAL SCLEROSIS	Clucas, Damian
6	Modulation Of Corneal Inflammation in Human Cornea In Vitro By Pirfenidone	Davis, Alaina
7	Decoding chemotherapy-mediated oocyte death for fertility preservation	Dyer, Grace
8	Right atrial calcium homeostasis in a mouse model of obstructive sleep apnea	Fleury, Ava
9	Transcriptomics of Valve Endothelial Cells Treated with Empagliflozin: Potential Mechanisms Against Aortic Stenosis	Ganninger, Alexander
10	Functional Recovery Following Peripheral Nerve Reconstruction with MOPS-N Preserved Allografts	Hark, Gillian
11	Delayed/Chronic Mustard Gas Keratopathy Hallmarks at 8 Months in Rabbit Corneas in Vivo Post After Sulfur Mustard Exposure	Hurtado, Abigail
12	WITHDRAWN Caloric Restriction Reduces Lesion Burden and Inflammation in Endometriosis without Impairing Fertility	Juitt, Lydia
13	Optimization of an immunocompetent orthotopic model of endometrial cancer with metastasis	Kofoed, Haley
14	Comparative Evaluation of Novel Forms of the Immune Checkpoint Stimulators SA-OX40L and SA-4-1BBL in Cancer Immunotherapy	Lang, Ryan
15	Biomechanical Comparison Between Intact Labrum, Labral Tear, Labral Resection, Labral Repair, and Labral Reconstruction using Fresh-Frozen Anterior Tibialis Allograft or Fresh Meniscus Allograft	Lehenbauer, Corder
16	Mitochondrial Dysfunction in the Trabecular Meshwork Drives Glaucomatous Neurodegeneration	Lyons, Aliyah
17	Exploring a Novel Form of OX40L as an Immune Checkpoint Stimulator in Cancer Immunotherapy	Murray, Xavier
18	Mapping the Co-Transcriptional Folding Pathway of HIV-1	Orf, Brody
19	Quantitative DTI Analysis Reveals Microstructural Damage Following Blast-Induced Mild TBI in Male Mice	Osburn, Breyton

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20	Reduced cortico-muscular excitability in TDP-43 ALS Mice is associated with reduced persistent inward currents (PICs) in the motor cortex.	Paradkar, Priyanka
21	Cardiomyocyte Morphology in a Bleomycin-Induced Mouse Model of Type III Pulmonary Hypertension	Patel, Ami
22	Development and Characterization of Rhodamine- Based NanoGUMBO Systems for Targeted Drug Delivery in Cancer Therapy	Patel, Devanshi
23	The 50 most-cited Clinical Articles in Cartilage Research: an updated bibliometric analysis	Raza, Adnaan
24	Increased Transepithelial Muc2 in Peyer's Patches of the Cfr KO Intestine	Renfro, Zane
25	MYOFIBROBLAST DEDIFFERENTIATION: AN EMERGING CONCEPT FOR TREATING FIBROSIS IN HUMAN CORNEA IN VITRO	Ruterschmidt, Eva
26	Hepatocyte-Specific Deletion of LARP6 Attenuates the Progression of Metabolic Dysfunction-Associated Steatohepatitis	Sigman, Ellie
27	TOXICOLOGICAL EFFECTS OF CHLORINE EXPOSURE TO HUMAN CORNEAL STROMAL FIBROBLASTS IN VITRO AND HUMAN CORNEA EX VIVO	Spieckerman, Sydney
28	Impaired beta-adrenergic cardiac reserve in a heterozygous Kir6.1 V65M mouse model of Cantu syndrome	Steinbach, Derek
29	The Expression of SerpinE2 is Important to Overcome Progesterone Resistance in Endometrial Hyperplasia	Steuber, Kathryn
30	SULFUR MUSTARD EXPOSURE INDUCED ALTERATIONS IN RABBIT LIMBAL STEM CELLS IN VIVO	Suleiman, Laila
31	Investigation of Effects of Western Diet and Endothelial Cell Mineralocorticoid Receptor on Cerebral Blood Flow in Male Mice	Tahirkheli, Mubariz
32	Novel Ex Vivo Corneal Model to Study the Effects of Mustard Gas	Varghese, Thomas
33	House sparrow ACE2 supports entry of BANAL-20-52, a SARS-CoV-2-related bat coronavirus	Wiese, Riley
34	Cell-Penetrating Peptide TAT-HA2 Enhances siRNA Encapsulation in Extracellular Vesicles	Yousuf, Fatimah
35	Characterization of Myocarditis Induced by PD-1 and CTLA-4 Inhibition with Concurrent Radiation	Zhu, Eric

