

Program at a Glance

Saturday, 11 May 2024

Pre-Conference Day - Non-invasive brain stimulation: From Pain, to Inflammatory, to Post-Viral Symptoms

		Hall TBC
		<i>Breakfast & Posters</i>
		Session 1
08:30 - 09:00		Neurovascular Modulation: Is the Direct Stimulation of Brain Vasculature as a Therapeutic Mechanism?
09:00 - 12:25		Transcranial Direct Current Stimulation for Inflammatory and Post-infection Disorders
09:00 - 09:35		
09:35 - 10:10		<i>Break & Posters</i>
10:10 - 10:40		
10:40 - 11:15		Image-Guided Non-Invasive Brain Stimulation for Pain and Headache Management
11:15 - 11:50		Transcranial Magnetic Stimulation for Pain, Headache, and Comorbid Depression
11:50 - 12:25		High-Definition tDCS in Acute and Long-Term COVID-19
12:25 - 13:45		<i>Lunch & Posters</i>
13:45 - 17:00		Session 2
13:45 - 14:20		Transcranial Direct Current Stimulation in Older Adults; From Anxiety to Knee Osteoarthritis Pain
14:20 - 14:55		At-Home Transcranial Direct Current Stimulation (tDCS) With Telehealth Support for Symptom Control in Chronically-Ill Patients With Multiple Symptoms
14:55 - 15:30		Repetitive Transcranial Agnetic Stimulation (rTMS) and Transcranial Direct Current Stimulation (tDCS) to Relieve Pain
15:30 - 15:55		<i>Break & Posters</i>
15:55 - 16:30		Non-Invasive Brain Stimulation to Treat Disorders of Human Verticality
16:10 - 16:50		Neuromodulation Circuit Therapeutics
16:50 - 17:00		Closing Comments

Sunday, 12 May 2024

**Pre-Conference Day: Innovations in Neuromodulation (not included in main event CME/CPD credit)
- followed by INS Opening Reception in the Exhibition Area at 18:30**

Legend:

Plenary	Breakout Session	Oral Presentations	Supported Symposium	Special Session
Meeting	Award Ceremony	Networking Event	Exhibit Break/Poster Viewing	

