

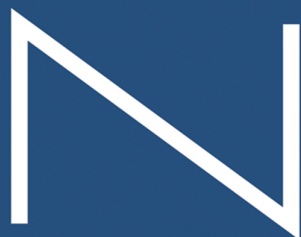
A N N U A L
SCIENTIFIC
MEETING

OCT 4 & 5 • 2020

The meeting will go on...

**ALL
ONLINE!**

ASIA
AMERICAN SPINAL INJURY ASSOCIATION



CRAIG·H
NEILSEN
FOUNDATION

A PROUD SPONSOR OF THE 2020 ANNUAL SCIENTIFIC MEETING




The Craig H. Nielsen Foundation's funding is dedicated to supporting both programs and scientific research to improve the quality of life for those affected by and living with spinal cord injury.

To learn more about funding opportunities, visit our website at www.chnfoundation.org.

SUNDAY, OCTOBER 4TH

| TIME (EST) | CONFERENCE ROOM 1 | CONFERENCE ROOM 2 | CONFERENCE ROOM 3 |
|--------------------|---|--|---|
| 9:00 – 10:00 am | Mentor/Mentee Breakfast: Meet the ASIA Early Career Committee and learn about the new ASIA Mentorship Program | | |
| 10:00 – 10:05 am |  <p>Welcome and Introduction Andrei Krassioukov, MD, PhD, FRCPC ASIA President (2019 - 2021) ICORD-BCSS, UBC GF Strong Rehabilitation Centre Vancouver, Canada</p> | | |
| 10:05 – 10:35 am |  <p>Lifetime Achievement Award – Diana Cardenas, MD, MHA <i>Presented by Amie McLain, MD, FASIA</i> Diana Cardenas, MD, MHA will be honored as the ASIA 2020 Lifetime Achievement Award recipient. Dr. Cardenas is a physiatrist with an academic career of more than 40 years and a clinical, teaching, administrative, and research career primarily focused on spinal cord injury.</p> | | |
| 10:35 – 11:25 am |  <p>G. Heiner Sell Lecture – Miguel Nicolelis, MD, PhD “Brain-machine interfaces: from Basic Science to Neurological Rehabilitation” Miguel Nicolelis, MD, PhD, Distinguished Professor at Duke University and founder of Duke’s Center for Neuroengineering, whose influential work in mammalian brain circuits have guided development of impactful technologies such as brain-machine interfaces.</p> | | |
| 11:25 – 11:35 am | Passing Period | | |
| 11:35 am – 1:00 pm | <p>COURSE 1 SCI Clinical Trials by SCOPE: Considering Traditional RCT Study Protocols with Adaptive Design Approaches Moderator: <i>John Steeves, PhD, FASIA</i></p> | <p>COURSE 2 The Hand and Upper Extremity in Spinal Cord Injury – The Full Spectrum of Management Moderator: <i>Allan Peljovich, MD</i></p> | <p>General Session: Acute Care & Mixed Papers O-7, O-8, O-9, O-10, O-11, O-32, O-33</p> |
| 1:00 – 1:05 pm | Passing Period | | |
| 1:05 – 2:00 pm | <p>AWARD ELIGIBLE ORAL PRESENTATIONS <i>Moderator: Mark Nash, PhD</i></p> | | |
| | <p>O-1. Development of a Standardized Normative Pediatric Spinal Cord structural template – <i>Shiva Shabrampour, MS</i></p> <p>O-2. Transplantation of autologous human Schwann cells accompanied by rehabilitation in participants with chronic spinal cord injury – <i>Katie Gant, PhD</i></p> <p>O-3. Survival in Patients after Spinal Cord Injury – Evidence for an Obesity paradox – <i>Jan Schwab, MD, PhD</i></p> | <p>O-4. A deep learning approach for detecting hand-object interactions from egocentric videos after cervical spinal cord injury: First results in the home environment – <i>Andrea Bandini, PhD</i></p> <p>O-5. Targeted spinal cord stimulation and neurorehabilitation for restoring leg motor control in individuals with spinal cord injury – <i>Laura McCracken</i></p> <p>O-6. Cardiac-focused hemodynamic management mitigates increases to spinal cord anaerobic metabolism in a porcine model of acute high-thoracic spinal cord injury – <i>Alexandra Williams, PhD</i></p> | |

