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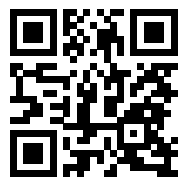
## **NeuroTrauma2018**

The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care

**AUGUST 11-16, 2018**

**TORONTO, CANADA**

# **ONSITE PROGRAM**



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[www.neurotrauma2018.com](http://www.neurotrauma2018.com)

#NeuroTrauma2018

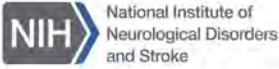
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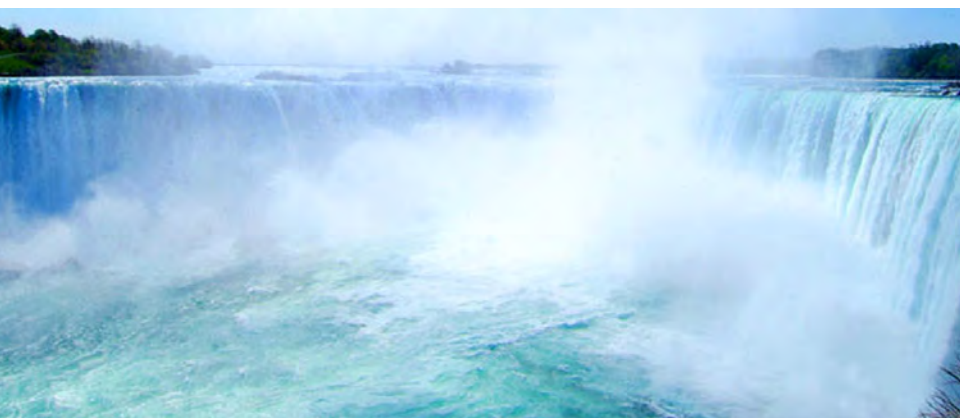
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## NeuroTrauma2018

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Network: **Westin-MeetingRoom**

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# Welcome Message



The 3rd Joint Symposium of the International and National Neurotrauma Societies and AANS/CNS Section on Neurotrauma and Critical Care in Toronto, Canada will be a wonderful occasion of sharing science, preclinical and clinical lessons, and visions for the future of neurotrauma research and care. This symposium has served as the premier forum for the exchange of ideas and information related to traumatic brain injury (TBI) and spinal cord injury (SCI) with a strong focus of the meeting to integrate clinical, translational, and basic science neurotrauma-related information. The format of the symposium will consist of informative discovery, translational, and clinical sessions and workshops, as well as programs for students and early career investigators. Plenary sessions, workshops, and poster sessions are being planned to focus on topics of current research and practice issues. A public lecture, patient perspective presentations, and networking opportunities will round out the program.

The meeting is co-hosted by the International & National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma and Critical Care. This combination of expertise allows for

presentations that integrate state-of-the-art clinical, translational and basic science information on the consequences of damage to the nervous system.

This is an exciting time in neurotrauma research and care and we welcome you to Toronto for the Neurotrauma 2018 Symposium.



**Dr. Michael G. Fehlings**  
Neurotrauma 2018  
Host & Co-Chair



**Dr. Anthony E. Kline**  
Neurotrauma 2018  
Co-chairs



**Dr. Eve C. Tsai**  
Neurotrauma 2018  
Co-chairs



# NeuroTrauma2018 Societies

## The International Neurotrauma Society (INTS)



The INTS is a body of scientists who attempt parity between brain and spinal cord injury research while preserving, as best as possible, equality in geographic location, gender and basic science versus clinical emphasis.

The purpose of the INTS is to foster the worldwide dissemination of Neurotrauma research and to supervise International Neurotrauma symposia throughout the world.

The intention continues to be to alternate the venue of the symposium meetings between Australasia, Europe and the Western Hemisphere every two or three years. To do so, the INTS authorizes a local host for each meeting and assists the local host's organizing committee through the International Scientific Advisory Board of the INTS.

## The National Neurotrauma Society (NNS)



The National Neurotrauma Society seeks to accelerate research that will provide answers for clinicians and ultimately improve the treatments available to patients. The National Neurotrauma Society will continue to promote excellence in the field by providing opportunities for scientists, establishing standards in both basic and clinical research, encouraging and supporting research, and promoting liaisons with other organizations that influence the care and cure of neurotrauma victims.

## The AANS/CNS Section on Neurotrauma and Critical Care



The purpose of the American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Joint Section on Neurotrauma and Critical Care is to provide a forum for education and research on trauma and critical care of the nervous system, to coordinate activities and programs relating to trauma, critical care and sports medicine for the AANS/CNS and other societies, committees and agencies, to represent the parent organizations, at their discretion, at any organization or group on matters relating to trauma, critical care and sports medicine, and to advise the AANS/CNS of activities which relate to nervous system trauma and critical care by other individuals, group and/or agencies.

# Scientific Program Committee

## Conference Co-Chairs:

**Dr. Michael G. Fehlings**  
NeuroTrauma 2018  
Host, Co-Chair

**Dr. Anthony E. Kline**  
NNS President, Co-Chair

**Dr. Eve C. Tsai**  
AANS/CNS Joint Section  
on Neurotrauma and  
Critical Care, Co-Chair

## Toronto LOC:

**Dr. Michael G. Fehlings**  
NeuroTrauma 2018 Host  
University of Toronto

**Dr. Andrew J. Baker**  
University of Toronto

**Dr. Cindi M. Morshead**  
University of Toronto

## INTS:

**Dr. Anthony Figaji**  
INTS President  
University of Cape Town

**Dr. Peter Hutchison**  
University of Cambridge

**Dr. Soheila Karimi**  
University of Manitoba

**Dr. Brian Kwon**  
University of British Columbia

**AANS/CNS:**  
**Dr. Uzma Samadani**  
University of Minnesota

**Dr. Eve C. Tsai**  
University of Ottawa

**Dr. Franco Servadei**  
University of Parma

**Dr. Paul M. Arnold**  
University of Kansas

**Dr. Fahad Alkherayf**  
University of Ottawa

## NNS:

**Dr. Candace Floyd**  
NNS Past-President  
University of Alabama at  
Birmingham

**Dr. Anthony E. Kline**  
NNS President,  
University of Pittsburgh

**Dr. Kimberly R. Byrnes**  
NNS Vice President  
Uniformed Services  
University

**Dr. Grace Griesbach**  
NNS Secretary-Treasurer  
Centre for NeuroSkills

**Dr. Mayumi Prins**  
NNS Vice-President-Elect  
TEAM President  
University of California

# Local Organizing Committee

**Dr. Michael G. Fehlings,**  
University of Toronto

**Dr. Tim Worden,**  
University Health  
Network

**Dr. Charles Tator,**  
University of Toronto

**Dr. Alexander Velumian,**  
University of Toronto

**Dr. Cindi M. Morshead,**  
University of Toronto

**Dr. Anoushka Singh,**  
University Health  
Network

**Dr. Derek van der Kooy,**  
University of Toronto

**Nadia Jaber,**  
University of Toronto

**Dr. Andrew J. Baker,**  
University of Toronto

**Dr. Jeff Wilson,**  
University of Toronto

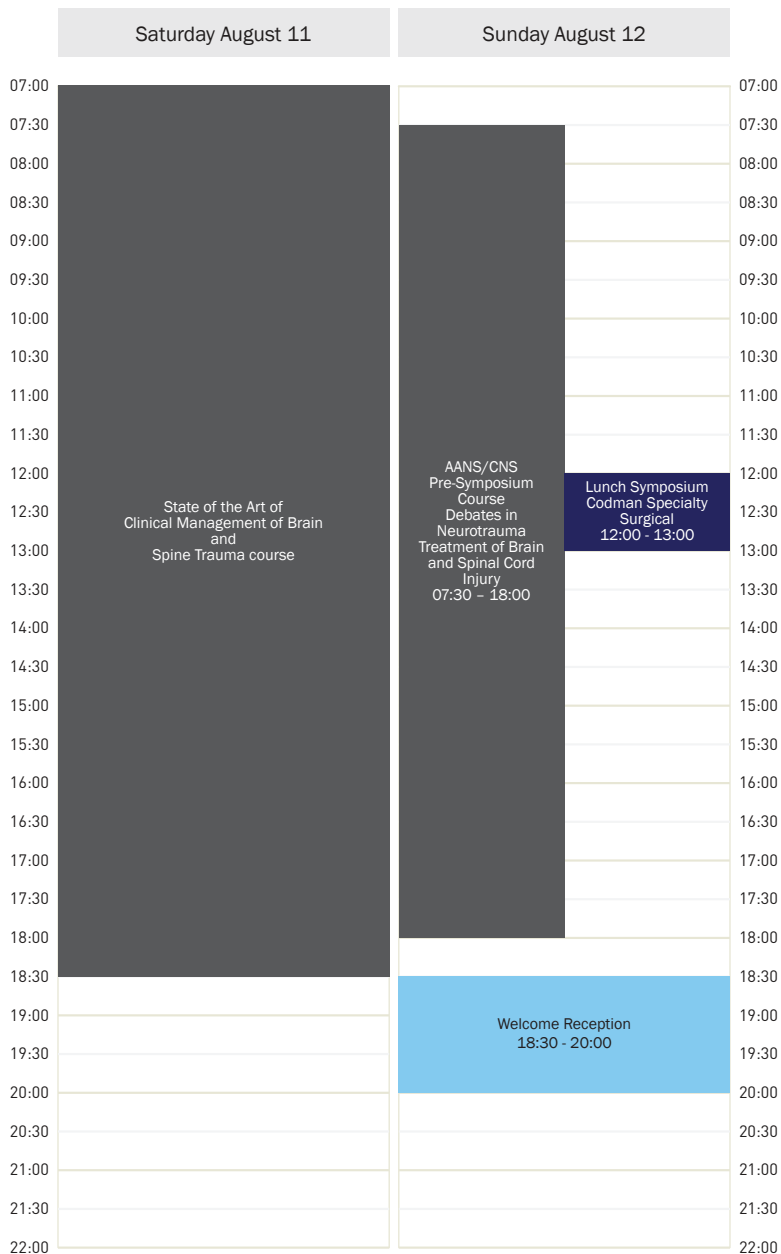
**Joanne Jones,**  
University Health  
Network



# SCIENTIFIC PROGRAM

# Program at a Glance

- Plenary Sessions
- Scientific Sessions
- Symposiums
- Social Events
- Poster / Breaks
- Pre-Congress Courses



# Program at a Glance

- Plenary Sessions
- Scientific Sessions
- Symposiums
- Social Events
- Poster / Breaks
- Pre-Congress Courses

Monday August 13		Tuesday August 14				
07:00			07:00			
07:30	Breakfast Symposium - Invite Only Fortuna Fix 7:30 - 8:20	Breakfast Symposium European Neurotrauma Network 7:30 - 8:20				
08:00			08:00			
08:30	<b>P1</b> State of the Art in Neurotrauma: From Cell to Community 08:30 - 10:45		<b>P3</b> Advances in CNS Regeneration and Plasticity 08:30 - 10:15			
09:00						
09:30						
10:00	Poster Session, Coffee Break and Exhibits 10:45 - 11:15		Poster Session, Coffee Break and Exhibits 10:15 - 11:15			
10:30						
11:00	<b>S1</b> Outcomes Assessment in TBI and SCI 11:15 - 12:45	<b>S2</b> Electrical Stimulation and Repair in SCI 11:15 - 12:45	<b>S3</b> Major Ongoing Studies in TBI 11:15 - 12:45	<b>S7</b> Clinical Biomarkers and Trials for TBI and SCI 11:15 - 12:45		
11:30			<b>S8</b> Inflammation and Its Role in Injury/Recovery 11:15 - 12:45	Open Communication Data Blitz 11:15 - 12:45		
12:00						
12:30						
13:00	Lunch Symposium TEAM Presentation 13:00 - 14:00		Lunch Symposium AOSpine 13:00 - 14:00			
13:30						
14:00	<b>P2</b> Acute and Chronic Stress After Central Nervous System Injury 14:15 - 16:00		Networking and Free Time			
14:30						
15:00	Coffee Break and Exhibits 16:00 - 16:30		Chinese Neurotrauma Scholar Association (CNSA) 8th Annual Symposium <i>(everyone is welcome)</i> 15:30 - 18:00			
15:30						
16:00	<b>S4</b> Dietary Fat in CNS Trauma and Repair 16:30 - 18:00	<b>S5</b> Modulators of Tissue Scarring and Extracellular Matrix 16:30 - 18:00	Poster Mixer 18:00 - 19:00			
16:30		<b>S6</b> The International TBI Initiative 16:30 - 18:00				
17:00			CNSA Group Dinner <i>(everyone is welcome)</i> 18:30 - 21:00			
17:30						
18:00						
18:30						
19:00						
19:30						
20:00						
20:30						
21:00						
21:30						
22:00						

# Program at a Glance

- Plenary Sessions
- Scientific Sessions
- Symposiums
- Social Events
- Poster / Breaks
- Pre-Congress Courses

Wednesday August 15		Thursday August 16				
07:00			07:00			
07:30			07:30			
08:00			08:00			
08:30			08:30			
09:00	<b>P4</b> Advanced/Multimodal Imaging in Injury Diagnosis for SCI and TBI 08:30 - 10:15		<b>P6</b> Challenges in Managing Neurotrauma in the Developing World 08:30 - 10:15			
09:30						
10:00						
10:30	Poster Session, Coffee Break and Exhibits 10:15 - 11:15		Poster Session, Coffee Break and Exhibits 10:15 - 11:15			
11:00						
11:30	<b>S9</b> Cell Replacement in SCI and TBI 11:15 - 12:45	<b>S10</b> Preclinical Models of Neuro-rehabilitation for TBI 11:15 - 12:45	Open Communication Data Blitz 11:15 - 12:45	<b>S13</b> Oxidative Stress and CNS Trauma 11:15 - 12:45	<b>S14</b> Diagnosis and Management of Concussion/ Biomarkers 11:15 - 12:45	<b>S15</b> Glucose and Insulin in TBI 11:15 - 12:45
12:00						
12:30						
13:00	Lunch Symposium Ontario Neurotrauma Foundation & Rick Hansen Institute 13:00 - 14:00			Lunch Break 13:00 - 14:00		
13:30						
14:00						
14:30	<b>P5</b> Advances in Neurorehabilitation: Bench to Bedside 14:15 - 16:00			<b>P7</b> Perspectives on SCI and TBI Research: Going from NeuroTrauma 2018 to the Future 14:15 - 16:00		
15:00						
15:30						
16:00	Coffee Break and Exhibits 16:00 - 16:30			Closing & Handover Ceremony 16:00 - 16:30		
16:30						
17:00	<b>S11</b> Neurotrauma Across the Lifespan 16:30 - 18:00	<b>S12</b> Update on Clinical Trails in SCI 16:30 - 18:00	Patient Perspective 16:30 - 18:00	<b>S16</b> Drug Discovery and Development to Advance Preclinical to Clinical Translation 16:30 - 18:00	<b>S17</b> Bioengineering Strategies for Acute SCI 16:30 - 18:00	<b>S18</b> Minding the 3Rs: Maximizing Use and Quality of Data in Preclinical 16:30 - 18:00
17:30						
18:00	Poster Mixer 18:00 - 19:00					
18:30						
19:00						
19:30						
20:00	NeuroTrauma 2018 Gala & Awards Dinner 19:30 - 21:30					
20:30						
21:00	After Party starting at 21:30					
21:30						
22:00						



# Scientific Program

## Saturday, August 11



**07:00 - 17:30**

**PSC1 Pre-Symposium Course - 8.5 CME**

Room: Pier 3

State of the Art on the Clinical Management of Brain and Spine Trauma: What we know? What should we do?

