

### Program at a Glance

Legend:

|         |                  |                    |                              |
|---------|------------------|--------------------|------------------------------|
| Plenary | Breakout Session | Oral Presentations | Workshop                     |
| Meeting | Award Ceremony   | Networking Event   | Exhibit Break/Poster Viewing |

### Sunday, 12 May 2024

#### Pre-Conference Day - Noninvasive Brain Stimulation: From Pain, to Inflammatory, to Post-Viral Symptoms

| East Ballroom AB |   |
|------------------|---|
| 08:30 - 09:00    | Breakfast & Posters   |
| 09:00 - 12:25    | Session 1   |
| 09:00 - 09:35    | Neurovascular Modulation: Is the Direct Stimulation of Brain Vasculature as a Therapeutic Mechanism?<br><b>Marom Bikson, USA</b>                              |
| 09:35 - 10:10    | Transcranial Direct Current Stimulation for Inflammatory and Post-Infection Disorders<br><b>Giuseppina Piloni, USA</b>  |
| 10:10 - 10:40    | Break & Posters   |
| 10:40 - 11:15    | Non-Invasive Brain Stimulation for Addiction Medicine<br><b>Hamad Ekhtiari, USA</b>   |
| 11:15 - 11:50    | Transcranial Magnetic Stimulation for Pain, Headache, and Comorbid Depression<br><b>Albert Leung, USA</b>   |
| 11:50 - 12:25    | High-Definition tDCS in Acute and Long-Term COVID-19<br><b>Suellen Andrade, Brazil</b>  |
| 12:25 - 13:45    | Lunch & Posters   |
| 13:45 - 17:00    | Session 2   |
| 13:45 - 14:20    | Advanced Current Delivery Techniques for HD-tDCS: From Higher Current to Home-Based Treatment<br><b>Benjamin Hampstead, USA</b>                               |
| 14:20 - 14:55    | At-Home Transcranial Direct Current Stimulation (tDCS) with Telehealth Support for Symptom Control in Chronically-Ill Patients<br><b>Helena Knotkova, USA</b> |
| 14:55 - 15:30    | A New Disposable Electrotherapy Platform<br><b>Mohamad FallahRad, USA</b>   |
| 15:30 - 15:55    | Break & Posters   |
| 15:55 - 16:30    | Non-Invasive Brain Stimulation to Treat Disorders of Human Verticality<br><b>Taiza Grespan Santos Edwards, Brazil</b>   |
| 16:30 - 17:05    | Non-Invasive Brain Stimulation in Rehabilitation: Where are we and Where are we Going?<br><b>Dylan Edwards, USA</b>   |
| 17:05 - 17:15    | Closing Comments  |

### Main Congress

#### Sunday, 12 May 2024

|             |  |
|-------------|--|
| 18:30-19:45 | INS Opening Reception in the Exhibition Area |
|-------------|--|

