RUTGERS

Robert Wood Johnson Medical School

2023 RWJMS Medical Students Summer Research Program Symposium

Wednesday, August 9, 2023

Keynote Speaker

Reynold A. Panettieri, Jr, MD

Vice Chancellor for Translational Medicine and Science

Director, Rutgers Institute for Translational Medicine and Science

Professor of Medicine, Robert Wood Johnson Medical School

Organized by: RWJMS Office of Research

RWJMS Medical Students Summer Research Program Symposium

#	Student	Mentor	Title of Research
1	**Meha Aggarwal, BA**	Detlev Boison, PhD	Glutamate transporter (GLT-1) as a new candidate to prevent post-traumatic epilepsy
2	**Sameer Ahmad, BA**	Gerardo Rodriguez, MD	Implementation of a Pre-Operative Peripheral Nerve Block Safety Pause
3	**Damion Anglin, BS**	Ankit Shah, MD	Measurement of Plasma Kisspeptin Levels in Patients with Non-Alcoholic Fatty Liver Disease
4	**Ema Azuonwu, BA**	Gloria Bachmann, MD, MMS	One Health: Understanding Knowledge Base in a Student Population
5	**Seung Woo Baek, BS**	James Liu, MD, FACS, FAANS	Assessment of Cerebral Microvasculature and Tissue Microstructure using Fluorescein Fluorescence: Determining Safe Dosage Threshold and Imaging Characteristics
6	**Joseph Bennett, MS, BS**	Christoph Buettner, MD, PhD	The Role of Unrestrained Sympathetic Nervous System Activity in Estrogen-Deficiency-induced Metabolic Disorder: Implications for Insulin Resistance in Post-Menopausal Women
7	**Justin Benton, BSN, RN**	Sabahat Bokhari, MD, FACC, FASNC	Analysis of the Prevalence of Imaging Misdiagnosis of Cardiac Amyloidosis
8	**Mina A. Beshy, BA**	Todd M. Mowery, PhD	Using Cochlear hair cell Targeted AAV Gene Therapy to Reduce Cisplatin Induced Hearing Loss
9	**Sophia J. Bhalla, MS**	Saum Ghodoussipour, MD	Evaluation of Tumor Specific Mutations and Survival in Muscle Invasive Bladder Cancer
10	**Kavya Boyapati, BS**	Salma Jabbour, MD, FASTRO	Prognostic Value of Lymph Nodes in Rectal Cancer Patients Treated with Neoadjuvant Chemoradiation
11	**Kaitlyn R. Boyle, MS**	Lea Ann Chen, MD	Identification of epigenetic factors that protect against Crohn's disease development in those at high genetic risk for disease
12	**Rohan N. Buddala, BA**	Betsy Mathew, MD	Evaluation of a Collaborative Health Education Program on Formerly Incarcerated Individuals' Trust in the Healthcare System
13	**Amy Caffrey, BS**	Shawna Hudson, PhD	Developing Qualitative Assessment Tools to Analyze the Implementation of a Tailored mHealth Intervention to Enhance Colposcopy Attendance and Reduce Urban Cervical Cancer Disparities

14	**Abhishek Chakraborty, BS, MS**	Anthony Lemaire MD	Initial Impella Placements Performed at Community Hospitals are Associated with Increased Rates of Impella Exchange or Upgrade: A Single Institution Experience
15	**Sofia Chapman, BA**	Huong Truong, MD	Practice Patterns of Glucocorticoid Treatment for Temporal Arteritis Following Temporal Artery Biopsy
16	**Alexis A. Consalvo, MS**	Thomas L. Jang, MD, MPH, FACS	Factors Associated with Mortality Following Major Urologic Oncology Cancer Surgery - Contemporary Analysis of the National Surgical Quality Improvement Program Data
17	**Richa Dahake, BS**	Amanda Teichman, MD	Predictors of OT consult evaluation for mild TBIs at RWJUH
18	**Samantha J. Eng, BA**	Juana A. Hutchinson-Colas, MD, MBA	Urinary Incontinence and Cardiovascular Disease in Women: A Literature Review
19	**Kevin Frederiks, BA**	Nina Cooperman, PsyD	An Investigation into Outcomes of Naloxone Training for Community Members
20	**Noah Z. Freundlich, BA**	Gregory Peck, DO, MPH, FACS	A Pilot Qualitative Study of Patient Factors Influencing Emergency vs. Elective Cholecystectomy Care for Gallstone Disease
21	**Lia Gaccione-Barreto, BS**	Charles Gatt MD	Methods of Platelet Rich Plasma and Platelet Rich Fibrin Matrix Preparation in Ovine and Human Models: A Review of Current Literature
22	**Helen Gao, BA**	Saum Ghodoussipour, MD	Rethinking the Definition of Stage IV Disease in Adrenocortical Carcinoma: Assessing the Impact of Clinical Lymph Node Positive Disease
23	**Philip M. Glaessner, BA**	Gail Burack, PhD	The LINK-HIV Survey: Measuring the Impact of Stress due to COVID-19 on the Overall and Mental/Emotional Health of People Living with HIV/AIDS
24	**Patrick D. Glennan, BA**	Sanjay Goel, MD, MS	Prognostic Factors, Outcomes, and Toxicities in Patients with Gynecologic Malignancies Enrolled in Phase 1 Clinical Trials from 2000 to 2022
25	**Megha Gupta, BS**	Benjamin Crabtree, PhD	Behavioral Health Provider Perspectives on the Integration of Behavioral Health into Primary Care
26	**Yuri Han, BA**	Charles Gatt, MD	The Impact of Pre-operative Physical Therapy (Prehab) on Post-operative Rotator Cuff Outcomes: A Randomized Prospective Study
27	**Sara Henein, BA, MS**	Mark J Russo MD, MS	Telemedicine Preoperative Evaluation Associated with Similar Outcomes in TAVR
28	**Chase Hintelmann, BS**	Justin Yao, PhD	Evaluation of Cognitive Decline After Auditory Impairment