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36	AI Clinical Synopsis: Leveraging Large Language Models for Context-Aware Summarization of ED Notes for Radiology	Ahmed, Safa
37	A Retrospective Comparison of initial presentation, surgical outcomes, and follow-up adherence between West Bank, Palestine and Missouri, USA	Al Rawi, Yaser
38	Identifying Gaps in American Heart Association-Endorsed Statements and Guidelines: A Topic Modeling and Gap Analysis Study	Alayoubi, Haya
39	Kcentra versus Balfaxar for Factor Xa Inhibitor Reversal in Intracerebral Hemorrhage	Amankrah, Seth
40	Veterans Radiogenic Diseases of Bone Marrow: Operation Castle Bravo	Anand, Shreya
41	Mediodorsal Thalamic Nucleus: A Potential Therapeutic Target in Drug-Resistant Epilepsy	Apostol, Andrew
42	Craniofacial Fractures: Time to Surgical Fixation and Associated Outcomes and Complications	Atkins, Sydney
43	Guiding Zone-Specific Management of Flexor Tendon Injuries	Atkinson, Angela
44	Preliminary Evaluation of the Trial of Propranolol in Older Adults with Primary Progressive Aphasia	Barnes, Hannah
45	Autograft Versus Allograft Medial Patellofemoral Ligament Reconstruction in Adolescent Patients: Comparable Patient-Reported Outcomes but Lower Failure Rates with Autograft	Barron, Brady
46	The Financial Burden of Screening Echocardiograms in Infants with Bronchopulmonary Dysplasia in the Neonatal Intensive Care Unit	Berry, Kayla
47	"Am I Cheating?": Patient Perspectives on GLP-1 Use for Weight Loss	Bertarelli, Isabella
48	The Impact of Demographic and Clinical Factors on Meniscus Repair Outcomes	Bochenski, Ella
49	Weight Loss and Nutritional Status following Distal Roux-en-Y Gastric Bypass for Persistent Obesity and Comorbidities	Boone, Kendall
50	Biochemical Control in Localized Prostate Cancer: A Retrospective Comparison of Five Radiation Modalities	Brennan, Vincent
51	Impact of adiposity on vascular β -adrenergic receptor sensitivity and endothelial function in premenopausal females	Bunke, Madeline
52	Recurrent Abdominal Pain: An Atypical Food Allergy in a Pediatric Patient	Burton, Blair
53	A Rare Case Report of Plasmablastic Lymphoma in an Immunocompetent Male with Alpha-Gal Syndrome	Cates, Faith
54	Comparisons of Outcomes Between Patella Mesh Plate and 2.7mm Variable Angle Locking Patella Plating System: A Retrospective Cohort Study	Chausse, Daniel

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55	The Missouri ConnectED Program: Addressing Social Determinants of Health in Urgent and Emergent Care Settings	Cheema, Nawal
56	A Proton MR Spectroscopic Study of Somatosensory Cortex in Chronic Stroke	Cheema, Rafay
57	Long term outcomes of combined phacoemulsification and excisional goniotomy with the Kahook Dual Blade	Cho, Daniel
58	Predicting Mortality After Transcatheter vs. Surgical Aortic Valve Replacement: Insights from a Real-World Retrospective Cohort Study	Culley, Nicholas
59	Comparison of Surfactant Therapy in Early and Late Pre-Term Infants	Davis, Bianca
60	Complications Following Open Reduction and Internal Fixation of Mandibular Fractures: Impact of Surgical Approach and Smoking Status	de la Paz, Maxwell
61	Predictive Accuracy of Ultrasound-Detected Fetal Growth Restriction for Small-for-Gestational-Age Outcomes	Demirchian, Maya
62	The Impact of Social Determinants of Health on Hirschsprung Disease Outcomes	Dew, Canon
63	A Preliminary Report of Tigers Connect Response Trends: Which Community Resource Needs Do We Capture Best	Dorsey, Grace
64	Young-Onset Bladder Cancer: National Trends with Institutional Insights on Presentation and Diagnosis	Doss, Mark
65	Reducing Unnecessary Glucose Estimations in the NICU	Drummond, Erin
66	Impact of Adverse Social Determinants of Health on Caregivers' Reported Difficulty Accessing Pediatric Primary Care	Dudley, Payton
67	Dose-Dependent Effects of Bupivacaine in Shoulder Blocks on Postoperative Pain	Dundoo, Asha
68	Predictive modeling of the risk of Myopic Degeneration and Retinal Detachments incidence using ACD:AL	Ebada, Rawan
69	Predicting Patient Hospital Ratings: A Comparative Study of Machine Learning Models	Erganian, Chase
70	Hypersensitivity Reaction to Tamsulosin in a Patient with Alpha-Gal Syndrome	Esam, Sahla
71	Pneumonic Tularemia: Presentation in Two Adolescents from Distinct Routes of Exposure	Espeland, Andrew
72	Cortical tonic GABAergic Inhibition and Hand Recovery in Subacute Stroke	Espinosa, Ariana
73	Peripartum Stress Cardiomyopathy Complicated by Placental Abruption: A Case Report	Farah, Ayan