**07:00 - 08:00**

Registration, Coffee and Course Introduction

**08:00 - 08:15**

Welcome from Global Neuro, AONA, AOSpine and NREF

**08:15 - 12:30**

Traumatic Brain Injury and Cranial Trauma – Module 1

*Chair:* **Geoffrey Manley**, United States

**08:15 - 08:45**

Basic Science of Traumatic Brain Injury: State of the Art

**John Povlishock**, United States

**08:45 - 09:15**

Clinical Translational Advances in Traumatic Brain Injury

**Geoffrey Manley**, United States

**09:15 - 09:45**

Advanced Techniques in Cranial Reconstruction

**Paul Manson**, United States

**09:45 - 10:15**

Decompressive Craniectomy

**Peter Hutchinson**, United Kingdom

**10:15 - 10:30**

Coffee and Networking Break

**10:30 - 11:00**

Critical Care of Traumatic Brain Injury in Adults and Children

**Andrew Baker**, Canada &

**Jamie Hutchison**, Canada

**11:00 - 11:30**

Management of Traumatic Brain Injury in Children

**Anthony Figaji**, South Africa

**11:30 - 12:30**

Case-based Panel Discussion with a focus on Neurocritical Care Decision Management

*Moderator:* **Shelly Timmons**, United States

**12:30 - 12:45**

Networking Break and Pick Up  
Boxed Lunch

**12:45 - 13:30**

Lunch Seminars

**12:45 - 13:00**

An International Perspective on Traumatic Brain Injury Biomarkers for Spinal Cord Injury

**Andrew Maas**, Belgium

**13:00 - 13:15**

Biomarkers for Spinal Cord Injury

**Brian Kwon**, Canada

**13:15 - 13:30**

Discussion

# Scientific Program

## Saturday, August 11

**13:30 - 15:30**

Spine Trauma and Spinal Cord Injury –  
Module 2

*Chair:* **Michael G. Fehlings**, Canada

**13:30 - 14:00**

Basic Science of SCI: State of the Art  
**Dalton Dietrich**, United States

**14:00 - 14:30**

Clinical Translational advances in  
Spinal Cord Injury

**Michael G. Fehlings**, Canada

**14:30 - 15:00**

Assessment & Management of Spinal  
Cord Injury

**James Harrop**, United States

**15:00 - 15:30**

Critical Management of Spinal Cord  
Injury (including a review of the  
AOSpine Guidelines)

**Greg Hawryluk**, United States

**15:30 - 15:45**

Coffee and Networking Break

**15:45 - 17:30**

Panel Discussions

**15:45 - 16:30**

Role and Timing of Surgery in Spinal  
Cord Injury

*Chair:* **Michael G. Fehlings**, Canada

*Faculty Panel:*

**Bizhan Aarabi**, United States

**James Harrop**, United States

**Eve C. Tsai**, Canada

**Jefferson Wilson**, United States

**Brian Kwon**, Canada

**Mark Kotter**, United Kingdom

**Shekar Kurpad**, United States

**16:30 - 17:30**

Management of Complex  
Thoracolumbar Spine Trauma

*Chair:* **James Harrop**, United States

*Faculty Panel:*

**Jefferson Wilson**, United States

**Bizhan Aarabi**, United States

**Brian Kwon**, Canada

**Mark Kotter**, United Kingdom

**David Okonkwo**, United States

**Eve C. Tsai**, Canada

# Scientific Program

## Sunday, August 12

AANS/CNS Section On  
**NEUROTRAUMA &  
CRITICAL CARE**



American  
Association of  
Neurological  
Surgeons



CNS

**07:30 - 16:30**

**PSC2 Pre-Symposium Course - 6.5 CME**

Room: Pier 4+5

AANS/CNS Neurotrauma and Critical  
Care Section Pre-course

**07:30 - 08:30**

AANS/CNS Breakfast

**08:30 - 10:00**

Neurotrauma History and Guidelines  
Updates – Module 1

*Chair: Eve C. Tsai, Canada*

**08:30 - 08:50**

Brain Injury Guidelines History and Update

**David Okonkwo, United States**

**08:50 - 09:10**

Spinal Cord Injury History

**Charles Tator, Canada**

**09:10 - 09:30**

Spinal Cord Injury Trials and Guidelines  
Update

**Michael G. Fehlings, Canada**

**09:30 - 09:50**

Pediatric Trauma History and  
Guidelines Update

**David Adelson, United States**

**09:50 - 10:00**

Questions

**10:00 - 10:30**

Coffee Break

**10:30 - 11:00**

Should ICP Monitoring be Continued?

*Chair: Allan Hoffer, United States*

**10:30 - 10:35**

Case Presentation

**Allan Hoffer, United States**

**10:35 - 10:45**

Pro

**Greg Hawryluk, United States**

**10:45 - 10:55**

Con

**Daniel Michael, United States**

**10:55 - 11:00**

Discussion and Verdict

**11:00 - 11:30**

Surgical treatment of elderly with  
odontoid fracture

*Chair: Allan Hoffer, United States*

**11:00 - 11:05**

Case Presentation

**Jamie Wilson, Canada**

**11:05 - 11:15**

Pro

**Jeff Wilson, Canada**

**11:15 - 11:25**

Con

**James Harrop, United States**

**11:25 - 11:30**

Discussion and Verdict

**11:30 - 12:00**

Stem Cells for Clinical Neural Repair:  
Ready for Prime Time?

*Chair: Allan Hoffer, United States*

**10:30 - 11:35**

Case Presentation

**Stephanie de Vere, Canada**

**11:35 - 11:45**

Pro

**Ann Parr, United States**

**11:45 - 11:55**

Con

**Eve C. Tsai, Canada**

**11:55 - 12:00**

Discussion and Verdict

**12:00 - 13:00**

Lunch

# Scientific Program

## Sunday, August 12

**12:00 - 13:00**

**LS1** Lunch Symposium: Brain Tissue Oxygenation BOOSTS - Outcome After Traumatic Brain Injury - Codman

For the detailed program, please refer to **page 38**.

**13:00 - 14:40**

Cutting Edge Trauma Management of Brain and Spinal Injuries  
*Chair: Tuan V. Bui, Canada*

**13:00 - 13:20**

Military Management of Brain and Spinal Injuries  
**Christopher Neal**, United States

**13:20 - 13:40**

Intraspinal Monitoring and Dural Decompression for Spinal Cord Injury  
**Marios Papadopoulos**, United Kingdom

**13:40 - 14:00**

Anticoagulation and Trauma  
**Suzanne Tharin**, United States

**14:00 - 14:20**

Machine Learning to Improve Neurosurgery  
**Uzma Samadani**, United States

**14:20 - 14:40**

Questions

**14:40 - 15:00**

Coffee Break

**15:00 - 15:30**

Treatment of Chronic Subdural Hematoma with Steroids

**15:00 - 15:05**

Case Presentation  
**Kevin Kwan**, United States

**15:05 - 15:15**

Pro  
**Roxanne Todor**, United States

**15:15 - 15:25**

Con  
**Jamie Ullman**, United States

**15:25 - 15:30**

Discussion and Verdict

**15:30 - 16:00**

Management of a Thoracolumbar Burst Fracture  
*Chair: Fahad Alkherayf, Canada*

**15:30 - 15:35**

Case Presentation  
**Mohammed Alswat**, Canada

**15:35 - 15:45**

Non Surgical  
**Brian Kwon**, Canada

**15:45 - 15:55**

Surgical  
**Paul Arnold**, United States

**15:55 - 16:00**

Discussion and Verdict

**16:00 - 16:30**

Is Decompressive Craniotomy Beneficial?  
*Chair: Fahad Alkherayf, Canada*

**16:00 - 16:05**

Case Presentation  
**Ziyad Makoshi**, Canada

**16:05 - 16:15**

Pro  
**Peter Hutchinson**, United Kingdom

**16:15 - 16:25**

Con  
**Shelly Timmons**, United States

**16:25 - 16:30**

Discussion and Verdict

# Scientific Program

## Monday, August 13

**07:30 - 08:20**

**BS1** Breakfast Symposium: Direct cell reprogramming technology and its potential in the treatment of Neurotrauma - Fortuna Fix

For the detailed program, please refer to **page 38**.

**08:30 - 10:45**

**P1** State of the Art in Neurotrauma: From Cell to Community  
Room: Frontenac Ballroom  
Chair: **Michael G. Fehlings**, Canada

**08:30 - 08:56**

**P1.01** Repair and Regeneration of the Injured Spinal Cord: Clinical Translation Advances  
**Michael G. Fehlings**, Canada

**08:56 - 09:22**

**P1.02** Rescuing the Injured Brain  
**Peter Hutchinson**, United Kingdom

**09:22 - 09:48**

**P1.03** Recent advances in protection and repair after Spinal Cord Injury  
**Dalton Dietrich**, United States

**09:48 - 10:15**

**P1.04** Evidence for Neocortical Circuit Disruption following Mild Traumatic Brain Injury  
**John T. Povlishock**, United States

**10:45 - 11:15**

Poster Session, Coffee Break and Exhibition  
Room: Metropolitan Ballroom

Posters from Group A will be available for viewing at this time. Full poster session details can be found in the NeuroTrauma 2018 Mobile App.

**11:15 - 12:45**

**S01** Outcomes Assessment in TBI and SCI  
Room: Harbour Ballroom A+B  
Chair: **Andrew Maas**, Belgium

**11:15 - 11:37**

**S1.01** Approaches to outcome assessment in TBI: Challenges and opportunities  
**Andrew Maas**, Belgium

**11:37 - 12:00**

**S1.02** Outcome after TBI across Europe  
**Nicole von Steinbuchel**, Germany

**12:00 - 12:22**

**S1.03** Sensitive Assessment after Traumatic Tetraplegia with a focus on the Upper Limb: Do we Really Understand the Natural History of Disease?  
**Sukhvinder Kalsi-Ryan**, Canada

**12:22 - 12:45**

**S1.04** Outcomes and prediction in acute spinal cord injury  
**Armin Curt**, Switzerland

**11:15 - 12:45**

**S2** Electrical Stimulation and Repair in SCI  
Room: Harbour Ballroom C  
Chair: **Susan Harkema**, United States

**11:15 - 11:37**

**S2.01** Functional Electrical Stimulation Therapy for Improving Voluntary Grasping Function Following SCI  
**Milos Popovic**, Canada

**11:37 - 12:00**

**S2.02** A continuum of strategies for neuroplasticity and recovery using epidural stimulation after spinal cord injury  
**Susan Harkema**, United States

# Scientific Program

## Monday, August 13

### 12:00 - 12:22

**S2.03** Activation of Spinal Networks for Improving Mobility after Spinal Cord Injury

**Vivian Mushawar**, Canada

### 12:22 - 12:45

**S2.04** Presentation details can be found in the NeuroTrauma 2018 Mobile App.

### 11:15 - 12:45

**S3** Major Ongoing Studies in TBI

Room: Pier 2+3

*Chair:* **David Okonkwo** United States

### 11:15 - 11:37

**S3.01** Presentation details can be found in the NeuroTrauma 2018 Mobile App.

**Michael J. Bell MD**, United States

### 11:37 - 12:00

**S3.02** TEAM-TBI: Targeted Evaluation, Action and Monitoring of Traumatic Brain Injury

**David Okonkwo**, United States

### 12:00 - 12:22

**S3.03** Track-TBI

**Geoffrey Manley**, United States

### 12:22 - 12:45

**S3.04** Presentation details can be found in the NeuroTrauma 2018 Mobile App.

**Andrew Maas**, Belgium

### 13:00 - 14:00

**LS2** Lunch Symposium: TEAM - NINDS Strategies to Enhance Diversity of Neuroscience Researchers

For the detailed program, please refer to **page 38**.

