



[Program at a Glance](#)

Pre-Conference Days May 21 - 22

May 21 - Pre-Conference Day

Noninvasive Brain Stimulation

[Click here for more information](#)

May 22 - Pre-Conference: Innovations in Neuromodulation

II Jornada Ibero-Americana De Neuromodulación

[Haga clic aquí para más información](#)

Neuromodulation without Borders

(Not included in the main event CME/CPD credit)

[More information to follow.](#)

Scroll down to see the main congress program

Legend:

Plenary Meeting	Breakout Session Award Ceremony	Oral Presentations Networking Event	Supported Symposium Exhibit Break/Poster Viewing	Special Session
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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	Hall 5
08:30 - 12:00	Opening Plenary Session				
08:30 - 09:00	Welcome Address				
09:00 - 09:30	Neuralink: Creative Vision and Technical Execution TBD				
09:20 - 09:45	Modulation of Human Memory by Deep Brain Stimulation of the Entorhinal Hippocampal Circuitry Itzhak Fried, USA				
09:45 - 10:10	Deep Brain Stimulation: Potential for Neuroprotection Andres Lozano, Canada				
10:10 - 10:30	Spinal Cord Stimulation in Neuropathic Pain: Mechanisms of Action, New Locations, New Paradigms Elbert Joosten, The Netherlands				
10:30 - 10:55	<i>Break, Posters & Exhibits</i>				
11:00 - 11:20	Late Breaking Research: Deep Brain Stimulation for Huntington's Disease Jan Vesper, Germany				
11:20 - 11:40	Late Breaking Research: Occipital Nerve Stimulation for Cluster Headache Frank Huygen, The Netherlands				
11:40 - 12:00	Spinal Cord Stimulation Targeting Non-Dorsal Column, Non-Axonal Structures: Clinical Trial Results Marc Russo, Australia				
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)
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 - 14:50	Moderator: Dorsal Root Ganglion/Spinal Cord Stimulation for Peripheral Neuropathy: Evidence from Basic Science and Animal Models Elbert Joosten, The Netherlands	Moderator: Modifying the Progression of Alzheimer's Disease with Deep Brain Stimulation Andres Lozano, Canada	Moderator: Vagus Nerve Stimulation in Rheumatoid Arthritis Frieda Koopman, The Netherlands	Moderator: Systematic Review of Neuromodulation for Chronic Pelvic Pain Jan Kallewaard, The Netherlands	
14:50 - 15:10	Invasive Electrical Neuromodulation for the Treatment of Painful Diabetic Neuropathy: Systematic Review and Meta-Analysis James Fitzgerald, UK	Deep Brain Stimulation of the Nucleus Basalis of Meynert and Alzheimer's Disease Jens Kuhn, Germany	Vagus Nerve Stimulation for Headache Disorders Stephen Silberstein, USA	Dorsal Root Ganglion Stimulation for Urogenital Pain Corey Hunter, USA	
15:10 - 15:30	Results of the SENZA-PPN Study Erika Petersen, USA	Deep Brain Stimulation of the Internal Capsule Enhances Human Cognitive Control and Prefrontal Cortex Function Emad Eskandar, USA	Vagus Nerve Stimulation for COVID-19/Respiratory Disorders Bruno Bonaz, France	Sacral Nerve Stimulation for Chronic Pelvic Pain Sherif El-Nashar, USA	
15:30 - 15:50	Dorsal Root Ganglion Stimulation for Peripheral Neuropathy Steven Falowski, USA	Fornix Deep Brain Stimulation in Brain Diseases Yasin Temel, The Netherlands	Vagus Nerve Stimulation for Diabetes/Obesity Valentin Pavlov, USA	Spinal Cord Stimulation for the Treatment of Chronic Pelvic Pain Sean Li, USA	
15:50 - 16:00	Discussion	Discussion	Discussion	Discussion	
16:00 - 16:30	<i>Break, Posters & Exhibits</i>				
16:30 - 18:20	Oral Poster Presentations				
	Moderator:	Moderator:	Moderator:	Moderator:	
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				