SUNDAY, OCTOBER 4TH

| TIME (EST) | CONFERENCE ROOM 1 | CONFERENCE ROOM 2 | CONFERENCE ROOM 3 |
|----------------|---|--|---|
| 2:00 – 3:00 pm | Lunch Break | | |
| 3:00 – 4:00 pm | <p>COURSE 4 TRIP Recommendations for Evaluation of Neurogenic Bladder and Bowel Dysfunction after Spinal Cord Injury and/or Disease Moderator: <i>Tracey Wheeler, PhD</i></p> | <p>COURSE 5 Refining Outcome Measurements in Humans with Spinal Cord Injury Moderators: <i>Monica Perez, PhD & Allen Heinemann, PhD</i></p> | |
| 4:00 – 4:30 PM | <p>SPONSOR EVENT Please join and thank our generous conference supporters who remain loyal to our mission and annual meeting. Online attendees will have an opportunity to win several prizes during this session.</p> | |  |
| 4:30 – 4:40 pm | Passing Period | | |
| 4:40 – 5:40 pm | <p>COURSE 6 TRIP Novel Findings in the Development and Prevention of Neuropathic Pain and the Impact on Neurological Recovery: Findings from Bench to Bedside to Bench. Moderator: <i>Linda Jones, PT, PhD</i></p> | <p>COURSE 7 A Critical Analysis of Four Major New Technological Innovations for Treatment of Chronic Incomplete Spinal Cord Injury Moderator: <i>William Rymer, MD, PhD</i></p> | <p>COURSE 8 Networking Tips for Early Career Members: Conquering an International Conference and Identifying Opportunities for Meeting New Mentors Moderator: <i>Stephanie Kolakowsky-Haymer, PhD, CBIST</i></p> |

5:40 pm

Presidential Reception

Hosted by Andrei Krassioukov, MD, PhD, FRCPC



Hors d'oeuvres and Cocktails with Andrei and Chef Richard Sudberry

MONDAY, OCTOBER 5TH

| TIME (EST) | CONFERENCE ROOM 1 | CONFERENCE ROOM 2 | CONFERENCE ROOM 3 |
|---------------------|--|--|---|
| 10:00 – 10:30 am | Virtual Coffee with ASIA President Andrei Krassioukov, MD, PhD, FRCPC | | |
| 10:30 – 10:40 am | Passing Period | | |
| 10:40 – 11:40 am | COURSE 9 TRIP Breathing after Spinal Cord Injury: Plasticity and Therapeutic Advances Moderator: Warren Alilain, PhD | COURSE 10 Transitions of Care: Why They Matter for People with SCI, Clinicians, and Researchers Moderator: Chloe Slocum, MD | General Session: Outcomes & Craig H. Neilsen 2017 & 2018 Awardees O-12, O-13, O-14, O-15 |
| 11:40 am – 12:10 pm | scitrialsfinder.net Get Updates on this new, invaluable website that provides individuals with SCI, their families and health care professionals information about clinical trials. Presenters: Paulina Scheuren and Robin Lütolf | | |
| 12:10 – 12:20 pm | Passing Period | | |
| 12:20 – 1:20 pm | COURSE 11 TRIP The Continuum Between Swallow and Dysphagia is Not Simple Following Neural Injury Moderator: Teresa Pitts | COURSE 12 The Official Positions of the International Society for Clinical Densitometry: Indications for Bone Density Testing in Spinal Cord Injury Moderator: Leslie Morse, DO | General Session: Cardiovascular & DiMarco 2019 Awardees O-16, O-17, O-18, O-19 |
| 1:20 – 2:20 pm | Lunch Break | | |
| 2:20 – 2:50 pm | General Session: Upper Extremity Function O-20, O-21, O-22 | General Session: Mixed Topics O-24, O-25, O-34 | |
| 2:50 – 3:00 pm | Passing period | | |
| 3:00 – 4:00 pm | 2020 Annual Meeting Awards Session • Fellow of ASIA Awards • Neilsen Foundation Allied Health Professional Research Award of ASIA • Apple Award • Vogel Award • Mulcahey Award • TRoHNS Award • Anthony DiMarco Award • Top 3 Oral Talk Awards | | |