### 14:15 - 16:00

**P2** Acute and Chronic Stress After Central Nervous System Injury  
Room: Frontenac Ballroom

*Chair:* **David Morilak**, United States  
& **Patricia de la Tremblaye**, United States

### 14:15 - 14:41

**P2.01** Stress-related cognitive impairment and therapeutic response may influence the course of decline and recovery from TBI

**David Morilak**, United States

### 14:41 - 15:07

**P2.02** Interaction of brain trauma and chronic unpredictable stress on cognition, anxiety, and markers of neurotransmission and neuroinflammation

**Corina Bondi**, United States

### 15:07 - 15:34

**P2.03** Early life stress increases vulnerability to experimental brain injury

**Naima Lajud**, Mexico

### 15:34 - 16:00

**P2.04** Presentation details can be found in the NeuroTrauma 2018 Mobile App

**Fiona Crawford**, United States

### 16:00 - 16:30

Coffee Break and Exhibition

Room: Metropolitan Ballroom



# Scientific Program

## Monday, August 13

**16:30 - 18:00**

**S4** Dietary Fat in CNS Trauma and Repair  
Room: Harbour Ballroom A+B  
Chair: **Isobel A. Scarisbrick**, United States

**16:30 - 16:53**

**S4.01** Ketogenic diet for acute spinal cord injury  
**Wolfram Tetzlaff**, Canada

**16:53 - 17:16**

**S4.02** Metabolic Links Between Exercise and Dietary Fat Regulate Myelin in the Adult CNS: Implications for Recovery after SCI  
**Isobel A. Scarisbrick**, United States

**17:16 - 17:38**

**S4.03** Axon-myelin Interactions in Traumatic White Matter Injury  
**Regina Armstrong**, United States

**17:38 - 18:00**

**S4.04** The interplay between brain and gut in the pathophysiology of brain trauma  
**Fernando Gomez-Pinilla**, United States

**16:30 - 18:00**

**S5** Modulators of Tissue Scarring and Extracellular Matrix Remodeling in SCI  
Room: Harbour Ballroom C  
Chair: **Jerry Silver**, United States

**16:30 - 16:53**

**S5.01** Rapid and robust recovery of breathing long after spinal cord injury  
**Jerry Silver**, United States

**16:53 - 17:16**

**S5.02** Rescuing the Fate of Neural Progenitor Transplants in Spinal Cord Injury Niche via Attenuation of Notch Signaling with GDNF  
**Mohammad Khazaei**, Canada

**17:16 - 17:38**

**S5.03** Directly reprogrammed human oligodendrogenic neural progenitor cells delivered with chondroitinase ABC facilitate functional repair of chronic spinal cord injury  
**Satoshi Nori**, Japan

**17:38 - 18:00**

**S5.04** Enhancing plasticity for functional recovery after spinal cord injury  
**Jessica Kwok**, United Kingdom

**16:30 - 18:00**

**S6** The International TBI Initiative  
Room: Pier 2+3  
Chair: **Ramona Hicks**, United States

**16:30 - 16:48**

**S6.01** The International TBI Research Initiative - Five Years On!  
**Ramona Hicks**, United States

**16:48 - 17:06**

**S6.02** Historical and Future Perspectives on InTBIR  
**Andrew Maas**, Belgium

**17:06 - 17:24**

**S6.03** Neuroimaging Biomarkers: The power of standardization and collaboration  
**Stephen Strother**, Canada

**17:24 - 17:42**

**S6.04** Genomics and Proteomics: The power of standardization and collaboration  
**Ramon Diaz-Arrastia**, United States

**17:42 - 18:00**

**S6.05** Translating Knowledge to Practice: Scenarios for Sustained International Cooperation in TBI Research  
**Elizabeth Theriault**, Canada

**18:00 - 19:00**

**PM1** Poster Mixer 1  
Room: Metropolitan Ballroom

# Scientific Program

## Tuesday, August 14

**07:30 - 08:20**

**BS2** Breakfast Symposium: ERA-NET Neuron – European interdisciplinary multi-site studies for Translational Research in Traumatic Brain Injury

For the detailed program, please refer to [page 39](#).

**08:30 - 10:15**

**P3** Advances in CNS Regeneration and Plasticity

Room: Frontenac Ballroom

Chair: **Samuel David**, Canada

**08:30 - 08:56**

**P3.01** Injury dependent and independent signalling for the control of axonal regeneration

**Simone di Giovanni**, United Kingdom

**08:56 - 09:22**

**P3.02** Biomaterial bridge-mediated facilitation of axonal regeneration and recovery in acute and chronic spinal cord injury

**Aileen Anderson**, United States

**09:22 - 09:48**

**P3.03** RGMA neutralization promotes functional recovery following spinal cord injury

**Philippe Monnier**, Canada

**09:48 - 10:15**

**P3.04** dl3 interneurons: a target for neuroplasticity and regeneration for recovery of locomotor function

**Tuan V. Bui**, Canada

**10:15 - 11:15**

Poster Session, Coffee Break and Exhibition  
Room: Metropolitan Ballroom

Posters from Group A will be available for viewing at this time. Full poster session details can be found in the NeuroTrauma 2018 Mobile App.

**11:15 - 12:45**

**S7** Clinical Biomarkers and Trials for TBI and SCI

Room: Harbour Ballroom A+B

Chair: **Brian Kwon**, Canada

**11:15 - 11:37**

**S7.01** An update on Diagnostic and Prognostic Biomarkers for Traumatic Brain injury

**Kevin K.W. Wang**, United States

**11:37 - 12:00**

**S7.02** Biomarkers of Acute Spinal Cord Injury

**Brian Kwon**, Canada

**12:00 - 12:22**

**S7.03** MicroRNA Biomarkers Predict Degenerative Cervical Myelopathy Severity and Surgical Outcome

**Alex Laliberte**, Canada

**12:22 - 12:45**

**S7.04** Moving from Estimates to Clinical Impact: a Systematic Analysis of the Use of Blood-based Biomarkers in the Field of Traumatic Brain Injury

**Stefania Mondello**, Italy

# Scientific Program

## Tuesday, August 14

11:15 - 12:45

**S8** Inflammation and its Role in Injury/Recovery

Room: Harbour Ballroom C

Chair: **Alan Faden**, United States

**11:15 - 11:37**

**S8.01** New immunomodulatory targets for spinal cord injury

**Soheila Karimi**, Canada

**11:37 - 12:00**

**S8.02** Sustained Neuroinflammation and Progressive Neurodegeneration after TBI or SCI: Mechanisms and Modulation

**Alan Faden**, United States

**12:00 - 12:22**

**S8.03** Age-dependent neuroinflammation: The role of macrophages in SCI recovery

**John C. Gensel**, United States

**12:22 - 12:45**

**S8.04** Matrix metalloproteinases and Spinal Cord Injury: Deciphering their complex roles in neurological and urological recovery

**Linda Noble**, United States

**11:15-12:45**

**DB1** Open Communication Data Blitz

Room: Pier 2+3

Chair: **Bevan Main**, United States

**11:15 - 11:20**

**DB1.01.01** Direct Comparison of Adult Human and Rat Spinal Cord Stem/Progenitor cell Response to Inflammatory and Regenerative Cues

**Ahmad Galuta**, Canada

**11:20 - 11:25**

**DB1.02.01** Molecular Pain Targets In Rodent and Human Spinal Cord: Implications for Translation of Novel Therapies for Traumatic Pain

**Chaya Kandegedara**, Canada

**11:25 - 11:30**

**DB1.03.01** AMPA Receptor Modulation as a Therapeutic Strategy to Enhance Survival of Spinal Cord Neural Stem Cells

**Laureen Hachem**, Canada

**11:30 - 11:35**

**DB1.03.02** IP3R-mediated intra-axonal Ca<sup>2+</sup> release contributes to secondary axonal degeneration following contusive SCI.

**Nicolas Pelisch**, United States

**11:35 - 11:40**

**DB1.03.03** Naltrexone amplifies disruption in locomotor function following hindlimb stretching in rats with spinal cord injuries

**Gregory States**, United States

**11:40 - 11:45**

**DB1.03.04** Regional and Institutional Practice Variations in Penetrating Spinal Cord Injury in the United States

**Pranay Soni**, United States

**11:45 - 11:50**

**DB1.03.05** Oligogenic Directly Reprogrammed NPCs Combine with Affinity-Release ChABC to Regenerate the Chronically Injured Spinal Cord

**Christopher Ahuja**, Canada

**11:50 - 11:55**

**DB1.04.01** DNA damage induces early brain aging after traumatic brain injury

**Nicole Schwab**, Canada

**11:55 - 12:00**

**DB1.04.02** A New Class of Carbon Antioxidants Restored Cerebral Perfusion in Traumatic Brain Injury Complicated by Systemic Hypotension

**Kimberly Mendoza**, United States

**12:00 - 12:05**

**DB1.04.03** ENIGMA Military Brain Injury: Framework and Preliminary dMRI Meta-analysis

**Emily Dennis**, United States

# Scientific Program

## Tuesday, August 14

### 12:05 - 12:10

**DB1.04.04** Effects of pituitary function on long-term health outcomes following mTBI in service members treated at the CRCC  
**Stephanie Ciarlone**, United States

### 12:10 - 12:15

**DB1.04.05** CLARITY reveals less disconnection of axons than previously thought and a more prolonged process of degeneration after TBI  
**Maura Weber**, United States

### 12:15 - 12:20

**DB1.04.06** Characterization of EPO/EPOR expression and activation before and after TBI with delayed hypoxemia  
**Marta Celorrio**, United States

### 12:20 - 12:25

**DB1.04.07** High-G head collisions are associated with short-term white matter microstructural deficits in high school football athletes  
**Yukai Zou**, United States

### 12:25 - 12:30

**DB1.04.08** Inhibition of TLR4 with C34 attenuates the neuroinflammatory response to traumatic brain injury  
**Young Chun**, United States

### 12:30 - 12:35

**DB1.04.09** Acute mitochondrial impairment underlies prolonged cellular dysfunction after repeated mild traumatic brain injuries  
**W Hubbard**, United States

### 12:35 - 12:40

**DB1.04.10** GABAergic synapse degeneration after mild traumatic brain injury in mice  
**Michal Vascak**, United States

### 12:40 - 12:45

**DB1.04.11** Sex differences in acute neurodegeneration and sustained impairment of axonal function following diffuse TBI in mice  
**Jennifer Creed**, United States

### 13:00 - 14:00

**LS3** Lunch Symposium: Update on AOSpine Guidelines for Traumatic SCI

For the detailed program, please refer to [page 39](#).

### 15:30 - 18:00

Chinese Neurotrauma Scholar Association (CNSA) 8th Annual Symposium  
Room: Pier 4  
Theme: Global Trends in Translational Neurotrauma Research

### 15:30 - 15:35

Welcome Remark  
**Ping Wu**, Texas  
Introduction of speakers  
**Shuxin Li & Dong Sun**, United States

### 15:35 - 16:05

Electrical signals in controlling cell migration and stem cell behavior for SCI  
**Bing Song**, United Kingdom

### 16:05 - 16:35

Translational cell-based therapies from animal models to human TBI and SCI: Practical considerations  
**Wai S. Poon**, Hong Kong

### 16:35 - 17:05

Chinese Technical Guidelines for Large Decompressive Craniectomy in Adult Patients with Severe Traumatic Brain Injury  
**Baiyun Liu**, China

### 17:05 - 17:35

Management of Blast-Related Traumatic Brain Injury with a Review of Combat Neurosurgical Experience  
**Jason Huang**, United States

### 17:35 - 17:40

Closing Remark  
**Kevin Wang & Xiaoming Xu**, United States

### 17:40 - 18:00

CNSA Business Meeting  
**Ping Wu**, United States

### 18:30

CNSA Networking Dinner  
*\*all are welcome, pay on your own*

# Scientific Program

## Wednesday, August 15

**08:30 - 10:15**

**P4** Advanced/Multimodal Imaging in Injury Diagnosis for SCI and TBI  
Room: Frontenac Ballroom  
Chair: **Virginia Newcombe**, United Kingdom

**08:30 - 08:56**

**P4.01** Standardization of acquisition and data processing in spinal cord MRI: Application in degenerative cervical myelopathy  
**Julien Cohen-Adad**, Canada

**08:56 - 09:22**

**P4.02** Presentation details can be found in the NeuroTrauma 2018 Mobile App.  
**David Menon**, United Kingdom

**09:22 - 09:48**

**P4.03** Advanced imaging methods: what is on the horizon?  
**Virginia Newcombe**, United Kingdom

**09:48 - 10:15**

**P4.04** Early MRI after TBI: more than an image  
**Claudia Wheeler-Kingshott**, United Kingdom

**10:15 - 11:15**

Poster Session, Coffee Break and Exhibition  
Room: Metropolitan Ballroom

Posters from Group B will be available for viewing at this time. Full poster session details can be found in the NeuroTrauma 2018 Mobile App.