Tuesday, 24 May 2022					
8:30 - 9:30	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5
					Breakfast Symposium (not included in main event CME/CPD credit)
09:30 - 12:30	Plenary Session 2	Allied Health – The Patient Journey to Neuromodulation			
	Moderator:				
09:30 - 10:00	Translational Neurocardiology: Preclinical Models and Cardioneural Integrative Aspects Jeffrey Ardell, USA				
10:00 - 10:30	Targeted Neurotechnology in Patients with Spinal Cord Injury Jocelyne Bloch and Gregoire Courtine, Switzerland				
10:30 - 11:00	Transcutaneous Spinal Cord Stimulation and Motor Rehabilitation in Spinal Cord Injury: A systematic Review Julian Taylor, Spain				
11:00 - 11:25					<i>Break, Posters & Exhibits</i>
11:30 - 12:00	Chemogenetic Neuromodulation Nick Boulis, USA				
12:00 - 12:30	Discussion of the New Neurostimulation Appropriateness Consensus Conference and Polyanalgesic Consensus Conference Guidelines Robert Levy and Timothy Deer, USA				
12:30 - 13:10	INS General Assembly (Members only)				
13:10 - 14:30		<i>Lunch, Posters & Exhibits</i>			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? Moderators:	Closed Loop Deep Brain Stimulation (DBS) Moderator:	Spinal Cord Stimulation (SCS) for Motor Recovery after Spinal Cord Injury Moderators:	Cardiovascular Neuromodulation Moderators: Mike DeJongste, The Netherlands; Rod Taylor, UK	
14:30 - 14:45	The Promise of Adjunctive Scalable Psychological Treatment Used in Combination with SCS: Pain and Opioid Reduction Beth Darnall, USA	Patterns, Scheduled and Closed Loop Deep Brain Stimulation Michael Okun, USA	Recovery of Over-Ground Walking after Motor Complete Spinal Cord Injury with Spinal Cord Stimulation Claudia Angeli, USA	Neuromodulation for Refractory Angina, Heart Failure and Peripheral Vascular Disease Zion Zibli, Israel	
14:45 - 15:00	Discontinuation of Opioids after Spinal Cord Stimulation is Highly Dependent on Daily Opioid Dose Tom Simopoulos, USA	Evoked Potentials as Feedback Signals for Closed-Loop Deep Brain Stimulation Warren Grill, USA	Neuromodulation of the Thoracic Spinal Cord to Regulate Hemodynamic after Spinal Cord Injury Aaron Phillips, Canada	Spinal Cord Stimulation and Vagus Nerve Stimulation: Effects on Primary Afferent Transduction of the Ischemic Heart	
15:00 - 15:15	Opioid-Sparing Effects of Spinal Cord Stimulation Adnan Al-Kaisy, UK	Dynamic Network Targeting in Closed-Loop Deep Brain Stimulation Alik Widge, USA	Spinal Cord Stimulation for Spinal Cord Injury and the ESTAND Trial David Darrow, USA	Cost Benefit of Neuromodulation in Cardiac Diseases Rod Taylor, UK	
15:15 - 15:30	Spinal Cord Stimulation Reduces Opioid Use with Better Outcomes when Opioids are Not Used Julie Pillitsis, USA	Dual Threshold Closed Loop Deep Brain Stimulation in Parkinson's Disease Helen Bronte-Stewart, USA	Transcutaneous Spinal Stimulation for Motor Rehabilitation after Spinal Cord Injury Julio Gómez-Soriano, Italy	Respiratory Rhythm, Autonomic Modulation, and the Spectrum of Emotions: The Future of Emotion Recognition and Modulation Ravinder Jerath, USA	
15:30 - 15:45	Association of Opioid Usage with Spinal Cord Stimulation Outcomes Ashwini Sharan, USA	Future Perspectives for Target Identification and Adaptive Closed Loop Stimulation Paul Krack, Switzerland	DBS for Post-stroke Rehabilitation Andre Machado, USA	Summary and Future Perspectives Mike DeJongste, The Netherlands	
15:45 - 16:00	<i>Discussion</i>	<i>Discussion</i>	<i>Discussion</i>	<i>Discussion</i>	
16:00 - 16:30					<i>Break, Posters & Exhibits</i>
16:30 - 18:20	Oral Poster Presentations				
	Moderator:	Moderator:	Moderator:	Moderator:	
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	
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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	International Women in Neuromodulation Reception				