Main Congress

Sunday, 12 May 2024	
18:30 - 19:45	INS Opening Reception in the Exhibition Area

Monday, 13 May 2024					
	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
08:30 - 12:00	Opening Plenary Session				
08:30 - 09:00	Welcome Address				
09:00 - 09:20	Keynote Address				
09:20 - 09:45	Keynote Address				
09:45 - 10:10	Why is Neuromodulation Effective in CRPS?				
10:10 - 10:30	Effects of Deep Brain Stimulation on Brain Function in Obsessive-Compulsive Disorder: From Animal Models to Patients Speaker				
10:30 - 10:55	Break, Posters & Exhibits				
11:00 - 11:20	Spinal Cord and Peripheral Nerve Stimulation for Motor Rehabilitation				
11:20 - 11:40	Invasive Neuromodulation for Motor Recovery in Spinal Cord Injury				
11:40 - 12:00	INS Neurostimulation Appropriateness Consensus Committee 2024: An Update				
12:00 - 12:50	Oral Poster Presentations Five Best Abstracts				
13:00 - 14:30	Lunch, Posters & Exhibits				Lunch Symposium (not included in main event CME/CPD credit) (13.15-14:15)
14:30 - 16:00	Spine – Mechanisms of Action	Neuromodulation for Movement Disorders	Neuromodulation for Neuropsychiatry: Obsessive Compulsive Disorder and Depression	Neuromodulation for Rehabilitation After Stroke	
14:30 - 14:45	Surround Inhibition Mechanism of Action	An In-Depth Analysis of “Asleep” vs. “Awake” DBS – A Neurologist’s Perspective (Argument for awake)	Neuroimaging Biomarkers of Depression	The Current State of Non-Invasive Neuromodulation for Post-Stroke Rehabilitation	
14:45 - 15:00	Role of Spike Synchrony in Perception in the Optimization of SCS	An In-Depth Analysis of “Asleep” vs. “Awake” DBS – A Neurosurgeon’s Perspective (Argument for asleep)	Novel TMS Protocols for Depression	Novel Non-Invasive Neuromodulation Strategies for Post-Stroke Rehabilitation	
15:00 - 15:15	Physiological Effects and Mechanisms of Action of Spinal Cord Stimulation to Treat Pain: Insights from Computational Models and Quantitative Sensory Testing	Directionality in DBS for Movement Disorders – Should Omnidirectional Stimulation be Abandoned?	VNS for Depression: RECOVER Study	Vagus Nerve Stimulation as a Strategy to Augment Stroke Rehabilitation	
15:15 - 15:30	Mechanism of PNS, SCS: Supraspinal Mechanisms and MOA	Electrocorticography in Investigation of Cortico-Subcortical Dynamics	Brain Metabolic Changes and Clinical Response to Superolateral Medial Forebrain Bundle Deep Brain Stimulation for Treatment-Resistant Depression	Motor Cortex Stimulation for Post-Stroke Rehabilitation	
15:30 - 15:45	Potential Mechanisms of Novel Neuromodulation Technologies / Therapy	Dual Threshold Closed Loop DBS in Parkinson Disease	Efficacy of Deep Brain Stimulation for Treatment-Resistant OCD: Systemic Review and Metaanalysis	Deep Brain Stimulation for Post-Stroke Rehabilitation	
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion	
16:00 - 16:30	Break, Posters & Exhibits				
16:30 - 18:20	Oral Poster Presentations				
18:30 - 19:30	Young Neuromodulators’ Reception				

Tuesday, 14 May 2024					
	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
8:30 - 9:30					Breakfast Symposium (not included in main event CME/CPD credit)
09:30 - 12:30	Plenary Session 2	Workshop on Neuromodulation (Nurses, psychologists, physiotherapists)			
09:30 - 10:00	Nature on Brain Machine Interfaces for Language Function				
10:00 - 10:30	Neuromodulation Targets for Psychiatric Disorders: Common Circuits				
10:30 - 11:00	Can Spinal Cord Stimulation Alter the Disease of Chronic Pain?				
11:00 - 11:25	Break, Posters & Exhibits				
11:30 - 12:00	How Neuromodulation Changed the Landscape of Epilepsy Surgery				
12:00 - 12:30	Controversies in Ethics Related to Neurotechnologies				
12:30 - 13:10	INS General Assembly (Members only)				
13:10 - 14:30	Lunch, Posters & Exhibits				Lunch Symposium (not included in main event CME/CPD credit) (13:15 -14:15)
14:30 - 16:00	Spinal Cord Stimulation for Pain Clinical Update	Brain: Epilepsy	Brain: Neuropsychiatry - Novel Applications in Behavioral Neuromodulation	Neuroprosthetics and Neuroregeneration	
14:30 - 14:45	Data on Non-Surgical Back and Experience with Different Waveforms	Neuromodulation for Refractory Epilepsy: Progress Towards Less Invasive Approaches	Deep Brain Stimulation of the Nucleus Accumbens in the treatment of severe alcohol use disorder: A phase I pilot trial	High Performance Speech Neuroprosthesis	
14:45 - 15:00	Restorative Stimulation for Chronic Nonsurgical Low Back Pain	Stimulation of the Thalamus for Arousal Restoral in Temporal Lobe Epilepsy (START) Clinical Trial	Deep Brain Stimulation of the Nucleus Accumbens in Treatment-Resistant Alcohol use Disorder: A Double-Blind Randomized Controlled Multi-Center Trial	Neural Interfaces for Natural Touch Perception	
15:00 - 15:15	T12 Dorsal Root Ganglion Stimulation for Axial Low Back Pain	Multitarget DBS and RNS for Epilepsy	Deep Brain Stimulation of the Nucleus Accumbens for Treatment-Refractory Anorexia Nervosa: A Long-Term Follow-Up Study	Regenerative Peripheral Nerve Interface	
15:15 - 15:30	Should we combine SCS and DRG as Synergistic Modalities to Address Chronic Refractory Pain? Results of BOOST-DRG RCT	Intracranial Neuromodulation in Children with Refractory Epilepsy	Cognitive and Quality-of-Life Related Factors of Body Mass Index (BMI) Improvement after Deep Brain Stimulation in the Subcallosal Cingulate and Nucleus Accumbens in Treatment-Refractory Chronic Anorexia Nervosa	Biohybrid Regenerative Interface	
15:30 - 15:45	Is there any indication for SCS and DRG in Refractory Brachial Plexus Pain?	Vagal Nerve Stimulation in Refractory and Super-Refractory Epileptic Status in Children	Postsurgical Morbidity and Mortality Favorably Informs Deep Brain Stimulation for New Indications including Schizophrenia and Schizoaffective Disorder	High Resolution EMG-Based Prosthetic Control	
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion	
16:00 - 16:30	Break, Posters & Exhibits				
16:30 - 18:20	Oral Poster Presentations				
18:30 - 19:30	International Women in Neuromodulation Reception				