29	**Arianna Horgan, BA**	Gloria Bachmann, MD, MMS	The Use of Animated Health Promotion in Educating Reentering Women about Breast Self-Examinations
30	**Sean P. Hurley, BS**	Detlev Boison, PhD	A novel and refined model of post-traumatic epilepsy
31	**Lauren Isserow, BS**	Salma K. Jabbour, MD, FASTRO	Educational Video as a Method to Improve African American Clinical Trial Enrollment Rates
32	**Nikita Jadav, BA**	Brad Kamitaki, MD	Stakeholder-Identified Solutions to Barriers in Accessing Epilepsy Care
33	**Rucha P. Janodia, BA**	Carolyn J. Heckman, PhD	Investigation of US Indoor Tanning Policy Compliance and Impact: A National Survey of Young Adult Indoor Tanners
34	**Linda Jung, MS, BA**	Richard L. Agag, MD	Assessment of the Current State of Microsurgery Competency Among Plastic Surgery Residents
35	**Hanna J. Kim, BA**	Charletta A. Ayers, MD, MPH	Patient's Preferred Method of Perinatal Education Based on Race
36	**Anirudh Kulkarni, BS**	James Monica, MD	DASH Score Variance by Hand Dominance
37	**Jasmine J. Lee, BS**	Deepak Jain, MD	Factors and Outcomes Associated with Pneumothoraxes in Late Preterm and Term Infants
38	**Kangsoo Lee, MS, MBS**	Thomas Hegyi, MD	Transcutaneous Bilirubinometry in the Management of Hyperbilirubinemia in the Preterm Infant
39	**Aurora L. Lewis, BA**	Bruce Haffty, MD	Targeting KRAS in Lung Cancers
40	**Patrick H. Lin, BA**	Manuel Jimenez, MD, MS, FAAP	Examining Community Agency Referrals Among a Primary Care Sample of Latino Parent-Infant Dyads
41	**Elyse Mackenzie, BS**	Pengfei (Phil) Zhang, MD	GPT Meets PubMed: A Novel Approach to Literature Review in Migraine and Atopic Dermatitis
42	**Jaanvi Mahesh, BS**	Nancy Phillips, MD	Evaluating Wet Preparation as a Diagnostic Tool for Vaginitis in Pre- and Post-Menopausal Patients
43	**Olivia A. McGeough, BS**	Todd Rosen, MD	Management of Postpartum Preeclampsia
44	**Moira A. McGevna BA**	William Beckerman MD	mFI-11 Is a Poor Predictor of One-Year Mortality and Morbidity After Ruptured Abdominal Aortic Aneurysm Repair.
45	**Miriam Meghnagi, MS**	Huong Truong, MD, RPVI	Is there still a role for femoral-femoral artery bypass in the current endovascular world?

