

Grant Number	PI Name	PI e-mail address	Institution	Project Title & CRISP Hyperlink	Project Duration	Neural Interfaces Area
R01NS045072	Bellamkonda, Ravi V	ravi@gatech.edu	Georgia Institute of Technology	Strain-induced scarring & its effects on microelectrodes	Project Start: 15-DEC-2002 Project End: 31-MAY-2008	tissue/device interface
R44NS051926	Bendett, Mark P	mark.bendett@aculight.com	Aculight Corporation	Development of an optical brain/nerve stimulator	Project Start: 01-JUN-2005 Project End: 31-MAY-2008	optical interfaces
R03NS054783	Bikson, Marom	bikson@ccny.cuny.edu	City College of New York	Mechanisms of Deep Brain Stimulation: Joule Heating and Electroporation	Project Start: 07-MAR-2007 Project End: 28-FEB-2009	deep brain stimulation
R01NS049307	Blumenfeld, Hal	hal.blumenfeld@yale.edu	Yale University	Neuronal firing and neuroimaging in spike-wave seizures	Project Start: 01-JUL-2004 Project End: 31-MAR-2008	neural imaging
R44NS049687	Cogan, Stuart F	scogan@eiclabs.com	EIC Laboratories, Inc.	Functionalized Coatings for Enhanced Neural Interfaces	Project Start: 20-AUG-2004 Project End: 31-AUG-2008	electrode materials and technology
K23NS052523	Cooper, Scott E	coopers@ccf.org	Cleveland Clinic Lerner Col/Med-CWRU	Time Course of Subthalamic Deep Brain Stimulation	Project Start: 01-SEP-2007 Project End: 31-AUG-2012	deep brain stimulation
R01NS040902	Corcos, Daniel M	dcorcos@uic.edu	University of Illinois at Chicago	STN Stimulation - Neural Control of Movement and Posture	Project Start: 30-SEP-2000 Project End: 31-AUG-2010	deep brain stimulation
F30NS050913	Cowan, Thomas M	cowan@cwru.edu	Case Western Reserve University	Assistive Device Control With Brain Surface Signals	Project Start: 01-JAN-2005 Project End: 31-DEC-2009	brain computer/machine interfaces
R01NS041811	Dichter, Marc A	dichter@mail.med.upenn.edu	University of Pennsylvania	An implantable device to predict and prevent seizures	Project Start: 15-AUG-2001 Project End: 30-APR-2012	seizure prediction/control
R01NS049516	Dimarco, Anthony F	afd3@case.edu	Case Western Reserve University	Spinal Cord Stimulation to Restore Cough In Humans	Project Start: 15-SEP-2004 Project End: 31-AUG-2008	spinal cord stimulation
R37NS025074	Donoghue, John P	john_donoghue@brown.edu	Brown University	Static and Dynamic Organization of Primate Motor Cortex	Project Start: 01-JUL-1987 Project End: 30-APR-2009	brain machine/computer interface
K25NS053544	Dorval, Alan D	alan.dorval@duke.edu	Duke University	Career Development:Mechanisms of Deep Brain Stimulation	Project Start: 01-JAN-2006 Project End: 31-DEC-2010	deep brain stimulation
R01NS032845	Durand, Dominique M	dx6@p0.cwru.edu	Case Western Reserve University	Nerve Reshaping for Improved Electrode Selectivity	Project Start: 01-JUN-1994 Project End: 30-JUN-2010	peripheral nerve interfaces
R44NS041113	Eckhardt, Helmut	eckhardt@premitec.com	Premitec, Inc.	Insulating Coatings for Implant Devices and Ribbon Cables	Project Start: 01-NOV-2000 Project End: 31-MAR-2009	electrode materials and technology
R37NS012542	Fetz, Eberhard E	fetz@u.washington.edu	University of Washington	Neural Control of Muscle Activity	Project Start: 30-SEP-1978 Project End: 31-MAY-2010	brain machine/computer interface
K23NS052557	Foote, Kelly D	foote@neurosurgery.ufl.edu	University of Florida	Use of Two DBS Electrodes to Treat Post-Traumatic Tremor	Project Start: 04-SEP-2006 Project End: 31-AUG-2011	deep brain stimulation