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74	Evaluating the Lived Experiences of Older Adults with Fall-Monitoring Technology	Fauss, K. Melinda
75	Long-Term Functional Outcomes Following Flexor Tendon and Digital Neurovascular Injury Repair	Favela, Eduardo
76	Informing Best Practices in Family Navigation for Autism Services: Principles from a Scoping Review	Felder, Kyazia
77	Treatment of Septic Thrombophlebitis of the Internal Jugular Vein (Lemierre's Syndrome) in a Member of a Rural Religious Community	Fontana, Eleanor
78	Pre-Operative Patient Resilience Scores are not Strong Predictors for Post-Hip Arthroscopy Complications	Fuller, William
79	Financial and Gender Dynamics in Industry Sponsorship within Otolaryngology	Gaddipati, Shreya
80	Inflammatory and Nutritional Predictors of High-Risk Psoriasis Phenotypes Identified by Machine Learning in the U.S. NHANES Cohort	Gao, Vincent
81	Evaluation of Hematuria in The Emergency Department	Gianino, Marissa
82	Evidence-Based Restrictive Hematocrit Thresholds for PRBC Transfusion in the NICU	Granberry, Madison
83	Streptococcus Equi Subsp. Zooepidemicus Meningitis and Prosthetic Joint Infection: A Case Report	Grant, Chloe
84	Feasibility of Using AI-Assisted Note Review to Identify Postoperative Complications: A Pilot Study with Microsoft Copilot	Greenquist, Maya
85	Participatory Group Discussions of the Viviendo Bien Study: Methods and Lessons Learned	Guida, Daniela
86	Investigating the Impact of Intraoperative Dexamethasone on Post-Operative Pain Scores	Hall, Lauryn
87	Comparing Pre-Existing Mental Health Conditions and Mental Health Outcome Scores with Injury Specific Patient Reported Outcomes in Orthopaedic Trauma Surgery	Hannibal, John
88	Exploring Perceptions of Patient Safety and Interdisciplinary Respect among Healthcare Workers	Hart, Mary
89	Differentiating Early and Late-Onset Fetal Growth Restriction: Implications for Pathophysiology, Outcomes, and Management	Hensley, Carletta
90	Effects of a Pass/Fail Step 1 on Otolaryngology Trainee Research Productivity During Medical School	Hernandez, Diana
91	Nationwide Trends in Management and Outcomes of Acute Type B Aortic Dissection	Huang, Yijin
92	A False Positive HIV Result in the Setting of Long-Acting Injectable Pre-Exposure Prophylaxis	Hunt, Adrienne