MONDAY, OCTOBER 5TH

| TIME (EST) | CONFERENCE ROOM 1 | CONFERENCE ROOM 2 | CONFERENCE ROOM 3 |
|----------------|--|---|---|
| 4:00 – 4:45 pm |  <p>Keynote Speaker – Dr. Federico Montero <i>Presented by Camilo Castillo, MD</i> “Spinal Cord Injuries in Latin America and the Caribbean (LAC) History and Perspective of a Journey” Federico Montero, MD, Deputy Director at the National Rehabilitation Centre of Costa Rica. Dr. Montero has worked for the World Health Organization as the Coordinator of the Disability and Rehabilitation Team, and is an expert on advocacy, access, and rights for persons with disabilities.</p> | | |
| 4:45 – 4:55 pm | Passing Period | | |
| 4:55 – 5:55 pm | <p>COURSE 13 TRIP The Spectrum of Translational Research in Spinal Cord Injury: Examples, Obstacles, and Victories Moderator: <i>Argyrios Stampas, MD</i></p> | <p>COURSE 14 America’s Perspectives on Spinal Cord Injury Care Moderator: <i>Camilo Castillo, MD</i></p> | <p>COURSE 15 Spinal Cord Injury, Disasters and Climate Change: What Professionals Need to Know Moderator: <i>Marcalee Alexander, MD, FASIA</i></p> |
| 5:55 – 6:05 pm | Passing Period | | |
| 6:05 – 7:05 pm | <p>COURSE 16 TRIP Predictive Value of Animal Research Experiments for Emerging Clinical Studies in SCI Moderator: <i>Karim Fouad, PhD</i></p> | <p>COURSE 17 International Standards to Document Autonomic Function after SCI: Revision 2020 Moderator: <i>Jill Wecht, EdD</i></p> | <p>General Session: Secondary Conditions O-26, O-27, O-28, O-29 O-30, O-31</p> |



ASIA
 AMERICAN SPINAL INJURY ASSOCIATION
A · N · N · U · A · L
SCIENTIFIC MEETING

JULY 8-10
 PRECOURSE ♦ JULY 7

2021

ST. LOUIS UNION STATION HOTEL ♦ 1820 MARKET STREET ♦ ST. LOUIS, MISSOURI

GENERAL SESSIONS**ACUTE CARE & MIXED PAPERS:** *Meegan Van Straaten, PT*

Sunday, Oct. 4, 2020 / 11:35 am – 1:00 pm • Oral Talks 7-11, 32 and 33

ORAL TALK 7

Posterior Cervical Spine Fusion Increases the Risk of Feeding Gastrostomy Using a Propensity Score Matched Cohort
Brett Tracy

ORAL TALK 8

Ketogenic diet (kd) for improving neurorecovery after acute spinal cord injury – from rodents to humans
Ceren Yazar-Fisher, PT, PhD

ORAL TALK 9

Topological network analysis of high frequency intra-operative monitoring in patients with spinal cord injury reveals precise blood pressure range associated with neurological recovery
Abel Torres Espin

ORAL TALK 10

During an epidemic of gun violence in the United States, analyzing cervical spinal cord injury from gunshot wounds with respiratory compromise: the role of diaphragm pacing
Raymond Onders, MD, FACS, FASIA

ORAL TALK 11

Acute Care Protocol to Assess Bladder Voiding in Traumatic Spinal Cord Injury Patients
Victor Lim

ORAL TALK 32

Toward Developing a National Spinal Cord Injury Care, Health and Wellness Strategy in Canada: Building the Foundations
Charlene Yousefi

ORAL TALK 33

Implanted neuroprostheses to maximize functional outcomes in spinal cord injury
Kevin L. Kilgore, Ph.D.

