

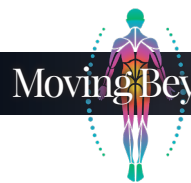


Tuesday, July 26th

KENTUCKY INTERNATIONAL CONFERENCE CENTER  
BALLROOMS D & E

7:00 – 7:45am	Registration
7:45 – 8:00am	Opening Remarks Susan Harkema and David Magnuson Kentucky Spinal Cord Injury Research Center
8:00 – 8:45am	Keynote Speech Steven Kirshblum • Kessler Institute for Rehabilitation <i>Spinal Cord Injury as a Whole Body System: Biology and the Hope of Neuromodulation</i> Honorary Chair: Natalie Barrett
<b>SESSION ONE</b> 8:45 – 8:55am	<b>METABOLIC DISEASES</b> Chair: Dana McTigue • Ohio State University College of Medicine Honorary Chair: Marissa Kirkling
8:55 – 9:15am	David Gater, Jr. • The Miami Project to Cure Paralysis <i>Neurogenic Obesity after Spinal Cord Injury: Metabolic Melee</i>
9:15 – 9:25am	Q&A with David Gater, Jr.
9:25 – 9:45am	Phillip Popovich • Ohio State University College of Medicine <i>Dysautonomia as a Unifying Neurogenic Feature of Multi-organ Pathology After Spinal Cord Injury</i>
9:45 – 9:55am	Q&A with Phillip Popovich
9:55 – 10:15am	Mark Nash • University of Miami Miller School of Medicine <i>Inhibition of Myostatin Expression as a Countermeasure to Sarcopenic Obesity Following Spinal Cord Injury</i>
10:15 – 10:25am	Q&A with Mark Nash
10:25 – 10:40am	Break and Posters Review
10:40 – 11:00am	J. Andrew Taylor • Harvard Medical School Department of Physical Medicine and Rehabilitation <i>Hybrid-FES Exercise and Erogenic Aids: The Next Step for High Intensity Exercise in Spinal Cord Injury</i>
11:00 – 11:10am	Q&A with J. Andrew Taylor
11:10 – 11:30am	Panel Discussion
11:30am – 12:30pm	Lunch
<b>SESSION TWO</b> 12:30 – 12:40pm	<b>MUSCLE AS AN ENDOCRINE ORGAN</b> Chair: David Magnuson • Kentucky Spinal Cord Injury Research Center Honorary Chair: Paul Erway
12:40 – 1:00pm	David Ditor • Brock University Department of Kinesiology <i>High Quality Weight Loss After Spinal Cord Injury: Can Lean Mass Be Preserved While Fighting Obesity?</i>
1:00 – 1:10pm	Q&A with David Ditor

1:10 – 1:30pm	Karyn Esser • University of Florida Health Department of Physiology and Functional Genomics <i>Exercise and Muscle Clocks; Role for Scheduled Exercise?</i> Q&A with Karyn Esser
1:30 – 1:40pm	
1:40 – 2:00pm	Christopher Cardozo • Icahn School of Medicine at Mount Sinai <i>Exercise Corrects Perturbation of the Hepatokine-adipokine Axis of Spinal Cord Injury Mice</i> Q&A with Christopher Cardozo
2:00 – 2:10pm	
2:10 – 2:30pm	Panel Discussion
2:30 – 2:45pm	Break and Posters Review
<b>SESSION THREE</b>	<b>AUTONOMIC CARDIOVASCULAR DYSFUNCTION IN SCI: PRESENTATION, CONSEQUENCES, TREATMENTS</b>
2:45 – 2:55pm	Chair: Jill Wecht • James J Peters VAMC and Icahn School of Medicine, Mount Sinai Honorary Chair: Rob Wudlick
2:55 – 3:15pm	David Goldstein • NINDS Autonomic Medicine Section <i>The Extended Autonomic System, Homeostasis, and Biocybernetics</i> Q&A with David Goldstein
3:15 – 3:25pm	
3:25 – 3:45pm	Andrei Krassioukov • University of British Columbia Division of Physical Medicine and Rehabilitation <i>Neuromodulation for Restoration of Autonomic Functions After Spinal Cord Injury</i> Q&A with Andrei Krassioukov
3:45 – 3:55pm	
3:55 – 4:15pm	Jill Wecht • James J Peters VAMC and Icahn School of Medicine, Mount Sinai <i>Autonomic Cardiovascular Dysfunction in Spinal Cord Injury: Presentation, Consequences, Treatments</i> Q&A with Jill Wecht
4:15 – 4:25pm	
4:25 – 4:45pm	Panel Discussion
4:45 – 5:45pm	Keynote Speech Sten Grillner • Karolinska Institute Department of Neuroscience, Stockholm <i>The Intrinsic Capacity of the Spinal Cord to Coordinate Movements, and its Control From Brainstem and Forebrain</i> Honorary Chair: Rob Summers
5:45 – 6:30pm	Transportation to Dinner
6:30pm	Symposium Dinner • Churchill Downs