R21NS054161	Gall, Kenneth	ken.gall@mse.gatech.edu	Georgia Institute of Technology	Multifunctional Polymer Neuronal Probes	Project Start: 01-AUG-2006 Project End: 30-JUL-2008	electrode materials and technology
R01NS044592	Gibson, Alan R	agibson@chw.edu	St. Joseph's Hospital and Medical Center	Influence of the Basal Ganglia on Cerebellar Action	Project Start: 01-JAN-2004 Project End: 31-DEC-2007	deep brain stimulation
R01NS059312	Gray, Charles M	cmgray@nervana.montana.edu	Montana State University (Bozeman)	Prosthetic System for Distributed Neuronal Recording	Project Start: 01-MAR-2007 Project End: 28-FEB-2012	implantable device technology
R01NS046407	Graziano, Michael S	graziano@princeton.edu	Princeton University	Sensory-motor Integration in the Primate Cortex	Project Start: 01-APR-2004 Project End: 31-MAR-2009	neural information processing
R21NS055320	Grill, Warren M	warren.grill@duke.edu	Duke University	Non-Regular Stimulation Patterns For Deep Brain Stimulation	Project Start: 01-JUL-2006 Project End: 30-JUN-2008	deep brain stimulation
R01NS050514	Grill, Warren M.	warren.grill@duke.edu	Duke University	Neural Prosthetic Control of Continence and Micturition	Project Start: 01-JAN-2005 Project End: 31-DEC-2009	functional electrical stimulation - bladder
R21NS054048	Grill, Warren M.	warren.grill@duke.edu	Duke University	Low Impedance Electrodes for Neural Stimulation	Project Start: 01-JUN-2007 Project End: 31-MAY-2009	electrode materials and technology
R01NS053561	Harris, John G	harris@cnel.ufl.edu	University of Florida	An ultra-low power wireless neural recording implant based on a novel pulse representation	Project Start: 15-FEB-2007 Project End: 31-JAN-2011	implantable device technology
R01NS045853	Hatsopoulos, Nicholas G	nicho@uchicago.edu	University of Chicago	Coding of action by motor & premotor cortical ensembles	Project Start: 01-JUL-2004 Project End: 30-JUN-2008	neural information processing
R44NS054346	Hetke, Jamille F	jfh@neuronexustech.com	Neuronex Technologies	Deep Brain Microelectrode Array for Functional Neurosurgery	Project Start: 15-MAR-2006 Project End: 31-JUL-2009	deep brain stimulation- mapping
R43NS057845	Ignagni, Anthony R	aignagni@synapsebiomedical.com	Synapse Biomedical, Inc.	Development of Natural Orifice Transluminal Endoscopic Neurostimulation	Project Start: 01-JUN-2007 Project End: 31-MAY-2009	functional electrical stimulation- ventilation
R01NS052407	Jansen, E Duco	duco.jansen@vanderbilt.edu	Vanderbilt University	Optical stimulation of neural tissue	Project Start: 15-JUL-2005 Project End: 31-MAY-2010	optical interfaces
R44NS048706	Kennedy, Philip R	pkennedy@neuralsignals.com	Neural Signals, Inc.	Implant Design and Development for Human Cortical Recording	Project Start: 01-MAY-2004 Project End: 31-JAN-2008	brain machine/computer interface
N01NS052365	Kirsch, Robert	rfk3@case.edu	Case Western Reserve University	Restoration of Hand and Arm Funcion by Functional Neuromuscular Stimulation	Contract	functional electrical stimulation - limb
R01NS039456	Knierim, James J	james.j.knierim@uth.tmc.edu	University of Texas Hlth Sci Ctr Houston	Multi-Site Analysis of Hippocampal Neuronal Ensembles	Project Start: 01-DEC-1999 Project End: 28-FEB-2008	neural information processing