| Monday, 13 May 2024 |  |  |  |   |
|---------------------|--|--|--|---|
|                     | East Exhibit Hall A  | East Ballroom C  | East Meeting Room 11 & 12  | Parkview East 2+3   |
| 08:00-08:30         | Morning Coffee + Pastries in the Exhibition Hall   |  |  |   |
| 08:30 - 12:00       | <b>Opening Plenary Session</b>   |  |  |   |
| 08:30 - 09:00       | Welcome Address  |  |  |   |
| 09:00 - 09:25       | Placebo Effect in Neuromodulation<br><b>Robert Levy, USA</b>   |  |  |   |
| 09:25 - 09:50       | Big Data and AI in Neuromodulation<br><b>Jeff Rogers, USA</b>  |  |  |   |
| 09:45 - 10:10       | Why is Neuromodulation Effective in CRPS?<br><b>Frank Huygen, The Netherlands</b>  |  |  |   |
| 10:10 - 10:30       | Effects of Deep Brain Stimulation on Brain Function in Obsessive-Compulsive Disorder: From Animal Models to Patients Speaker<br><b>Damiaan Demys, The Netherlands</b>                    |  |  |   |
| 10:30 - 10:55       | Break, Posters & Exhibits  |  |  |   |
| 11:00 - 11:15       | An In-Depth Analysis of "Asleep" vs. "Awake" DBS – A Neurologist's Perspective (Argument for awake)<br><b>Leo Verhagen, USA</b>  |  |  |   |
| 11:15 - 11:30       | An In-Depth Analysis of "Asleep" vs. "Awake" DBS – A Neurosurgeon's Perspective (Argument for asleep)<br><b>Kim Burchiel, USA</b>  |  |  |   |
| 11:30-11:40         | Discussion between "Awake" and "Asleep"<br><b>Leo Verhagen, USA &amp; Kim Burchiel, USA</b>  |  |  |   |
| 11:40 - 12:00       | INS Neurostimulation Appropriateness Consensus Committee 2024: An Update<br><b>Marc Russo, Australia</b>   |  |  |   |
| 12:00 - 13:00       | Oral Poster Presentations Five Best Abstracts  |  |  |   |
| 13:00 - 14:30       | Lunch, Posters & Exhibits  |  |  |   |
| 14:30 - 16:00       | <b>Spine – Mechanisms of Action</b>  | <b>Neuromodulation for Movement Disorders</b>  | <b>Neuromodulation for Neuropsychiatry: Obsessive Compulsive Disorder and Depression</b>   | <b>Neuromodulation for Rehabilitation After Stroke</b>  |
| 14:30 - 14:45       | Surround Inhibition Mechanism of Action<br><b>Warren Grill, USA</b>  | Microcircuit Engagement at the Singloneuron Resolution<br><b>Luka Milosevic, Canada</b>  | Therapeutic Neuromodulation for Depression and Bi-Polar Disorder: The Case for Biomarker Driven Treatment Development<br><b>Joan Camprodon, USA</b>  | The Current State of Non-Invasive Neuromodulation for Post-Stroke Rehabilitation<br><b>Dylan Edwards, USA</b> |
