



PRELIMINARY SCIENTIFIC PROGRAM

internation	ar Neuromodulation Society 12th World Congress Pr	emminary Program - 7 June
	015 - INS Preconference 2: Understanding the Mecha	anisms of Action of Neurostimulation and
Spinal Cord S	Stimulation (Total 200 minutes – Morning session)	
What do we	know now about MoA in SCS?	
09:00-09:05	Welcome and Introduction	Elliot Krames, MD /Simon Thomson, MBBS
09:05-09:20	An overview of Neurophysiological mechanisms of SCS	Michelangelo Buonocore
09:20-09:35	The neurochemistry of SCS in Neuropathic pain	Bengt Linderoth, MD, PhD
09:35-09:50	The dynamic neurophysiological measures of SCS	John Parker
09:50-010:05	The neurophysiology of SCS in neurocardiology (Ischaemia, dysrhythmmia and Heart failure)	Robert Foreman, PhD
10:05-10:20	The segmental neurophysiological mechanisms for pain inhibition from SCS	Yun Guan
10:20-10:35	Maximizing pain relief by the optimization of geometric SCS parameters	Jan Holsheimer
Coffee break ((10:35-10:55)	
Variants of S	tandard SCS	
11:00-11:15	What is Burst? Rationale?	Dirk de Ridder, MD, PhD
11:15-11:30	High Frequency Neurostimulation: Insights into Mechanisms	Kerry Bradley, PhD
11:30-11:45	DRG stimulation – Differences to standard SCS	 Elliot Krames. MD /Simon Thomson. MBBS

11:00-11:15	What is Burst? Rationale?	Dirk de Ridder, MD, PhD	
11:15-11:30	High Frequency Neurostimulation: Insights into Mechanisms	Kerry Bradley, PhD	
11:30-11:45	DRG stimulation – Differences to standard SCS	Elliot Krames, MD /Simon Thomson, MBBS	
11:45-12:15	What do we still need to know about MoA of SCS? (Panel Di	scussion – 30 mins)	
11:45-12:15	Moderators – Elliot Krames, Simon Thomson		
		John Parker	
		Michelangelo Buonocore	
		Bengt Linderots	
		Robert Foreman	
		Yun Guan	
Lunch Break	(12:15-13:15)		

International Neuromodulation Society 12th World Congress Preliminary Program - 7 June (Cont.)

	June 7th, 2015 - INS Preconference 2: Understanding the Mechanisms of Action of Neurostimulation and SCS Responder Identification (Continued)				
Spinal Cord S	timulation (Total 180 mins – Afternoon session)				
Translation in	nto the clinical perspective				
13:15-13:35	Evaluation of preclinical pain models: somatic vs visceral	Professor Fernando Cervero			
13:35-13:55	Translational models of human visceral pain: learning from mistakes and the way forward?	ТВА			
13:55-14:15	Quantitative Sensory Testing: Can we diagnose?	Dr. Vivek Metha			
14:15-14:35	Machine learning approaches for the detection of acute and chronic pain: promises and limitations	Sean Mackey, MD, PhD			
Tea Break – 2	20 mins (14:35-14:55)				
	Disease Markers as Predictors of SCS outcome (Panel Discussion – 50 mins) Moderators – Elliot Krames, Simon Thomson				
14:55-15:05	Clinical Markers review	Tracy Cameron, PhD			
15:05-15:15	Quantitative Sensory Testing	Dr. Vivek Metha			
15:15-15:25	fMRI	Sean Mackey, MD, PhD			

John Parker

Joshua Gunn, PhD

15:25-15:35 **ECAPS**

15:35-15:45 **Biological markers of pain**

International Neuromodulation Society 12th World Congress Preliminary Program - 8 June

