

GRANT AWARDEES

The SCTR pilot grants program supports innovative research spanning the translational spectrum — from basic science to population health — including patient-centered and community-engaged research.

Categories

Discovery
Team Science
Telehealth
Collaborative K/T
High-Innovation High-Reward
COVID-19

Last updated: August 2, 2022

Discovery Pilot Awards

2017-2018 Targeting gut microbiota to treat sepsis

Hongkuan Fan, PhD

Department of Pathology & Laboratory Medicine

College of Medicine

Medical University of South Carolina

Development of monoclonal antibodies to inhibit Neuropilin-2b-dependent metastasis

Robert Gemmill, PhD

Department of Medicine

College of Medicine

Medical University of South Carolina

Developing brain stimulation as a treatment for pain in opiate dependent individuals

Colleen Hanlon, PhD

Department of Psychiatry & Behavioral Sciences

College of Medicine

Medical University of South Carolina

The mechanism of decreased inflammatory responsiveness on monocytes in HIV-infected long-term non-progressors (LTNPs)

Wei Jiang, MD

Department of Microbiology & Immunology

College of Medicine

Medical University of South Carolina

Diabetes, modified lipoproteins, and preeclampsia

Timothy Lyons, MD

Department of Medicine

College of Medicine

Medical University of South Carolina

Understanding Thiol Based Protein Modifications to Engineer Robust Anti-Tumor T cells

Shikhar Mehrotra, PhD

Department of Surgery

College of Medicine

Medical University of South Carolina

Vascular specific Akt3 is neuroprotective

Robin Muise-Helmericks, PhD

Department of Regenerative Medicine and Cell Biology

College of Medicine



The Impact of PD-1 inhibition of T cell Memory Phenotype in Patients with Oral Cancer

David Neskey, MD, MSCR Department of Otolaryngology

College of Medicine

Medical University of South Carolina

The role of CAL-101 on the microbiome and cancer immunotherapy

Chrystal Paulos, PhD

Department of Microbiology & Immunology

College of Medicine

Medical University of South Carolina

Inverse correlation between mitochondrial health and retinal degenerative disease

Baerbel Rohrer, PhD

Department of Ophthalmology

College of Medicine

Medical University of South Carolina

Correlating 4D flow MRI-derived shear stress to fenestration number in a tissue model of type B aortic dissection may predict false lumen thrombosis

Jean Marie Ruddy, MD

Department of Surgery

College of Medicine

Medical University of South Carolina

Senescence and olfactory dysfunction in aging

Rodney Schlosser, MD

Department of Otolaryngology

College of Medicine

Medical University of South Carolina

Care-coordination Approach to Learning Lupus Self-Management (CALLS)

Edith Williams, PhD

Department of Public Health Sciences

College of Medicine

Medical University of South Carolina

Design and testing of novel HUNK inhibitors

Elizabeth Yeh, PhD

Department of Pharmacology

College of Medicine



Preeclampsia in minority pregnant women with Type 2 diabetes

Jeremy Yu, MD, PhD

Department of Medicine

College of Medicine

Medical University of South Carolina

2018-2019 Copy-number analysis of understudied black women ovarian cancers

Joseph Delaney, PhD

Department of Biochemistry & Molecular Biology

College of Medicine

Medical University of South Carolina

2019-2020 Parcellating Cortical Functional Networks in Preclinical Alzheimer's Disease

Andreana Benitez. PhD

Department of Neurology

College of Medicine

Medical University of South Carolina

Invention of biodegradable antibiotic eluting device for prevention of surgical site infection in total joint replacement

Josef Eichinger, MD

Department of Orthopaedics & Rehabilitation

College of Medicine

Medical University of South Carolina

Using functional genomics and computational biology to reverse engineer human breast cancer cells

Steve Ethier. PhD

Department of Pathology & Laboratory Medicine

College of Medicine

Medical University of South Carolina

Development and pilot implementation of a novel mobile health app for post-operative wound triage

Heather Evans, MD

Department of Surgery

College of Medicine

Medical University of South Carolina

Classifying groups of HIV-infected individuals at-risk for falling out of care to identify tailored, feasible, and effective interventions to promote retention