| 14:45 - 15:00       | Role of Spike Synchrony in Perception in the Optimization of SCS<br><b>Steve Prescott, Canada</b>  | Deep Brain Stimulation Induced Neurophysiological Effects to Guide Treatment of Movement Disorders<br><b>Kara Johnson, USA</b> | Novel TMS Protocols for Depression<br><b>Noah Philip, USA</b>  | Novel Non-Invasive Neuromodulation Strategies for Post-Stroke Rehabilitation<br><b>Eva Plow, USA</b>          |
| 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<br><b>Scott Lempka, USA</b> | Electrocorticography in Investigation of Cortico-Subcortical Dynamics<br><b>Philip Starr, USA</b>                              | VNS for Depression: RECOVER Study<br><b>Charles Conway, USA</b>  | Vagus Nerve Stimulation as a Strategy to Augment Stroke Rehabilitation<br><b>Seth Hays, USA</b>               |
| 15:15 - 15:30       | Mechanism of PNS, SCS: Supraspinal Mechanisms and MOA<br><b>Eellan Sivanesan, USA</b>  | Modulatory Influence on Brain-Wide Network Connectomics<br><b>Barbara Hollunder, USA</b>                                       | A Decade of Clinical and Translational Experience of Superlateral Medial Forebrain Bundle DBS in Depression and OCD<br><b>Volker Coenen, Germany</b> | Spinal Cord and Peripheral Nerve Stimulation for Motor Rehabilitation<br><b>Doug Weber, USA</b>               |
| 15:30 - 15:45       | Potential Mechanisms of Novel Neuromodulation Technologies / Therapy<br><b>Andrei Sdrulla, USA</b>   | Directionality in DBS for Movement Disorders – Should Omnidirectional Stimulation be Abandoned?<br><b>Jan Vesper, Germany</b>  | Efficacy of Deep Brain Stimulation for Treatment-Resistant OCD: Systemic Review and Metaanalysis<br><b>Sameer Sheth, USA</b>                         | Deep Brain Stimulation for Post-Stroke Rehabilitation<br><b>Andre Machado, USA</b>                            |
| 15:45 - 16:00       | Discussion   | Discussion   | Discussion   | Discussion  |
| 16:00 - 16:30       | Break, Posters & Exhibits  |  |  |   |
| 16:30 - 18:20       | <b>Oral Poster Presentations</b>   |  |  |   |
|                     | <b>Neuromodulation – Mechanism(s) of Action</b>  | <b>Neuromodulation for Movement Disorders</b>  | <b>Neuromodulation for Neuropsychiatric Disorders</b>  | <b>Neurostimulation for Pain – Clinical Update 1</b>  |
| 18:30 - 19:30       | Young Neuromodulators' Reception   |  |  |   |