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93	Navigating the Autism Landscape in Kenya: Systemic, Cultural, and Community Responses from Eldoret	Jepkemoi, Vivien
94	Intersection of Food Nutrition Security Status and Cannabis Usage	Jones, Evelyn
95	Outcomes of Transtibial Pull-out Fixation versus Suture Anchor Fixation for Repair of Meniscus Posterior Root Tears	Jones, Molly
96	Postoperative Quadriceps Metrics and Pain Level Inform Functional Outcomes Months Later in Geriatric Hip Fracture	Kaleel, Miranda
97	A Retrospective Comparison of XEN Gel Stent Ab Interno Versus Ab Externo Approach: Surgical Outcomes At 24 Months	Karthikeyan, Swathy
98	Postnatal Dexamethasone Administration for Prevention of Bronchopulmonary Dysplasia in Premature Infants with Respiratory Distress Syndrome	Kauffman, Gabriela
99	Association of Soft vs Mucosal Tissue Positive Margin Status with Survival Outcomes Following Total Laryngectomy	Kazempour, Keyon
100	Negative Predictive Value of Tumor Markers in Diagnosing Ovarian Cancer	Kempa, Paulina
101	Incarcerated Rectal Prolapse due to Rectal Polyposis: A Case Report	King, Alexandra
102	Dual Complications Following Labor Epidural: Post-Dural Puncture Headache and Pneumocephalus	Kingman, Cara
103	Pre-Operative Diagnosis of Obstruction Predicts Higher Risk of Post-Operative Surgical Site Infections Following Bowel Resections with Anastomoses	Ko, Sooah
104	Evaluating Dysphonia Referrals to Otolaryngology Providers: Is There a Need for Improved Referral Guideline Implementation?	Kondapaneni, Rishi
105	Use of Intravenous Antihypertensive Agents in the Prehospital Environment: A Descriptive Study	Koo, Joseph
106	Difference in PCL-5 Scores Between Participants with PTSD and Those with Other Psychiatric Disorders	Krutzsch, Cody
107	Evaluation of Insurance Status and Postoperative Outcomes in Flexor Tendon Injuries	LaFlamme, Ashlynn
108	Idiopathic Multicentric Castleman Disease with severe abdominal manifestations: A case report	Landwehr, Farrell
109	Caregiver Perceptions of Child Health and Social Determinants of Health in a Pediatric Emergency Department	Lawson, Nicole
110	Prevalence of Functional Abnormalities on Flexible Nasolaryngoscopy in the Aspiring Pediatric Patient	Mays, Logan

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111	Clinical Predictors of Post-Operative Pain Following Cryoablation in Anatomical Lung Resection	McCaffrey, Jonas
112	Pediatric Hepatitis C Treatment: Experience at a Single-Center Specialty Clinic	McClain, Morgan
113	Effect of Placing Pre-Term Infants on High Flow Nasal Cannula before 36 weeks on Time to full Oral Feeding	McCullum, Kirsten
114	Examining Views on Head-Up CPR in Cardiac Arrest Care	Modh, Juhi
115	Phytophotodermatitis in a Pediatric Patient	Mohammed, Elma Sulthana
116	ANTIBIOTICS AND MECHANICAL VENTILATION IN TBI: PROPHY-VAP OR RISKY-VAP?	Montgomery, Katelynn
117	BIG: Implementing Evidence Based Practice for Intracranial Bleeds for Brain Injury Guidelines	Mudd, Jaycee
118	Patients Do Not Meet Their Pre-Operative Expectations But Are Satisfied With Their Outcomes	Mueller, Madeline
119	Pregnancy-Associated Exacerbation of Cervical Spinal Schwannoma	Nandeesh, Vaibav
120	Prep for Success: Improving Colonoscopy Completion Through Quality Improvement	Niizawa, Joseph
121	Concurrent Small and Large Bowel Anastomoses After Resections More Likely to Incur Surgical Site Infections	Odemuyiwa, Oluwatobi
122	Tiny Patients, Timely Actions: Improving Neonatal Sepsis Management in the NICU	O'Neill, Ellen
123	Suspected Serotonin Syndrome in the Perioperative Setting: A Case Report Highlighting Diagnostic Challenges and Anesthetic Implications	Onuigbo, Odinaka
124	Social Determinant Needs in Boone County and Surrounding Missouri Communities: Balancing Absolute and Proportional Burdens	Phan, Thanh
125	Eosinophilic Fasciitis Without Eosinophilia: An Atypical Case Presentation	Pothuri, Divya
126	Effect of Adjunctive Intra-Arterial Tenecteplase on Infarct Volume in Acute Ischemic Stroke Patients Undergoing Thrombectomy	Prasad, Sarada
127	Investigating the Dermatological Effects of GLP-1 RAs: A Link to Hair Loss?	Priggel, Selena
128	Pre-operative Diagnosis of Bowel Perforation More Likely to Incur Fascial Closure Complications	Raatz, Natalie
129	Psychiatric Sequelae Following Hidradenitis Suppurativa Diagnosis: A Temporal and Demographic Analysis	Rael, Benjamin

