



[Program at a Glance](#)

Pre-Conference Days May 22 - 23

May 22 - Pre-Conference: Noninvasive Brain Stimulation

[Click here for more information](#)

May 23 - Pre-Conference: Innovations in Neuromodulation.

Not included in the main event CME/CPD credit.

More Information to follow

Legend:

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

Main Congress

Sunday, 22 May 2022	
19:15 - 19:45	INS Opening Reception in the Exhibition Area

Monday, 23 May 2022				
	Hall 1	Hall 2	Hall 3	Hall 4
08:30 - 12:00	Opening Plenary Session			
08:30 - 09:00	Welcome Address			
09:00 - 09:20	Neuralink: Creative Vision and Technical Execution			
09:20 - 09:45	Modulation of Human Memory by Deep Brain Stimulation of the Entorhinal Hippocampal Circuitry			
09:45 - 10:10	Deep Brain Stimulation: Potential for Neuroprotection			
10:10 - 10:30	Spinal Cord Stimulation in Neuropathic Pain: Mechanisms of Action, New Locations, New Paradigms			
10:30 - 10:55	<i>Break, Posters & Exhibits</i>			
11:00 - 11:20	Late Breaking Research			
11:20 - 11:40	Late Breaking Research			
11:40 - 12:00	Late Breaking Research			
12:00 - 12:50	Oral Poster Presentations Five Best Abstracts			
12:00 - 12:10	1			
12:10 - 12:20	2			
12:20 - 12:30	3			
12:30 - 12:40	4			
12:40 - 12:50	5			
13:00 - 14:30	<i>Lunch, Posters & Exhibits</i>		Lunch Symposium (not included in main event CME/CPD credit) (13.15-14.15)	

Legend:

Plenary Meeting	Breakout Session Award Ceremony	Oral Presentations Networking Event	Supported Symposium Exhibit Break/Poster Viewing	Special Session
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14:30 - 16:00	Neuromodulation for Painful Peripheral Neuropathies	Deep Brain Stimulation (DBS) for Memory and Cognition	Bioelectric Medicine: Novel Applications of Vagus Nerve Stimulation (VNS)	Genitourinary Neuromodulation: Neurostimulation for Urogenital Pain
14:30 - 14:45	Dorsal Root Ganglion/Spinal Cord Stimulation (Dorsal Root Ganglion/Spinal Cord Stimulation) for Peripheral Neuropathy: Evidence from Basic Science and Animal Models	Modifying the Progression of Alzheimer's Disease with Deep Brain Stimulation	Vagus Nerve Stimulation in Rheumatoid Arthritis	Systematic Review of Neuromodulation for Chronic Pelvic Pain
14:45 - 15:00	Invasive Electrical Neuromodulation for the Treatment of Painful Diabetic Neuropathy: Systematic Review and Meta-Analysis	Deep Brain Stimulation of the Nucleus Basalis of Meynert and Alzheimer's Disease	Vagus Nerve Stimulation for Headache Disorders	Dorsal Root Ganglion Stimulation for Urogenital Pain
15:00 - 15:15	Results of the SENZA-PPN Study	Deep Brain Stimulation of the Internal Capsule Enhances Human Cognitive Control and Prefrontal Cortex Function	Vagus Nerve Stimulation for COVID-19/Respiratory Disorders	Sacral Nerve Stimulation for Chronic Pelvic Pain
15:15 - 15:30	Dorsal Root Ganglion Stimulation for Peripheral Neuropathy	Fornix Deep Brain Stimulation in Brain Diseases	Vagus Nerve Stimulation for Diabetes/Obesity	Spinal Cord Stimulation for the Treatment of Chronic Pelvic Pain
15:30 - 15:45	TBA	TBA	TBA	TBA
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion
16:00 - 16:30	<i>Break, Posters & Exhibits</i>			
16:30 - 18:20	Oral Poster Presentations			
16:30 - 16:40	1	1	1	1
16:40 - 16:50	2	2	2	2
16:50 - 17:00	3	3	3	3
17:00 - 17:10	4	4	4	4
17:10 - 17:20	5	5	5	5
17:20 - 17:30	6	6	6	6
17:30 - 17:40	7	7	7	7
17:40 - 17:50	8	8	8	8
17:50 - 18:00	9	9	9	9
18:00 - 18:10	10	10	10	10
18:10 - 18:20	11	11	11	11
18:30 - 19:30	Young Neuromodulators' Reception			

Legend:

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

Tuesday, 24 May 2022				
	Hall 1	Hall 2	Hall 3	Hall 4
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			Translational Neurocardiology: Preclinical Models and Cardioneural Integrative Aspects	
10:00 - 10:30			Targeted Neurotechnology in Patients with Spinal Cord Injury	
10:30 - 11:00			Transcutaneous Spinal Cord Stimulation and Motor Rehabilitation in Spinal Cord Injury: A systematic Review	
11:00 - 11:25	Break, Posters & Exhibits			
11:30 - 12:00	Chemogenetic Neuromodulation			
12:00 - 12:30	Discussion of the New Neurostimulation Appropriateness Consensus Conference and Polyanalgesic Consensus Conference Guidelines			
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	Does Spinal Cord Stimulation (SCS) Therapy Result in Decreased Opioid Exposure?	Closed Loop Deep Brain Stimulation (DBS)	Spinal Cord Stimulation (SCS) for Motor Recovery after Spinal Cord Injury	Cardiovascular Neuromodulation
14:30 - 14:45	Spinal Cord Stimulation Does Not Reduce Opioid Usage	Neurochemical and Electrophysiological Measurements for Closed Loop Deep Brain Stimulation	Neuromodulation of Lumbar Sacral Spinal Networks Enables Independent Stepping after Complete Paraplegia	Baroreflex Activation Therapy and the Heart
14:45 - 15:00	The Effect of Spinal Cord Stimulation on Pain Medicine Reduction: A Systematic Review	Evoked Potentials as Feedback Signals for Closed-Loop Deep Brain Stimulation	Recovery of Over-Ground Walking after Motor Complete Spinal Cord Injury with Spinal Cord Stimulation	Transvenous Neurostimulation for Central Sleep Apnoea: a Randomised Controlled Trial
15:00 - 15:15	Discontinuation of Opioids after Spinal Cord Stimulation is Highly Dependent on Daily Opioid Dose	Dynamic Network Targeting in Closed-Loop Deep Brain Stimulation	Neuromodulation of the Thoracic Spinal Cord to Regulate Hemodynamic after Spinal Cord Injury	Respiratory Rhythm, Autonomic Modulation, and the Spectrum of Emotions: The Future of Emotion Recognition and Modulation
15:15 - 15:30	Opioid-Sparing Effects of Spinal Cord Stimulation	Dual Threshold Closed Loop Deep Brain Stimulation in Parkinson's Disease	Spinal Cord Stimulation for Spinal Cord Injury and the ESTAND Trial	Pulmonary Arterial Hypertension: The Case for a Bioelectronic Treatment
15:30 - 15:45	Spinal Cord Stimulation Reduces Opioid Use with Better Outcomes when Opioids are Not Used	Future Perspectives for Target Identification and Adaptive Closed Loop Stimulation	Transcutaneous Spinal Stimulation for Motor Rehabilitation after Spinal Cord Injury	Spinal Cord Stimulation and Vagus Nerve Stimulation: Effects on primary afferent transduction of the ischemic heart
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion
16:00 - 16:30	Break, Posters & Exhibits			
16:30 - 18:20	Oral Poster Presentations			
16:30 - 16:40	1	1	1	1
16:40 - 16:50	2	2	2	2
16:50 - 17:00	3	3	3	3
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17:50 - 18:00	9	9	9	9
18:00 - 18:10	10	10	10	10
18:10 - 18:20	11	11	11	11
18:30 - 19:30	International Women in Neuromodulation Reception			

Legend:

Plenary Meeting	Breakout Session Award Ceremony	Oral Presentations Networking Event	Supported Symposium Exhibit Break/Poster Viewing	Special Session
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Wednesday, 25 May 2022				
	Hall 1	Hall 2	Hall 3	Hall 4
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	Current Status of Deep Brain Stimulation for Depression			
10:00 - 10:30	Ethics of Brain-Computer Interfaces			
10:30 - 11:00	High Cervical Spinal Cord Stimulation for Parkinson's Disease			
11:00 - 11:25	Break, Posters & Exhibits			
11:30 - 12:00	Neurovascular Neuromodulation			
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	Trialing in Spinal Cord Stimulation: Predictive or Non-Productive	Deep Brain Stimulation for Treatment Resistant Depression	Neurostimulation for Chronic Mechanical Low Back Pain	Neuromodulation for Covid-19
14:30 - 14:45	The TRIAL-STIM Study	Translational Aspects of Deep Brain Stimulation for Depression	Etiology of Chronic Mechanical Low Back Pain	Non-Invasive Vagus Nerve Stimulation Inhibits Cytokine Storm: A Treatment for Covid-19 Respiratory Disease
14:45 - 15:00	Trial versus No Trial of Spinal Cord Stimulation: Cost Analysis	Deep Brain Stimulation for Depression: What has Gone Wrong?	The Burden of Chronic Low Back Pain	Inflammation and Related Organ Dysfunction in Covid-19: A Role for Neuromodulation
15:00 - 15:15	Trial versus No Trial of Spinal Cord Stimulation: Clinical Utility	Deep Brain Stimulation for Depression: Predictors of Response	Multifidus Stimulation: The ReActiv8 Trial	Clinical Studies of Neuromodulation in COVID-19
15:15 - 15:30	Trial versus No Trial of Spinal Cord Stimulation: US Considerations	Closed Loop brain Stimulation for Depression	Multifidus Stimulation: Implications for Clinical Practice	Neuromodulation Devices for Managing COVID-19 Sequelae
15:30 - 15:45	TBA	Deep Brain Stimulation for Depression: Towards a Patient-Specific Transdiagnostic Approach	TBA	TBA
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion
16:00 - 16:30	Break, Posters & Exhibits			
16:30 - 18:20	Oral Poster Presentations			
16:30 - 16:40	1	1	1	1
16:40 - 16:50	2	2	2	2
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17:50 - 18:00	9	9	9	9
18:00 - 18:10	10	10	10	10
18:10 - 18:20	11	11	11	11