| Tuesday, 14 May 2024 |   |  |   |  |  |
|----------------------|---|--|---|--|--|
|                      | East Exhibit Hall A   | East Ballroom C  | East Meeting Room 11 & 12   | Parkview East 1+2+3  | East Ballroom AB   |
|                      |   | <b>Workshop on Neuromodulation Part 1 Morning Sessions (Nurses and HCP) Basic Track</b>  | <b>Workshop on Neuromodulation Part 1 - Morning Sessions (Nurses and HCP) Advanced Track</b>  |  |  |
| 8:30-9:00            |   | Meet and Greet (Coffee and Pastries)   | Meet and Greet (Coffee and Pastries)  |  |  |
| 9:00-9:30            | <i>Morning Coffee + Pastries in the Exhibition Hall</i>   | Introductions & Welcome<br>Patient Selection<br><b>Rebekah Richards, Australia</b>   | Introductions & Welcome<br>Biopsychosocial in Combination with SCS in PSPS Type 2 Patients<br><b>Rimke Snel, The Netherlands</b>  |  | <i>Morning Coffee + Pastries in the Exhibition Hall</i>  |
| 9:30 - 12:30         | <b>Plenary Session 2</b>  | Basics in Psychology and Communication with the Chronic Pain Patient; Psychology and Pain - What is the Connection?<br><b>Kathryn Curtis, Canada</b> | Opioid Reduction and SCS current Requirements Study<br><b>Pieter van Looy, Belgium</b>  |  |  |
| 9:30 - 10:00         | Insights into Disease and Mechanisms of Neuromodulation from Invasive Neurophysiology<br><b>Nader Pouratian, USA</b>                                    | Post-implant Physio Programs<br><b>David Elvish, Australia</b>   | Advanced Programming<br><b>Jenny Jennings, UK</b>   |  |  |
| 10:00 - 10:30        | Neuromodulation Targets for Psychiatric Disorders: Common Circuits<br><b>Patricio Posse, USA</b>  | Morning Break  | Morning Break   |  |  |
| 10:30 - 11:00        | Can Spinal Cord Stimulation Alter the Disease of Chronic Pain?<br><b>Yun Guan, USA</b>  | Complication Management<br><b>Kara Hallett, Canada</b>   | SCS Nurses in the Scientific Field - presentation about own research about SCS and objective data<br><b>Tanja Hamm, The Netherlands</b>   |  |  |
| 11:00 - 11:25        | <i>Break, Posters &amp; Exhibits</i>  |  |   |  | <i>Break, Posters &amp; Exhibits</i>   |
| 11:30 - 12:00        | How Neuromodulation Changed the Landscape of Epilepsy Surgery<br><b>Arthur Cukiert, Brazil</b>  | Patient Case Study<br><b>Alison Cox, UK</b>  | Patient Case Study<br><b>Nancy Polytronopoulos, Canada</b>  |  |  |
| 12:00 - 12:30        | Controversies in Ethics Related to Neurotechnologies<br><b>Zelma Kiss, Canada</b>   | Q & A  | Q & A   |  |  |
| 12:30 - 13:30        | <b>INS General Assembly (Members only)</b>  |  |   |  |  |
| 13:10 - 14:30        | <i>Lunch, Posters &amp; Exhibits</i>  |  |   |  |  |
| 14:30 - 16:00        | <b>Spinal Cord Stimulation for Pain Clinical Update</b>   | <b>Brain: Epilepsy</b>   | <b>Brain: Neuropsychiatry - Novel Applications in Behavioral Neuromodulation</b>  | <b>Neuroprosthetics and Neuroregeneration</b>  |  |
| 14:30 - 14:45        | Data on Non-Surgical Back and Experience with Different Waveforms<br><b>Timothy Deer, USA</b>   | Neuromodulation for Refractory Epilepsy: Progress Towards Less Invasive Approaches<br><b>Andreas Schulz-Bonhage, Germany</b>                         | Deep Brain Stimulation of the Nucleus Accumbens in the Treatment of Severe Alcohol Use Disorder: A phase I Pilot Trial<br><b>Nir Lipsman, Canada</b>  | Optimizing Physiological Closed-Loop Controllers (PCLC) in Closed-Loop Neuromodulation<br><b>Tim Denison, UK</b> |  |
