

Kansas City University 2024 Research Symposium Agenda

April 2-5, 2024

Virtually attending the symposium talks is available at this link

<https://kcuconferencing.zoom.us/j/86423567410>

[Day 1](#)

[Day 2](#)

[Day 3](#)

[Day 4](#)

Day 1, April 2nd, 2024

1:00 pm **Opening remarks**

1:05 - 1:50 pm **KCU Featured Speaker: Nataliya Kibiryeva, MD**, Assistant Professor of Biomedical Sciences and Biosciences, College of Biosciences, Kansas City University.

“Understanding role of long non-coding RNAs during cardiogenesis”

Kansas City Campus - Academic Center 200 (AC 200)

2:00 - 5:00 pm **KCU Summer Student Research Fellows and 3rd/4th College of Osteopathic Medicine students at distant clerkship location presentations**

Kansas City Campus - Academic Center 200 (AC 200) and Joplin Campus - J-Lecture Hall.

[Virtual through Zoom](#). Viewing available at both locations (AC-200 and J-Lecture Hall)

2:00 - 2:50 pm **3rd and 4th College of Osteopathic Medicine students at distant location**
Live Virtual Presentations

Melody Beltran	Unprecedented coexistence of group A strep infection and appendicitis: a growing pediatric concern	2:00 pm
Feza Abbas	Colonic Perforation: surgical management and a challenging postoperative recovery	2:07 pm
Jason Onwenu	The implications of cardiac rehabilitation in HFpEF individuals with comorbidities.	2:14 pm
Alexandra Lawlor	Geriatric-Onset of Systemic Lupus Erythematosus may be at Higher Prevalence than Previously Considered: A Case Series	2:21pm
Marianna Shaikhly	Posterior reversible encephalopathy syndrome related to blood transfusion in a male chronic anemic: a case report	2:29 pm
Lauren Evelti	Case Report of a Pediatric Patient with Hereditary Hemorrhagic Telangiectasia	2:36 pm
Liana Jamil	Variables in increased stroke burden in the South Asian population	2:43 pm
Durganili Balasubramaniyan	Neonatal risk of low birth weight associated with in utero exposure to antiretroviral therapy in rural Kenya	2:50 pm

3:00 - 5:00 pm

KCU Summer Student Research Fellows

Live podium presentation

Devvrat Bhakta	Post-translational modification profile of TDP-43 in alzheimer's disease mouse brain tissue: An in vitro study looking to develop a biomarker	AC 200 - Kansas City Campus	3:00 pm
Jay Jackson	Medical student appraisal of novel brainstem model and utility of 3D printing in curricula, Kansas City University	J Lecture Hall - Joplin Campus	3:10 pm
Pratyusha Tadepalli	Effects of Pregnane X Receptor Expression and Activation on Human Breast Cancer	J Lecture Hall - Joplin Campus	3:20 pm
Sabrina Turek	Reduced expression of endothelial markers in doxorubicin treated endothelial cells	AC 200 - Kansas City Campus	3:30 pm
Ivan Bahamon	Health outcomes and length of stay of emergency department patients with limited English proficiency: a systematic literature review	J Lecture Hall - Joplin Campus	3:40 pm
Brittnei Earl	Assessment of changes of mRNA isoform proportion after scaRNA1 knockdown	AC 200 - Kansas City Campus	3:50 pm
Adam Frank	Expression of Mesenchymal Markers in Endothelial Cells during Doxorubicin Treatment and its Washout	AC 200 - Kansas City Campus	4:00 pm
Christian Bell	Analysis of competitive endogenous RNA (ceRNA) networks as epigenetic regulators of cardiogenesis	AC 200 - Kansas City Campus	4:10 pm
Elise Freij	Lipolysis regulates metabolic plasticity and chronological lifespan of aging human fibroblasts	AC 200 - Kansas City Campus	4:20 pm
Abhinav V. Raju	Individual factors contributing most to an association with post-COVID conditions	AC 200 - Kansas City Campus	4:30 pm
Omer Riyadh	Automated anatomical labelling of Bipolar Disorder brain imaging	J Lecture Hall - Joplin Campus	4:40 pm
Bryan Munoz	Quinolinic Acid, PMCA, and The Road Less Traveled: A Divergence of Tryptophan Metabolism and The Complexities of Major Depressive Disorder	AC 200 - Kansas City Campus	4:50 pm

Day 2, April 3rd, 2024

9:00 - 11:00 am **Poster Session A**

Kansas City Campus - Student Activity Center (SAC) Second Floor

Joplin Campus - CDM 154

11:00 – 11:50 am Scientific Address: **Brian Clark, PhD.**

Professor of Physiology. Executive Director, Ohio Musculoskeletal and Neurological Institute. Osteopathic Heritage Foundation Harold E. Clybourne, D.O., Endowed Research Chair. Ohio University.

