

Kevin Kilgore, Brian Smith and Cindy Chestek Awarded \$12.5M Grant from NIH SPARC Program

9/19/2022

Kevin Kilgore, PhD, staff scientist in the MetroHealth Center for Rehabilitation Research, and the Departments of Orthopedics and Physical Medicine and Rehabilitation (PM&R), was awarded a Multiple Principal Investigator (MPI), three-year, \$12.5 million National Institutes of Health grant entitled "The Cleveland Open Source Modular Implant Innovators Community (COSMIIC)."

Dr. Kilgore is the contact Principal Investigator (PI). Brian Smith, BSc (Hons), Department of Biomedical Engineering (BME) at Case Western Reserve University (CWRU), and Cindy Chestek, PhD, Department of BME at the University of Michigan, are MPIs.



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The goal of this grant is to establish the first open source, modular network of active implantable devices for use in pre-clinical and early feasibility human research, and to provide ongoing support for this technology through a vibrant, sustainable community of users. The concept is based on a modular implantable system, the Networked Neuroprosthesis (NNP), that was developed at CWRU by Kevin Kilgore, Brian Smith, and P.

Hunter Peckham, PhD. The COSMIIC project will also develop new modules that significantly expand the capacity of the original NNP System for application to a broad range of diseases and disabilities.

The award was made through the NIH Stimulating Peripheral Activity to Relieve Conditions (SPARC) program under the U41 mechanism. The project includes a broad investigative team in Cleveland at CWRU, The MetroHealth System, the VA Northeast Ohio Healthcare System, and the Cleveland Clinic Lerner College of Medicine, as well as investigators at the University of Michigan and the University of California, Los Angeles.

Dr. Kilgore is Professor of Orthopedics and PM&R at CWRU; Smith is Director of Active Implantable Systems, Department of BME at CWRU; and Dr. Chestek is Associate Professor of BME at the University of Michigan.

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