| 14:45 - 15:00        | Restorative Stimulation for Chronic Nonsurgical Low Back Pain<br><b>Christopher Gilligan, USA</b>   | Stimulation of the Thalamus for Arousal Restoral in Temporal Lobe Epilepsy (START) Clinical Trial<br><b>Hal Blumenfeld, USA</b>                      | Deep Brain Stimulation of the Nucleus Accumbens in Treatment-Resistant Alcohol use Disorder: A Double-Blind Randomized Controlled Multi-Center Trial<br><b>Jens Kuhn, Germany</b>   | Neural Interfaces for Natural Touch Perception<br><b>Dustin Tyler, USA</b>                                       |  |
| 15:00 - 15:15        | T12 Dorsal Root Ganglion Stimulation for Axial Low Back Pain<br><b>Kiran Patel, USA</b>   | Multitarget DBS and RNS for Epilepsy<br><b>Andrew Yang, USA</b>  | Cortical Stimulation for Addictive Disorders<br><b>Dr De Ridder, New Zealand</b>  | High Performance Speech Neuroprosthesis<br><b>Daniel Rubin, USA</b>  |  |
| 15:15 - 15:30        | Should we combine SCS and DRG as Synergistic Modalities to Address Chronic Refractory Pain? Results of BOOST-DRG RCT<br><b>Phillipe Riguard, France</b> | Intracranial Neuromodulation in Children with Refractory Epilepsy<br><b>George Ibrahim, Canada</b>   | 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<br><b>Gloria Villalba-Martinez, Spain</b> | Biohybrid Regenerative Interface<br><b>Damiano Barone, UK</b>  |  |
| 15:30 - 15:45        | Is there any Indication for SCS and DRG in Refractory Brachial Plexus Pain?<br><b>Jan Vesper, Germany</b>   | Vagal Nerve Stimulation in Refractory and Super-Refractory Epileptic Status in Children<br><b>Andrea Landi, Italy</b>                                | Postsurgical Morbidity and Mortality Favorably Informs Deep Brain Stimulation for New Indications including Schizophrenia and Schizoaffective Disorder<br><b>Judith M. Gault, USA</b>   | High Resolution EMG-Based Prosthetic Control<br><b>James Fitzgerald, UK</b>                                      |  |
| 15:45 - 16:00        | Discussion  | Discussion   | Discussion  | Discussion   |  |
| 16:00 - 16:30        | <i>Break, Posters &amp; Exhibits</i>  |  |   |  |  |
| 16:30 - 18:20        | <b>Oral Poster Presentations</b>  |  |   |  | <b>Workshop on Neuromodulation Part 2 Afternoon Sessions (16:30 - 18:25)</b><br>International Panorama of Nurses - Panel speakers & interactive discussion using a digital device/app<br><b>Victoria Bains, Canada; Caro Edelbroek, The Netherlands; Phyllis McPhillips, Germany; Jenny Jennings, UK; Alba Maria Vivas Munoz, Spain; Ulrika Parker, Sweden; Rachel Whipp, Australia</b><br><br>INS Nurses / Allied Health Committee & INS Mentorship program<br><b>Caro Edelbroek, The Netherlands; Rachel Whipp, Australia</b><br><br>Session Close |
|                      | <b>Neurostimulation for Pain - Clinical Update 2</b>  | <b>Neuromodulation for Rehabilitation</b>  | <b>Neuromodulation: Engineering and AI</b>  | <b>Neurostimulation for Pain - Clinical Update 3: Closed Loop SCS</b>  |  |
| 18:30 - 19:30        | International Women in Neuromodulation Reception  |  |   |  |  |

