

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

**Thomas Abell, MD**

Consultant/Advisory Board: Censa, NuVaira

**Alaa Abd-Elseyed, 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 López, 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/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

**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, Stingenics  
Consultant/Advisory Board Income: Medtronic, Nevro, Abbott, Nalu, Biotronik, Stingenics  
Medico/Legal: Medtronic, Nevro, Abbott, Nalu, Biotronik, Stingenics  
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 Linderöth, 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, Relieva 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. (Neuroief)

**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