TIMES	Monday, 8 June A	Monday, 8 June B	Monday, 8 June C	Monday, 8 June D		
	Opening Plenary Session					
08:00 - 08:30	Call to Opening of the Meeting: Timothy Deer, MD, Simon Thomson MBBS, FRCA, Michel Prudhomme, MD, PhD (08:00 - 08:15) Setting a Global Target: Neuromodulation Accessibility for All Who Need It Marc Russo, MBBS (08:15 - 08:30)					
08:30 - 09:30	The Future of Medicine: The Evolution of the Field Moderator: Elliot Krames, MD Bioelectronic medicines –bringing precision neuromodulation at peripheral nerves to a broad range of chronic diseases Kristoffer Famm, PhD (15 min - 08:30-08:45) Neurophysiological and molecular basis for reflex control of inflammation Kevin Tracey, MD, PhD (15 min - 08:45-09:00) Distance and Neuromodulation Ivar Mendez, MD, PhD (15 min - 09:00-09:15)					
09:30 - 10:00	International Perspectives And Comparisons Of Prospective Research: Dorsal Root Ganglion Spinal Cord Stimulation International Jean-Pierre Van Buyten, MD, and Liong Liem, MD US Peter Staats, MD and Timothy Deer, MD					
10:00 - 10:25		Break, Poste	rs & Exhibits			
10:30 - 11:00	Long Term Follow Up of US Pivotal For High Frequency Spinal Cord Stimulation Leonardo Kapural, MD, PhD and Kasra Amirdelfan, MD					
11:00 - 11:30	Overcoming Hurdles in Neuro Simon Thomson, MBBS, FRCA	-	nodulation the Standard in Di	sease Treatment		
Oral Poster Presentations		8 Minute Presentation & 2 Minute Q & A				
11:30 - 11:40	1					
	2					
11:50 - 12:00	3					
12:00 - 12:10	4					
12:10 - 12:20	5					
12:30 - 14:30		Lunch, Poster	s and Exhibits			

International Neuromodulation Society 12th World Congress Preliminary Program - 8 June (Cont.)

Times	Monday, 8 June A	Monday, 8 June B	Monday, 8 June C	Monday, 8 June D
Breakout Presentations	Neuromodulation for Pain Breakout 1: Moderator: Joshua Prager, MD	Neuromodulation for Epilepsy Breakout 2: Moderators: Ashwini Sharan, MD & Guoming Luan, MD, PhD	Neuromodulation for Pelvic Organ Motility Disorders and Pain Breakout 3: Moderator: Magdy Hassouna, MD, PhD, FRCSC	Non-Invasive Brain Stimulation and Stroke Recovery Breakout 4: Moderators: Rebeca Boltes Cecatto PhD, MD & Werner Braunsdorf, MD
14:30 - 14:45	Pathophysiological mechanisms of CRPS and its insights into Treatment Frank Huygen, MD, PhD	Update on VNS for Epilepsy Paul Boon, MD	NM for Urological diseases Magdy Hassouna, MD, PhD, FRCSC	Non-Invasive Brain Stimulation in Stroke: Analysis of Stimulation Methods, Parameters, Trial Design and Outcomes Marcel Simis, MD, PhD
14:45 - 15:00	Pathophysiological mechanisms of CRPS and its insights into Treatment, continued. Frank Huygen, MD, PhD	Update on rTMS for Epilepsy Felipe Fregni, MD, PhD	Sacral NM for pelvic floor disorders Magdy Hassouna, MD, PhD, FRCSC	Motor Recovery and Neuroplasticity After FES Rebeca Boltes Cecatto PhD, MD
15:00 - 15:15	The pathophysiology of complex regional pain syndrome and history of treatment algorithms Michael Stanton Hicks MB BS, Dr med, FRCA	Update on Anterior Thalamic DBS for Epilepsy Robert Gross, MD, PhD	Neuromodulation in Chronic abdominal Pain and Pelvic Pain Including Ultrasound Mayank Gupta, MD	Navigated rTMS Combined with Task-oriented Therapy for stroke related motor deficits Richard Harvey, MD
15:15 - 15:30	Review of the literature of neurostimulation for complex regional pain syndrome Salim Hayek, MD, PhD	Responsive Brain Stimulation for Epilepsy Martha Morrell, MD, PhD	What technological and medical improvements are needed for Sacral nerve stimulation to really catch on? Michele Spinelli, MD	Motor Learning and Cortical Plasticity Induced Noninvasive Brain Stimulation Felipe Fregni, MD, PhD, MPH
15:30 - 15:45	Integrating Neuromodulation into the treatment algorithm for CRPS Joshua Prager, MD	Hippocampal DBS for Epilepsy Arthur Cukiert, MD, PhD	SNS for Colorectal Disease: An Update Charles Knowles, MBBChir, MA, PhD, FRCS	
15:45 - 16:00	PANEL ALL Discussion	Optogenetic Strategies for Epilepsy Robert Gross, MD, PhD	Discussion	Discussion
16:00 - 16:30		Break, Posters & Exhibits		
Oral Poster Presentations	8 Minute Presentation & 2 Minute Q & A			
16:30 - 18:00	Pain	Brain	Breakout 3	Breakout 4