| Wednesday, 15 May 2024 |   |   |   |  |
|------------------------|---|---|---|--|
|                        | East Exhibit Hall A   | East Ballroom C   | East Meeting Room 11 & 12   | Parkview East 1+2+3  |
| 09:00-09:30            | Morning Coffee + Pastries in the Exhibition Hall  |   |   |  |
| 09:30 - 12:00          | <b>Plenary Session 3</b>  |   |   |  |
| 09:30 - 10:00          | INS Polyanalgesic Consensus Conference 2024: Review and Recommendation<br><b>Jay Grider, USA</b>  |   |   |  |
| 10:00 - 10:30          | Low Intensity Ultrasound Neuromodulation as a New Brain Therapy<br><b>Andres Lozano, Canada</b>   |   |   |  |
| 10:30 - 11:00          | Sub-Threshold Neuromodulation: Everything Old is New<br><b>Marom Bikson, USA</b>  |   |   |  |
| 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<br><b>Sam Eldabe, UK</b>  |   |   |  |
| 12:00 - 13:00          | <b>Giant of Neuromodulation Award and Champion of INS Award</b>   |   |   |  |
| 13:00 - 14:30          | Lunch, Posters & Exhibits   |   |   |  |
| 14:30 - 16:00          | <b>Current Status of Intrathecal Drug Delivery Systems for Cancer-Related Pain</b>  | <b>Cutting Edge Research in Noninvasive Brain Stimulation (NIBS)</b>  | <b>Low Energy Focused Ultrasound (LiFu)</b>   | <b>Neuromodulation for Gastrointestinal Disorders</b>  |
| 14:30 - 14:45          | Intrathecal Drug Delivery for Cancer-Related Pain: Pathophysiological Changes and Chemosensitivity after IDDS<br><b>Eellan Sivanesan, USA</b>                             | Transcranial Magnetic Stimulation of the Visual Cortex: An Update<br><b>Ivete Ferraz, Brazil</b>  | Potential Mechanisms Supporting Low Intensity Focused Ultrasound for Neuromodulation<br><b>Noah Philip, USA</b> | Bioelectric Neuromodulation for Gastrointestinal Disorders<br><b>Sophie Payne, Australia</b>   |
| 14:45 - 15:00          | Intrathecal Drug Delivery for Cancer-Related Pain: A Systematic Review and Meta-Analysis of Clinical Studies<br><b>Rui Duarte, UK</b>                                     | Neuromodulation of Motor Regions for Migraine: New Science and New Technology<br><b>Alex DaSilva, USA</b>   | Low Energy Focused Ultrasound Neuromodulation: Basic and Translational Research<br><b>Elisa Konofagou, USA</b>  | Transcutaneous Cervical Vagal Nerve Stimulation for Gastro-Intestinal Issues<br><b>Linda Nguyen, USA</b>                                   |
| 15:00 - 15:15          | Intrathecal Drug Delivery for Cancer-Related Pain: Trunk and Limb Pain<br><b>Shane Brogan, USA</b>  | TDCS for Depression: The Last Ten Years and the Next Five<br><b>Andre Brunoni, Brazil</b>   | Low Intensity Focused Ultrasound for Epilepsy<br><b>Emma Lescauwae, Belgium</b>                                 | Transcutaneous Neuromodulation for Gastrointestinal Disorders<br><b>Jiande Chen, USA</b>   |
| 15:15 - 15:30          | Intrathecal Drug Delivery for Cancer-Related Pain: Head and Neck Pain<br><b>Denis Dupoirion, France</b>   | Leveraging Neuromodulation-Induced Brain Plasticity for Improvement in Attention and Working Memory in Mild Traumatic Brain Injury<br><b>Lars Hungerford, USA</b> | Low Energy Focused Ultrasound Neuromodulation of the Spinal Cord<br><b>Julie Pilitsis, USA</b>                  | Electronic Bypass for Diabetes: Optimization of Stimulation Parameters and Mechanisms of Glucagon-Like Peptide-1<br><b>Shiyang Li, USA</b> |
| 15:30 - 15:45          | Intrathecal Drug Delivery for Cancer-Related Pain: Pain Secondary to Cancer Therapy (Radiation, Chemotherapy, Immunotherapy)<br><b>Christophe Perruchoud, Switzerland</b> | Transcranial Electrical Stimulation in Neuropathic Pain<br><b>Helena Knotkova, USA</b>  | Round Table Discussion moderated by<br><b>Stana Bojanic, UK</b>   | DBS for Obesity<br><b>Clement Hamani, Canada</b>   |
| 15:45 - 16:00          | Discussion  | Discussion  | Discussion  | Discussion   |
| 16:00 - 16:30          | Break, Posters & Exhibits   |   |   |  |
| 16:30 - 18:20          | <b>Oral Poster Presentations</b>  |   |   |  |
|                        | <b>Peripheral Nerve Stimulation – Clinical Update</b>   | <b>Neuromodulation for GU and GI Disorders</b>  | <b>Neurostimulation for Pain – Clinical Update 4</b>  | <b>Neurostimulation for Pain – Clinical Update 5</b>   |