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130	The Utilization of the RobotiX Mentor Surgical Simulator for Medical Students and Medical Education	Reynolds, Kaitlyn
131	Understanding Lifestyle Changes and Restrictions for Caregivers of Patients with Alzheimer's Disease and Related Dementia	Roessler, Abby
132	Diagnostic Accuracy of Skin Cancer in Primary Care Settings: Insights from Dermatology ECHO Cases	Romine, Anna
133	Readability and Linguistic Analysis of Alcohol and Breast Cancer Risk Information from Generative AI Chatbots	Rood, Jossie
134	Beta Diversity of Gut Microbiome is Associated with Cubital Tunnel Syndrome Severity	Rousseau, Sarah
135	Alpha-Gal Syndrome in Mid-Missouri: Clinical Manifestations and Diagnostic Patterns Across Age Groups	Salathe, Victoria
136	Clinic and Histopathologic Findings in a Case of Nevroid Melanoma	Salisbury, Shelby
137	"The Role of Sibling Presence in Shaping Physical Activity and Sedentary Patterns in Youth"	Sandfort, Brynne
138	WITHDRAWN Quantifying Placental Villous Features: Interobserver Variability and Future Directions in Gestational Diabetes	Schulte, Amanda
139	"Unaffected" Hand Motor Control Is Altered in Subacute Stroke	Sehgal, Sami
140	Preexisting Autoimmune and Allergic Conditions in Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis: A Retrospective Analysis	Seiff, Thomas
141	Comparison of Respiratory Morbidity in Infants Born to Mothers with and without Diabetes Mellitus.	Sewall, Nicole
142	WITHDRAWN XEN Gel Stent Outcomes in Open Angle Glaucoma Patients: Comparison of Open Versus Closed Conjunctiva at 48 months	Shanklin, Justin
143	Strategies to Minimize Postoperative Complications in Microsurgical Free Tissue Transfer: The Role of Anticoagulation, Antiplatelets, and Ambulation	Shock, Erika
144	Effects of Social Evaluation Stress on Autonomic Functioning in Older Adults and Younger Adults with Varying Post-Traumatic Stress Disorder Symptom Severity	Simons, Sarah
145	Intraoperative Intercostal Nerve Targeted Cryoanalgesia to Prevent Chronic Pain Following Robotic-Assisted Thoracic Surgery	Sniatkewicz, David
146	Adverse Neurological Patient Events Related to Spinal Navigation Systems: A Review of U.S. Medical Device Reports	Spellman, Brennan
147	Impact of a Student-Run Critical Care Interest Group on Medical Student Familiarity and Engagement	Spence, Amy
148	Diagnostic and Therapeutic Outcomes of a Combined Rheumatology Dermatology Clinic in the Midwest	Spratt, Sadie

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149	QL vs TAP Blocks: The Role of Pain and Ketamine in Postoperative Opioid Use	Stevenson, Connor
150	Intelligent Radiology Worklist Prioritization Using Locally Hosted Open-Source Large Language Models (LLM) - A Pilot Study	Sun, Andrew
151	Bowel displacement via a Blunt Needle Technique During Microwave Ablation of a Peripheral Hepatic Tumor	Swinfard, Samantha
152	Disruptive Mood Dysregulation Disorder and Autism Spectrum Disorder as Combined Risk Factors for Aggression in Pediatric Inpatient Psychiatry	Tahan, Asli
153	Social Determinants of Health and Outcomes after Operative Management of Distal Radius Fracture	Uffelmann, Casey
154	Challenging Perceptions: A Case Report of Low-Grade Soft Tissue Sarcoma Skin Metastasis and the Importance of a Multidisciplinary Approach	Valle, Kostandin
155	Impact of β 3-adrenergic receptor agonism on hypoxic vasodilation in healthy young females	Vedala, Vina
156	Emergency Bowel Resections with Anastomoses More Likely to Incur Post-Operative Surgical Site Infections than Elective Resections	Velagapudi, Kousalya
157	Whole-Body Electrical Muscle Stimulation as an Effective Exercise Modality to Improve Physical Function in Adults with Myasthenia Gravis	Vorkink, Dallin
158	A Review of the Biomechanical and Clinical Outcomes of Tibial-sided Fixation for Anterior Cruciate Ligament Reconstruction	Wakefield, Rhett
159	Can Clarity Improve Patient Utilization of a Community Aid Resource: A Preliminary Analysis of a Quality Improvement Project	Walker, Nicole
160	Increased Complexity of Impairment-Oriented Motor Training May Improve Stroke Recovery	Webb, Chloe
161	A Retrospective Analysis of Merkel Cell Carcinoma Subtypes in MU Health Patients	Wheatley, Addison
162	Identifying biomarker(s) indicative of future amyotrophic lateral sclerosis development in midlife adults with a history of repeated mild traumatic brain injury	Yadlapalli, Tanvi
163	Pre-Operative Diagnosis of Hernia More Likely to Incur a Post-Operative Surgical Site Infection after Bowel Resection and Anastomosis	Yager, Cole
164	Autoimmune Bullous Pemphigoid in a Vietnam Veteran with Suspected Agent Orange Exposure	Yucebas, Kerem
165	Evaluating Clinical Outcomes of Ahmed ClearPath 250 mm ² vs. Baerveldt 250 mm ² Glaucoma Implants Up To 24 Months Post-Operation	Zawalski, Kate
166	Impact of Recreational Cannabis Legalization on Maternal Breastfeeding Practices in Missouri	Zhang, Wendy