Virginia Fonner, PhD, MPH

Department of Psychiatry and Behavioral Medicine

College of Medicine



Initial Development and Pilot Testing of the Use of Automatic Clinical Summaries in Pediatric Primary Care to Identify Risk and/or Exposure to Child Abuse and Neglect

Rochelle Hanson, PhD

Department of Psychiatry & Behavioral Sciences

College of Medicine

Medical University of South Carolina

Maternal, infant, and early childhood outcomes of mothers with OUD: Comparing outcomes of mothers engaged and non-engaged in medication assisted treatment utilizing Medicaid data

Angela Moreland, PhD

Department of Psychiatry & Behavioral Sciences

College of Medicine

Medical University of South Carolina

Circuit dissection of brain-stimulation-induced plasticity in stroke recovery

Takashi Sato, PhD

Department of Neurosciences

College of Medicine

Medical University of South Carolina

Molecular and neuronal circuit mechanisms underlying stress-induced mood dysfunction

Makoto Taniguchi, PhD

Department of Neurosciences

College of Medicine

Medical University of South Carolina

2020-2021 miRNAs as early biomarkers of aggressive variant prostate cancer

Victoria Findlay, PhD

Department of Pathology and Laboratory Medicine

College of Medicine

Medical University of South Carolina

Racial/ethnic disparities in systemic lupus erythematosus (SLE) among women: examination of genetics and clinical factors

Mara Lennard Richard, PhD

Department of Medicine

College of Medicine

Medical University of South Carolina

Angela Malek, PhD

Department of Public Health Services

College of Medicine



Anti-Warburg Small Molecules Regulating VDAC in Cancer

Eduardo Maldonado, DVM, PhD College of Pharmacy Medical University of South Carolina

Combinatorial non-neuronal cell therapies for the treatment of pain and subsequent opiate addiction

Mike Scofield, PhD

Department of Anesthesia and Perioperative Medicine College of Medicine Medical University of South Carolina

Effect of Maternal Vitamin D Status during Lactation on Milk and Infant Microbiome and Immune Status

Carol Wagner, MD

Department of Pediatrics College of Medicine Medical University of South Carolina

2021-2022 Novel Targets for Vascular Cognitive Impairment and Dementia (VCID): Linking Endothelin A (ETA) Receptors and Endothelial Tau Pathology

Yasir Abdul, PhD

Department of Pathology & Laboratory Medicine College of Medicine Medical University of South Carolina

High-Fat Diet and Endothelial Tau Hyperphosphorylation: A Plausible Link Between Vascular Contributions and Dementia

Onder Albayram, Ph.D.

Department of Microbiology and Immunology College of Medicine Medical University of South Carolina

Novel epigenetic pharmacotherapies for AUD and SUD

Ethan Anderson, Ph.D.

Department of Neurosciences College of Medicine Medical University of South Carolina



Increasing return-to-home for hospitalized older adults experiencing delirium through enhanced caregiver support

Jennifer Dulin, MD, MPH Department of Medicine College of Medicine Medical University of South Carolina

Co-engineering stem cell-derived beta cells and regulatory T cells for type 1 diabetes

Leonardo Ferreira, Ph.D.

Department of Microbiology and Immunology; Regenerative Medicine & Cell Biology College of Medicine Medical University of South Carolina

Prospective cognition in temporal lobe epilepsy

Ezequiel Gleichgerrcht, MD, PhD Department of Neurology College of Medicine Medical University of South Carolina

Single cell profiling of resident brain cells in a mouse model of oral microbial dysbiosis and amyloid response

Wei Jiang, MD, MS

Department of Microbiology & Immunology College of Medicine Medical University of South Carolina Eric Daniel Hamlett, PhD Department of Pathology and Laboratory Medicine College of Medicine

Effect of Lambda Interferon Receptor (IFNLR1)

Medical University of South Carolina

Modulation on Myeloid Cells and HIV Eric Meissner, M.D., Ph.D.

