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

Magdalena Anitescu, MD, PhD
Consultant/Advisory Board: Boston Scientific, Medtronic
Speaker Programs: Boston Scientific
Leadership Roles: NANS-director at large, board member, INS-director at large, board member, WIN-past chair, ASRA-resident committee liaison, ASRA Cancer Sig-Chair, ASA PBLD committee chair

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

William Omar Contreras Lópe, MD, PhD:  
Speaker Program and Travel Support: Boston Scientific

Fabián Cremaschi, MD, MSc:  Nothing to Disclose

Arthur Cukiert, MD, PhD:  Nothing to Disclose

Alessandro Dario, MD:  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

Stefan De Wachter, MD, PhD  
Shareholder: Amber Therapeutics, Minzehealth  
Consultant/Advisory Board: Medtronic
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

Tiago da Silva Freitas, MD, PhD: Nothing to Disclose

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

Jay Grider, DO, PhD, MBA: Nothing to Disclose

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/Cyneronis, 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

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

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

Noah Philip, MD  
Grants or Contracts: Device support through VA clinical trial contracts (Wave Neuro), Multisite commercial study, through VA clinical trial contracts. (Neurolief)

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

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

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

Marc Russo, MBBS: Nothing to Disclose

Oren Sagher, MD:
Stockholder: Digital Surgery Systems

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, Nuvectra, 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.

**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

**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