| Thursday, 16 May 2024 |   |  |  |  |
|-----------------------|---|--|--|--|
|                       | East Exhibit Hall A   | East Ballroom C  | East Meeting Room 11 & 12  | Parkview East 1+2+3  |
| 07:30-08:00           | Morning Coffee + Pastries   |  |  |  |
| 08:00 - 10:00         | <b>Peripheral Nerve Stimulation + Non-Epilepsy Vagus Nerve Stimulation</b>  | <b>Artificial Intelligence</b>   | <b>Neuromodulation for Genitourinary Disorders</b>   | <b>Neuromodulation for Neurocardiology</b>   |
| 08:00 - 08:15         | Optoelectric Vagus Nerve Stimulation<br><b>Robert Levy, USA</b>   | Overview of AI, What it is and What it isn't<br><b>Jeffrey Rogers, USA</b>   | New in Sacral Neuromodulation for GU Indications<br><b>Stefan De Wachter, Belgium</b>  | Myocardial Ischemic Challenges and Neural Control Strategies<br><b>Siamak Salavatian, USA</b>                    |
| 08:15 - 08:30         | Selective Optogenetic Stimulation of Efferent Fibers in the Vagus Nerve<br><b>Lindsea Booth, Australia</b>  | AI-Based Outcome Prediction to Optimize Patient and Device Selection in SCS<br><b>Phillipe Rigoard, France</b>               | High-Density SCS: Selective Activation of Lower Urinary Tract Nerves<br><b>Robert Gaunt, USA</b>   | The Neurometabolic Axis: A Novel Therapeutic Target in Heart Failure<br><b>Tarun Dasari, USA</b>                 |
| 08:30 - 08:45         | Modulation of Sympathetic Nervous System for Cardiac Disease<br><b>Otuji Aijijola, USA</b>  | Practical AI Algorithm to Optimize DBS Planning and Programming<br><b>Nevaer Gallani, Brazil</b>                             | Neuromodulation for Chronic Pelvic Pain<br><b>Corey Hunter, USA</b>  | Overview Neuromodulation in Patients with Refractory Angina Pectoris<br><b>Fabienne Vervaat, The Netherlands</b> |
| 08:45 - 09:00         | Does Neuromodulation have a Role in the Management of Head & Facial Pain?<br><b>Jean-Pierre van Buyten, Belgium</b>   | AI Brain Imaging for Surgical Targeting<br><b>Noam Harel, USA</b>  | Mechanism of Actions for Sacral, Tibial and Pudendal Nerve Stimulation – Looking for Similarities and Differences<br><b>Magdy Hassouna, Canada</b> | Neuromodulation Devices for Heart Failure<br><b>Veronica Dusl, Italy</b>   |
| 09:00 - 09:15         | VNS in PTSD<br><b>Doug Bremner, USA</b>   | Mapping Functional Connectome of the Default Mode Network for Targeted Neuromodulation<br><b>Dirk de Ridder, New Zealand</b> | State-Dependent Bioelectronics Interface to Control Bladder Function<br><b>James Hokanson, USA</b>   | Vagal and Median Nerve Stimulation to Treat Arrhythmias<br><b>Natasja de Groot, The Netherlands</b>              |
| 09:15 - 09:30         | High-Frequency PNS for Post-Amputation Pain<br><b>Leo Kapural, USA</b>  | Machine Learning STN Biomarkers for PD Patient<br><b>Hagai Bergman, Israel</b>   | Closed Loop Neuromodulation in GU Dysfunction<br><b>Tim Denison, UK</b>  | DRG Stimulation for Management of Cardiovascular Disease<br><b>Alexander Green, UK</b>                           |
| 09:30 - 09:45         | Neuromodulatory Mechanisms of VNS-Enhanced Rehabilitation<br><b>Catherine Thorn, USA</b>  | Applying AI Data Science in Brain Neuromodulation for Epilepsy<br><b>Martha Morrell, USA</b>                                 | Transcutaneous Electrical Stimulation or Neurogenic Bladder following SCI<br><b>Evgeniy Kreydin, USA</b>   | A Future Perspective on Neuromodulation for Cardiovascular Diseases<br><b>Mike DeJongste, The Netherlands</b>    |
| 09:45 - 10:00         | Discussion  | Discussion   | Discussion   | Discussion   |
| 10:00 - 10:25         | Break   |  |  |  |
| 10:30 - 11:20         | Oral Poster Presentations   |  |  |  |
|                       | Neuropsychiatric Disorders: Behavioral Neuromodulation  | Stimulation for Epilepsy   | Topics in Non-Invasive Stimulation   | Neuromodulation for Cardiovascular Disorders   |
| 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<br><b>Rod Taylor, UK</b>                     |  |  |  |
| 12:00 - 12:30         | Advances in our Clinical Understanding of Autonomic Regulation Therapy Using Vagal Nerve Stimulation in Patients with Heart Failure<br><b>Jeffrey Ardell, USA</b> |  |  |  |
| 12:30 - 13:00         | Decipher Vagal Afferent Signaling Pathway from Body to Brain<br><b>Theodore Zanos, USA</b>  |  |  |  |
| 13:00 - 13:30         | INS Research Award Winners Lectures<br><b>Dominic Siler, USA; Maria Dardalat Makin, USA</b>   |  |  |  |
| 13:30 - 13:40         | Closing Comments  |  |  |  |
| 13:40                 | Congress Adjourns   |  |  |  |