Department of Microbiology and Immunology College of Graduate Studies Medical University of South Carolina

The role of SUPT6H in DNA damage and oral tumoriaenesis

Viswanathan Palanisamy, PhD Department of Biochemistry & Molecular Biology College of Medicine Medical University of South Carolina



Metabolic effects of Lysine in salt sensitive hypertension

Oleg Palygin, PhD

Department of Medicine

College of Medicine

Medical University of South Carolina

Development of an EHR-based intervention to facilitate risk-stratified breast cancer screening

Sarah Price, MD, PhD

Department of Family Medicine

College of Medicine

Medical University of South Carolina

Caitlin Allen, PhD, MPH

Department of Public Health Sciences

College of Medicine

Medical University of South Carolina

Altered Iron Sulfur Cluster Trafficking as a Novel Driver of NAFLD

Don Rockey, MD, PhD

Department of GI & Hepatology

College of Medicine

Medical University of South Carolina

Preventing Cancer Relapse in Brain Tumor Patients

Jezabel Rodriguez Blanco, PhD

Department of Pediatrics

College of Medicine

Medical University of South Carolina

Costs Associated with Acute Kidney Injury in the Neonatal Intensive Care Unit: Analysis of Data from the Pediatric Health Information Systems Database

Heidi Steflik, MD, MSCR

Department of Pediatrics

College of Medicine

Medical University of South Carolina

Brinton Daniel, PhD

Department of Healthcare Leadership and

Management

College of Health Professions



Rib Fixation in Adult Deformity Corrective Surgery as Preventative Measure for Proximal Junctional Kyphosis/ Failure

Hai Yao, PhD

Department of Neurosurgery

College of Medicine

Medical University of South Carolina

Stephen Kalhorn, MD

Department of Neurosurgery

College of Medicine

Team Science Pilot Awards

2018-2019 Establishing reliability of a novel quantification model for classifying narrative observations of teamwork behaviors in healthcare clinical units

Dusty Annan, EdD Medical University of South Carolina

The Relationship between Clinical Service Delivery Models and Provider Perceptions of Teamwork

Stacey Maurer, PhD

Department of Psychiatry & Behavioral Sciences College of Medicine

Medical University of South Carolina

2019-2020 Evaluation of individual and team-composition predictors of teamwork performance using a standardized teamwork challenge

Kimberly Kascak, MS Academic Affairs Medical University of South Carolina

2020-2027 Team REACH: Building a Transdisciplinary Collaboration for Integrated HIV/PTSD Care to Address Mental Health and Risk Reduction

Nada Goodrum, PhD

Department of Psychiatry & Behavioral Sciences

College of Medicine



Telehealth Pilot Awards

2019-2020 Iterative intervention development and feasibility testing of a smoking cessation e-visit for individuals experiencing homelessness

Cristin Adams, DO

Department of Family & Preventive Medicine College of Medicine Medical University of South Carolina

Improving Pediatric ADHD Management with Virtual Check-ins: A Study of Utilization and Acceptability

Claire Macgeorge, MD, MSCR
Department of Pediatrics
College of Medicine
Medical University of South Carolina

Stressors of Inter-ICR Transfer: Family Centered Care through Telehealth

Nandita Nadig, MD
Department of Medicine
College of Medicine
Medical University of South Carolina

A comparison of standard office based postpartum BP monitoring to a text based remote self BP monitoring program in the management of maternity patients with a hypertensive disorder of pregnancy

Renata Sawyer, MD University of South Carolina

2020-2027 Telehealth Management of Complex ADHD

Silvia Pereira-Smith, MD
Department of Pediatrics
College of Medicine
Medical University of South Carolina

Health Chat: Connecting with Underserved Adolescents to Monitor Healthy Lifestyle Goals via Mobile Health

Christine San Giovanni, MD, MSCR
Department of Pediatrics
College of Medicine
Medical University of South Carolina

2021-2022 BioWare to Enhance Treatment for Alcohol Use Disorder and Posttraumatic Stress Disorder