R01NS054314	Liang, Hualou	hualou.liang@uth.tmc.edu	University of Texas Hlth Sci Ctr Houston	Quantitative Tools for Analyzing Brain Circuits	Project Start: 15-JUL-2005 Project End: 30-APR-2009	neural information processing
R01NS048598	Litt, Brian	littb@mail.med.upenn.edu	University of Pennsylvania	Evolution of seizure precursors in refractory epilepsy	Project Start: 03-AUG-2005 Project End: 31-JUL-2009	seizure prediction/control
R01NS054199	Mackinnon, Colum D	c-mackinnon@northwestern.edu	Northwestern University	Control of Repetitive Movement in Parkinson's Disease	Project Start: 25-MAY-2006 Project End: 30-APR-2010	deep brain stimulation
R01NS054121	McCreery, Douglas B	dougmc@hmri.org	Huntington Medical Research Institutes	Arrays for deep brain microstimulation and recording	Project Start: 01-AUG-2007 Project End: 31-JUL-2011	deep brain stimulation
R01NS059736	Mcintyre, Cameron	mcintyc@ccf.org	Cleveland Clinic Lerner Col/Med-CWRU	Model-Based Optimization of Clinical Deep Brain Stimulation	Project Start: 01-JUL-2007 Project End: 30-JUN-2012	deep brain stimulation
R01NS047388	Mcintyre, Cameron C	mcintyc@ccf.org	Cleveland Clinic Lerner Col/Med-CWRU	Systems Level Model of Deep Brain Stimulation	Project Start: 01-APR-2005 Project End: 31-MAR-2009	deep brain stimulation
R01NS048845	Miller, Lee E	lm@northwestern.edu	Northwestern University	Development of a Bidirectional Brain Machine Interface	Project Start: 01-MAY-2005 Project End: 30-APR-2009	brain machine/computer interface
R01NS053603	Miller, Lee E	lm@northwestern.edu	Northwestern University	Primate model of an intracortically controlled FES prost	Project Start: 01-JAN-2006 Project End: 31-DEC-2010	brain machine/computer interface
R01NS046375	Mogul, David J	mogul@iit.edu	Illinois Institute of Technology	Nonlinear Electrical Control of Epilepsy	Project Start: 01-JAN-2005 Project End: 31-DEC-2007	seizure prediction/control

F32NS051013	Moritz, Chet T	cmoritz@u.washington.edu	University of Washington	Cortical signals restore functional muscle activation	Project Start: 01-AUG-2005 Project End: 31-JUL-2008	brain machine/computer interface
R01NS055312	Muthuswamy, Jit	jit@asu.edu	Arizona State University-Tempe Campus	Single neuronal recordings using movable microphones	Project Start: 01-MAR-2007 Project End: 28-FEB-2011	implantable device technology
R01NS039677	Normann, Richard A	normann@utah.edu	University of Utah	Multisite, intrafascicular stimulation for stance.	Project Start: 28-JAN-2000 Project End: 30-APR-2009	functional electrical stimulation - standing
U54NS048126	Nudo, Randolph J	rnudo@kumc.edu	University of Kansas Medical Center	Cortical Stimulation to Enhance Recovery after Stroke	Project Start: 01-SEP-2005 Project End: 31-MAY-2009	therapeutic neural stimulation
K23NS044997	Okun, Michael S	okun@neurology.ufl.edu	University of Florida	DBS Effects on Mood and Cognition in Parkinsons Disease	Project Start: 01-SEP-2003 Project End: 30-APR-2008	deep brain stimulation
R21NS056022	Osorio, Ivan	iosorio@kumc.edu	University of Kansas Medical Center	Phase resetting using DC stimulation for seizure blockage	Project Start: 01-SEP-2006 Project End: 31-MAR-2008	seizure prediction/control
R21NS047516	Oweiss, Karim G	koweiss@msu.edu	Michigan State University	Advanced Microsystems for Neural Information Processing	Project Start: 01-SEP-2006 Project End: 28-FEB-2008	neural signal processing technology
