

MEDICAL RESEARCH SCHOLARS PROGRAM (MRSP)

SAMPLE OF SCHOLARS' RESEARCH TOPICS



YAJIE "JULIE" AN
Northeast Ohio Medical Univ.

Topic: Does a Negative Prostate mpMRI Rule-Out Clinically Significant Cancer?; **Mentor:** Bradford J. Wood, M.D., Director,

Center for Interventional Oncology; Chief, Interventional Radiology, NIH Clinical Center



BRIAN CALIO
Sidney Kimmel Medical Col. at Thomas Jefferson Univ.

Topic: Utility of Multiparametric MRI and Fusion Biopsy on Patient Selection for Focal Therapy in

Intermediate Risk Prostate Cancer Patients; **Mentor:** Peter A. Pinto, M.D., Head, Prostate Cancer Section, Urologic Oncology Branch, NCI



ASHLEY E. CHORATH
Sidney Kimmel Medical Col. at Thomas Jefferson Univ.

Topic: Coronary CT Angiography and Carotid MRI Improve Phenotyping of Disease Extent Compared

to ACC/AHA Risk Score Alone; **Mentor:** David A. Bluemke, M.D., Ph.D., Director, Radiology and Imaging Sciences, NIBIB



DANIEL KUHR
Jacobs Sch. of Medicine and Biomedical Sciences, Univ. at Buffalo

Topic: Vitamin D and the Bioavailability of Androgens; **Mentor:** Enrique F. Schisterman, Ph.D., Chief,

Epidemiology, Division of Intramural Population Health Research, NICHD



SACHIN NAIR
Univ. of Missouri-Kansas City Sch. of Medicine

Topic: The Effect of Periaqueductal Gray (PAG) Lesions on Pain Processing and Cardiovascular Regulation in Rhesus Macaques;

Mentor: Bruno Averbeck, Ph.D., Chief, Section on Learning and Decision Making, Laboratory of Neuropsychology



UKPEBO OMOSIGBO
Univ. of Tennessee Health Science Center

Topic: Preconception Serum Vitamin D and Neonatal Outcomes; **Mentor:** Sunni Mumford, Ph.D., Stadtman Investigator, Epidemiology Branch, NICHD



VARUN PADMANABAN
Drexel Univ. Col. of Medicine

Topic: Investigation of Single-Session Deep Brain Stimulation to Increase Adult Hippocampal Neurogenesis and Improve Stress

Resiliency; **Mentor:** Heather Cameron, Ph.D., Chief, Section of Neuroplasticity, NIMH



CHANDANA PAPUDESU
Medical Col. of Georgia at Augusta Univ.

Topic: Association of Mortality with Ocular Diseases in the Age-Related Eye Disease Study 2 (AREDS2); **Mentor:** Emily Chew, M.D.,

Deputy Clinical Director, NEI; Deputy Director, Division of Epidemiology and Clinical Applications, NEI



JACQUELINE M. PIRES
Univ. of Massachusetts Medical Sch.

Topic: Endogenous Tagging of POLG2 Via Split GFP Fluorescence: Using CRISPR Mediated Gene Editing to Study Mitochondrial DNA Replication; **Mentor:** Richard J. Youle, Ph.D., Biochemistry Section, Surgical Neurology Branch, NINDS



RICHARD M. SMITH
Drexel Univ. Col. of Medicine

Topic: The Contributions of Pathological Volume and Kinematics to the Etiology of Adolescent Patellofemoral Pain

Syndrome; **Mentor:** Frances T. Sheehan Gavelli, Ph.D., Functional & Applied Biomechanics Section, Rehabilitation Medicine Department, CC



GIACOMO C. WALLER
Emory Univ. Sch. of Medicine

Topic: Development of an Optimized Toolkit for High-Efficiency Lentiviral Genetic Modification of Human Natural Killer Cells; **Mentor:**

Richard Childs, M.D., Sr. Investigator, Lab. of Transplantation Immunology, Hematology Branch; Clinical Director, Division of Intramural Research, NHLBI



SUZANNE C. WARD
Univ. of Cincinnati Col. of Medicine

Topic: Beyond the Triad: Correlating Mucocutaneous Phenotype, Inheritance Patterns, and Survival in Dyskeratosis Congenita;

Mentor: Edward Cowen, M.D., Senior Clinician and Head, Dermatology Consultation Service, Dermatology Branch, NCI