Legend:

Plenary Meeting	Breakout Session Award Ceremony	Oral Presentations Networking Event	Supported Symposium Exhibit Break/Poster Viewing	Special Session
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Thursday, 26 May 2022				
	Hall 1	Hall 2	Hall 3	Hall 4
08:00 - 10:00	Peripheral Nerve Stimulation (PNS) for Low Back Pain	Variable Frequency Deep Brain Stimulation (DBS) for Parkinson's Disease and Neuromodulation for Refractory Epilepsy	Interfacing with the Nervous System at a Cellular Scale and Biological Level; and Conflict of Interest in Neuromodulation?	Neurostimulation for Visceral Pain: Update
08:00 - 08:15	Dorsal Root Ganglion (DRG) Stimulation for Low Back Pain at T12	Frequency Issues in Deep Brain Stimulation for Parkinson's Disease	Ultramicroelectrodes Fabricated from Amorphous Silicon Carbide	Spinal Cord Stimulation for Visceral Pain: Current Approaches
08:15 - 08:30	Dorsal Root Ganglion Stimulation for Low Back Pain at L2	Reduction of Deep Brain Stimulation Frequency Improves Parkinson's Disease Symptoms	Tissue Engineered Electronic Interface (TEENI) for the Peripheral Nervous System	Treatment of Chronic Abdominal Pain: Safety and Efficacy from a 12-Month Prospective, Multicenter Feasibility Study
08:30 - 08:45	Peripheral Nerve Field Stimulation for Low Back Pain	Deep Brain Stimulation at Variable Frequency Improves Parkinson's Disease Outcomes	Engineering the Biology and Biochemistry of the Interface to Promote Reliability	Spinal Cord Stimulation for Visceral Pain: Future Strategies
08:45 - 09:00	The SubQStim Study	Variable Frequency Deep Brain Stimulation for Axial Features in Parkinson's Disease	Applications of Graphene and Carbon Nanotube Structures to Control Neural Signaling	Vagus Nerve Stimulation for Gastrointestinal Disorders/Crohn's Disease
09:00 - 09:15	Primary Dorsal Ramus Stim for Low Back Pain	Personalized Vagus Nerve Stimulation for Drug Resistant Epilepsy	Conflict of Interest in Neuromodulation	Autonomic Neuromodulation for Metabolic Disorders
09:15 - 09:30	TBA	Thalamic Deep Brain Stimulation for Epilepsy	TBA	Methods and Mechanisms of Gastric Electrical Stimulation for Nausea and Vomiting
09:30 - 09:45	TBA	Hippocampal Deep Brain Stimulation for Epilepsy	TBA	TBA
09:45 - 10:00	Discussion	Discussion	Discussion	Discussion
10:00 - 10:25	<i>Break, Posters & Exhibits</i>			
10:30 - 11:20	Oral Poster Presentations			
10:30 - 10:40	1	1	1	1
10:40 - 10:50	2	2	2	2
10:50 - 11:00	3	3	3	3
11:00 - 11:10	4	4	4	4
11:10 - 11:20	5	5	5	5
11:30 - 13:40	Closing Plenary Session			
11:30 - 12:00	Vagus Nerve as Modulator of the Brain-Gut Axis in Psychiatric and Inflammatory Disorders			
12:00 - 12:30	Deep Brain Stimulation for Movement Disorders: From Experimental Surgery to Evidence-Based Therapy			
12:30 - 13:00	Neuroimaging Based Pain Biomarkers			
13:00 - 13:30	Women in Neuromodulation: The WIN Survey			
13:30 - 13:40	Closing Comments			
13:40	Congress Adjourns			