International Neuromodulation Society 12th World Congress Preliminary Program - 9 June

TIMES	Tuesday, 9 June A	Tuesday, 9 June B	Tuesday, 9 June C	Tuesday, 9 June D
	Plenary Session			
08:00 - 09:40	Sensors, Monitors, Analytics and Feedback systems: Current and Future Applications for Neuromodulation Moderators: Peter Konrad, MD, PhD and Ali Rezai. MD Sensors in Medicine: 2015 and beyond Ali Rezai, MD (08:00-08:20) Sensors for Human Performance and Augmentation Scott Galster, PhD (08:20-08:40) Heart Failure Jeffrey Ardell, PhD (08:40-09:00) Spinal cord and epilepsy neuromodulation Ashwini Sharan, MD (09:00-09:20) Discussion (9:20-9:40)			
09:45 - 10:00	Spinal Cord Stimulation to T Animal Data Timothy Deer, N Human Data Hung-Fat Tse, N	ИD (9:45-9:50)		
10:00 - 10:25		Break, Poste	rs & Exhibits	
10:30 - 11:30	Is Paresthesia Free Stimulation The Future of Spinal Cord Stimulation? Moderated by Timothy Deer, MD and David Kloth, MD Parasthesia Free: The Evidence: Advocates: Marc Plazier, MD / Adnan Al Kaisy, MB ChB, FRCA / Paul Verrills, MD We need Parasthesias to produce pain Relief: The Advocates: Eric Buchser, MD, Salim Hayek, MD, PhD & Ramsin Benyamin, MD			
Oral Poster Presentations		8 Minute Presentation	on & 2 Minute Q & A	
11:30 - 11:40	1			
11:40 - 11:50	2			
11:50 - 12:00	3			
12:00 - 12:20		INS Genera	al Assembly	
12:30 - 14:30		Lunch, Poster	s and Exhibits	
Breakout Presentations	Neuromodulation for Cardiovascular Disorders Breakout 1: Moderators: Mike DeJongste, MD, PhD and Robert Foreman, PhD	Breakout 2: Moderators: Damianos Sakas, MD, PhD &	Neurolytics and Neuromodulation in Cancer Pain Breakout: Moderator: Allen Burton, MD	Neurostimulation for Motor and Metabolic Disorders? Breakout 4: Moderators: Tom Abell, MD and Jiande Chen, PhD
14:30 - 14:45	SCS for Vascular Disease Shoaeddin Damirchi, MD	Motor Cortex Stimulation for Pain: Evidence and Progresss Alessandro Dario, MD	Technological advances in Neurolytics and Neuromodulation Amitabh Gulati, MD	Gastric neuromodulation for gut dysmotility Thomas Abell, MD
14:45 - 15:00	Neuromodulation for Angina Sam Eldabe, MBBS, FRCA	Pledimonte MI) and luan	Update on pharmacokinetics and dynamics of the intrathecal space Christophe Perruchoud, MD	Intestinal neuromodulation for diabetes Jiande Chen, PhD

International Neuromodulation Society 12th World Congress Preliminary Program - 9 June (Cont.)

