Neuromodulation: Technology at Neural Interface Editorial Board Members
Conflict of Interest Disclosures

Thomas Abell, MD
Consultant/Advisory Board: Censa, Nuvaira

Alaa Abd-Elsayed, MD
Consultant/Advisory Board: Medtronic and Avanos

Jeff Arle, MD, PhD, FAANS
Speaker Programs: Boston Scientific, LivaNova/Cyberonics
Consultant/Advisory Board Income: Medtronic, Boston Scientific, Saluda Medical
Education/Research Income: Boston Scientific, Medtronic, Abbott

Tipu Aziz, MD, MBBS
Speaker Programs: Boston Scientific, Medtronic, Abbott
Consultant/Advisory Board Income: Medtronic
Education/Research Income: Boston Scientific, Medtronic, Abbott

Giancarlo Barolat, MD
Speaker Programs: Boston Scientific, Nevro
Company Employee: Microleads, DeFuse
Consultant/Advisory Board Income: Galvani Bioelectronics, Medtronic, Microleads, DeFuse
Stock Options: Microleads, DeFuse

Jocelyne Bloch, MD
Speaker Programs: GTX
Consultant/Advisory Board: GTX
Company Employee: GTX
Intellectual Property: GTX
Education/Research Grants: GTX
Stockholder: GTX

Stana Bojanic, BSc, MBBS: Nothing to Disclose

Helen Bronte-Stewart, MD MSE
Speaker Program: Medtronic
Consultant/Advisory Board: Medtronic

Eric Buchser, MD, DEAA
Consultant/Advisory Board Income: Medtronic

Jin Woo Chang, MD, PhD: Nothing to Disclose

Jiande Chen, PhD: Nothing to Disclose
Arthur Cukiert, MD, PhD: Nothing to Disclose

Dirk De Ridder, MD
Speaker Program: Abbott
Consultant/Advisory Board: Abbott
Intellectual Property / Licensing: Burst stimulation IP is licensed to Abbott
Education/Research Grants: Abbott

Catherine DeAngelis, MD, MPH: Nothing to Disclose

Timothy Deer, MD
Consultant/ Advisory Board: Abbott, Axonics, Boston Scientific, Medtronic, Nalu, Nevro, Saluda Medical, Vertiflex, Vertos, Flowonix, SpineThera, Cornerloc, Ethos, SPR Therapeutics, Stimgenics, SI Bone, PainTeq
Intellectual Property: Abbott
Education/Research Income: Abbott, Mainstay, Saluda, Vertiflex, Vertos, SPR Therapeutics, Boston Scientific
Stockholder: Ethos
Stock Options Value: Axonics, Bioness, Nalu, Vertos, Vertiflex, Saluda, Spinethera

Laura Demartini, MD
Speaker Programs: Abbott, Boston Scientific,
Consultant/Advisory Board: Boston Scientific

Mike JL DeJongste MD, PhD, FESC: Nothing to Disclose

Rui Duarte, MSc, PhD
Consultant/Advisory Board: Boston Scientific, Medtronic, Mainstay Medical, Saluda Medical

Sam Eldabe, MBBS
Consultant / Advisory Board: Abbott, Mainstay, Medtronic, Saluda Medical
Education/Research Grants: Boston Scientific, Medtronic
Stockholder: Electrocore

James J. Fitzgerald, MA, BM, BCh, PhD
Consultant / Advisory Board: Abbott, Medtronic
Education/Research Grants: Abbott

Robert Foreman, PhD: Nothing to Disclose

Sean L. Francis, MD: Nothing to Disclose

Felipe Fregni, MD, PhD: Nothing to Disclose
**Chris Gilligan, MD, MBA**
Consultant / Advisory Board: Abbott, Nuvestra, Spine Biopharma, Medtronic, Saluda Medical, Eli Lilly
Medico-Legal Consulting: Endo Pharmaceuticals, McKesson, Teva Pharmaceuticals
Education/Research Grants: Mainstay Medical, Sollis Therapeutics