**11:15 - 12:45**

**S09** Cell Replacement in SCI and TBI  
Room: Harbour Ballroom A+B  
Chair: **Mark Kotter**, United Kingdom

**11:15 - 11:37**

**S9.01** Cell transplantation for Spinal Cord Injury - an overview of clinical Trials  
**Mark Kotter**, United Kingdom

**11:37 - 12:00**

**S9.02** Mesenchymal stem cells in a nanofiber-hydrogel composite matrix for spinal cord repair  
**Martin Oudega**, United States

**12:00 - 12:22**

**S9.03** Stimulating endogenous neural precursors to promote self repair of the injured CNS  
**Cindi Morshead**, Canada

**12:22 - 12:45**

**S9.04** Application of human neural precursor cells for spinal cord injury - from bench to bedside  
**Narihito Nagoshi**, Japan

**11:15 - 12:45**

**S10** Preclinical Models of Neurorehabilitation for TBI  
Room: Harbour Ballroom C  
Chair: **Corina Bondi** PhD

**11:15 - 11:37**

**S10.01** Does Brain Stimulation Enhance Rehabilitation Efficacy after TBI?  
**DeAnna L. Adkins**, United States

**11:37 - 12:00**

**S10.02** Exercise after TBI: Lessons from rodent studies  
**Grace Griesbach**, United States

**12:00 - 12:22**

**S10.03** Optimizing environmental enrichment to model preclinical neurorehabilitation  
**Jeffrey Cheng**, United States

**12:22 - 12:45**

**S10.04** Neural Plasticity and Neurorehabilitation following TBI in the Rat: Translation to the Clinic?  
**Dorothy Kozlowski**, United States

# Scientific Program

## Wednesday, August 15

**11:15 - 12:45**

**DB2** Open Communication Data Blitz

Room: Pier 2+3

Chair: **Chris Ahuja**, Canada

**11:15 - 11:18**

**DB2.03.01** Projection specific mechanisms of auditory sensitivity that contribute to enhanced fear after TBI

**Ann Hoffman**, United States

**11:18 - 11:22**

**DB2.03.02** 5-HT<sub>1f</sub> receptor agonists induce mitochondrial biogenesis and promote recovery from spinal cord injury

**Epiphani Simmons**, United States

**11:22 - 11:25**

**DB2.03.03** Pathological patterns of spinal cord blood flow after injury visualised with laser speckle contrast imaging

**Mathew Gallagher**, United Kingdom

**11:25 - 11:29**

**DB2.03.04** Drug Re-purposing: High Dose Human Immunoglobulin G for Treatment of Traumatic Cervical Spinal Cord Injury

**Jonathon C. T. Chio**, Canada

**11:29 - 11:32**

**DB2.03.05** MIS416 enhances recovery from traumatic spinal cord injury (SCI) in mice by regulating the innate immune response

**Masoud Hassanpour Golakani**, Australia

**11:32 - 11:36**

**DB2.04.01** Associations of Head Injury with Risk of Mortality, Incident Coronary Heart Disease, Stroke, and Heart Failure

**Andrea Schneider**, United States

**11:36 - 11:39**

**DB2.04.02** Sensory Hypersensitivities in Patients with Persistent Post-Traumatic Headache vs. Migraine

**Jeffery Hanna**, United States

**11:39 - 11:43**

**DB2.04.03** Cognitive training improves neural efficiency in TBI

**Kihwan Han**, United States

**11:43 - 11:47**

**DB2.04.04** Investigating the Neurological Effects of Sleep Deprivation on Post Concussion Symptomology in Adolescent Rats

**Sabrina Salberg**, Canada

**11:47 - 11:51**

**DB2.04.05** Traumatic brain injury-induced neuronal damage induces cortical rod microglia that promote persistent neuroinflammation

**Kristina Witcher**, United States

**11:51 - 11:55**

**DB2.04.06** Prognostic inflammatory biomarkers for traumatic brain injury: A TRACK-TBI Pilot Study

**Margalit Haber**, United States

**11:55 - 11:59**

**DB2.04.07** Individualized brain network architecture distinguishes TBI-associated depression from TBI, major depression, and PTSD

**Shan Siddiqi**, United States

**11:59 - 12:03**

**DB2.04.08** Catastrophic disruption of the blood-brain barrier in pediatric TBI

**Josie Fullerton**, United Kingdom

**12:03 - 12:07**

**DB2.04.09** Reprogramming Monocyte-Derived Macrophages to Mitigate Secondary Injury Pathology Following Traumatic Brain Injury

**Kathryn Wofford**, United States

**12:07 - 12:11**

**DB2.04.10** Diagnostic utility of GFAP for identifying TBI patients with MRI abnormalities despite normal head CT: A TRACK-TBI study

**John K. Yue**, United States



# Scientific Program

## Wednesday, August 15

### 12:11 - 12:15

**DB2.04.11** Repetitive Transcranial Magnetic Stimulation with Resting State Network Targeting for Treatment-Resistant Depression in TBI  
**Shan Siddiqi**, United States

### 12:15 - 12:19

**DB2.04.12** Variation in Structure and Process of Care in Traumatic Brain Injury: Provider Profiles in the CENTER-TBI Study  
**Maryse Cnossen**, Netherlands

### 12:19 - 12:23

**DB2.04.13** Temporal lobe contusions are associated with impaired six-month functional recovery after mild TBI: A TRACK-TBI study  
**John Yue**, United States

### 12:23 - 12:27

**DB2.04.14** Multimodal assessment of behavioral flexibility after frontal brain trauma: beneficial effects of milnacipran  
**Timothy Craine**, United States

### 12:27 - 12:31

**DB2.04.15** Three-dimensional interrogation of traumatic axonopathy in the brain identifies SARM1 as major driver of axonal degeneration  
**Nikolaos Ziogas**, United States

### 12:31 - 12:35

**DB2.04.16** Sleep-wake cycle deregulation despite normal circadian clock signal in acute traumatic brain injury  
**Catherine Duclos**, Canada

### 12:35 - 12:40

**DB2.04.17** Evaluation and evolution of the olfactory system within the first 24 hours after a mild traumatic brain injury (mTBI).  
**Fanny Lecuyer Giguere**, Canada

### 12:40 - 12:45

**DB2.04.18** Modeling of Traumatic Brain Injury (TBI) due to Head Impacts with Unmanned Aircraft Systems (UAS)  
**Anna Marie Dulaney**, United States

### 13:00 - 14:00

**LS4** Lunch Symposium: Spinal Cord Injury – Ontario Neurotrauma Foundation / Rick Hansen Institute

For the detailed program, please refer to [page 39](#).

### 14:15 - 16:00

**P5** Advances in Neurorehabilitation: Bench to Bedside  
Room: Frontenac Ballroom  
Chair: **Ross Zafonte**, United States

### 14:15 - 14:41

**P5.01** Control of Reaching and Grasping following SCI  
**Monica Perez**, United States

### 14:41 - 15:07

**P5.02** The placebo response: the role of the rouse in rehabilitation  
**Ross Zafonte**, United States

### 15:07 - 15:34

**P5.03** Neural control of locomotor outcomes in human SCI  
**Armin Curt**, Switzerland

### 15:34 - 16:00

**P5.04** Post-Traumatic Epilepsy: Personal Biology, Clinical Predictors, and Disability Burden  
**Amy Wagner**, United States

### 16:00 - 16:30

Coffee Break and Exhibition  
Room: Metropolitan Ballroom

# Scientific Program

## Wednesday, August 15

**16:30 - 18:00**

**S11** Neurotrauma Across the Lifespan

Room: Harbour Ballroom A+B

Chair: **Robert Clark**, United States

**16:30 - 16:53**

**S11.01** Neuroinflammation: how aging impacts microglial function following acute brain trauma

**David Loane**, United States

**16:53 - 17:16**

**S11.02** Frequency-Dependent Changes in Resting State EEG Functional Networks in Piglets after Rapid Head Rotations - Implications for Identifying Mild Brain Injury Across the Lifespan

**Susan Margulies**, United States

**17:16 - 17:38**

**S11.03** Progressive neuropathology and the emergence of behavior deficits after pediatric TBI

**Bridgette Semple**, Australia

**17:38 - 18:00**

**S11.04** Gut microbiota are disease modifying factors after spinal cord injury

**Kristina Kigerl**, United States

**16:30 - 18:00**

**S12** Update on Clinical Trials in SCI

Room: Harbour Ballroom C

Chair: **Greg Hawryluk**, United States

**16:30 - 16:53**

**S12.01** Presentation details can be found in the NeuroTrauma 2018 Mobile App.

**Jan Schwab**, United States

**16:53 - 17:16**

**S12.02** Role of Baseline Magnetic Resonance Imaging in Clinical Decision Making and Outcome Prediction (clinical update)

**Bizhan Aarabi**, United States

**17:16 - 17:38**

**S12.03** The SPRING Study: A Phase 2b/3 Study of the Efficacy and Safety of VX-210 in Subjects with Acute Cervical Spinal Cord Injury: Study Design, Status, and Baseline Characteristics

**Marco Rizzo**, United States

**17:38 - 18:00**

**S12.04** Translation of self-delivering RNA to silence PTEN and promote axon regeneration after neurotrauma

**Lisa Mckerracher**, United States

**16:30 - 18:00**

**PP1** Patient Perspective

Room: Pier 2+3

**18:00 - 19:00**

**PM2** Poster Mixer 2

Room: Metropolitan Ballroom

**19:30 - 23:00**

NeuroTrauma 2018 Gala & Awards Dinner

Room: Harbour Ballroom, Foyer & Terrace

# Scientific Program

## Thursday, August 16

**08:30 - 10:15**

**P6** Opportunities for Neurotrauma in the Developing World

*Chair: Anthony Figaji, South Africa*

**08:30 - 08:56**

**P6.01** Challenges in Managing Neurotrauma in the Developing World

**Vafa Rahimi, Iran**

**08:56 - 09:22**

**P6.04** Challenges in Managing Neurotrauma in the Developing World – The Ethiopian Experience

**Sarah Woodrow, Canada**

**09:22 - 09:48**

**P6.03** Opportunities for Neurotrauma in the Developing World

**Anthony Figaji, South Africa**

**09:48 - 10:15**

**P6.02** Current management and outcome of spinal trauma in Tanzania

**Roger Hartl, United States**

**10:15 - 11:15**

Poster Session, Coffee Break and Exhibition  
Room: Metropolitan Ballroom

Posters from Group B will be available for viewing at this time. Full poster session details can be found in the NeuroTrauma 2018 Mobile App.

**11:15 - 12:45**

**S13** Oxidative Stress and CNS Trauma

Room: Harbour Ballroom A+B

*Chair: Edward Hall, United States*

**11:15 - 11:37**

**S13.01** Oxidative Damage is Higher in Hemorrhagic TBIs: Explanation for Selective Benefit of Tirilazad in tSAH Patients

**Edward Hall, United States**

**11:37 - 12:00**

**S13.01** Regulatory Role of Thioredoxin in autophagy-apoptosis cross talk

**Eftekhar Eftekharpour, Canada**

**12:00 - 12:22**

**S13.03** Oxidative Lipid Signaling in Neuronal Death Programs in Brain Trauma

**Hülya Baylır, United States**

**12:21 - 12:43**

**S13.04** Aldehyde-mediated neuropathic pain in CNS trauma

**Riyi Shi, United States**

**11:15 - 12:45**

**S14** Diagnosis and Management of Concussion/Biomarkers

Room: Harbour Ballroom C

*Chair: Charles Tator, Canada*

**11:15 - 11:37**

**S14.01** Presentation details can be found in the NeuroTrauma 2018 Mobile App.

**Christopher Giza, United States**

**11:37 - 12:00**

**S14.02** Management of the Sequelae of Repetitive Concussions: Second Impact Syndrome and Postconcussion Syndrome

**Charles Tator, Canada**

**12:00 - 12:22**

**S14.03** The utility of biomarkers: From the field to the clinic

**Jonathan Oliver, United States**

**12:22 - 12:45**

**S14.04** Delayed effects of multiple concussions and potential biomarkers of chronic traumatic encephalopathy

**Camela Tartaglia, Canada**

# Scientific Program

## Thursday, August 16

**11:15 - 12:45**

**S15** Glucose and Insulin in TBI

Room: Pier 2+3

Chair: **Mayumi Prins**, United States

**11:15 - 11:33**

**S15.01** Fueling the TBI Brain

**Mayumi Prins**, United States

**11:33 - 11:51**

**S15.02** Non-invasive imaging of brain glucose after TBI

**Reed Selwyn**, Mexico

**11:51 - 12:09**

**S15.03** Intranasal insulin in the treatment of CNS disorders

**Kimberly Byrnes**, United States

**12:09 - 12:27**

**S15.04** Insulin Sensitivity after TBI: Implications for Vulnerability to Cerebral Ischemia

**Zach Weil**, United States

**12:27 - 12:45**

**S15.05** Glucose metabolism in the injured brain

**Antonio Belli**, United Kingdom

**13:00 - 14:00**

Networking Break and Exhibition

Room: Metropolitan Ballroom

**14:15 - 16:00**

**P7** Perspectives on SCI and TBI Research Going from INTS 2018 to the Future

Room: Frontenac Ballroom

Chair: **Patrick Kochanek**, United States

**14:15 - 14:36**

**P7.01** Prospects for Axonal Recovery and/or Axonal Regeneration after Spinal Cord Injury

**Charles Tator**, Canada

**14:36 - 14:57**

**P7.02** What the present informs us of the future of SCI research - reasons to be optimistic

**Samuel David**, Canada

**14:57 - 15:18**

**P7.03** Mitochondrial-targeted pharmacotherapeutics and biopharmaceuticals for spinal cord injury

**Alexander G. Rabchevsky**, United States

**15:18 - 15:39**

**P7.04** Optimizing the chance for a future therapeutic breakthrough in the golden age of TBI research

**Patrick Kochanek**, United States

**16:00 - 16:30**

Closing & Handover Ceremony

Room: Frontenac Ballroom

# Scientific Program

## Thursday, August 16

**16:30 - 18:00**

**S16** Drug Discovery and Development to Advance Preclinical to Clinical Translation  
Room: Harbour Ballroom A+B  
Chair: **Samuel Poloyac**, United States

**16:30 - 16:53**

**S16.01** Moving from Disease Target to Lead Compound: Examples in 20-HETE Inhibitor Drug Development  
**Samuel Poloyac**, United States