TIMES	Tuesday, 9 June A	Tuesday, 9 June B	Tuesday, 9 June C	Tuesday, 9 June D
Breakout Presentations	Neuromodulation for Cardiovascular Disorders Breakout 1: Moderators: Mike DeJongste, MD, PhD and Robert Foreman, PhD	Breakout 2: Moderators: Damianos Sakas, MD, PhD & Takamitsu Yamamoto, MD,	Neurolytics and Neuromodulation in Cancer Pain Breakout : Moderator: Allen Burton, MD	Neurostimulation for Motor and Metabolic Disorders? Breakout 4: Moderators: Tom Abell, MD and Jiande Chen, PhD
15:00 - 15:15	SCS for Heart Failure John Lopshire, MD	for Chronic Pain Julie	Functional Rehabilitation in Cancer Pain Brian Bruel, MD	Gastric neuromodulation for obesity Jieyun Yin, MD
15:15 - 15:30	Neuromodulation for Arrythmias Heinz Theres, MD, PhD	Peripheral Nerve	Intrathecal Drug Delivery in Treating Cancer Pain Louise Lynch, MD	Gastric neuromodulation for children Todd Ponsky, MD
15:30 - 15:45	Progress in Neuromodulation for Heart Diseases Mike DeJongste, MD, PhD	for Chronic Migraine Genni Duse MD	Newest Concepts in Intrathecal Drug Delivery for Cancer Pain Lisa Stearns, MD	GI Neurostimulaton for Functional Bowel disease Jieyun Yin, MD
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion
16:00 - 16:30		Break, Poste	rs & Exhibits	
Oral Poster Presentations	Cardiovascular Diseases	Brain	Specialty	Specialty
16:30 - 16:40				
16:40 - 16:50				
16:50 - 17:00				
17:00 - 17:10				
17:10 - 17:20				
17:20 - 17:30				
17:30 - 17:40				
17:40 - 17:50				
17:50 - 18:00				

International Neuromodulation Society 12th World Congress Preliminary Program - 10 June

TIMES	Wednesday, 10 June A	Wednesday, 10 June B	Wednesday, 10 June C	Wednesday, 10 June D		
		Plenary Session Moderator: Robert Levy, MD, PhD				
08:00 - 08:30	Innovations in GI Neurostimu	ulation Thomas Abell, MD and	Jiande Chen, PhD			
08:30 - 09:00		Spinal Cord Stimulation for clinical severe neuropathic pain: New horizons and Translational Research; Bert Joosten, PhD, Bengt Linderoth, MD, PhD, Robert van Dongen, MD, PhD				
09:00 - 09:30	Current Practices and Manag Provenzano, MD	Current Practices and Management Infection and implantable Devices: Current Practices and Management David Provenzano, MD				
09:30 - 10:00	Current Practices and Manag Pro; General Ashwini Shara	gement Spinal Cord Stimulation, MD Can.	on Anesthesia choices and sa	afety; Steven Falowski, MD,		
10:00 - 10:25		Break, Poste	rs & Exhibits			
10:30 - 11:00		Neuroimaging And The Use of Approaches In Neuromodulati				
11:00 - 11:30	The Use of Deep Brain Stimu	lation for Alzheimer's Disease	Andres Lozano, MD, PhD			
Oral Poster		8 Minute Presentation	on & 2 Minute Q & A			
Presentations						
11:30 - 11:40 11:40 - 11:50	1					
11:50 - 12:00	2					
12:00 - 12:10	4	3				
12:10 - 12:20	7	Giant of Neurom	odulation Award			
12:30 - 14:30		Lunch, Poster				
Breakout Presentations	Evaluating Outcomes in Neuromodulation Breakout 1: Moderator: Roger Strachan, MD, FRCS & Wojciech Maksymowicz, Prof. dr hab.n.med.	Current State of Brain Neuromodulation for Disorders of Cognition and	Neuromodulation for Spasticity Breakout 3: Moderator: Michael	The Dark Side of the Moon Breakout 4: Moderator: Ivano Dones, MD		
14:30 - 14:45	Capturing Outcomes in NM In Neuropathic Pain; From Subjective to Objective Michael Gofeld, MD Brain Circuits and Networks Ali Rezai, MD Continuous intrathecal baclofen trialing Michael Munin, MD SCS Mario Meglio, MD, PhD					
14:45 - 15:00	Multidimensional Evaluation and E-Medicine Philippe Mavrocordatos, MD	DBS for Depression Darin D. Dougherty, MD	Utility of electrophysiological techniques in the management of intrathecal baclofen patients Stuart Yablon, MD	ITB Mohamed Ali Jamous, MD, MSc		

International Neuromodulation Society 12th World Congress Preliminary Program - 10 June (Cont.)