R21NS054148	Oweiss, Karim G	koweiss@msu.edu	Michigan State University	Mining Large-Scale Neural Ensemble Recordings	Project Start: 15-JAN-2007 Project End: 31-DEC-2011	neural signal processing technology
R01NS041509	Perlmutter, Joel S	joel@npg.wustl.edu	Washington University	Mechanism of Deep Brain Stimulation	Project Start: 20-AUG-2004 Project End: 31-JUL-2008	deep brain stimulation
R01NS052566	Phillips, Micheal D		Cleveland Clinic Lerner Col/Med-CWRU	fMRI Evaluation of DBS in Parkinson's Disease	Project Start: 15-AUG-2006 Project End: 31-MAY-2010	deep brain stimulation - imaging
R44NS047952	Pryce Lewis, Hilton G	hilton@gvdcorp.com	GVD Corporation	Coatings for Biostable Chronic Neural Prostheses	Project Start: 15-APR-2004 Project End: 31-MAR-2009	electrode materials and technology
R44NS049703	Riso, Ronald R	rriso@innersea.com	Innersea Technology	LCP Nerve Cuff with Telemetry for Prosthetic Sensation	Project Start: 15-SEP-2004 Project End: 31-MAR-2009	functional electrical stimulation- somatosensory
R01NS042936	Rothman, Steven M	rothman@kids.wustl.edu	Washington University	New Strategies for Neocortical Epilepsy	Project Start: 01-APR-2003 Project End: 31-MAR-2008	seizure prediction/control
R01NS048844	Rybak, Ilya A	rybak@drexel.edu	Drexel University	Spinal Control of Locomotion: Studies and Applications	Project Start: 03-MAY-2006 Project End: 30-APR-2011	neural circuitry for movement
R01NS050582	Sackellares, James Chris	csackellares@optmaneuro.com	University of Florida	On Line Real Time Seizure Prediction	Project Start: 19-JUL-2005 Project End: 28-FEB-2010	seizure prediction/control
R01NS045049	Schlaug, Gottfried	gschlaug@bidmc.harvard.edu	Beth Israel Deaconess Medical Center	Facilitators of Motor Recovery Following Stroke	Project Start: 01-JAN-2004 Project End: 31-DEC-2007	therapeutic neural stimulation
R01NS047356	Schwartz, Andrew B.	abs21@pitt.edu	University of Pittsburgh at Pittsburgh	Cortical Processing of Movement Perception	Project Start: 15-MAY-2004 Project End: 28-FEB-2009	neural information processing
R01NS050256	Schwartz, Andrew B.	abs21@pitt.edu	University of Pittsburgh	Cortical Control of a Dextrous Prosthetic Hand	Project Start: 18-SEP-2006 Project End: 31-AUG-2011	brain machine/computer interface
R01NS044287	Shain, William G	shain@wadsworth.org	Wadsworth Center	Brain Prostheses: Promoting High Neuron Connectivity	Project Start: 01-JUL-2003 Project End: 31-MAY-2008	tissue/device interface
R01NS054283	Shenoy, Krishna V	shenoy@stanford.edu	Stanford University	CRCNS: Extracting Dynamical Structure Embedded in Motor Preparatory Activity	Project Start: 01-SEP-2005 Project End: 31-AUG-2010	brain machine/computer interface
R01NS019950	Simons, Daniel J.	cortex+@pitt.edu	University of Pittsburgh at Pittsburgh	Neoronal Integration in the Neocortex	Project Start: 01-JUL-1983 Project End: 30-JUN-2008	neural information processing
K08NS060223	Slutzky, Marc W	msslutzky@md.northwestern.edu	Northwestern University	Action Potentials vs. Field Potentials as Inputs to a Brain-Machine Interface	Project Start: 01-AUG-2007 Project End: 30-JUN-2012	brain computer/machine interfaces
N01NS042362	Solzbacher, Florian	solzbach@ece.utah.edu	University of Utah	Chronic Microelectrode Recording Arrays...		Contract electrode materials and technology
R01NS048285	Stanley, Garrett B	gstanley@deas.harvard.edu	Harvard University	Nonlinear Thalamocortical Transformations	Project Start: 30-SEP-2004 Project End: 30-JUN-2008	neural information processing