Wednesday, 15 May 2024					
	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
08:30 - 09:30					Breakfast Symposium (not included in main event CME/CPD credit)
09:30 - 12:00	Plenary Session 3				
09:30 - 10:00	INS Polyanalgesic Consensus Conference 2024: Review and Recommendation				
10:00 - 10:30	Low Intensity Ultrasound Neuromodulation as a New Brain Therapy				
10:30 - 11:00	Sub-Threshold Neuromodulation: Everything Old is New				
11:00 - 11:25	Break, Posters & Exhibits				
11:30 - 12:00	ITDD Shall Remain an RCT Free Zone: The Challenges of Research in ITDD – ITDD Day				
12:00 - 12:50	Giant of Neuromodulation Award				
13:00 - 14:30	Lunch, Posters & Exhibits				Lunch Symposium (not included in main event CME/CPD credit) [13:15 -14:15]
14:30 - 16:00	Current Status of Intrathecal Drug Delivery Systems for Cancer-Related Pain	Cutting Edge Research in Noninvasive Brain Stimulation (NIBS)	Low Energy Focused Ultrasound (LiFu)	Neuromodulation for Gastrointestinal Disorders	
14:30 - 14:45	Intrathecal Drug Delivery for Cancer-Related Pain: Pathophysiological Changes and Chemosensitivity after IDDS	Transcranial Magnetic Stimulation of the Visual Cortex: An Update	Potential Mechanisms Supporting Low Intensity Focused Ultrasound for Neuromodulation	Bioelectric Neuromodulation for Gastrointestinal Disorders	
14:45 - 15:00	Intrathecal Drug Delivery for Cancer-Related Pain: A Systematic Review and Meta-Analysis of Clinical Studies	Non-Convulsive Electric Therapy in Patients after Persistent Spinal Pain Syndrome	Low Energy Focused Ultrasound Neuromodulation: Basic and Translational Research	DBS for Obesity	
15:00 - 15:15	Intrathecal Drug Delivery for Cancer-Related Pain: Trunk and Limb Pain	Biophysical Modeling-Driven Minimally Invasive Temporal Interference Stimulation for Epilepsy	Low Intensity Focused Ultrasound for Epilepsy	Transcutaneous Cervical Vagal Nerve Stimulation	
15:15 - 15:30	Intrathecal Drug Delivery for Cancer-Related Pain: Head and Neck Pain	Leveraging Neuromodulation-Induced Brain Plasticity for Improvement in Attention and Working Memory in Mild Traumatic Brain Injury	Low Energy Focused Ultrasound Neuromodulation of the Spinal Cord	TBC	
15:30 - 15:45	Intrathecal Drug Delivery for Cancer-Related Pain: Pain Secondary to Cancer Therapy (Radiation, Chemotherapy, Immunotherapy)	Transcranial Electrical Stimulation in Neuropathic Pain	Low Intensity Ultrasound for Epilepsy—A New Approach to Neuromodulation	Electronic Bypass for Diabetes: Optimization of Stimulation Parameters and Mechanisms of Glucagon-Like Peptide-1	
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion	
16:00 - 16:30	Break, Posters & Exhibits				
16:30 - 18:20	Oral Poster Presentations				