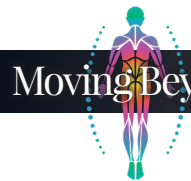


Wednesday, July 27th

KENTUCKY INTERNATIONAL CONFERENCE CENTER  
BALLROOMS D & E

7:00 – 7:45am	Registration
7:45 – 8:00am	Opening Remarks
8:00 – 8:45am	Keynote Speech Karen Minassian • Medical University of Vienna <i>History and Overview of Epidural and Transcutaneous Spinal Cord Stimulation Strategies for Motor Recovery</i> Honorary Chair: Jerod Nieder
<b>SESSION FOUR</b> 8:45 – 8:55am	<b>TRANSCUTANEOUS STIMULATION: MOTOR SYSTEMS</b> Chair: Karen Minassian Honorary Chair: Mike Nichols
8:55 – 9:25am	Yury Gerasimenko • Kentucky Spinal Cord Injury Research Center and Pavlov Institute <i>Multi-modal Stimulation for the Recovery of Posture and Locomotion</i>
9:25 – 9:45am	Ursula Hofstötter • Medical University of Vienna <i>Transcutaneous Spinal Cord Stimulation for Enhancing Locomotor Activity and Controlling Spasticity</i>
9:45 – 9:55am	Q&A with Ursula Hofstötter
9:55 – 10:15am	Break and Posters Review
10:15 – 10:35am	Gail Forrest • Kessler Foundation <i>Multi-modal Transcutaneous Stimulation for Upper and Lower Extremity Recovery</i>
10:35 – 10:45am	Q&A with Gail Forrest
10:45 – 11:05am	V. Reggie Edgerton • University of California, Los Angeles <i>It is What We Think We Know Already That Often Prevents Us From Learning</i>
11:05 – 11:15am	Q&A with V. Reggie Edgerton
11:15 – 11:45am	Panel Discussion
11:45am – 12:30pm	Plenary Lecture Grégoire Courtine • Swiss Federal Institute of Technology <i>Mechanism-driven Technologies and Therapies for Spinal Cord Injury</i> Honorary Chair: Trish Taylor
12:30– 1:30pm	Sponsored Lunch: ONWARD • Dave Marver ONWARD - Delivering Breakthrough SCI Therapies for Research and Clinical Practice

<b>SESSION FIVE</b> 1:30 – 1:40pm	<b>EPIDURAL STIMULATION: MOTOR SYSTEMS</b> Chair: Kristin Zhao • Mayo Clinic Department of Physical Medicine and Rehabilitation Honorary Chair: Devina Robles
1:40 – 2:10pm	Marco Capogrosso • University of Pittsburgh Department of Neurological Surgery <i>Computer Models in the Understanding of Electrical Epidural Stimulation for the Recovery of Motor Control</i> Q&A with Marco Capogrosso
2:10 – 2:20pm	
2:20 – 2:40pm	Igor Lavrov • Mayo Clinic Departments of Neurology and Biomedical Engineering <i>Merging Neuromodulation and Neuroregeneration Therapy for Spinal Cord Injury</i> Q&A with Igor Lavrov
2:40 – 2:50pm	
2:50 – 3:05pm	Break and Posters Review
3:05 – 3:25pm	Enrico Rejc • Kentucky Spinal Cord Injury Research Center <i>Spinal Cord Epidural Stimulation to Promote Standing Motor Function Recovery After Motor Complete Spinal Cord Injury</i> Q&A with Enrico Rejc
3:25 – 3:35pm	
3:35 – 3:55pm	Claudia Angeli • Kentucky Spinal Cord Injury Research Center <i>From Modulation to Recovery: Crossing the Threshold</i> Q&A with Claudia Angeli
3:55 – 4:05pm	
4:05 – 4:25pm	Panel Discussion
4:25 – 5:25pm	Panel Discussion: <i>Performance Focused Neuromodulation</i> Megan Gill • Mayo Clinic Claudia Angeli • Kentucky Spinal Cord Injury Research Center
5:25 – 7:00pm	Cocktail Reception and Posters Review
7:00pm	<i>"Rise Up: Discovering Hope"</i> Feature-length Documentary Premiere