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Translational Science

Poster ID	Title of Abstract	First Author
167	Implementing ACCELERATE: Understanding Barriers, Facilitators, and Areas for Improvement in a Simplified HIV Care Re-engagement Model	Allen, Kristine
168	Low-Level Blast Exposure and CNS Disease in Gulf War Veterans	Ball, Jaxsen
169	Comparing post-operative outcomes of corrective osteotomies between three pre-preoperative planning protocols	Bryson, Alaina
170	Access to Visual Health Care Among Refugees and Displaced Individuals: A Systematic Review of Literature	Choi, Hunjung
171	Does Suture Type Affect Biomechanical Properties in Interference-fit Anchors in the Greater Tuberosity? A Cadaveric Biomechanical Study.	Dimitroff, James
172	Sclerosing Encapsulating Peritonitis in a Patient with a Ventriculoperitoneal Shunt: A Case Report	Drexler, Ransome
173	Surfactant protein A promotes the transformation of inflammatory vascular smooth muscle phenotype during abdominal aortic aneurysm development	Fraunfelder, Mikayla
174	Equity in Visual impairment: Diversifying the workforce	Hamed, Amal
175	Evaluation of Ultrasound as a Diagnostic Tool for Pediatric Acute Appendicitis in Patients with Higher Body Mass Index	Hammond, Jamie
176	Effect of a Multidisciplinary Gastrostomy Tube Program on Outcomes, Caregiver Education, and Social Determinants of Health	Herrs, Clara
177	Predicting The Risk of Inpatient Cardiac Arrest Following an Acute Myocardial Infarction Using Real-World Data with Machine Learning Models	Hough, Jacob
178	Analysis of ECHO Autism Implementation Science Outcomes	Hulslander, Nancy
179	Disparities Beneath the Surface: Atopic Dermatitis and Quality of Life in Patients with Skin of Color	Jackson, Travis
180	The Burden of Blunt Splenic Injury in a Mixed Urban-Rural Pediatric Cohort	Knoble, Luke
181	Peripheral Nerve Allografts Preserved in Nerve-Optimized Missouri Osteochondral Preservation System have Similar Outcomes to Nerve Autograft in Rats	Kolb, Nash
182	Identifying Gaps in Latent Tuberculosis Treatment Care: An Analysis of Completion Rates and Delays in Columbia, Missouri	Kothari, Aishva
183	Endothelial Cell Mineralocorticoid Receptor Mediates Western Diet-Induced Cerebral Blood Flow Reductions in Female Mice	Laude, Carl
184	A Rare Case of Vaginal Spiradenocarcinoma with Recurrence	LaValle, Taylor
185	Repeated Mild Traumatic Brain Injury Induced Cardiac Remodeling in Female Mice	Mackanos, Chelsie

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186	Assessing the Clinical Defensibility of Oral JAK Inhibitors for Short-Term Use in Moderate-to-Severe Atopic Dermatitis	Pirrone, Sean
187	Outcomes of Free Hand versus MD3T Technique for Tibial Tubercle Osteotomy	Shaffer, Lauren
188	Precedex Use in Neurodivergent Children for Dental Rehabilitation	Strombom, Hanna
189	Chronic 5-HT _{2C} Agonism Administration Increases Motor Function in Aged Mice	Suleiman, Leena
190	Conventional outflow pathway-targeted glaucoma surgery	Trempey, Kieley
191	Imaging the "Invisible Injury": DTI-MRI Reveals Gray and White Matter Damage in Blast-induced Female mTBI Mice	Tu, Sophia
192	Provider Attitudes Toward Pain Management Practices for IUD Insertion Following the 2025 ACOG Guideline Update	Walker, Jasmine
193	Enriched environment improves stroke recovery- a topical review	Young, Sydney
194	From Blast to Brain: Decreased Cerebral Blood Flow in Female Mice Following Blast-Induced Mild TBI	Zimmerman, Hannah