**16:53 - 17:16**

**S16.02** Pharmacokinetic modeling and neurometabolomics to ensure target engagement  
**Philip Empey**, United States

**17:16 - 17:38**

**S16.03** Using Brain Injury Biomarkers to Identify Potential Drug Targets  
**Gretchen Brophy**, United States

**17:38 - 18:00**

**S16.04** Interspecies scaling and Dose optimization: Challenges with Minocycline in acute stroke  
**Dave Edwards**, Canada

**16:30 - 18:00**

**S17** Bioengineering Strategies for Acute SCI  
Room: Harbour Ballroom C  
Chair: **Eve C. Tsai**, Canada

**16:30 - 16:53**

**S17.01** Optimizing the extracellular matrix for neural stem cell-based regeneration in traumatic spinal cord injury  
**Christopher Ahuja**, Canada

**16:53 - 17:16**

**S17.02** Can we bioengineer a human spinal cord repair based on rats?  
**Eve C. Tsai**, Canada

**17:16 - 17:38**

**S17.03** Bioengineering scaffolds for cell transplantation after spinal cord injury  
**Shelly Sakiyama-Elbert**, United States

**17:38 - 18:00**

**S17.04** Self-assembling peptides (QL-6) or physical training foster NPC treatment in cervical spinal cord injury  
**Klaus Zweckenberger**, Germany

**16:30 - 18:00**

**S18** Minding the 3R's: Maximizing Use and Quality of Data in Preclinical SCI Research  
Room: Pier 2+3  
Chair: **Lyn Jakeman**, United States

**16:30 - 16:52**

**S18.01** Recycle- Resources and tools to enable new knowledge from open data  
**Adam Ferguson**, United States

**16:52 - 17:14**

**S18.02** Reuse- Challenges and opportunities in harmonizing legacy data  
**Jessica Neilson**, United States

**17:14 - 17:36**

**S18.03** Reduce- Developing laboratory processes to facilitate data sharing  
**David S. K. Magnuson**, United States

**17:36 - 17:58**

**S18.04** Join the movement! - Current status of ODC-SCI  
**Abel Torres-Espin**, Canada

# Information for Invited Speakers and Abstract Presenters

## Speaker Ready Room

Room Wellington (Street Level) at the Westin Harbour Castle Conference Centre is the designated Speaker Ready Room. All presenters are required to submit and/or preview their slides at least 3 hours prior to their scheduled presentation to ensure compatibility with the Conference AV Equipment.

Computers are available to upload and preview presentations. **Speakers are required to report to the Speaker Ready Room at least 3 hours prior to their scheduled presentations.** Changes can be made until 90 minutes prior to your presentation. Presenters should make sure all fonts appear as expected and all sound/video clips are working properly. The final version must be submitted to the Speaker Ready Room, **no file submissions are accepted in the Session Rooms.**

## Opening Hours

**Sunday, August 12** ..... 14:00 – 19:30  
**Monday, August 13** ..... 07:00 – 16:30  
**Tuesday, August 14** ..... 07:00 – 14:00  
**Wednesday, August 15** .... 07:00 – 16:30  
**Thursday, August 16** ..... 07:00 – 16:30

## Oral Abstract Presenters

Oral Abstract Presenters are required to prepare a PowerPoint Presentation for their 3 minute didactic presentation (max. 3 slides not including title, author and disclosure slides). Please make sure that you stick to your allocated time. The Session Chair will cut you off after your allocated 3 minutes time slot!

## Poster Presenters

All Poster Presentations/Boards are located in the Metropolitan Ballroom (Second Floor) at the Westin Harbour Castle Conference Centre. A sign identifies each Poster Board with the assigned Poster Number and the

Presenter's Name. The Poster Board Number corresponds with the pre-assigned Final Presentation Number provided in your confirmation letter and used in the Abstract Book and this Onsite Program.

## Poster Set-Up Time:

### Group A

**Monday, August 13** ..... 07:00 – 10:00

### Group B

**Wednesday, August 15** .... 07:00 – 10:00

## Group A Poster Presentation Hours:

### Monday, August 13

Poster Display Hours: ..... 10:45 – 19:00

Mixer and Discussion: ..... 18:00 – 19:00

### Tuesday, August 14

Poster Display Hours: ..... 08:00 – 14:00

## Group B Poster Presentation Hours

### Wednesday, August 15

Poster Display Hours: ..... 10:00 – 19:00

Mixer and Discussion: ..... 18:00 – 19:00

### Thursday, August 16

Poster Display Hours: ..... 08:00 – 14:00

## Poster Take-Down Time:

### Group A

**Tuesday, August 14** ..... 14:00 – 15:00

### Group B

**Thursday, August 16** ..... 14:00 – 15:00

*Any posters not removed after Take-Down Time will be removed and discarded by management.*



# Side Meetings

**Saturday, August 11**

**08:00 - 17:00**

**4 Corners Youth Concussion Consortium**

Room: Yonge

**08:00 - 20:00**

**University of California San Francisco**

**Department of Neurosurgery**

Room: Pier 3

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**Sunday, August 12**

**9:30 - 12:00**

**KFSCI & RISCIS Meeting**

Room: Richmond

**12:00 - 13:00**

**TEAM Business Meeting**

Room: Yonge

**12:30 - 14:00**

**JON Editorial Board Meeting**

Room: Richmond

**14:00 - 16:00**

**TEAM Council Meeting**

Room: Yonge

**16:30 - 18:00**

**NNS Council Meeting**

Room: Yonge

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**Monday, August 13**

**07:00 - 08:00**

**NNS Business Meeting**

Room: Yonge

**Tuesday, August 14**

**14:00 - 16:00**

**Imaging Genetics Center, USC Mark and Mary Stevens Neuroimaging and Informatics Institute Meeting**

Room: Richmond

**14:00 - 17:00**

**Fortuna Fix Meeting**

Room: Bay

**14:30 - 16:30**

**University of Cambridge Meeting**

Room: Yonge

**16:30 - 18:30**

**NIH Meeting**

Room: Richmond

**17:00 - 19:00**

**NeuroVive Meeting**

Room: Yonge

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**Wednesday, August 15**

**07:00 - 08:00**

**NNS 2019 Planning Meeting**

Room: Yonge

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**Thursday, August 16**

**13:00 - 14:00**

**INTS Board Meeting**

Room: Richmond

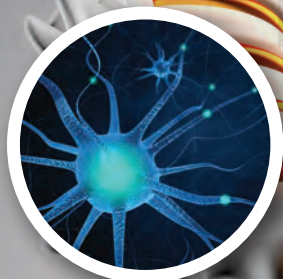


# Now Recruiting

## SPRING Trial: Acute Spinal Cord Injury

Come visit us at our booth  
& find out more about our  
Phase 2b/3 VX-210 Trial

**Booth #203**



### ***Exhibit Hours***

Monday, August 13  
10:00 am – 4:45 pm

Tuesday, August 14  
10:00 am – 2:30 pm

Wednesday, August 15  
10:00 am – 4:45 pm

Thursday, August 16  
10:00 am – 12:00 pm

*For more information*  
[www.vertexscitrial.com](http://www.vertexscitrial.com)  
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VXMA-HQ-51-00016 | 08/2018



# CONFERENCE INFORMATION

# Conference Venue



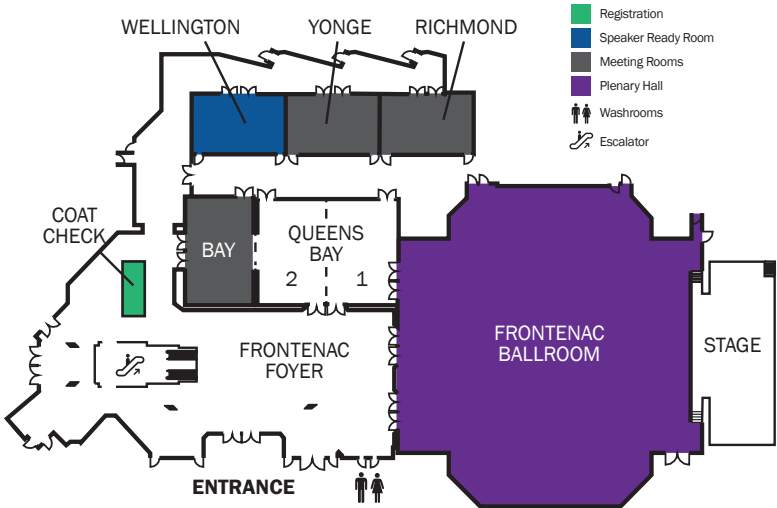
**THE WESTIN**  
HARBOUR CASTLE  
TORONTO

**The Westin Harbour Castle in Toronto**  
1 Harbour Square,  
Toronto ON, M5J 1A6 Canada

All NeuroTrauma 2018 Symposium Session Rooms as well as Exhibits, Posters and Registration are located in the Westin Harbour Castle.

[www.westinharbourcastletoronto.com/?SWAQ=958P](http://www.westinharbourcastletoronto.com/?SWAQ=958P)

## CONFERENCE CENTRE STREET LEVEL





**CONFERENCE CENTRE  
SECOND LEVEL**

- Exhibition + Posters
-  Washrooms
-  Escalator
-  Elevators

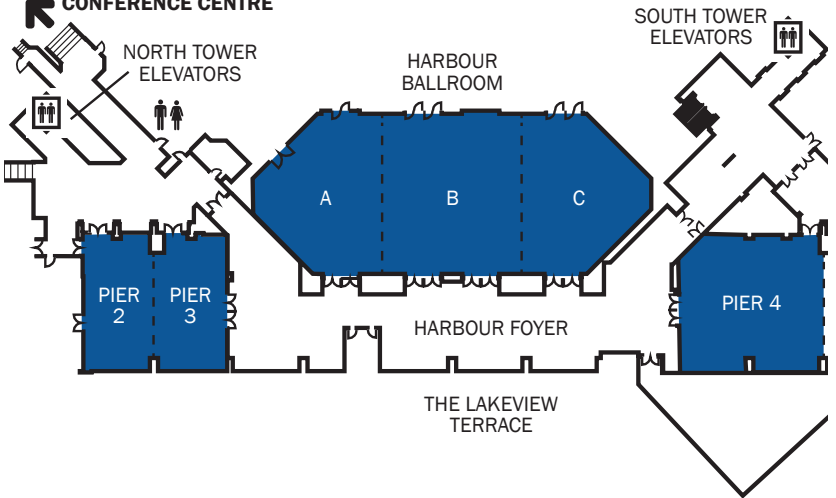


**HOTEL  
CONVENTION LEVEL**

- Session Rooms
-  Washrooms
-  Elevators



**SKYWALK TO  
CONFERENCE CENTRE**







# Fortūna Fix

UNRAVELING THE POWER OF REGENERATION

Direct cell reprogramming for restoring functionality  
in neurotrauma and neurodegeneration

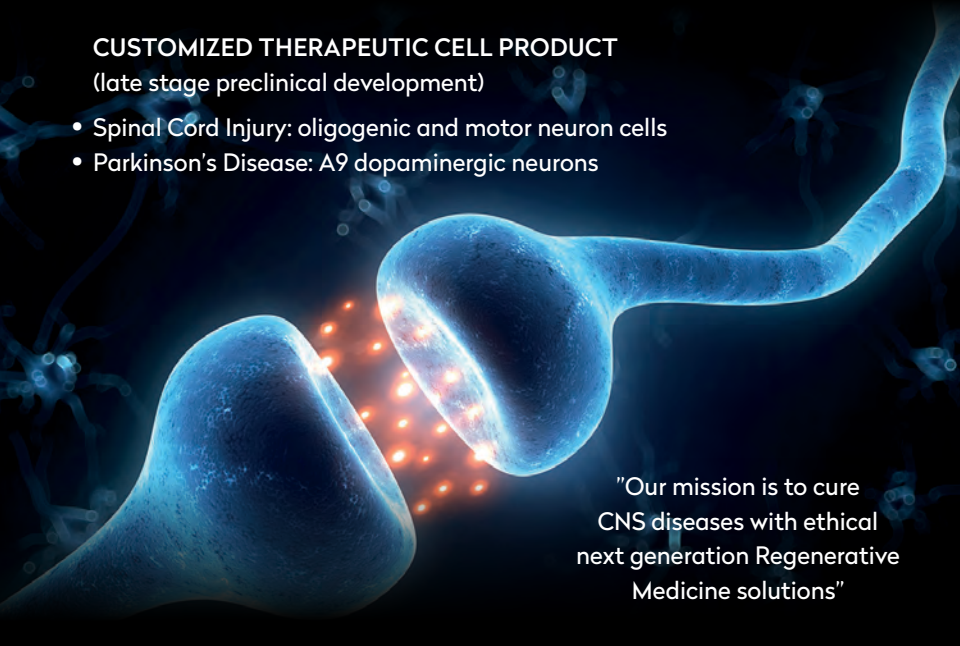
## AUTOLOGOUS CELLS

- Personalized treatment
- No immune suppression needed
- Functional integration

## LARGE-SCALE MANUFACTURING

## CUSTOMIZED THERAPEUTIC CELL PRODUCT (late stage preclinical development)

- Spinal Cord Injury: oligogenic and motor neuron cells
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# General Information from A to Z

## Abstract Book

All accepted and confirmed abstracts are available in the Journal of NeuroTrauma as well as in the Mobile App.

## Badges

Your personalized badge is your admission card to the Symposium. For organizational and security reasons, badges must be worn at the congress venue at all times. In case of loss, a replacement badge will be provided at an administrative charge of \$25.00 USD.

## Toronto Information

A Tourism Toronto desk will be located in the registration area. They will be able to provide you with maps and answer any questions about the city of Toronto.

## Cameras and Cell Phones

No cameras or video cameras are allowed in any event during NeuroTrauma 2018. As a courtesy to fellow delegates, please turn off cell phones during scientific sessions.

