Gene Civillico, Ph.D., is the Program Manager for Stimulating Peripheral Activity to Relieve Conditions (SPARC), a Program of the NIH Common Fund. SPARC seeks to use the latest anatomical, physiological, and computational methods, including predictive simulations, to drive mechanistic target development for neuromodulation of organ function via peripheral nerves. Dr. Civillico earned his Ph.D. in neuroscience at the University of Pennsylvania School of Medicine, studying sensory integration in the rodent cerebral cortex using extracellular recording and voltage-sensitive dye imaging in vivo. He received postdoctoral training in cerebellar physiology and two-photon microscopy techniques at the Princeton Neuroscience Institute. In 2009 Dr. Civillico joined Otsuka Maryland, where, in partnership with Cambridge-based Galenea Corporation, he led a small team using a novel functional screening instrument to search for modulators of synaptic vesicle cycling in prefrontal cortical neurons in culture. Before joining the Office of the NIH Director and SPARC, Dr. Civillico had been at FDA's Center for Devices and Radiological Health since 2011, where he developed a research portfolio in the Office of Science and Engineering Laboratories targeted at common problems in the translation of neuroengineering research concepts into clinical solutions. Dr. Civillico continues this work via a guest affiliation at FDA/CDRH/OSEL. His first research experience involved building biophysically realistic compartmental models of olfactory bulb neurons as an undergraduate thesis.