“Aging Well in the 21st Century: Preventing Frailty and Fractures”

[Virtual through Zoom](#)

12:00 – 12:50 pm Keynote Speaker: **Brad A. Amendt, MS, PhD.**

Professor of Anatomy and Cell Biology and Orthodontics. Director, Craniofacial Anomalies Research Center Carver College of Medicine/College of Dentistry. The University of Iowa.

“New Advances in Gene Therapy to Repair and Regenerate Craniofacial and Dental Tissues”

Joplin Campus - J Lecture Hall

1:00 – 1:50 pm KCU Featured Speaker: **A. Baki Agbas, MSc, PhD.**

Professor of Biosciences, College of Osteopathic Medicine

“Blood-based biomarker development for ALS: An initiative for the synergistic collaboration between industry and academia”

Kansas City Campus - Academic Center 200 (AC 200)

2:00 - 5:00 pm **Judges invited Student and 3rd/4th College of Osteopathic Medicine students at distant clerkship location presentations.**

Kansas City Campus - Academic Center 200 (AC 200) and Joplin Campus - J-Lecture Hall.

[Virtual through Zoom](#). Viewing available at both locations (AC-200 and J-Lecture Hall)

2:00 - 2:50 pm **3rd and 4th College of Osteopathic Medicine students at distant location**
Live Virtual Presentations

Kaheerman Saibire	Challenges in obtaining prenatal care for HIV positive patients in rural Kenya?	2:00 pm
Anjali Patel	Exploring the association between chronic opioid therapy and infectious outcomes in lower extremity amputation patients	2:07 pm
Areesha Shahab	Assessing the Awareness of and Promoting Current Evidence-Based Treatment of Acute Migraine among Emergency Medicine Physicians	2:15 pm
Rahul Shah	Exploring the temporal association of priapism with trazodone treatment	2:22pm
Nicholas Thomas	Long-term prognosis of clinically unrecognized myocardial infarction in patients with coronary artery disease	2:29 pm
Emily Woolhiser	Utilizing the Visia Camera for Analyzing 5-Flurouracil Treatment Efficacy	2:36 pm
Jennifer Anne Nguyen	Evaluating the impact of undergraduate institutions on dermatology matching success for osteopathic applicants	2:43 pm
Dagny Gould	Assessing barriers to implementing HPV vaccination in rural Guatemala to prevent cervical cancer	2:50 pm

3:00 - 5:00 pm **Judges invited Student Presentations**
Live podium presentation

Kass Sjostrom	Endothelial reprogramming and enhanced TGF- β signaling persist after completion of chemotherapy	AC 200 - Kansas City Campus	3:00 pm
Omid Sharifi	Clinical Utility of Broad Range PCR at a Midwestern Tertiary Care Institution	AC 200 - Kansas City Campus	3:10 pm
Priya Thakur	National Student Perspectives of Abortion Education in Osteopathic Medical School Curriculum	AC 200 - Kansas City Campus	3:20 pm
Swathi Sridhar	Circle of Willis variation and associated stenosis in a midwestern (United States) cadaveric population	J Lecture Hall - Joplin Campus	3:30 pm
Cameron Smith	Smartphone thermal angiography screening for carotid stenosis: a cadaveric study	J Lecture Hall - Joplin Campus	3:40 pm
Vikita Patel	Examining the Journey for Underrepresented Students in Medicine Program (JUMP-Start) initiative in supporting underrepresented students in medical school applications and increasing matriculation: A longitudinal study	AC 200 - Kansas City Campus	3:50 pm

Kimberley Beier	A depressing duet: 3-hydroxyanthranilic acid and the neuronal plasma membrane Ca ²⁺ ATPase in the pathogenesis of major depressive disorder	AC 200 - Kansas City Campus	4:00 pm
Madeleine Brown	Targeting of scaRNA1 to investigate epigenetic programming of the spliceosome	AC 200 - Kansas City Campus	4:10 pm
Grace Howell	Lymphocytic esophagitis is increasing in incidence.	AC 200 - Kansas City Campus	4:20 pm
Donald Keating III	Diagnosis and treatment of recurrent episodic dizziness from the patient perspective	AC 200 - Kansas City Campus	4:30 pm

Day 3, April 4th, 2024

9:00 - 11:00 am

Poster Session B

Kansas City Campus - Student Activity Center (SAC) Second Floor

Joplin Campus - CDM 154

12:00 – 12:50 pm

Featured Speaker: **Shyamanga Borooah, MBBS, MRCP, FRCOphth, PhD.**
Assistant Professor of Clinical Ophthalmology, Chief of Clinical Ophthalmic Genetics, University of California San Diego.