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Basic Science

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195	Developing Standardized Patient to Assess Perceived Risk in Response to a Digital Health Intervention: Integrating Clinical Complexity and Social Determinants of Health.	Adjei, Wendy
196	DUSP11 Modulates Tumor Microenvironment as an Innate Immune Checkpoint	Bai, Xue
197	TRPV4-dependent Left Ventricular Diastolic Dysfunction in Isolated Hearts of Aged Mice	Behrmann, Andrew
198	Sex-Specific Effects of Type 1 Diabetes on Arterial Vasodilation in Western Diet-Fed Mice	Beltran, Jesus
199	Domain-Specific Remodeling of Lipid Rafts and Lysosomes in PMP22-Linked Neuropathies	Chischolm, Abigail
200	Targeting Plasminogen Activator Inhibitor-1 In Sclerodermatous Chronic Graft-Versus-Host Disease	Gabure, Sahra Gabure
201	The Bovine H5 PB2 Gene Originates from Low Pathogenicity Avian Influenza and Supports Mammalian Polymerase Activity	Giri, Emily
202	Investigating the Role of Sex Hormones in Renal Cell Carcinoma	Hasani, Melika
203	Mitochondrial DNA Loss Induces Corneal Fibrosis In Vitro	Hofmann, Alexandria
204	First autograft mouse model of spontaneously recovering alopecia leading to Alopecia Areata	Kabir, Ira
205	Hepatic Ketogenic Insufficiency Exacerbates Cognitive Impairment and Mitochondrial Dysfunction in the 5xFamilial Alzheimer's Disease Mouse Model	Kelty, Taylor
206	Disruption of MICOS Drives Mitochondrial Dysfunction and Retinal Ganglion Cell Degeneration in Glaucoma	Kesavan, Karthikeyan
207	Downregulation of Kupffer cell TIM4 promotes the development of MASH	Krause, Alexa
208	Altered Lipid Metabolism Modulates Fibrosis and Contractility of Trabecular Meshwork (TM), Leading to TM Dysfunction in Glaucoma.	Kumar, Lal Krishan
209	Zika virus triggers Golgiphagy and remodels the Golgi apparatus to facilitate viral replication in human trabecular meshwork cells.	Kumar, Prince
210	Impact of Cadmium and Lead on RCC Progression	Mallon, Peter
211	Co-mutations of CTNNB1 and PTEN Synergistically Promote EMT and Drive Aggressive Tumor Progression in Endometrial Cancer	Nahar, Shamsun
212	The PTEN/PI3K/AKT signaling pathway exacerbates endometriosis and its associated pain.	Omenge, Harriet

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213	EPIGENOMIC PROFILING BY ATAC-SEQ UNCOVERS NOVEL MOTIFS LINKED TO CORNEAL FIBROSIS	Sood, Swati
214	Reverse Transcriptases from DNA Viruses	Voth, Lynden
215	Early Postnatal Estrogen Exposure Induces Hypospadias in Female Mice: Morphological and Molecular Insights	Zahan, Mst Nusrat

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Clinical Science

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216	Association Between Weight Loss Interventions and Patulous Eustachian Tube	Akella, Deepthi
217	Rural - Urban Otolaryngology Workforce Analysis: The State of Missouri	Akin, Ryan
218	Motor Cortex Selective Neurodegeneration in Amyotrophic Lateral Sclerosis	Al-kharabsheh, Yazan
219	A Rare Case of Double-Hit High-Grade B-Cell Lymphoma with TdT Expression	Benge, Catherine
220	Success and Sustainability of Peer Support Programs for Healthcare Workers: Review	Bertrand, Pamela
221	Improving Pneumococcal Immunization Rates in Patients with COPD	Brown, Aaron
222	Cost Analysis for Blood Glucose Monitoring in Pre-Term Infants	Bruemmer, Sierra
223	Middle Ear Rhabdomyosarcoma Masquerading as Petrous Apicitis: A Case Report	Du, Eric
224	Improving Pneumococcal Vaccination at Callaway Physicians Family Medicine Clinic	Gustafson, Victoria
225	The Effect of Offering Colon Cancer Screening options on the Number of Patients over 45 That Complete Screening	Hemmersmeier, Kristen
226	Improving Annual Albumin-Creatinine Ratio Screening in CKD Patients at a Family Medicine Residency Clinic	Kenney, William
227	Tracking Day-to-Day ALS Progression Between Clinic Visits Using In-Home Sensor Monitoring	Marchal, Noah
228	Give It a Shot! Improving Pneumococcal Rates in Primary Care	Marshall, Brittney
229	Dual-Species Ehrlichiosis triggering Hemophagocytic Lymphohistiocytosis in an Adolescent with Inflammatory Bowel Disease on Immunomodulation.	Mayhan, Catherine
230	Gaps in Laceration Care and Antibiotic Use in Orthopedic Consults: A Quality Improvement Study	Monhollen, Andrew
231	The Role of Treatment Recall in Predicting Outcomes among Veterans with AUD and Insomnia	Moskal, Katie
232	Late Extrusion of Silastic Implant after Type I Laryngoplasty: A Case Report	Orr, Annie
233	Fostering Interdisciplinary Cancer Research Education: Collaboration Networks and Productivity Analysis from an Inaugural Research Day	Osaze, Jessica
234	Practices and Perceptions of Alcohol Screening Among Orthopaedic Clinicians Treating Older Adults	Rizvanovic, Bryce

