

Funding Sources

Current Funding

NIH/ NINDS 1-R01-NS-099348-010 (Litt; Bassett) 01/09/2016 – 31/08/2021
Virtual Resection to Treat Epilepsy

NIH/ NINDS 1T32NS091006 (Litt) 07/01/2015-06/30/2020
Training Program in Neuroengineering and Medicine

Mirowski Family Foundation Grant (Litt) 12/31/2011 – 12/30/2018
Flexible Active Electronics and a New Generation of Antiepileptic Devices

1U01NS092595-01A1 (Bebin) 06/01/2016-05/31/2021
Preventing Epilepsy Using Vigabatrin in Infants with Tuberous Sclerosis

CDMRP, Epilepsy Research Program (Wolf) 09/30/2016-09/29/2019
Diffuse and Focal Brain Injury in a Large Animal Model of PTE: Mechanisms Underlying Epileptogenesis

Jonathan Rothberg Grant (Litt) 01/01/2018-12/31/2020
Accelerate localizing epileptic networks noninvasively and predicting medication response in epilepsy

The Neil and Barbara Smit Fund (Litt) 06/01/2015-12/31/18
Develop and test high resolution implantable brain devices to more effectively map and modulate brain activity

NIH RO1 (Worrell) 05/15/2015-03/31/2020
Reliable Seizure Prediction Using Physiological Signals and Machine Learning

NIH UH2 NS095495-01 (Worrell) 09/30/15-08/31/20
Neurophysiologically Based Responsive Brain State Tracking & Modulation in Focal Epilepsy

NINDS/NIH/DHHS 3R25NS06574505S3 (Detre) 09/01/2014 – 08/31/2019
Research Training Program In Disease-Oriented Neuroscience

Pennsylvania Health Research Formula Fund 06/01/18 – 05/31/22
Virtual Cortical Resection for Epilepsy Using Stereo EEG

Completed Funding

- 1) Dana Foundation Research Fellowship, 1987
- 2) Merritt-Putnam Fellowship Grant Award, Epilepsy Foundation of America, 1991
- 3) William Gowers Research Fellowship Grant Award, Epilepsy Foundation of America, 1992
- 4) Emory-Georgia Tech Biomedical Engineering Research Grant 1997-1999

- 5) Epilepsy Foundation Junior Investigator Research Fellowship Award 1998
- 6) Epilepsy Foundation Of America Junior Investigator Research Grant 1999
- 7) University of Pennsylvania Research Foundation 2000
- 8) American Epilepsy Society Research Initiative Award 2000-2001
- 9) Whitaker Foundation Biomedical Engineering Research Grant 2000-2003
- 11) American Epilepsy Society Grant 2000-2002
- 12) American Epilepsy Society Research Grant for Innovative Research 2001-2002
- 13) National Institutes of Health 2001-2003
- 14) Sponsored Research Grant, Neuropace, Inc. 2001-2007
- 15) Dana Foundation Research Award, Brain-Cardiac Interface 2001-2008
- 16) National Institutes Of Health Grant 2002
- 17) Dreifuss-Penry Award, American Academy of Neurology 2003
- 18) Epilepsy Foundation Grant 2003-2004
- 19) Partnership for Pediatric Epilepsy Research 2003-2005
- 20) CURE Grant 2004
- 21) Whitaker Foundation Biomedical Engineering Transitional Award 2004-2005
- 22) Klingenstein Foundation Research Award in the Neurosciences 2004-2009
- 23) Pennsylvania Tobacco Fund Grant 2005-2010

- 24) Epilepsy Research Foundation Grant 2006-2007
- 25) NIH Conference Grant 2007
- 26) NIH/NCI R01CA084438 (Guo) 6/1/2009-5/31/2010
New functional models for Biomedical Data
- 27) Dana Foundation (Kahana) 02/01/2008-01/31/2011
Intracranial EEG for Theta Rhythm Contingency During Cognitive Tasks
- 28) NIH/NINDS R01NS48598 (Litt) 8/1/2005-7/31/2011
Evolution of Seizure Precursors in Epilepsy
- 29) NIH 1R21NS067316 (Kahana) 9/30/2009-8/31/2011
Intracranial EEG for Neuronal Oscillatory Contingency during Cognitive Tasks
- 30) NIH/NINDS R01NS041811 (Dichter) 05/01/2007-04/30/2012
An Implantable Device to Predict and Prevent Seizures, Bioengineering Research Partnership
- 31) NIH/NIMH RO1 MH 061975-07A2 (Kahana) 07/01/2007-06/30/2012
Electrophysiology in Human Spatial Cognition
- 32) NIH/NCRR 1S10RR031724-01 (Litt) 09/01/2011-08/31/12
Neuralynx for Translational Research
- 33) NIH 1U01NS073557-01A1 (Worrell) 09/30/2011- 09/29/2012
Neurophysiologically Based Responsive Pharmacotherapy for Epilepsy
- 34) NIH/NINDS RO1 NS 630391 A1 (Worrell) 04/15/2009-3/31/2014
Microseizure, Ultra-slow & High Frequency Oscillations: Biomarkers of Epilepsy
- 35) CURE Foundation Grant (Litt) 07/01/2011-06/30/2014
Flexible, Active, Implantable Devices for Epilepsy
- 36) Penn Medicine Neuroscience Center Grant (Litt) 02/19/2014 – 02/18/2015
Transparent Graphene Electrodes for Simultaneous Electrophysiology and Neural Recording with Single-cell Resolution
- 37) NIH 1P20NS080181-01 (Engel) 07/01/2012 – 06/30/2015
Epilepsy Bioinformatics Study (EpiBioS)
- 38) Penn Medicine Center for Health Care Innovation Grant (Litt) 07/01/2014 – 06/30/2015
An Automated, Cloud-Based Platform for ICU EEG Monitoring and Visualizing Results
- 39) Integra Lifesciences Grant (Lucas) 09/22/2014 – 06/21/2015
CNT-Integra Collaborative Research Project

- 40) NIH/ NINDS 1U24NS063930-01A1 (Litt) 02/15/2010 – 01/31/2016
The International Epilepsy Electrophysiology Database
- 41) NINDS/NIH/DHHS K01ES025436 (Wagenaar) 09/29/2014 – 06/30/2018
Developing Cloud-Based Tools For Big Neural Data
- 42) DARPA W31P4Q-14-1-005 (Rogers) 06/26/14-06/30/16
Transient Silicon Electronic Interfaces to the Brain
- 43) Brain Research Foundation Grant (Litt) 01/01/2013 – 12/31/2016
Nanodevices for Treating Neurological Disease
- 44) Brain & Behavior Research Foundation Grant (Litt) 03/15/2013 – 03/14/2017
Nanodevices to Treat Brain Network Disorders
- 45) Medtronic Inc. Grant (Litt) 09/23/14 – 2/22/17
A Collaboration to link the IEEG.org Portal with Medtronic Explore Cloud
- 46) NINDS 5T32NS043126-12 (Smith) 07/01/02-6/30/18
Brain Injury Training Grant
- 47) U01 NS094340 01 (Cullen) 09/03/2015-07/31/2018
Biological Living Electrodes Using Tissue Engineered Axonal Tracts to Probe and Modulate the Nervous System