

MUSC's Approach to Comparative Clinical Effectiveness

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Changing What's Possible | [MUSC.edu](https://www.musc.edu)



MUSC New Frontiers in Medical Research

Cancer immunotherapy

CRISPR – advances in
gene-editing

Mobile technology to
improve health

Microbiome

Regenerative medicine –
tissue engineering

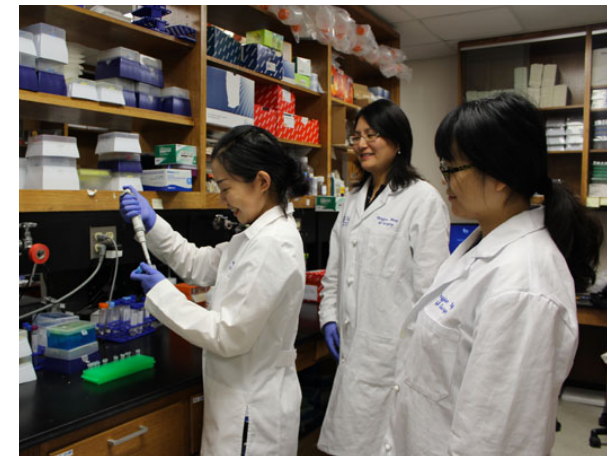
Aging research - 1
million South Carolinians
will be older than 65 by
2029.

Addiction research –
great strength at MUSC
- urgent with opioid
deaths quadrupled
between 1999 and 2013.



MUSC is dedicated to engaging community members in all aspects of the research process to promote health, reduce the risk of illness and disease, and build community resilience to help transform health care.

- Community-engaged research pilot project program funds partnerships between MUSC researcher and community organizations
- Safety and effectiveness of three blood-thinning drugs used to prevent potentially deadly blood clots in patients undergoing hip and knee replacement with PCORI funding
- 21st Century Cures: MUSC partnering with advocacy groups and single state agency to assess various approaches to addressing opioid dependence statewide
- Department of Justice award will fund treatment for Emanuel AME church congregation to help establish a resiliency center that will serve that will serve as a hub to connect those affected by the violence to recover.



MUSC Funded Projects by PCORI Research Priority Areas

1

Assessment of Prevention, Diagnosis, and Treatment Options

- Vincent Pellegrini, College of Medicine, Orthopaedics
- David Morrisette, College of Health Professions
- Gerard Silvestri, College of Medicine, Department of Medicine
- Ramin Eskandari, College of Medicine, Neurosurgery
- Richard Silver, College of Medicine, Department of Medicine

2

Accelerating PCOR and Methodological Research

- Leslie Lenert, Biomedical Informatics Center

3

Improving Healthcare Systems

4

Addressing Disparities

5

Communication and Dissemination Research



MUSC Funded PCORI Projects

(Includes subawards and completed projects)

Faculty	Fiscal Year	College	Department	Project Title
Vincent Pellegrini	2016-2021	Medicine	Orthopaedics	Comparative Effectiveness of Pulmonary Embolism Prevention after Hip and Knee Replacement (PEPPER): Balancing Safety and Effectiveness
David Morrisette	2015-2020	Health Professions	Research Division	Targeted Interventions to Prevent Chronic Low Back Pain in High Risk Patients: A Multi-Site Pragmatic RCT
Leslie Lenert	2015-2018	Medicine	Biomedical Informatics Center	Mid-South Clinical Data Research Network (PCORI CDRN)
Gerard Silvestri	2015-2020	Medicine	Medicine, Division of Pulmonary	Pragmatic Trial of More versus Less Intensive Strategies for Active Surveillance of Patients with Small Pulmonary Nodules
Richard Silver	2014-2017	Medicine	Medicine, Division of Rheumatology	Taking Charge of Systemic Sclerosis: Improving Patient Outcomes through Self-Management
Michelle Woodbury	2016-2017	Health Professions	Research Division	Partnership for Physical Rehabilitation Post-Stroke
Jin Seo	2015-2016	Health Professions	Research Division	Partnership for Physical Rehabilitation Post-Stroke
Ramin Eskandari	2015-2018	Medicine	Neurosurgery	Posterior Fossa Decompression With or Without Duraplasty for Chiari Type I Malformation With Syringomyelia
Completed - Pamela Williams	2012-2013	Nursing	Nursing	A Community Partnership Approach for Advancing Burden Measurement in Rare Genetic Conditions



Bringing Science to the Community

MUSC Science Café Series brings the community together with MUSC scientists in a casual setting.

Latest research, faces behind the science, and opportunities for dialogue

Come join the conversation about issues such as:

- Alzheimer's Disease
- Genetics
- Drug Discovery
- Human Microbiome
- Melanoma
- Opioid Addiction
- Fibrosis
- Nanotechnology
- Sickle Cell Disease
- Antioxidants