Amber Jarnecke, PhD

Department of Psychiatry & Behavioral Sciences College of Medicine

Medical University of South Carolina

Adapting A Program of SUPPORT for telehealth delivery in Advanced Lung Disease

Kathleen Lindell, PhD, RN

Department of

College of Nursing

Collaborative K/T Pilot Awards

2021-2022 PTSD induced alterations of cardiac homeostasis

Kristine DeLeon-Pennell, PhD

Department of Pathology and Laboratory Medicine

College of Medicine

Alexa Corker

Doctoral Student

College of Graduate Studies

Medical University of South Carolina

Examining the Neural Processes Underlying Social Reward for Individuals with PTSD and Trauma-resilient Individuals

Amber Jarnecke, PhD

Department of Department of Neuroscience

College of Medicine

Medical University of South Carolina

Kyle Blidy, MS

Doctoral Student

College of Graduate Studies

Medical University of South Carolina

Antisense Oligonucleotides against Npas4 long noncoding enhancer RNA as a novel therapeutic for Substance Use Disorder

Constanza Keller, BS-PhD

Department of Neurosciences and Psychiatry

College of Medicine

Medical University of South Carolina

Rose Marie Akiki

Doctoral Student

College of Graduate Studies

Medical University of South Carolina

The role of calretinin in the vmPFC in stress-related anxiety

Jennifer Rinker, PhD

Department of Neuroscience

College of Medicine

Medical University of South Carolina

Krysten O'Hara, MS

Doctoral Student

College of Graduate Studies



High-Innovation High-Reward Pilot Awards

2018-2019 Optimizing Zeriscope for PTSD Clinical Studies

Robert Adams, MD

Department of Neurology

College of Medicine

Medical University of South Carolina

Characterization of race specific primary prostate cancer cell lines for commercialization

David Turner, PhD

Department of Pathology & Laboratory Medicine

College of Medicine

Medical University of South Carolina

2020-2021 Investigation into the impact of variable temperature and flow rates during pulsatile perfusion on the aortic endothelium

Satish Nadig, MD, PhD

Department of Surgery

College of Medicine

Medical University of South Carolina

The Safety Adjunct for Vascular Extremity occlusion during Resuscitation

T. Konrad Rajab, MBBC

Department of Surgery

College of Medicine

Medical University of South Carolina

Improving the Diagnosis of Non-alcoholic Fatty Liver Disease in Primary Care Patients with Abnormal Liver Function Tests Through Predictive Modeling

Andrew Schreiner, MD, MSCR

Department of Medicine

College of Medicine

COVID-19 Pilot Awards

2019-2020 COVID-19 Biorepository Start-up

Patrick Flume, MD

Department of Medicine

College of Medicine

Medical University of South Carolina

2020-2021 Diagnostic predictive potential of microbiota in COVID-19

Alexander Aleksenvenko, PhD

Department of Public Health Sciences

College of Medicine

Medical University of South Carolina

Stephane Meystre

Colonizing microbiome as a determinant of COVID-19 outcome: A Pilot Study

Alexander Alekseyenko, PhD

Department of Public Health Sciences

College of Medicine

Medical University of South Carolina

Stephane Meystre, PhD, MD, MS

OnePlanet Research Center

Drug discovery against SARS-CoV-2 PLPro

Christopher Davies, PhD

Department of Biochemistry & Molecular Biology

College of Medicine

Medical University of South Carolina

Regulation of SARS-CoV-2 replication by hnRNP E1

Philip Howe, PhD

Department of Biochemistry & Molecular Biology

College of Medicine

Medical University of South Carolina

Expanding SARS-COV2 Epitope Reactive T cells for Immunotherapy

Shikhar Mehrotra, PhD

Department of Surgery

College of Medicine

Medical University of South Carolina

Immunogenetics of COVID-19

Janardan Pandey, PhD

Department of Microbiology and Immunology

College of Medicine



Evaluation of splatter and Aerosols during dental procedures Using a Novel Aerosol containment device and standard devices

Walter Renne, PhD College of Dentistry Medical University of South Carolina

The impact of pre-existing T cell and antibody responses against common human coronaviruses on SARS-CoV2 infection in humans

Mark Rubinstein, PhD
Department of Surgery
College of Medicine
Medical University of South Carolina
John Wrangle, MD
Department of Medicine
College of Medicine
Medical University of South Carolina