Thursday, 16 May 2024				
	Hall 1	Hall 2	Hall 3	Hall 4
08:00 - 10:00	Peripheral Nerve Stimulation + Non-Epilepsy Vagus Nerve Stimulation	Artificial Intelligence	Neuromodulation for Genitourinary Disorders	Neuromodulation for Neurocardiology
08:00 - 08:15	Optoelectric Vagus Nerve Stimulation	Overview of AI, What it is and What it isn't	New in Sacral Neuromodulation for GU Indications	Neuroimmune Cardiovascular Interfaces Control Atherosclerosis
08:15 - 08:30	Selective Optogenetic Stimulation of Efferent Fibers in the Vagus Nerve	AI-Based Outcome Prediction to Optimize Patient and Device Selection in SCS	High-Density SCS: Selective Activation of Lower Urinary Tract Nerves	Optogenetics Modulation of Cardiac Sympathetic Nerve Activity
08:30 - 08:45	Modulation of Sympathetic Nervous System for Cardiac Disease	Practical AI Algorithm to Optimize DBS Planning and Programming	Superficial Peroneal Neuromodulation for Non-Obstructive Urinary Retention	Autonomic Nervous System and Cardiac Neuro-Signaling Pathway Modulation in Cardiovascular Disorders and Alzheimer's Disease
08:45 - 09:00	Does PNS have a Role in the Management of Facial Pain?	AI Brain Imaging for Surgical Targeting	Sacral, Tibial, Pudendal Stimulation: How to Select Right Patient and Right Modality in Urinary Incontinence	Overview Neuromodulation in Patients with Refractory Angina Pectoris
09:00 - 09:15	VNS in PTSD	AI Connectomics for Patient Selection in DBS	State-Dependent Bioelectronics Interface to Control Bladder Function	Neuromodulation Devices for Heart Failure
09:15 - 09:30	High-Frequency PNS for Post-Amputation Pain	Machine Learning STN Biomarkers for PD Patient	Closed Loop Neuromodulation in GU Dysfunction	DRG Stimulation for Management of Cardiovascular Disease
09:30 - 09:45	Neuromodulatory Mechanisms of VNS-Enhanced Rehabilitation	AI Data Science in Epilepsy	Transcutaneous Electrical Stimulation or Neurogenic Bladder following SCI	Vagal and Median Nerve Stimulation to Treat Arrhythmias
09:45 - 10:00	Discussion	Discussion	Discussion	Discussion
10:00 - 10:25	<i>Break</i>			
10:30 - 11:20	Oral Poster Presentations			
11:30 - 13:40	Closing Plenary			
11:30 - 12:00	Socioeconomic Impact of Spinal Cord Stimulation: Best Practices for Assessment and Measuring What Matters - Anywhere			
12:00 - 12:30	Advances in our Clinical Understanding of Autonomic Regulation Therapy Using Vagal Nerve Stimulation in Patients with Heart Failure			
12:30 - 13:00	Decipher Vagal Afferent Signaling Pathway from Body to Brain			
13:00 - 13:30	INS Research Award Winners Lectures			
13:30 - 13:40	Closing Comments			
13:40	Congress Adjourns			