46	**Alyssa Miguelino, BS, MS**	Leonard Lee, MD	Rapamycin Therapy for Heart Diseases: A Systematic Review of Clinical and Translational Studies
47	**Yash Mishra, BS**	John Nosher, MD	Impact of Dedicated Inferior Vena Cava Filter Clinic on Filter Patient Follow-up Rates
48	**Jonathan Movsik, BS**	Patrick S. Buckley, MD	Blood Flow Restriction vs Traditional Physical Therapy in the Non-Operative Treatment of Femoroacetabular Impingement – A Randomized Prospective Study
49	**Rohit Mukherjee, BA**	Brock Daniels, MD, MPH	Strategies for successful implementation of Mobile Integrated Health programs in urban United States health systems: a qualitative analysis using the Consolidated Framework for Implementation Research
50	**Vidisha Naini, BS**	Jonathan McCoy, MD, FACEP	Triage and treatment of patients with sickle cell vaso-occlusive crisis in the emergency department: a baseline pilot
51	**Alysta M. Paneque, BA**	Peter Cole, MD	Impaired Cognitive Function in Survivors of Childhood Acute Lymphoblastic Leukemia
52	**Neha Pareddy, BA, MSc**	Gloria Bachmann, MD, MMS	Sexual, Reproductive, and Prenatal Health Care Complicated by Substance Use Disorders: Identifying Stigma as a Barrier to Care from Patients' Perspectives
53	**Sophia R. Passaro, BA**	Zhongren Zhou, MD, PhD	Protein Biomarker Expression of the Esophagus with Gastroesophageal Reflux Disease, Barrett's Esophagus, and Esophageal Adenocarcinoma
54	**Mitsu M. Patel, BA**	Karthik J. Kota, MD, MPH	Revisiting Patient Values and Code Status: Follow-up to the Choice of Diction's Effect Study
55	**Khushi S. Patel, BA**	Sathyaprasad Burjonrappa, MD	Risk Assessment For Development of Symptoms and Complications in Intestinal Rotational Anomalies
56	**Gaurav N. Pathak, PharmD**	Babar K. Rao, MD	Evaluation and Treatment Monitoring of Actinic Keratosis using Line-field Confocal Optical Coherence Tomography (LC-OCT)
57	**Christopher L. Pella, PharmD**	Sagar Mungekar, MD	Erector Spinae Plane Block for Post-Surgical Pain in Adult Coronary Artery Bypass Graft Surgical Patients
58	**Elijah A. Peterson, BA**	Denalee O'Malley, PhD	Evaluating Shared Care Models of Cancer Survivorship in the United States
59	**Anne Pierce, BA**	Rachel Choron, MD, FACS	Firearm Related Injury, It's Not Just Physical: Using the PROMIS Instrument to Demonstrate Adverse Long-term Patient Reported Outcomes
60	**Shahroze Rafi, BS**	Frederick H. Silver, PhD	Corneal Stiffness Characterization and its Implications for Corneal Diseases and Mechanotransduction: A Comparative Literature Review

61	**Aparna Ragupathi, BA**	Susannah Wise, MD	Assessing Patient-Surgeon Communication for Elective Gallbladder Procedures
62	**Nicolas D. Rodriguez, BS**	Martha Soto, PhD	Analysis of Kidney Disease Causing Mutations in the Rho GTPase Regulator RhoGDI Using C. elegans Epithelial Tube Morphogenesis as a Model
63	**Munisa Said BS**	Saum Ghodoussipour, MD	Transperineal Prostate Biopsies Without Routine Administration of Perioperative Antibiotics – A Single Institution Retrospective Analysis
64	**Debra Scheiner, BA**	Todd Rosen, MD	The Effect of Sulfasalazine on CRH levels in Pregnant Women with a History of Preterm birth: a randomized control trial
65	**Charvi Shah, BA**	Salma Jabbour, M.D., FASTRO	Prognostic Impact of Missed Chemotherapy Doses During Neoadjuvant Chemoradiation Therapy for Esophageal Cancer
66	**Kimberlee M. Sibilia, BS**	Aliza Leiser, MD, FACOG	Administration of Female Sexual Function Index as a Standard of Care for Gynecologic Oncology Survivorship Patients
67	**Christian A. Simon, BS**	Conor McClenaghan, PhD	The Impact of Traditional Botanical Hypotensives on Vascular KATP Channels
68	**Deven Singh, BA**	Meral Reyhan, PhD	Radiomics-based Prediction of Radiation Therapy-Induced Pneumonitis
69	**Ryan D. Stadler, BS**	Todd M. Mowery, PhD	Superior Semicircular Canal Dehiscence and Subsequent Closure Induces Reversible Impaired Decision-Making
70	**Jason A. Thiagaram, BS, MBS**	Suzanne Magherini-Rothe, MD	Using a Digital Delivery System to Incorporate Patient Decision Aids into a Title 10 Family Planning Practice
71	**Jack Trubiano, BS**	Michael Dunn, PhD	Tensile Properties of the Human Medial Meniscotibial Ligament
72	**Anisha Tyagi, B.S.**	Kenneth Swan, M.D.	N+?: MRI PreOperative Planning to Avoid Graft-Tunnel Mismatch in BTB ACL Reconstruction
73	**Daniel Valdivia, MBS**	Hai Sun, MD, PhD	Seizure Ending Patterns Correlate with Hippocampal Morphology
74	**Betsy Vasquez, BA**	Hai Sun, MD, PhD	Role of Astroglia in Seizure Ending Patterns
75	**Prem Vyas**	Naveena Yanamala, PhD	Genetic and Comborbid Risk Factors Increasing Frequency of Myocardial Infarctions in South Asians
76	**Radha Vyas, BA, MS**	Katie Devine, PhD, MPH	Needs Survey for Childhood, Adolescent, Young Adults (CAYA) Cancer Survivors, Their Siblings, and Their Parents/Caregivers
77	**Isabella J Tan, BS**	Peter Grayson, MD, MSc	A Dermatologic Approach to VEXAS Syndrome

THANK YOU

Thank you for attending the **2023 Medical Student Summer Research Program Symposium**.

We truly appreciate your participation and continued support.

A special thank you to all faculty mentors, lecturers, faculty who served on the fellowship selection committee, facilitators, students, and Research Office staff for their participation in the program.

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