## Certificate of Attendance

To obtain CME credits for your attendance at NeuroTrauma 2018, please visit the accrediting body's website.

You will receive an email at the end of the symposium from us asking you to fill out a brief survey to receive your certificate of attendance.

## CME Credit Allowance

NeuroTrauma 2018 is being planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). The VCU Health Continuing Medical Education is accredited by the ACCME to provide continuing medical education for physicians. NeuroTrauma 2018 will be accredited with 37.5 AMA PRA Category 1 Credits by the Virginia Commonwealth University (VCU). Each medical

specialist should claim only those hours of credit that he/she actually spent in the educational activity. Each hour of scientific content is equal to one CME.

## Delegate Help Desk

If you require assistance or any information regarding the Symposium, see the staff at the Registration Desk.

## Exhibition

The Exhibition is located in the Metropolitan Ballroom, Conference Centre, Level 2 at The Westin Harbour Castle, Toronto. Please find a floor plan of the exhibition on page 48-49 and a detailed list of all exhibitors on page 51.

## Exhibition Opening Hours

**Monday, August 13** ..... 10:00 – 16:30  
**Tuesday, August 14** ..... 10:00 – 14:00  
**Wednesday, August 15** .... 10:00 – 16:30  
**Thursday, August 16** ..... 10:00 – 14:00

## Lost and Found

Lost and Found items should be returned/claimed at the Registration and Foyer Area at the Westin Harbour Castle.

## Networking Breaks – Metropolitan Ballroom (Exhibits & Posters)

During the Symposium, refreshments and snacks will be provided for registered delegates in the Metropolitan Ballroom.

### Monday, August 13

Poster Session, Coffee Break and Exhibits ..... 10:15 – 11:15  
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Networking Break ..... 12:45 – 14:15  
Coffee and Exhibits ..... 16:00 – 16:30

### Tuesday, August 14

Poster Session, Coffee Break and Exhibits ..... 10:15 – 11:15  
Networking Break ..... 12:45 – 14:15



# General Information from A to Z

## Wednesday, August 15

Poster Session, Coffee Break and Exhibits .....10:15 – 11:15  
Networking Break.....12:45 – 14:15  
Coffee and Exhibits .....16:00 – 16:30

## Thursday, August 16

Poster Session, Coffee Break and Exhibits .....10:15 – 11:15  
Networking Break.....12:45 – 14:15

## Onsite Mobile Application

Plan your personalized NeuroTrauma 2018 schedule. Browse sessions by track, date, and time. The mobile application includes all abstracts submitted and accepted for the NeuroTrauma 2018 Symposium. Sync with your Outlook calendar and many more. Get local information and the weather forecast for the next 5 days. Available for iPhone, iPad, Android. Download the app from [www.neurotrauma.com](http://www.neurotrauma.com)

## Parking

For all delegates arriving at the Westin Harbour Castle by car, there is parking available for \$50 CAD a night. There is also the option of public parking around the hotel for \$15-\$50 per day throughout downtown Toronto.

## Public Transportation

### By Public Transit

There is the Union Pearson Express (UP Express) that connects Toronto Pearson International Airport to downtown Toronto in 25 minutes. Trains depart every 15 minutes. There is an elaborate metro and bus system to help you get around downtown Toronto.

### By Car

Toronto's city centre is partially pedestrianised and has several unintuitive one-way systems. Expect to pay \$15-\$50 per day in Pay & Display areas and \$4 per hour on street meters. Parking attendants patrol popular areas regularly, so expect a fine if you return late or a clamp if you're parked illegally.

### By Taxi

Toronto has an abundance of taxis that are easy to find, but you should exercise caution and not get into an unmarked car or one you haven't booked. Toronto also supports Uber and Lyft.

### By Foot

Toronto's City Centre is pedestrian friendly, there are a lot of things to see and do that can be reached on foot.

## Registration Counter Hours

Located in the Cloak Room on the Lower Level of the Conference Centre at the Westin Harbour Castle.

**Sunday, August 12** .....14:00 – 19:30

**Monday, August 13** ..... 07:00 – 16:30

**Tuesday, August 14** ..... 07:00 – 14:00

**Wednesday, August 15** .... 07:00 – 16:30

**Thursday, August 16** ..... 07:00 – 16:30

## Smoking

Smoking is prohibited in all areas of the Westin Harbour Castle.

## Staff and Volunteers

Volunteers are happy to assist with any questions delegates may have regarding the Symposium or the Westin Harbour Castle.

## Wireless Internet

Wireless Internet is available throughout the Westin Harbour Castle.

Network: **Westin-MeetingRoom**

Access Code: **Neurotrauma2018**

### Disclaimer

*The organizers have made every attempt to ensure that all information in this publication is correct. The organizers take no responsibility for changes in the Programme or any loss that may occur as a result of changes in the Program. Some of the information provided in this publication has been provided by external sources. Although every effort has been made to ensure the accuracy, currency and reliability of the content, the organizers accept no responsibility in that regard.*

# Symposia Sessions

**Sunday, August 12 | 12:00 - 13:00**

## **LS1 Lunch Symposium**

Brain Tissue Oxygenation BOOSTS - Outcome After Traumatic Brain Injury

**Invitation Only**

Speaker:

**Dr. Uzma Samadani, MD, PhD**  
Rockswold Kaplan Endowed Chair for Traumatic Brain Injury Research, Hennepin County Medical Center, Associate Professor University of Minnesota Department of Neurosurgery

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**Monday, August 13 | 7:30 - 08:20**

## **BS1 Breakfast Symposium**

Direct cell reprogramming technology and its potential in the treatment of Neurotrauma

Chair: **Dr. Masha Stromme**, Salamander Invest AS, Lead Investor and Co-Founder of Fortuna Fix

**Invitation Only**

Speakers:

**Jan-Eric Ahlfors**, Inventor, CEO and CSO of Fortuna Fix

**Dr. Michael Fehlings**, Chairman of the SAB of Fortuna Fix

**Dr. Dallas Hack**, Member of the SAB of Fortuna Fix

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**Monday, August 13 | 13:00 - 14:00**

## **LS2 Lunch Symposium**

NINDS Strategies to Enhance Diversity of Neuroscience Researchers

**Ticket Required**

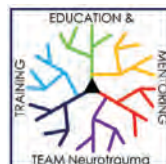
Speaker:

**Dr. Michelle D. Jones-London** serves as chief in the Office of Programs to Enhance Neuroscience Workforce Diversity (OPEN) at the National Institute of Neurological Disorders and Stroke (NINDS), NIH. Jones-London provides leadership for the establishment of meaningful networks and partnerships to increase neuroscience workforce diversity by developing and implementing specific funding opportunities (individual and institutional) and works across the NINDS scientific portfolio to promote inclusion. She earned her PhD at Pennsylvania State University College of Medicine and then received postdoctoral training as a research fellow at University of Pennsylvania in the department of psychiatry. She has performed duties across the Department of Health and Human Services including the Center for Scientific Review, FDA Office of Women's Health Science Program, and the Immediate Office of the Secretary, Intergovernmental/Tribal Affairs Office. Jones-London directs programs at NINDS which include Diversity and Re-Entry Supplements, Predoctoral Fellowships to Promote Diversity in Health-Related Research (F31), Career Development Awards to Promote Diversity (K22 and K01) and Diversity Research Education Grants (R25) (including the Neuroscience Scholars Program with SfN). Her trans-NIH efforts include oversight for the NIH Blueprint ENDURE program and D-SPAN (F99/K00).

Synopsis:

The goal of session is to provide a summary of NINDS resources regarding diversity and to identify opportunities and share successful approaches for effective recruitment, training, and retention of diverse individuals within the neuroscience community.

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# Symposia Sessions

**Tuesday, August 14 | 07:30 – 08:20**

## **BS2 Breakfast Symposium**

ERA-NET Neuron – European interdisciplinary multi-site studies for translational research in traumatic brain injury

*Chair:* **Nikolaus Plesnila**, Munich, Germany

Speakers & Speaker Topics:

**Jerome Badaut**, Bordeaux, France  
Morpho-functional changes in neurovascular unit after juvenile mild-traumatic brain injury

**Inga Körte**, Munich/Boston, Germany/USA  
Repetitive Subconcussive Head Impacts – Brain Alterations and Clinical Consequences (ReplImpact)

**Juan M Encinas**, Leioa, Spain  
Reactive Neurogenesis in the Hippocampus after Traumatic Brain Injury

**Nikolaus Plesnila**, Munich, Germany  
Long-term histopathological and functional outcome after severe experimental TBI  
Speakers

*Supported by*



**Tuesday, August 14 | 13:00 – 14:00**

## **LS3 Lunch Symposium**

Update on AO Spine Guidelines for Traumatic

Welcome - **Michael Fehlings**

Introduction of the AOSpine Guidelines issue

- **Michael Fehlings**

Role and timing of surgical intervention including central cord injury - **Brian Kwon**

Role of methylprednisolone - **Jeff Wilson**

Role of MR imaging - **Shekar Kurpad**

Panel discussion - all faculty

Closing remarks - **Michael Fehlings**

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**Wednesday, August 15 | 13:00 – 14:00**

## **LS4 Lunch Symposium**

Research, Innovation, and Translation in SCI

Speakers:

**Kent Bassett-Spiers** CEO, Ontario Neurotrauma Foundation

**Michael Fehlings**, MD, PhD, FRCSC, FACS  
Professor of Neurosurgery  
Vice Chair Research Department of Surgery  
Halbert Chair in Neural Repair and Regeneration

**Eve Tsai** MD, PhD  
Assistant Professor Neurosurgery  
Suruchi Bhargava Chair in Spinal Cord and Brain Regeneration Research

**Brain Kwon** MD, PhD, FRCSC  
Professor of Orthopaedics, University of British Columbia  
Associate Scientific Director, Rick Hansen Institute

**Bill Barrable**, CEO, Rick Hansen Institute

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a program of TIRR Foundation

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FOUNDATION

**Mission Connect**, a program of TIRR Foundation,  
is pleased to announce a  
**Spinal Cord Injury Hiring Initiative**  
partnership with **Texas A&M University** and  
**The University of Texas Medical Branch at Galveston**.

SCI Initiative recruits are:



Jennifer Dulin, Ph.D.  
*Texas A&M University*



Cedric G. Geoffroy, Ph.D.  
*Texas A&M Health Science Center*



Hangue Park, Ph.D.  
*Texas A&M University*



Qing Yang, M.D., M.S.  
*The University of Texas Medical Branch*

# Awards

## NeuroTrauma 2018 Travel Grant Awards

### Stephanie Agtarap

University of California  
San Diego

### John Arena

University of  
Pennsylvania

### Isabel Bleimeister

University of Pittsburgh

### Randhall Carteri

Federal University of Rio  
Grande do Sul

### Ann Hoffman

University of California  
Los Angeles

### Ryan Holden

Southern Illinois  
University Carbondale

### Wouter Hoogenboom

Albert Einstein College  
of Medicine

### Catherine Jutzeler

University of British  
Columbia

### Akshata Korgaonkar

Washington University

### Javier Allende

Labastida  
University of Texas  
Medical Branch

### Amanda Lee

ICORD/University of  
British Columbia

### Ryan O'Hare Doig

South Australian Health  
and Medical Research  
Institute

### Ashley Russell

Uniformed Services  
University of the Health  
Sciences

### Maha Saber

University of Arizona

### Andrea Schneider

Johns Hopkins University

### Brandy Schneider

John D Dingell  
VAMC/Wayne State  
University

### Christopher Watson

University of Texas Health  
Science Center at Houston

### Amanda White

Penn State University  
College of Medicine

### Allen Yu

Duke University

### Zhendan Zhu

Menzies Institute for  
Medical Research

## EBIC Travel Awards

### Evgenia Alexandrova

Burdenko NSI

### Randhall Bruce Carteri

Federal University of Rio  
Grande do Sul

### Shuoqlu Gan

Xi'an Jiaotong University

### Katrin Rauen

University of Zurich

### Dig Vijay Thakur

Indira Gandhi Medical  
College

## NeuroTrauma 2018 Diversity Grant Awards

### Asma Bashir

University of British  
Columbia

### Arturo Diaz Chavez

Instituto Mexicano del  
Seguro Social

### Anna Iouchmanov

University of Pittsburgh

### Erica Littlejohn

University of Kentucky

### Kimberly Mendoza

Rice University

### J. Bryce Ortiz

University of Arizona -  
College of Medicine

### Samantha Ridgway

University of Arizona

### Natalie Scholpa

University of Arizona

### Rafael Veraza

UTHSCSA

### Victor Wong

Burke Medical Research  
Institute/Weill Cornell  
Medicine

## TEAM VISA Award Winner

### Ursula Rohlwink

University of Cape Town

## AANS/CNS Poster Finalists

Details can be found on  
the NeuroTrauma 2018  
website.

# 2018 TEAM-VISA Award Winner: Dr. Ursula Rohlwink

**Dr. Ursula Rohlwink** is a Neuroscience Lecturer and Fellow in the Neuroscience Institute and Division of Neurosurgery at the University of Cape Town (UCT), South Africa. She focusses on translational neuroscience research that is driven by clinical imperatives. Under the mentorship of Professor Anthony Figaji, Head of the Paediatric Neurosurgery Unit at UCT and President of the International Neurotrauma Society (INTS), her work has examined the cerebral immune response, perturbations in intracranial dynamics following injury, and biomarkers of brain injury. The NNS TEAM Visa Award will offer Dr Rohlwink the exciting opportunity to learn novel skills and gain further insights into neuroinflammation at a cellular level. Dr Sujatha Kannan's Lab at John's Hopkins Medical Institute has a strong foundation in basic science research of various paediatric neuropathologies, including traumatic brain injury (TBI). There Dr Rohlwink will learn techniques to isolate and stimulate monocytes derived from paediatric TBI patients to elucidate mechanistic data behind the immune and cell death responses. Microglia, the resident immune cells in the brain, stem from the same lineage as monocytes, which are the key first line immune responders. Isolation and study of monocyte responses is a great opportunity to examine the early peripheral immune response, as well as gain insight into how microglia are likely to respond. Furthermore, these techniques will offer new avenues of research in other forms of brain injury. As an emerging career researcher and newly appointed Fellow of the UCT Neuroscience Institute this award will enable Dr Rohlwink to build capacity within her research group, to strengthen existing collaborations with John's Hopkins University and open doors for further work and cross-pollination in neurotrauma and other mutual research areas.