Wednesday, 25 May 2022					
	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				
	Moderator:				
09:30 - 10:00	Current Status of Deep Brain Stimulation for Depression Thomas E. Schlaepfer, Germany				
10:00 - 10:30	Ethics of Brain-Computer Interfaces Eric Racine, Canada				
10:30 - 11:00	High Cervical Spinal Cord Stimulation for Parkinson's Disease Paolo Mazzone, Italy				
11:00 - 11:25	<i>Break, Posters & Exhibits</i>				
11:30 - 12:00	Neurovascular Neuromodulation Thomas Oxley				
12:00 - 12:50	Giant of Neuromodulation Award				
13:00 - 14:30	<i>Lunch, Posters & Exhibits</i>				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; and Neuromodulation Registries	Neuromodulation for Covid-19	
	Moderator:	Moderator:	Moderators:	Moderator: Elliot Krames, USA	
14:30 - 14:45	The TRIAL-STIM Study Sam Eldabe, UK	Translational Aspects of Deep Brain Stimulation for Depression Clement Hamani, Canada	Etiology of Chronic Mechanical Low Back Pain Marc Russo, Australia	Non-Invasive Vagus Nerve Stimulation Inhibits Cytokine Storm: A Treatment for Covid-19 Respiratory Disease Carlos Tornero Tornero, Spain	
14:45 - 15:00	Trial versus No Trial of Spinal Cord Stimulation: Cost Analysis Simon Thomson, UK	Deep Brain Stimulation for Depression: What has Gone Wrong? Emad Eskandar, USA	Multifidus Stimulation: The ReActiv8 Trial Chris Gilligan, USA	Inflammation and Related Organ Dysfunction in Covid-19: A Role for Neuromodulation Bruno Bonaz, France	
15:00 - 15:15	Trial versus No Trial of Spinal Cord Stimulation: Clinical Utility G. Baranidharan, UK	Deep Brain Stimulation for Depression: Predictors of Response Zelma Kiss, Canada	Multifidus Stimulation: Implications for Clinical Practice Sam Eldabe, UK	Clinical Studies of Neuromodulation in COVID-19 Kristi Vonck, Belgium	
15:15 - 15:30	Trial versus No Trial of Spinal Cord Stimulation: US Considerations Richard North, USA	Closed Loop Brain Stimulation for Depression Darin Dougherty, USA	Neuromodulation Registries Moderators: The Danish Neuromodulation Registry: 10 Year Follow-up Kaare Meier, Denmark	Neuromodulation Devices for Managing COVID-19 Sequelae Marom Bikson, USA	
15:30 - 15:45	Object: Trials are Important for Spinal Cord Stimulation TBA	Deep Brain Stimulation for Depression: Towards a Patient-Specific Transdiagnostic Approach Alik Widge, USA	The Dutch Neuromodulation Registry: 10 Year Follow-up Jan Kallewaard, The Netherlands	A Novel Neurostimulator for Ventilated Patients in Intensive Care: COVID and Beyond James Fitzgerald, UK	
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion	
16:00 - 16:30	<i>Break, Posters & Exhibits</i>				
16:30 - 18:20	Oral Poster Presentations				
	Moderator:	Moderator:	Moderator:	Moderator:	
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	