OUTCOMES & CRAIG H. NEILSEN FOUNDATION ALLIED**HEALTH 2017 & 2018 AWARDEES:** *Heather Russell, PhD*

Monday, Oct. 5, 2020 / 10:40 am – 11:40 am • Oral Talks 12-15

CRAIG H. NEILSEN FOUNDATION 2017 ALLIED HEALTH AWARDEE

Evaluation of Splinting in Tetraplegia
Sara Kate Frye, MS OTR/L ATP

CRAIG H. NEILSEN FOUNDATION 2018 ALLIED HEALTH AWARDEE

Seated Trunk Stability and Orthostatic Tolerance in SCI: Targeting the Diaphragm.”
Anne E. Palermo PT, DPT

ORAL TALK 12

Evaluation of a self-report method to obtain ASIA Impairment Scale in people with SCI who reside in the community
Jennifer Coker, PhD, MPH

ORAL TALK 13

Comparing SCI Data from Three SCI Registries: Results from the International Spinal Data Network (ISDN)
Vanessa Noonan, MSc, PT, PhD

ORAL TALK 14

Development of Crosswalks to Aggregate International Spinal Cord Injury Functional Data
Linda Jones, PT, PhD

ORAL TALK 15

Development of the PedsQL SCI Module
Miriam Hwang, MD, PhD

CARDIOVASCULAR & 2019 ANTHONY DIMARCO**FELLOWSHIP AWARD RECIPIENTS:** *Trevor Dyson-Hudson, MD*

Monday, Oct. 5, 2020 / 12:20 pm – 1:20 pm • Oral Talks 16-19

2019 Anthony DiMarco Fellowship Award Recipient

2019 Anthony DiMarco Fellowship Award Recipient: Validity of an Interview Based Examination for Spinal Cord Injury (VIBES): Sacral Sparing in the Acute Inpatient Rehabilitation Setting
Audrey Chun, MD

2019 Anthony DiMarco Fellowship Award Recipient

2019 Anthony DiMarco Fellowship Award Recipient: DiMarco Award Recipient: Autologous Micro-Fragmented Adipose Tissue Injection under Ultrasound Guidance for Chronic, Recalcitrant Shoulder Pain in Manual Wheelchair Users with Spinal Cord Injury
Chris Cherian, MD

ORAL TALK 16

Noninvasive Chronic Spinal Stimulation as a Multi-session Therapy to Improve Cardiovascular Function After Spinal Cord Injury
Kiran Pawar, PhD

ORAL TALK 17

High-level experimental spinal cord injury impairs the cardiac inotropic response to baroreceptor unloading
Christopher West, PhD

ORAL TALK 18

Heart rate changes associated with spontaneous episodes of autonomic dysreflexia
Belinda Yee, BSc

ORAL TALK 19

Diverse Cognitive Impairment After Spinal Cord Injury is Associated with Symptoms of Aberrant Cardiovascular Changes
Tom Nightingale, PhD

GENERAL SESSIONS

UPPER EXTREMITY FUNCTION: *Jennifer Coker, PhD, MPH*

Monday, Oct. 5, 2020 / 2:20 pm – 2:50 pm • Oral Talks 20-22

ORAL TALK 20

The graded redefined assessment of strength sensibility and prehension version 2 (GV2): Psychometric properties
Sukhvinder Kalsi-Ryan, PhD

ORAL TALK 21

Content-Dependent Modulation of Trunk Muscle Activity Improves Manual Wheelchair Propulsion Efficiency
Stephanie Bailey