R01NS051671	Tai, Changfeng	ctai@pitt.edu	University of Pittsburgh	Locomotion Control by Lumbar Spinal Cord Stimulation	Project Start: 10-JAN-2006 Project End: 31-DEC-2008	neural circuitry for movement
R01NS046770	Tresco, Patrick A	patrick.tresco@utah.edu	University of Utah	CNS Response to Implanted Materials	Project Start: 01-DEC-2004 Project End: 30-NOV-2008	tissue/device interface
R01NS040547	Triolo, Ronald J	ronald.triolo@case.edu	Case Western Reserve University	Automatic Control of Standing Balance with FNS	Project Start: 21-SEP-2000 Project End: 31-JAN-2010	functional electrical stimulation - standing
R43NS054332	Tucker, Timothy J	ttucker@tdt.com	Tucker-Davis Technologies, Inc.	A High Throughput System for Multichannel Neurophysiology	Project Start: 15-APR-2006 Project End: 31-MAR-2008	data acquisition technology
R21NS053798	Tyler, Dustin J	dustin.tyler@case.edu	Case Western Reserve University	Stimulus-responsive, Mechanically-dynamic Nanocomposite for Cortical Electrodes	Project Start: 01-AUG-2006 Project End: 30-JUN-2008	electrode materials and technology
R21NS058705	Tyler, Dustin J	dustin.tyler@case.edu	Case Western Reserve University	Peripheral Nerve Implementation of Functional Neuroprostheses	Project Start: 01-AUG-2007 Project End: 31-JUL-2009	peripheral nerve interfaces
R43NS060269	Vetter, Rio J	rvetter@neuronexustech.com	Neuronex Technologies	Deep Brain Stimulation Array for Neuromodulation	Project Start: 01-AUG-2007 Project End: 31-JUL-2008	deep brain stimulation
K23NS055000	Walter, Benjamin L	WALTERB@ccl.org	Cleveland Clinic Lerner Col/Med-CWRU	fMRI Study of the Effects of DBS in Primary Generalized Dystonia	Project Start: 17-APR-2006 Project End: 28-FEB-2011	deep brain stimulation - imaging
R21NS056136	Weber, Douglas J	djw50@pitt.edu	University of Pittsburgh at Pittsburgh	A New Animal Model for Developing a Somatosensory Neural Interface	Project Start: 15-MAR-2007 Project End: 28-FEB-2009	functional electrical stimulation- somatosensory
R41NS058244	Weiland, James D	jweiland@doheny.org	Second Sight Medical Products, Inc.	Hermetic Nanowire Interconnects for Neural Prostheses	Project Start: 01-SEP-2007 Project End: 31-JUL-2009	implantable device technology
R01NS052514	Welsh, Robert C	rcwelsh@umich.edu	University of Michigan at Ann Arbor	Cortex Changes in Real/Imagined Movement in ALS	Project Start: 30-SEP-2007 Project End: 31-MAY-2011	neural information processing
R01NS052233	Wheeler, Bruce C	bwheeler@uiuc.edu	University of Illinois Urbana-Champaign	Engineering Form and Function in Neuronal Networks	Project Start: 03-MAY-2006 Project End: 30-APR-2011	cultured neuronal networks
R01NS037501	Whitsetl, Barry L	bwhitsetl@med.unc.edu	University of North Carolina Chapel Hill	Stimulus-Specific SI Corticocortical Interactions	Project Start: 01-APR-2000 Project End: 31-MAR-2008	neural information processing
R01NS054976	Wichmann, Thomas	twichma@emory.edu	Emory University	Local field potentials in the basal ganglia	Project Start: 19-JUN-2006 Project End: 30-APR-2011	deep brain stimulation
K23NS047495	Worrell, Gregory A	worrell.gregory@mayo.edu	Mayo Clinic Coll of Medicine, Rochester	Epileptiform oscillations, EEG & seizure prediction	Project Start: 01-JAN-2004 Project End: 31-DEC-2008	seizure prediction/control
Y1NS200606			U.S. Department of Veterans Affairs	Deep Brain Stimulation with VA on Parkinson Diseases		deep brain stimulator