“From Bench to Bedside in Macular Degeneration”

Kansas City Campus - Academic Center 200 (AC 200)

1:00 – 1:50 pm

Featured Speaker: **Cornelius A. Thiels, D.O., M.B.A.**
Surgical Oncologist & Assistant Professor of Surgery | Practice Chair | Division of Hepatobiliary & Pancreas Surgery Assistant Professor of Health Services Research | Mayo Clinic College of Medicine PI of Surgical Outcomes and Oncology Lab & Surgical AI2 Lab at Mayo Clinic.

“Building a Career as a Surgeon Scientist”

Kansas City Campus - Academic Center 200 (AC 200)

2:00 - 5:00 pm

Judges invited Student and 3rd/4th College of Osteopathic Medicine students at distant clerkship location presentations.

Kansas City Campus - Academic Center 200 (AC 200) and Joplin Campus - J-Lecture Hall.

[Virtual through Zoom](#). Viewing available at both locations (AC-200 and J-Lecture Hall)

2:00 - 2:50 pm **3rd and 4th College of Osteopathic Medicine students at distant location**
Live Virtual Presentations

Hasan Ahmed	MRI Artifacts: A Headache	2:00 pm
Alan Lam	Reinforced augmentation of revision patellar tendon reconstruction using Achilles and tibialis anterior allografts	2:07 pm
Brian Wi	Utilizing deep breathing exercises to reduce perioperative anxiety: a review of literature	2:15 pm
Sydney Christensen	Painless vision loss secondary to ocular manifestations of syphilis	2:22pm
Cecilia Read	Inpatient Management of Delusional Parasitosis – A Case Report	2:29 pm
Jacob Peters	A severe axonotmetic injury superimposed on a preexisting diabetic polyneuropathy: A Case Report	2:36 pm
Laura Schreck	Malarial relapse in the setting of primary HIV infection in young male Venezuelan migrant	2:43 pm
Jake Schneider	To BPD or Not to BPD: A Comparison of the 2022 versus 2011 NICHD Web-Based Risk Estimator for Bronchopulmonary Dysplasia	2:50 pm
Hasan Ahmed	Radiation exposure on neuroimaging, what clinicians need to know	3:00 pm

3:00 - 5:00 pm **Judges invited Student Presentations**
Live podium presentation

Purva Sethi	Synthesis and characterization of novel nanoparticles and studies on their interactions with stem cells	AC 200 - Kansas City Campus	3:10 pm
Makayla M Swancutt	A characterization of the posterior femoral cutaneous nerve and its clinical application for autologous breast reconstruction	AC 200 - Kansas City Campus	3:20 pm
Matthew Mayorga	Bovine lactoferrin impairs in-vitro growth of neonatal sepsis-causing Escherichia coli clinical isolates.	AC 200 - Kansas City Campus	3:30 pm
Nicholas Zuk	The subscapularis healing index: a new scoring system for predicting subscapularis healing following arthroscopic repair	J Lecture Hall - Joplin Campus	3:40 pm
Hanh Pham	Adoption of Vaping Cessation Methods by U.S. Adolescent E-cigarette Users	AC 200 - Kansas City Campus	3:50 pm
Karin Wells	An unusual suicide by stabbing: the role of the forensic pathologist in determining cause and manner of death	AC 200 - Kansas City Campus	4:00 pm
Manbir Sanghera	TGF- β pathway inhibition ameliorates deleterious effects of doxorubicin on endothelial nitric oxide synthase	AC 200 - Kansas City Campus	4:10 pm
Mahan Hadjian	The Usual Suspects: A candidate-based screen of E3 ligases in STING-mediated K63 poly-ubiquitylation	AC 200 - Kansas City Campus	4:20 pm
Chloe Maye	The role of aortic root anatomy in transcatheter aortic valve replacement: a cadaveric study	J Lecture Hall - Joplin Campus	4:30 pm
Kaitlyn J. Aldaz	The intra-arterial infusion of VBI-1, a phospholipid nanoparticle, protects against cerebellar lesions associated with severe hemorrhagic shock.	AC 200 - Kansas City Campus	4:40 pm