Thursday, July 28th

KENTUCKY INTERNATIONAL CONFERENCE CENTER  
BALLROOMS D & E

7:00 – 7:45am	Registration
7:45 – 8:55am	SPECIAL PRESENTATION <i>How to Stimulate: Tonic-integrated Network Focused? Spatial Temporal Dorsal Root Focused?</i> Presenters: Claudia Angeli; Grégoire Courtine; V. Reggie Edgerton; Susan Harkema; Igor Lavrov
<b>SESSION SIX</b>	<b>NEUROSURGICAL APPROACHES AND THE CLINICAL FUTURE OF NEUROMODULATION</b>
8:55 – 9:05 am	Chair: James Guest • University of Miami Miller School of Medicine Honorary Chair: Henry G. Stifel, III
9:05 – 9:25 am	James Guest • The Miami Project to Cure Paralysis <i>Combined Neuromodulatory Approaches to Amplify Recovery After Spinal Cord Injury</i>
9:25 – 9:35 am	Q&A with James Guest
9:35 – 9:55 am	Maxwell Boakye • Kentucky Spinal Cord Injury Research Center <i>Patient Selection, Risk Mitigation and Optimization of Surgical Technique and Implant Position</i>
9:55 – 10:05 am	Q&A with Maxwell Boakye
10:05 – 10:25 am	David Darrow • University of Minnesota Medical School <i>Patient-in-the-loop Optimization of Spinal Cord Stimulation for Spinal Cord Injury</i>
10:25 – 10:35 am	Q&A with David Darrow
10:35 – 11:05 am	Panel Discussion
11:05 – 11:25 am	Break and Posters Review

<b>SESSION SEVEN</b>	<b>INTERSYSTEMS, HEALTH, AND COMMUNITY INTEGRATION OF NEUROMODULATION</b>
11:25 – 11:35 am	Chair: Susan Harkema Honorary Chair: Deanna Laing
11:35 – 11:55 am	Aaron Phillips • University of Calgary, Cumming School of Medicine <i>A Mechanism-guided Cardiovascular Stabilizing System For Spinal Cord Injury</i>
11:55 am – 12:05 pm	Q&A with Aaron Phillips
12:05 – 1:00 pm	Lunch
1:00 – 1:20 pm	Charles Hubscher • Kentucky Spinal Cord Injury Research Center <i>Cardiovascular and Bladder Integrated</i>
1:20 – 1:30 pm	Q&A with Charles Hubscher
1:30 – 1:50 pm	Ona Bloom • Feinstein Institutes for Medical Research, Northwell Health <i>Immune System</i>
1:50 – 2:00 pm	Q&A with Ona Bloom
2:00 – 2:20 pm	Susan Harkema • Kentucky Spinal Cord Injury Research Center <i>Neuromodulation for Whole Body Systems</i>
2:20 – 2:30 pm	Q&A with Susan Harkema
2:30 – 3:00 pm	Panel Discussion
3:00 – 3:15 pm	Break and Posters Review
<b>SESSION EIGHT</b>	<b>INTEGRATION OF COMMUNITY, INDUSTRY, SCIENCE, AND FUNDERS</b>
3:15 – 5:00 pm	Stakeholders' Roundtable