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237	Acute Effects of Inspiratory Muscle Training on Cerebral Blood Flow and Cognitive Function in Healthy Adults	Williams, Cale
238	Lennert Lymphoma with Rare Double-Positive CD4 /CD8 Immunophenotype: A Case Report	Zhang, Cuiping
239	Diagnostic Enhancement in Indeterminate Thyroid Nodules Through Multimodal Integration	Zhang, Xiaoming

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241	Automated Diagnostic Analysis of Low-Concordance Dermatology Cases Using a Multimodal AI Model	Appiagyei, Jeffrey
242	Assessment of OAd encoding CD137 (4-1BB) agonist in murine TNBC models	Burris, Dana
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244	Harnessing Attenuated Bacterial Therapeutics (SPIKE) for the Treatment of Epithelial Ovarian Cancer	Femi-Olatunji, Oluwatola
245	The mental health impact of digital media and technology on children 3-10 years	Fowler, Omolayo
246	Biophysical characterization of a recombinant fusion protein to assess aggregation propensity and its impact on vaccine efficacy	Haldar, Risha
247	Comparative immunological profiling of BECC438 and BECC470 adjuvants in a vaccine targeting Pseudomonas aeruginosa	Halder, Prolay
248	An Artificial intelligence-based automated tool for grading corneal fibrosis	Kumar, Rajnish
249	The interplay of non-inertial primary traumatic brain injury and tau: alterations in phosphoproteome networks and cognitive function following low-intensity blast exposure	Mony, Tamanna
250	Precision Immunotherapy-Targeting Dual Immune Checkpoint Proteins in Immuno 'Cold' Ovarian Cancer Tumors.	Paramanantham, Anjugam
251	Probiotic bacteria L. lactis-iRFP exhibit predilection to target orthotopic colorectal tumors evaluated by advanced molecular imaging	Ramos, Martin
252	Developing probiotic L. lactis as contrast agent and molecular probe for the in vivo study of the gastrointestinal tract using multispectral optoacoustic tomography	Rubio-Infante, Nestor
253	Clozapine use in the management of Benzodiazepine and ECT resistant catatonia	Venkata, Vadduri
254	From Barriers to Bridges: Increasing APRN Attendance in the Show-Me ECHO Program	Weston, Karry
255	Temporal and Profession-Specific Trends in HIV Case Queries Within Missouri's Telehealth ECHO Program	Zareei Shams Abadi, Amir Erfan

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257	Cardiomyocyte-specific LARP6 overexpression blunts systolic dysfunction following permanent ligation of the left anterior descending coronary artery	Russell, Jacob
258	Molecular Alterations in the Eutopic Endometrium of Women with Endometriosis: Dysregulation of STMN1 and YWHAZ	Santos da Silva, Alice
259	Dissecting the Immunopathology of Endometriosis through Transcriptomic and Pathway Analysis	Shila, Rupaida Akter
260	Overcoming the Challenges of Integrating Diverse EM Tools into a Unified Research Framework	Yeh, Han-I
261	Progesterone receptor cooperates with HDAC3 to establish endometrial receptivity	Yun, Sohyeon
262	Inhibition of the Epithelial Sodium Channel with Amiloride Reduces Arterial Stiffness and Blood Pressure Independent of Sex in Adults with Obesity and Insulin Resistance	Burken, Mya
263	Feasibility And Safety Of 4D Intracardiac Echocardiography Guided Left Atrial Appendage Closure	Kassier, Adnan
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265	Effect of Nanoceria on endometriosis-related infertility	Raihan, Abu