**Peter Goadsby, MD, PhD, DSc**
Consultant/Advisory Income: Aeon Biopharma, Alder Biopharmaceuticals, Amgen, Allergan, Biohaven Pharmaceuticals, Clexio, Eli Lilly, Teva Pharmaceuticals, Electrocore, eNeura, GlaxoSmithKline, MundiPharma, Novartis, Pfizer, Santara Therapeutics, WL Gore, Gerson Lehrman Group, Guidepoint, Impel Neuropharma, Epalex
Stock Options: Trigemina, Inc.
Educational/Research: Amgen, Celgene, Eli Lilly (all paid to University)
Intellectual Property: eNeura- Magnetic Stim for HA (assigned to eNeura; no fees)

**Warren Grill, PhD**
Consultant / Advisory Board: Axonics, Boston Scientific, Cala Health, Galvani Bioelectronics, SPR Therapeutics, Hatteras Ventures, Broadview Ventures, Dignify Therapeutics
Company Employee: NDI Healthcare Fund, SPR Therapeutics, CheckPoint Surgical, Deep Brain Innovations
Intellectual Property: Galvani Bioelectronics, Deep Brain Innovations
Education / Research: Boston Scientific, LivaNova/Cyneronics, Medtronic, Dignify Therapeutics, EPIC Medical / Platinum Group Coatings
Stock Options : Cala Health, Blackfyn, NDI Health Care Fund, SPR Therapeutics, Deep Brain Innovations

**Robert Gross, MD, PhD**
Consultant/Advisory Board Income: Medtronic
Education/Research Income: Boston Scientific, Medtronic

**Yun Guan PhD, MD**
Speaker Programs: Medtronic
Consultant / Advisory Board: Medtronic
Education/Research Income: Medtronic, TissueTech, Inc.

**Magdy Hassouna, MD, PhD**
Speaker Programs Medtronic
Education / Research: Medtronic

**Salim Hayek, MD, PhD:** Nothing to Disclose

**Jaimie Henderson, MD**
Consultant/Advisory Board Income: Enspire DBS, NeuraLink
Frank Huygen, MD, PhD
Speaker Program: Abbott, Boston Scientific, Medtronic, Saluda
Consultant/Advisory Board: Abbott, Boston Scientific, Saluda, Spinal Modulation
Education/Research Grants: Abbott, Saluda, Spinal Modulation

Bert (E.A.) Joosten PhD
Speaker Programs: Medtronic and Saluda Medical
Consultant/Advisory Board: Medtronic and Saluda Medical
Education/Research Grants: Medtronic, Abbott and Boston Scientific

Leonardo Kapural, MD, PhD
Speaker Program Income: Medtronic, Nevro, Abbott, Nalu, Biotronik, Stimgenics
Consultant/Advisory Board Income: Medtronic, Nevro, Abbott, Nalu, Biotronik, Stimgenics
Medico/Legal: Medtronic, Nevro, Abbott, Nalu, Biotronik, Stimgenics
Education/Research Income: Biotronik, Nevro, Saluda Medical, Gimer
Stockholder Stock Value: Nalu
Stock Options Value: Nalu

Yoichi Katayama, MD, PhD: Nothing to Disclose

Zelma Kiss, MD, PhD: Nothing to Disclose

Charles Knowles, BChir, MA, PhD
Speaker Program Income: Medtronic, Saluda Medical
Consultant/Advisory Board Income: Medtronic
Education/Research Income: Medtronic, Saluda Medical

Shivanand P. Lad, MD, PhD
Consultant/Advisory Board Income: Medtronic, Abbott, Boston Scientific, Mainstay Medical, Nevro, Higgs Boson Health, Minnetronix Medical, Presidio Medical
Education/Research Income: Abbott, Boston Scientific, Mainstay Medical, Medtronic, Nevro
Stock Options: Higgs Boson Health, Minnetronix Medical, Presidio Medical

Kendall Lee, MD, PhD
Speaker Program Income: Medtronic, NaviNetics
Consultant/Advisory Board Income: Medtronic, NaviNetics
Medico-Legal Consulting: Medtronic, NaviNetics
Education/Research Income: Medtronic, NaviNetics, Abbott, Cala Health
Intellectual Property / Licensing: Medtronic, NaviNetics
Stockholder: NaviNetics
Company Employee: NaviNetics