Thursday, 26 May 2022				
	Hall 1	Hall 2	Hall 3	Hall 4
08:00 - 10:00	Peripheral Nerve Stimulation (PNS) for Low Back Pain; and Outcome Measures in Neuromodulation Moderator:	Variable Frequency Deep Brain Stimulation (DBS) for Parkinson's Disease and Neuromodulation for Refractory Epilepsy Moderators:	Focused Microwave Neuromodulation; and Symposium on Conflict of Interest Moderator:	Neurostimulation for Visceral Pain: Update Moderators:
08:00 - 08:15	Dorsal Root Ganglion Stimulation for Low Back Pain at T12 Ken Chapman, USA	Frequency Issues in Deep Brain Stimulation for Parkinson's Disease Irene DiGiulio, UK	Engineering Aspects of Focused Microwave Neuromodulation TBA	Spinal Cord Stimulation for Visceral Pain: Current Approaches Amy Pearson, USA
08:15 - 08:30	Dorsal Root Ganglion Stimulation for Low Back Pain at L2 Frank Huygen, The Netherlands	Reduction of Deep Brain Stimulation Frequency Improves Parkinson's Disease Symptoms Julie Pilitsis, USA	Animal and Translational Research in Focused Microwave Neuromodulation TBA	Treatment of Chronic Abdominal Pain: Safety and Efficacy from a 12-Month Prospective, Multicenter Feasibility Study Leonardo Kapural, USA
08:30 - 08:45	Peripheral Nerve Field Stimulation for Low Back Pain Frank Patrick Schwarm, Germany	Variable Frequency Deep Brain Stimulation for Axial Features in Parkinson's Disease Leo Verhagen-Metman, USA	Clinical Experience and the Future of Focused Ultrasound Neuromodulation Andres Lozano, Canada	Neurostimulation for Chronic Pancreatitis G. Baranidharan, UK
08:45 - 09:00	The SubQStim Study Sam Eidabe, UK	Personalized Vagus Nerve Stimulation for Drug Resistant Epilepsy Kristi Vonck, Belgium	Microwave Neuromodulation using Nanotechnology TBA	SCS for Chronic Pancreatitis a Systematic Review TBA
09:00 - 09:15	Outcome Measures in Neuromodulation. Measuring the Pain Experience in Clinical Practice Julie Pilitsis, USA	Thalamic Deep Brain Stimulation for Epilepsy Francisco Velasco, Mexico	Symposium on Conflict of Interest. Conflict of Interest and Industry: Is the Partnership Broken? Marc Russo, Australia	Vagus Nerve Stimulation for Gastrointestinal Disorders/Crohn's Disease Bruno Bonaz, France
09:15 - 09:30	Are Pain Scores the Best Measure for Clinical RCTs? Jennifer Gewandter, USA	Hippocampal Deep Brain Stimulation for Epilepsy Arthur Cukiert, Brazil	Conflict of Interest: How It Can Leak into Journals and Medical Decision Making TBA	Autonomic Neuromodulation for Metabolic Disorders Jiande Chen, USA
09:30 - 09:45	Multiple Continuous Measures, Big Data and Feedback for Evaluating Outcomes in Neuromodulation for Pain Jeffrey Rogers, USA	Radiation Safety in Neuromodulation David Provenzano, USA	Conflict of Interest Panel Marc Russo, Australia; Paul Verrills, Australia; Konstantin Slavin, USA; Sean Mackey USA	Methods and Mechanisms of Gastric Electrical Stimulation for Nausea and Vomiting Thomas Abell, USA
09:45 - 10:00	Discussion	Discussion	Discussion	Discussion
10:00 - 10:25	Break, Posters & Exhibits			
10:30 - 11:20	Oral Poster Presentations			
	Moderator:	Moderator:	Moderator:	Moderator:
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			
	Moderators:			
11:30 - 12:00	Vagus Nerve as Modulator of the Brain-Gut Axis in Psychiatric and Inflammatory Disorders Gregor Hasler, Switzerland			
12:00 - 12:30	Deep Brain Stimulation for Movement Disorders: From Experimental Surgery to Evidence-Based Therapy Jens Volkmann, Germany			
12:30 - 13:00	Neuroimaging Based Pain Biomarkers Sean Mackey, USA			
13:00 - 13:30	Women in Neuromodulation: The WIN Survey Julie Pilitsis, USA			
13:30 - 13:40	Closing Comments			
13:40	Congress Adjourns			