ORAL TALK 22

Lower Motor Neuron Damage in Wrist Extension after Tetraplegia
Anne Bryden, MA, OTRL

MIXED TOPICS: *Meegan Van Straaten, PT*

Monday, Oct. 5, 2020 / 2:20 pm – 2:50 pm • Oral Talks 24, 25 and 34

ORAL TALK 24

Time needed to perform intermittent catheterization: A randomized controlled cross-over study using hydrophilic and non-hydrophilic catheters in adults with spinal cord injury
Karthik Gopalakrishnan

ORAL TALK 25

Individuals with Spinal Cord Injuries Who Use a Manual Wheelchair Spend More Time in Humeral Elevation Angles Associated with Supraspinatus Tendon Compression than Able-Bodied Controls
Brianna Goodwin

ORAL TALK 34

The Canadian Activity-Based Therapy Summit: Developing a 5-Year Action Plan
Kristen Walden, PT

SECONDARY CONDITIONS: *Maureen Miner, MD*

Monday, Oct. 5, 2020 / 6:05 pm – 7:05 pm • Oral Talks 26-31

ORAL TALK 26

A case comparison of endogenous fat metabolism during a prandial challenge
David McMillan, MS

ORAL TALK 28

A qualitative study of negative health spirals among aging civilians and veterans spinal cord injury
James Krause, PhD

ORAL TALK 30

Electrically Induced Interval Cycling and Nutritional Counseling Produces Healthy Body Composition Changes In Individuals with Spinal Cord Injury
David Dolbow

ORAL TALK 27

Increased levels of matrix metalloproteinase-8 & 9 against TIMP-1 predicts poor healing of pressure injury in people with spinal cord injury
Rajeshwar Srivastava, MS

ORAL TALK 29

Risk Factors for Heterotopic Ossification Development after Spinal Cord Injury: A Systematic Review and Meta-Analysis
Yagiz Yolcu, MD

ORAL TALK 31

Behavioral Factors and Unintentional Injuries after Spinal Cord Injury
Yue Cao, PhD, MSPH

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THIS IS LIVING WITH A SPINAL CORD INJURY.

Our physicians, therapists and researchers are opening doors so individuals with spinal cord injuries can live out their dreams. Visit SpinalCordRecovery.org to learn more.



International Center for Spinal Cord Injury
at Kennedy Krieger Institute

Southern California Spinal Cord Injury Model System



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www.ranchoresearch.org/spinal-cord-injury



A standing ovation, Dr. Cardenas.

In honor of you and all those you've
helped get back on their feet.

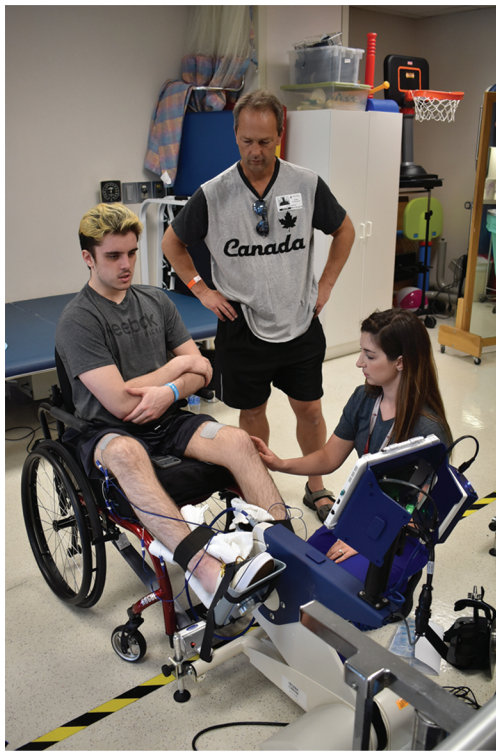


Diana Cardenas, MD, MHP

Congratulations to our distinguished colleague
on your ASIA Lifetime Achievement Award.
It is well deserved.

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