Day 4, April 5th, 2024

7:00 am – 1:00 pm **Kansas City University Graduate Medical Education (GME) Resident/Fellow Presentations**

On Friday, April 5, 2024, we will host the Annual KCU GME Research Day. This event celebrates the scholarly achievements of KCU GME residents, fellows, and faculty. The day features live virtual presentations, including 5-minute talks and 1-minute Q&A sessions, highlighting 55 posters created by our residents and fellows. These posters showcase their research, quality improvement initiatives, and case study projects. Notably, some projects involve KCU COM students, and a select few even feature international students presenting on behalf of the residents or fellows.

7:00 – 7:05 am **Welcome** – Kerrie Jordan, DHSc. Assistant Professor, Designated Institutional Official (DIO), KCU-GME Consortium, Director, Graduate Medical Education (GME) and Continuing Medical Education (CME).

[Live Virtual Presentations](#)

David Dye, DO	Patient satisfaction of splinting of musculoskeletal injuries	7:05 am
Robert Garner, DO	Incidence of above knee amputations due to total knee arthroplasty complications: A comprehensive analysis from a Midwest metropolitan hospital system.	7:11 am
Bandalynn Holland, DO	Use of a Steinmann Pin for Provisional Fixation during Cephalomedullary Nailing of a Basicervical Femoral Neck Fracture: A Case Report	7:17 am
Jacob Frisbie, DO	Keracis in the Treatment of Necrotizing Fasciitis: A Case Report	7:23 am
Brandon Nguyen, DO	Transiliac Shortening Osteotomy to Treat Ischial Pressure Injury due to Fixed Pelvic Obliquity: A Case Report	7:29 am
Ben Murrell, DO	Case Report: Failed retrieval of a retrievable inferior vena cava (IVC) filter	7:35 am
Jacob Wiepen, DO	Gastric Volvulus: A Case Report	7:41 am
Vincent Bustamante, DO	Spontaneous pneumothorax from bullae in azygos lobe	7:47 am
Xixi Cao, MD	True Bicuspid Pulmonary Valve and Pulmonary Artery Aneurysm: A Case Report and Literature Review	7:53 am
Sendy Ha, MD	Postoperative opioid use after unplanned urgent laparoscopic cholecystectomy	7:59 am
Mollie Mustoe, MD	Distal Esophageal Leiomyoma in a Young Female Patient	8:05 am
Alex Downey, DO	Excimer Laser Refractive Surgery, Intraocular Lens Implantation and Refractive Lens Exchange Outcomes for Children with Neurodevelopmental Disorders	8:11 am
Max Hesse, MD	Impact of Focused Diabetic Education on A1c Levels	8:17 am
Jesse Smallwood, DO	Peeling Back the Layers: Unveiling Staphylococcal Scalded Skin Syndrome in Pediatric Practice	8:23 am
Alex Otto, DO	Otolaryngological Presentations of Klippel-Feil Syndrome in the last 10 years: A Systematic Review	8:29 am
Randall Hansen, DO	A Systematic Review of Cardiovascular Presentations Associated with Klippel-Feil Syndrome	8:35 am
Alex Otto, DO	Comparing Intubation Techniques of Klippel-Feil Syndrome Patients: A Systematic Review	8:41 am
Alex Otto DO	Hearing Loss in Klippel-Feil Syndrome Patients	8:47 am
Alex Otto, DO	Unilateral Choanal Atresia in a Child with Prolonged Nasal Congestion	8:53 am
Randall Hansen, DO	Tablet based interactive distraction in pediatric patients undergoing same day procedures with general anesthesia	8:59 am
Randall Hansen, DO	Systematic review of tablet based interactive distraction in pediatric patient undergoing same day procedures	9:05 am
Alyssa Wilhelm	Access Denied: Leriche syndrome in the cardiac catheterization lab	9:11 am