Robert Levy, MD, PhD
Consultant/Advisory Board Income: Saluda Medical, Nalu, Mainstay Medical (last compensation received <3 years prior)
Stock Options: Nalu, Saluda Medical
**Bengt Linderoth, MD, PhD**
Speaker Program Income: Boston Scientific, Medtronic, Abbott, Elekta AB Stockholm (Stereotactics)
Consultant/Advisory Board Income: Boston Scientific, Elekta AB, Medtronic

**John Loeser, MD:** Nothing to Disclose

**Guoming Luan, MD, PhD:** Nothing to Disclose

**Andre Machado, MD, PhD**
Consultant/Advisory Board Income: Abbott, Spinal Modulation:DSMB
Education/Research Income: Medtronic (fellowship support)
Stockholder Stock Value: Autonomic Technologies, Cardionomics, Enspire
Stockholder Stock Value >5%: My wife and I are inventors and our IP is part of the intellectual property base for these companies.
Intellectual Property / Licensing: Autonomic Technologies, Cardionomics, Enspire

**Sean Mackey MD, PhD:** Nothing to Disclose

**Georgios Matis, MSc, PhD:**
Speaker Programs: Boston Scientific
Consultant/Advisory Board: Boston Scientific
Education/Research Grants: Boston Scientific

**Cameron McIntyre, PhD**
Speaker Programs: Boston Scientific
Consultant/Advisory Board Income: Boston Scientific, Surgical Information Sciences, CereGate
Intellectual Property: Boston Scientific, Hologram Consultants, Neuros, Qr8 Health
Stockholder Stock Value: Hologram Consultants, Surgical Information Sciences, CereGate

**Nagy Mekhail, MD, PhD**
Consultant/Advisory Board Income: Abbott, Boston Scientific, Relievant Medsystems, Vivex therapeutics and Solis therapeutics

**Maarten Moens, MD, PhD**
Speaker Programs: Medtronic, Nevro
Consultant/Advisory Board Income: Medtronic
Education/Research Income: Medtronic, Nevro

**Alon Mogilner, MD, PhD**
Consultant/Advisory Board Income: Medtronic, Abbott, Alpha Omega
Education/Research Income: Boston Scientific, Medtronic
**Richard North, MD**
Consultant/Advisory Board Income: The charitable nonprofit Neuromodulation Foundation, of which Dr. North is an unpaid officer, has received grant support and income from industry, including Abbott, Boston Scientific, Medtronic, Nevro, Algostim/NuVectra, and Stimwave. Stockholder Stock Value >5%: Stimwave (3-owned by spouse)
Medico-Legal Consulting: Stimwave/Stimrelieve

**Turo Nurmikko, MD, PhD**
Consultant/Advisory Board Income: Nexstim

**Bart Nuttin, MD, PhD**
Speaker Program Income: Medtronic
Intellectual Property: Medtronic
Education/Research Income: Medtronic

**Joseph Pancrazio, PhD:** Nothing to Disclose

**Erika Petersen, MD**
Speaker Programs: Medtronic, Nevro
Consultant/Advisory Board Income: Abbott, Medtronic, Nevro
Education/Research Grants: Medtronic, Nevro, Neuros, ReNeuron
Stock Options: SynerFuse

**Fabian Piedimonte, MD**
Speaker Programs: Abbott, Medtronic
Consultant/Advisory Board Income: Abbott, Medtronic

**Julie Pilitsis, MD, PhD**
Speaker Programs: Boston Scientific, Medtronic, Abbott
Consultant / Advisory Board: Boston Scientific, Medtronic, Abbott, Karuna Labs, Nevro, Saluda Medical, TerSera; AIM Medical Robotics
Education / Research: Boston Scientific, Abbott, Medtronic, Nevro, TerSera; NIH
Stock Options: Karuna Labs, AIM Medical Robotics