# Trainee Poster Competition Finalists

Finalist posters are displayed for the full length of the NeuroTrauma 2018 Symposium.

Final Competition Judging:  
Monday from 10:15 - 11:15

## PCF1.03.01

**Mabel Terminel**, Texas A&M Health Science Center  
Opioid-Immune Interactions after SCI

## PCF1.03.02

**Laureen Hachem**, University of Toronto  
AMPA Receptor Modulation as a Therapeutic Strategy to Enhance Survival of Spinal Cord Neural Stem Cells

## PCF1.03.03

**Masoud Hassanpour Golakani**, The Westmead Institute for Medical Research  
MIS416 enhances recovery from traumatic spinal cord injury (SCI) in mice by regulating the innate immune response

## PCF1.04.01

**Emily Dennis**, University of Southern California  
ENIGMA Military Brain Injury: Framework and Preliminary dMRI Meta-analysis

## PCF1.04.02

**Sabrina Salberg**, University of Calgary  
Investigating the Neurological Effects of Sleep Deprivation on Post Concussion Symptomatology in Adolescent Rats

## PCF1.04.03

**Jeffery Hanna**, University of Arizona  
Sensory Hypersensitivities in Patients with Persistent Post-Traumatic Headache vs. Migraine

## PCF1.04.04

**Kimberly Mendoza**, Rice University  
A New Class of Carbon Antioxidants Restored Cerebral Perfusion in Traumatic Brain Injury Complicated by Systemic Hypotension

## PCF1.04.05

**Anna Marie Dulaney**, Mississippi State University  
Modeling of Traumatic Brain Injury (TBI) due to Head Impacts with Unmanned Aircraft Systems (UAS)

## PCF1.04.06

**Margalit Haber**, University of Pennsylvania  
Prognostic inflammatory biomarkers for traumatic brain injury: A TRACK-TBI Pilot Study

## PCF1.04.07

**Andrea Schneider**, Johns Hopkins University  
Associations of Head Injury with Risk of Mortality, Incident Coronary Heart Disease, Stroke, and Heart Failure

## PCF1.04.08

**Yukai Zou**, Purdue University  
High-G head collisions are associated with short-term white matter microstructural deficits in high school football athletes

## PCF1.04.09

**Stephanie Ciarlone**, Naval Medical Research Center, Henry Jackson Foundation  
Effects of pituitary function on long-term health outcomes following mTBI in service members treated at the CRCC

## PCF1.04.10

**John Yue**, University of California San Francisco  
Diagnostic utility of GFAP for identifying TBI patients with MRI abnormalities despite normal head CT: A TRACK-TBI study

## PCF1.04.11

**Catherine Duclos**, Hôpital du Sacré-Coeur de Montréal  
Sleep-wake cycle deregulation despite normal circadian clock signal in acute traumatic brain injury

## PCF1.04.12

**William Hubbard**, University of Kentucky  
Acute mitochondrial impairment underlies prolonged cellular dysfunction after repeated mild traumatic brain injuries

## PCF1.04.13

**Ann Hoffman**, University of California Los Angeles  
Projection specific mechanisms of auditory sensitivity that contribute to enhanced fear after TBI

## PCF1.04.14

**Josie Fullerton**, University of Glasgow  
Catastrophic disruption of the blood-brain barrier in pediatric TBI

## PCF1.04.15

**Kathryn Wofford**, Drexel University  
Reprogramming Monocyte-Derived Macrophages to Mitigate Secondary Injury Pathology Following Traumatic Brain Injury

## PCF1.04.16

**Maura Weber**, University of Pennsylvania  
CLARITY reveals less disconnection of axons than previously thought and a more prolonged process of degeneration after TBI

## PCF1.04.17

**Nikolaos K. Ziogas**, Johns Hopkins University School of Medicine  
Three-dimensional interrogation of traumatic axonopathy in the brain identifies SARM1 as major driver of axonal degeneration



# Official Networking Events



## Welcome Reception

Date: Sunday, August 12

Time: 18:30 – 20:00

Location: Harbour Ballroom + Terrace

Dress Code: Casual

*Included in the registration fee for delegates.*

Join us for the Welcome Reception and to mix and mingle with sponsors & exhibitors, colleagues and friends while enjoying local wines, beers and small snacks.

Supported by

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a program of TRF Foundation

## Poster Mixer

Date: Monday, August 13

& Wednesday, August 15

Time: 18:00 – 19:00

Location: Exhibition & Poster Area  
(Metropolitan Ballroom)

Join our Poster Mixers and discuss the latest research and innovations with your fellow colleagues and friends. Enjoy a drink and small snacks while networking.

## NeuroTrauma 2018 Gala & Awards Dinner

Date: Wednesday, August 15

Time: 19:30 – 21:30

Location: Harbour Ballroom + Terrace

Dress Code: Business Casual

**\$100USD** for Non-Member

**\$75USD** for Member

Supported by



## After Party & Dancing

Date: Wednesday, August 15

Time: 21:30 – 23:00

Location: Harbour Ballroom + Terrace

Dress Code: Business Casual

Enjoy an evening with your friends and fellow colleagues. Don't miss the cocktail reception accompanied by a jazz quartet followed by a 3-course meal. We will also honor our Award Winners during this festive evening. Last, but not least, we would like to invite you to shake a leg to the tones of a rock and pop after dinner.



# ANY-maze

Behavioral Tracking Software



## ANY-maze Version 6

Designed with a familiar, user-friendly interface, version 6 is full of enhanced features sure to improve overall efficiency in your laboratory! See details and download a FREE trial of ANY-maze version 6 at [www.anymaze.com](http://www.anymaze.com) now!

### New AMI-2 interfaces

The new AMI-2 family of low-cost interfaces make it even easier to connect to a wealth of equipment typically found in behavioural labs, such as optogenetic lasers, shockers, pellet dispensers, levers, running wheels, gas analysers, lickometers, photobeams, levers, cue-lights... you get the idea!



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At US\$ 5,995.00 ANY-maze offers the best value for money of any video tracking system.

Not only do you get all the features for a single price - that's right, no modules or add-ons - but lifetime support is free!



### True flexibility

ANY-maze will happily track a single mouse in a radial arm maze, or simultaneously track sixteen rats in their home cages for a week.

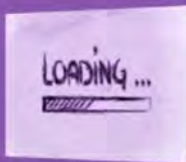
And ANY-maze isn't limited to tracking rodents - users track qualls, marmosets, zebra-fish, goats...



### Download for free

Download ANY-maze right now and try it for free. No fuss, forms or bureaucracy - you can be testing ANY-maze in your own apparatus in five minutes time.

Got questions? Just email us - we support everyone, forever, for free.



ANY-maze is a product of Stoelting Co. 620 Wheat Lane, Wood Dale, IL 60191  
USA • 1-800-860-9775 • [www.StoeltingCo.com](http://www.StoeltingCo.com)

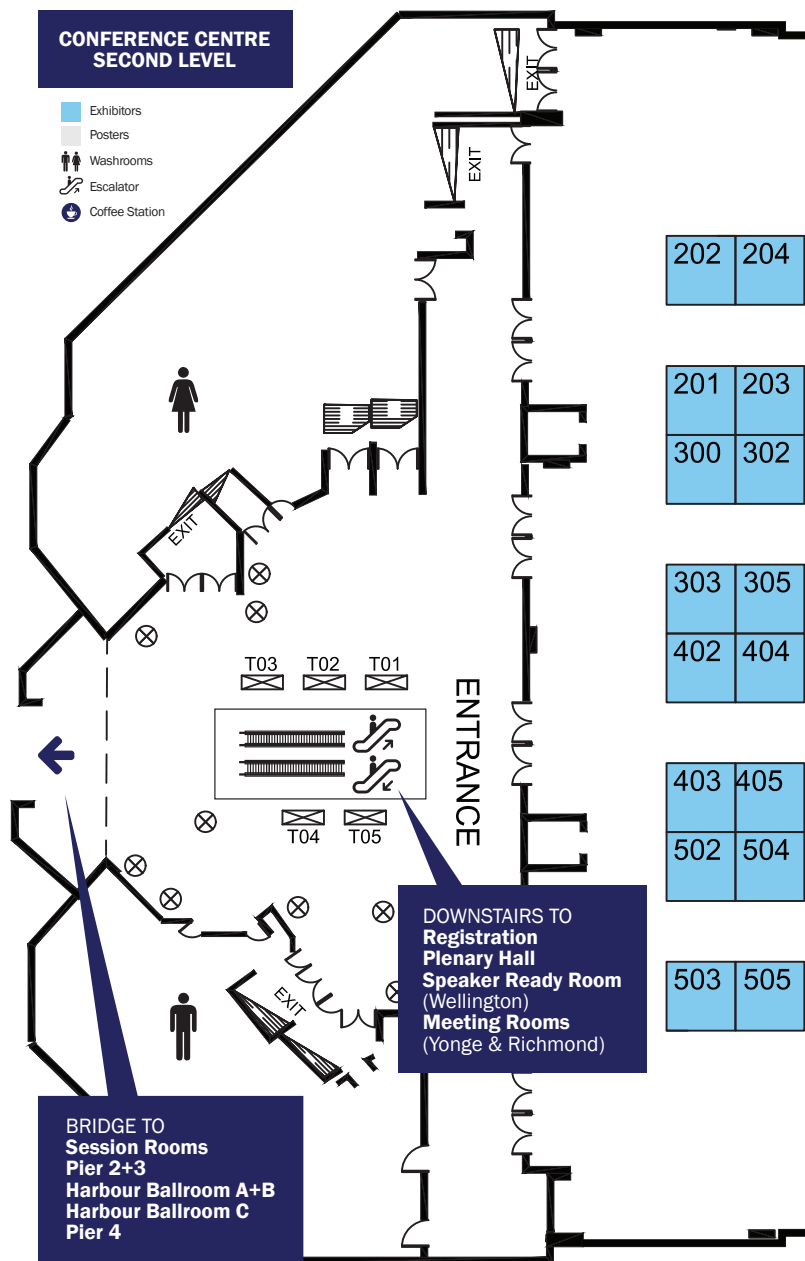
Call or email [sales@anymaze.com](mailto:sales@anymaze.com) for pricing!

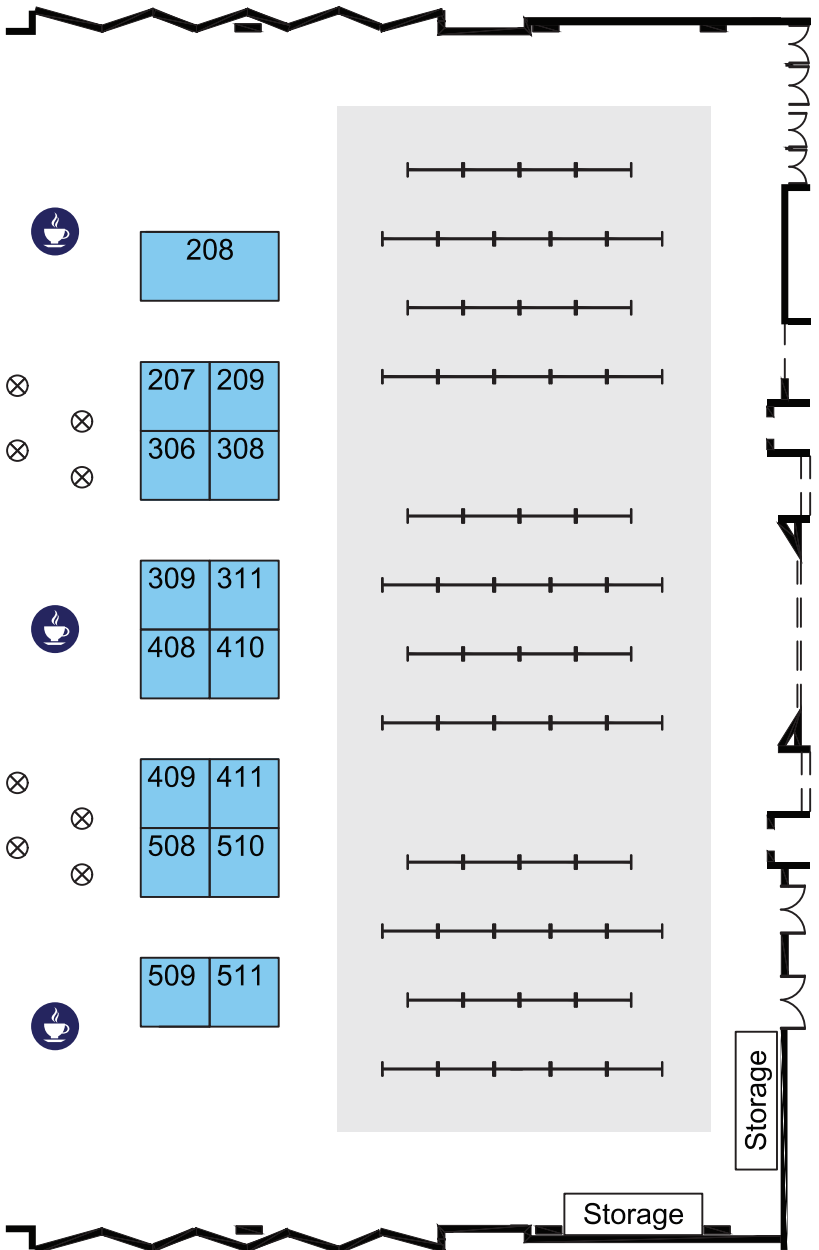




# **EXHIBITION INFORMATION**

# Exhibition Floor Plan







**We are SCoBIRC,**

13 Primary Faculty, in a contiguous shared open concept lab space.

Our mission is to be an unparalleled neurotrauma research and training center.