Rishi Gupta	An Uncommon Cause of Anemia, Heyde Syndrome	9:17 am
Tess Krage	Calciphylaxis secondary to Warfarin in a patient with aortic and mitral valve replacements	9:23 am
Jenil Baman	Nocardiosis Complicated by Hyponatremia Secondary to the Mainstay of Treatment	9:29 am
Michael Weaver, DO	Inpatient Penicillin Delabeling - Pitfalls of QI/Research Overlap	9:35 am
Victoria Dukharan, MD	Patient Attitudes Regarding Shingles Vaccination in Dermatology Clinics	9:41 am
Charles Dunn, MD	Vaccines and Dermatology 2.0 - The Next Frontier of Public Health	9:47 am
Fahad Siddiqui, DO	Uncovering Biases in AI-Generated "Dermatology Resident" Imagery: An Observational Study	9:53 am
Stephanie M. Delgado Colon, MD	Breathless Mystery: Unraveling Renal Cell Carcinoma's Pulmonary Puzzle	9:59 am
Rajesh Dhakal, MD	Be prepared: A storm of a different kind.	10:05 am
Megan Hammersla, MD	How can you mend a broken heart: a case report on takotsubo cardiomyopathy	10:11 am
Shruti Dave, MD	Residency Blues- Improving the rate of depression screening in the family medicine residency clinic	10:17 am
Nicole Hountz, DO	West Nile Confusion	10:23 am
Joseph Alexander Intriago, MD	I-PROMPT: Improving patient retention with outreach messages via physician telecommunications	10:29 am
Jeffrey Lee, MD	A breath-taking circumstance: a case report on LAM	10:35 am
Christine Miller, DO	ACS in low-risk population: Spontaneous Coronary Artery Dissection (SCAD) under-diagnosed or misdiagnosed	10:41 am
Vivien Nsonwu, MD	Lactobacilli Urinary Tract Infection in Male Patient	10:47 am
Bothaina Afifi, MD	Not the typical Hydronephrosis:Painless Hydronephrosis and Questionable Retroperitoneal Fibrosis!	10:53 am
Salecah Ullah, MD	Snort it Inject or inject it damage is still there: a case report on glomerulonephritis caused by Heroin abuse	10:59 am
Yassar Odhejo, MD	Phenibut Withdrawals: A Systematic Review of an Online Supplement	11:05 am
Savitha Kumari Satyasi, MD	Assessment of Barriers in the Office-Based Opioid Treatment in Rural United States	11:11 am
Ozge Williams, MD	Designing Wellness Initiatives Tailored to Individual Needs in Residency Training: Diversity of Coping Skills in Response to Stress	11:17 am
Ozge Williams, MD	Tailoring Parenting Styles and Family-Based Interventions Cross-Culturally as an Effective Prevention Strategy for Youth Substance Use: A Scoping Review	11:23 am
Ozge Williams, MD	Insights of Opioid Use Treatment During Pandemic: A Multicenter Cross Sectional Study	11:29 am
Mahnoor Waqar, MBBS	Alcohol Use Disorder: Comparative Efficacy and Tolerability of Medications in Youth	11:35 am
Haider Saleem, MD	Evaluation of Provider Perception to Naloxone Prescribing and Buprenorphine Induction in Patients with Opioid Use Disorder	11:41 am
Paul Welder, MD	Carfentanil, A highly potent opioid responding to high doses of naloxone, what can help?	11:47 pm
Kaka Murk, MD	Identifying LGBTQ+ Education Amongst Health Care Professionals: a barrier to treatment	11:53 pm
Abdulla Elsayadh MD	Heparin or not? Current recommendations for the treatment of acute embolic stroke of uncertain source (ESUS) treated with Tenecteplase - a case report.	11:59 pm
Darren Dalbey, DO	Clinical Toxicology of Flora Native to Southwest Missouri	12:05 pm
Robert Steele, DO	Does Sural Nerve Class influence the positioning in the lateral ankle?	12:11 pm
Jesse Cooper, DO	Teaching medieval methods for reducing dislocations in the 21st century	12:17 pm
Shayne McGowan, DO	Decision rules in diagnosing pulmonary embolism - is missing 3% OK?	12:23 pm
Robert Morris, DO	Optimizing a Visiting Rotation in PGY-1 Family Medicine	12:29 pm

1:00 – 2:00 pm

Kansas City University 2024 Research Symposium Awards lunch and closing remarks.

Kansas City Campus - Academic Center 200 (AC 200) / Joplin Campus - J-Lecture Hall and [Virtual through Zoom](#).

Awards

1. Summer Student Research Fellowship Certificate of Achievement -12 Fellows
2. Kansas City University Student Research Symposium Award - 6 awards for the best judged presentations: poster, live podium, and live virtual.
3. Yale U. Castlio, DO, Prize for Research Fund - 1 award.
4. Kansas City University GME Residents Presentations – up to 3 awards.