**Heather Pinckard-Dover, MD:** Nothing to Disclose

**Ela Plow, PhD, PT:** Nothing to Disclose

**Lawrence Poree, MD PhD**
Consultant/Advisory Board Income: Medtronic, Nalu Medical, Saluda Medical
Education/Research Income: Abbott, Saluda Medical
Stock Options : Nalu, Saluda Medical
Nader Pouratian, MD, PhD
Speaker Programs: BrainLab
Consultant/Advisory Board Income: Abbott, Boston Scientific
Education/Research Income: Abbott, Boston Scientific, Medtronic

Joshua Prager, MD, MS: Nothing to Disclose

James Rathmell, MD: Nothing to Disclose

Ahmed Raslan, MD: Nothing to Disclose

Richard Rauck, MD
Speaker Programs: BDSI
Consultant / Advisory Board: Boston Scientific, Mainstay, BDSI, Saluda
Education/Research Income: Boston Scientific, Medtronic, Nevro, Bioness, Biogen, Seikagaku, Mainstay, Saluda, SPR Therapeutics

Ali Rezai, MD: Nothing to Disclose

Erich Richter, MD: Nothing to Disclose

Edgar Ross, MD
Speaker Program: Bioness, Medtronic
Consultant/Advisory Board Income: Bioness, Biotronik, Medtronic
Education/Research Income: Mainstay Medical, Medtronic

Oren Sagher, MD:
Stockholder: Digital Surgery Systems

Damianos Sakas, MD: Nothing to Disclose

Michael Saulino, MD, PhD
Speaker Program Income: Medtronic, Flowonix, Ipsen, SPR Therapeutics
Consultant/Advisory Board Income: Medtronic
Education/Research Income: Medtronic, Bioness

Ashwini Sharan, MD, FACS
Speaker Program: Medtronic, Cerebral Therapeutic, Neuspera, Neurotargetting
Consultant/Advisory Board: Medtronic
Company Employee: Cerebral Therapeutic, Neuspera, Neurotargetting
Stockholder Stock: Cerebral Therapeutic, Neuspera, Neurotargetting
**Konstantin Slavin, MD**  
Consultant/Advisory Board Income: Boston Scientific, Medtronic, Autonomic Technologies, Bioness, Biotronik, Abbott, Nuvecra, Stimwave  
Stock Options: Stimwave  
Stockholder: Thermaquil  
Education/Research Income: Boston Scientific, Medtronic, Abbott (fellowship support to institution)

**Michael Stanton-Hicks, MBBS, DMED:** Nothing to Disclose

**Monique Steegers, MD, PhD:** Nothing to Disclose

**Takaomi Taira, MD**  
Speaker Program Income: Insightec

**Rod Taylor, MSc, PhD:** Nothing to Disclose

**Simon Thomson, MBBS**  
Speaker Programs: Boston Scientific  
Consultant/Advisory Board: Boston Scientific

**Ricardo Vallejo, MD, PhD**  
Speaker Programs: Avanos, Medtronic  
Consultant/Advisory Board: Medtronic  
Company Employee: CEO of SGX Medical. No commercial product. Performing clinical research  
Intellectual Property: No royalties from any IPs  
Education/Research Grants: SGX Medical (I am the CEO) sponsors animal research  
Stockholder: SGX medical. I am CEO and shareholder. No commercial product.  
Stock Options: SGX medical.

**Maarten van Kleef, MD, PhD:** Nothing to Disclose

**Jan Vesper, MD, PhD**  
Speaker Programs: Abbott, Autonomic Technologies, UniQuire  
Consultant/Advisory Board: Abbott, Boston Scientific  
Education/Research Grants: Medtronic- Devices for a funded multicenter RCT study

**Osvaldo Vilela Jr., MD, PhD**  
Honoraria for educational activities from Medtronic and travel grants from the local representative of Abbott.

**Kristl Vonck, MD, PhD**  
Speaker Programs: LivaNova/Cyberonics  
Consultant/Advisory Board: LivaNova/Cyberonics, Synergia Medical
**Eric Wassermann, MD:** Nothing to Disclose

**Christopher J. Winfree, MD:** Nothing to Disclose