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International Neuromodulation Society 12th World Congress Preliminary Program - 11 June

TIMES	Thursday, 11 June A	Thursday, 11 June B	Thursday, 11 June C	Thursday, 11 June D
Breakouts	Pain Breakout 1: Peripheral Nerve Stimulation Moderators: Alexandre Francisco, MD & Marc Huntoon, MD	Spinal Cord Injury Breakout 2: Moderators:	Specialty Breakout 3: Intrathecal Drug Delivery Moderator: Joshua Prager, MD	Specialty Breakout 4: Cost Effectiveness for Neuromodulation Moderator: Nagy Mekhail, MD, PhD
08:00 - 08:15	The evolution of PNS to a minimally invasive, ultrasound-guided percutaneous lead placement procedure Kenneth Aló, MD	Transcutaneous Electrical Stimulation for Bedsore Management Vivian Mushahwar, PhD	Systemic Opioid Cessation in Intrathecal Drug Delivery David Caraway, MD, PhD	Cost and Longevity of ITP Nagy Mekhail, MD, PhD
08:15 - 08:30	Reducing PNS complications by selecting the optimal lead, placement method, and anchoring technique for each indication Leonardo Kapural, MD, PhD		Best Practices for Intrathecal Drug Delivery: Patient Safety v. FDA Concerns Joshua Prager, MD	Health Care Utilization in Parkinson's Disease Jeff Arle, MD, PhD
08:30 - 08:45	Can an extended one- month trial of PNS be used as a therapy without a permanent implant in some patients? John Chae, MD	Direct Spinal Cord Stimulation for Paralysis Vivian Mushahwar, PhD	Effects of Bolus Dosing on Granuloma and Outcomes Jason Pope, MD	Health Care Utilization in Peripheral Nerve Stimulation Konstantin Slavin, MD
	Making Percutaneous PNS more accessible and reliable Marc Huntoon, MD	Neural Prosthetics for Brain and Spinal Injury TBA	Continuity of Care in Intrathecal Drug Delivery Lawrence Poree, MD, PhD	Health Care Utilization in the Future of Neuromodulation Ali Rezai, MD
09:00 - 09:15	Neuromodulation of the Peripheral Nerves: A Review of the Prospective Literature and Registry Data Porter McRoberts, MD	IDeen Brain Stimiliation for	Intrathecal Therapy or Spinal Cord Stimulation. The Decision Points Jason Pope, MD	Patient access with Governmental Payors Simon Thomson, MBBS, FRCA
09:15 - 09:30	Peripheral Nerve Stimulation: Combined Use with SCS Eugene Mironer, MD	New Concepts in Neuromodulation for the Brain Michel Prudhomme, MD, PhD	The Past, Present and Future of Intrathecal Drug Delivery Maged Hamza, MD	Patient Access with Private Insurance Ganesan Baranidharan, MBBS, FRCA
09:30 - 09:45	Prospective Evaluation of a New Device for Peripheral Nerve Stimulation Ramsin Benyamin, MD	Neuromodulation of the Brain for Dystonia Fabian Piedimonte, MD	The Past, Present and Future Drug Jay S. Grider, DO, PhD	Peripheral Nerve Stimulation Giancarlo Barolat, MD

International Neuromodulation Society 12th World Congress Preliminary Program - 11 June (Cont.)

TIMES	Thursday, 11 June A	Thursday, 11 June B	Thursday, 11 June C	Thursday, 11 June D
10:00 - 10:30		Bre	eak	
Oral Poster Presentations	Pain	Brain	Specialty Breakout 3	Specialty Breakout 4
10:30 - 10:40				
10:40 - 10: 50				
10:50 - 11:00				
11:00 - 11:10				
11:10 - 11:20				
11:20 - 11:50	Functional Investigation of the Brain with Neuromodulation Itzhak Fried, MD, PhD			
11:50-12:20	MRI Guided Ultrasound Jin Woo Chang, MD, PhD DBS for Addictions and Eating Disorders Bomin Sun, MD			
12:20-12:50	Improving Patient Safety and Product Improvement in Neuromodulation: Reaching a Goal Through Collaboration Robert Levy, MD, PhD			
12:50-13:00	Farewell & Meeting Adjourns	Timothy Deer, MD, Simon T	homson, MBBS, FRCA, Michel	Prudhomme, MD, PhD