**Become part of our team.**

For more info: [www.scobirc.med.uky.edu](http://www.scobirc.med.uky.edu)



SCoBIRC was established in 1999 to promote individual and collaborative studies on CNS injuries resulting in a loss of neurological function. Our exciting advances have demonstrated the potential of protection, regeneration, and repair from injury, and have driven improvements in the diagnosis and treatment of spinal cord and brain injury. We have a strong record of training the next generation of neurotrauma researchers and continue to foster that tradition.

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# Sponsor & Exhibitor Biographies

## 7D SURGICAL

### 7D Surgical

Booth # 508

[www.7dsurgical.com](http://www.7dsurgical.com)

7D Surgical is a Toronto based company that develops advanced optical technologies and machine vision-based registration algorithms to improve surgical workflow and patient care. 7D Surgical's Machine-vision Image Guidance System (MvIGS) delivers profound improvement to workflows in spine surgery, providing the promise of future advancements in other surgical specialties.

## AANS/CNS Section On NEUROTRAUMA & CRITICAL CARE



American  
Association of  
Neurological  
Surgeons



CNS

### AANS/CNS Section on Neurotrauma & Critical Care

Booth # 204

[www.neurotraumasection.org](http://www.neurotraumasection.org)

The purpose of American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section is to provide a forum for education and research on trauma and critical care of the nervous system, to coordinate activities and programs relating to trauma, critical care and sports medicine for the AANS/CNS and other societies, committees and agencies, to represent the parent organizations, at their discretion, at any organization or group on matters relating to trauma, critical care and sports medicine, to advise the AANS/CNS of activities which relate to nervous system trauma and critical care by other individuals, group and/or agencies.

## AOSPINE NORTH AMERICA

### AOSpine North America

AOSpine is an international community of spine surgeons generating, distributing, and exchanging knowledge to advance science and the spine care profession through research, education, and community development. With this collaborative approach AOSpine continues to advance spine care worldwide.

## AOSPINE<sup>knowledge FORUM</sup>

### AOSpine Knowledge Forum

The Knowledge Forums are expert surgeon-driven working groups in five spine pathologies: tumor, deformity, spinal cord injury, trauma, and degenerative disease. They identify knowledge gaps, assess the best evidence for current practices, developing AOSpine classifications, staging of the disease, guidelines, and outcome measures.



### Arkis BioSciences®

Booth # 300

[www.arkisbiosciences.com](http://www.arkisbiosciences.com)

Arkis BioSciences® provides advanced medical technology used in treating hydrocephalus, pain management, and other treatment areas. Arkis BioSciences introduces the CerebroFlo™ EVD Catheter with Endexo® Technology, demonstrating 99% reduction in thrombus accumulation in-vitro. Arkis' minimally-invasive Tunneling Guidewire™ reduces the number of surgical sites, lessens trauma, and shortens surgical duration.

supported by



Rick Hansen  
Foundation  
through the  
Blusson Integrated  
Cures Partnership  
icord

### Blusson Integrated Cures Partnership

[www.rickhanseninstitute.org](http://www.rickhanseninstitute.org) | [www.icord.org](http://www.icord.org)

Established by the Rick Hansen Foundation, the Blusson Integrated Cures Partnership (BICP) is a collaboration between ICORD and the Rick Hansen Institute that works to improve outcomes and health of people living with SCI by advancing research and improving the kind and quality of care available for people with SCI.



# Sponsor & Exhibitor Biographies



CANADIAN/AMERICAN  
SPINAL RESEARCH  
ORGANIZATIONS

## Canadian/American Spinal Research

### Organization

Booth # 202

[www.csro.com](http://www.csro.com)

The Canadian/American Spinal Research Organization (CSRO/ASRO) is committed to fund targeted spinal cord injury research to maximize functional recovery, while unifying the community to advocate for a cure. Through our many fundraising initiatives and strategic partnerships the CSRO/ASRO has raised nearly 30 million dollars for spinal cure research since 1984.

## CNRM



## Center for Neuroscience and Regenerative Medicine

Booth # 504

[www.usuhs.edu/cnrm](http://www.usuhs.edu/cnrm)

CNRM is a collaborative military traumatic brain injury research group established to address the needs of the medical community to better diagnose and improve outcomes of Service Members who suffer with the long-term consequences resulting from Traumatic Brain Injury.

a Division of Integra LifeSciences  

## Codman

  
SPECIALTY SURGICAL

## Codman Specialty Surgical

Booth # 408

[www.integralife.com](http://www.integralife.com)

Codman Specialty Surgical, a Division of Integra LifeSciences is a global leader in neurosurgery that combines the renowned brand of Codman with Integra's leading advanced technologies. Our portfolio includes world-recognized brands such as Certas® and Hakim® valves, Licox® Brain Tissue Oxygen Monitoring System, ICP Express® and Directlink®, CUSA® tissue ablation platform, DuraGen® and DuraSeal®, Mayfield®, Jarit® and MicroFrance® surgical instruments and Integra® lighting.



## Craig H. Nielsen Foundation

[www.chnfoundation.org](http://www.chnfoundation.org)

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. The vision of the Foundation is such that individuals with spinal cord injuries, and those who care for them, live full and productive lives as active participants in their communities.



PART OF THE Johnson & Johnson FAMILY OF COMPANIES

## DePuy Synthes

Booth # 409

[www.depuyssynthes.com](http://www.depuyssynthes.com)

DePuy Synthes, part of Johnson & Johnson Medical Device Companies, offers the most comprehensive portfolio of products for Spine, Cranio-Maxillofacial, Trauma, Joint Reconstruction, Sports medicine, Neurovascular, power tools and biomaterials. Our innovative products have made us a leader in the management of spine and cranial trauma pathologies.



## DP Clinical

Booth # 302

[www.dpclinical.com](http://www.dpclinical.com)

DP Clinical is a privately held Contract Research Organization specializing in CNS (including spinal cord injury), cardiology, infectious disease, oncology, ophthalmology, and vaccine Phase I-IV clinical programs. We provide a full complement of clinical services including trial management, monitoring, data management, biostatistics, regulatory, safety, and medical writing.

# Sponsor & Exhibitor Biographies



European  
Brain Injury  
Consortium

## European Brain Injury Consortium (EBIC)

[www.ebic.nl](http://www.ebic.nl)

The European Brain Injury Consortium (EBIC) is a collaborative group of European researchers and Centres that aims to provide a strong, independent clinical perspective in promoting and conducting research aimed at improving outcome of patients with acute brain injury. Over the last few years EBIC has concentrated on the CENTER-TBI study ([www.center-tbi.eu](http://www.center-tbi.eu)) and on global collaborations, including partners in low and middle-income countries.



neuron

Network of European  
Funding for  
Neuroscience Research

## European Neurotrauma Network

The ERA-NET NEURON is a trans-national European funding network that supports basic, clinical and translational research in the diverse fields of disease-related neuroscience. Funding organizations across Europe, Israel, Turkey and Canada have joined forces to conquer diseases of the brain and the nervous system. The current symposium will give an overview over four ERA-Net Neurons funded research consortia investigating the pathophysiology of TBI.



## FITBIR

Booth # 410

[www.fitbir.nih.gov](http://www.fitbir.nih.gov)

The Federal Interagency Traumatic Brain Injury Research (FITBIR) informatics system was developed to share data across the entire TBI research field and to facilitate collaboration as well as interconnectivity with other informatics platforms. Sharing data, methodologies, and associated tools, rather than summaries or interpretations of this information, can accelerate research progress by allowing re-analysis of data, as well as re-aggregation, integration, and rigorous comparison with other data.



Fortūna Fix  
UNRAVELING THE POWER OF REGENERATION

## Fortuna Fix

[www.fortunafix.com](http://www.fortunafix.com)

Fortuna is a regenerative medicine company focused on direct cell reprogramming (drNPC) for CNS diseases. The approach is personalised and customised to address the underlying neuropathology: drNPC-02 biased to motor neuron and oligodendrocyte lineages for Spinal Cord Injury; drNPC-A9 to replace A9 dopaminergic cells in Parkinson's. Fortuna has a fully automated manufacturing system for the production of autologous drNPCs.

FUJIFILM

Value from Innovation

## VISUALSONICS

### FUJIFILM VisualSonics, Inc.

Booth # 403

[www.visualsonics.com](http://www.visualsonics.com)

FUJIFILM VisualSonics, the world leader in real-time, in vivo, high-resolution, micro-imaging systems, providing modalities designed for preclinical research. These cutting edge technologies allow researchers to conduct research in cardiovascular, cancer and neurobiology areas. VisualSonics platforms combine high-resolution, real-time in vivo imaging at a reasonable cost with ease-of-use and quantifiable results.



Global Neuro

## Global Neuro

[www.globalneuro.org](http://www.globalneuro.org)

Founded in the 2000s by the AO Foundation, Global Neuro is an independent, medically guided non-profit organization whose vision is to improve neurosurgical patients' quality of life worldwide. Through excellence in education, training, research and consulting, we have established ourselves as a trusted resource for leaders in the neurosurgical field and are consistently recommended internationally as a leading course.



Global Spine Congress  
2019

## Global Spine Congress 2019

Booth # 511

[www.gsc2019.org](http://www.gsc2019.org)

The Global Spine Congress (GSC) provides a unique approach to sharing knowledge and developing new approaches to the treatment of spinal disorders to help advance spinal care and improve patient care. The congress is open to all surgeons, spine practitioners, allied health care professionals and researchers.

# Sponsor & Exhibitor Biographies



## Hemedex Inc

Booth # 405

[www.hemedex.com](http://www.hemedex.com)

Hemedex's technology provides early warning of tissue ischemia, helps target therapy, monitors real-time response to intervention, and provides prognostic information. Hemedex provides a complete solution for continuous, real-time measurement of cerebral perfusion in absolute units by offering the Bowman Perfusion Monitor, perfusion probe, titanium bolts and cranial drill bits.




## International Brain Injury Association (IBIA)

Booth # 209

[www.internationalbrain.org](http://www.internationalbrain.org)

Through conferences, publications and special interest groups, the International Brain Injury Association (IBIA) serves as an educational platform for multidisciplinary professionals involved in the research and treatment of brain injury. IBIA organizes the biennial World Congress on Brain Injury, which will next be held in March of 2019 in Toronto, Canada.

## Journal of Neurotrauma

Mary Ann Liebert, Inc.  publishers

### Journal of Neurotrauma

Booth # 208

[www.liebertpub.com/neu](http://www.liebertpub.com/neu)

Journal of Neurotrauma is the only peer-reviewed journal focused exclusively on the clinical and laboratory investigation of traumatic brain and spinal cord injury. The Journal focuses on the basic pathobiology of injury to the central nervous system, while considering preclinical and clinical trials targeted at improving both the early management and long-term care and recovery of traumatically injured patients.

## KARGER

Medical and Scientific Publishers

### Karger Publishers

[www.karger.com](http://www.karger.com)

Karger Publishers in Basel, Switzerland, is a globally active medical and scientific publishing company. The publication program comprises 50 new books per year and 105 peer-reviewed journals with a growing number of open-access publications, covering all fields of medical science.



### KING-DEVICK technologies, Inc.

Booth # 502

[www.kingdevicktest.com](http://www.kingdevicktest.com)

King-Devick Technologies, Inc. offers evidence-based integrated technology solutions for concussion management and indicators of neurological function. King-Devick products, including the King-Devick Test in association with Mayo Clinic sideline concussion screening are scientifically validated in over 110 peer-reviewed, elite medical journal articles. King-Devick Recovery Acceleration Program won 2017's VA Innovation Award.

LEARNING & KNOWLEDGE BIOMED

## L&K BIOMED

### L&K BIOMED CANADA

Booth # 201

[www.lnkbiomed.com](http://www.lnkbiomed.com)

L&K BIOMED is a global spinal medical device company delivering high quality, innovative medical devices to contribute to healthier lives. L&K's mission is to provide extremely dependable implants and instruments healthcare professionals and patients can trust. This is possible due to continual effort in innovation, sustainable growth, and product diversification.

# Sponsor & Exhibitor Biographies



## **Login Canada**

Booth # 509

[www.lb.ca](http://www.lb.ca)

Login Canada is the Canadian Book Industry's largest source of Scientific, Technical and Medical books. This proudly Canadian company has been serving the health sciences community for over 25 years. They bring quality publishers and exceptional customer service together.



## **M Dialysis Inc**

Booth # 305

[www.mdialysis.com](http://www.mdialysis.com)

M Dialysis, Inc. develops and markets clinical microdialysis solutions for advanced clinical research and general intensive care usage. Our microdialysis solutions monitor tissue chemistry and diagnosis based on changes in the local metabolism, offering windows of opportunity that may lead to improved quality of life.

# Medtronic

## **Medtronic**

Booth # 207

[www.medtronic.com](http://www.medtronic.com)

As a global leader in medical technology, services and solutions, Medtronic helps to improve the lives and health of millions of people each year. We use our deep clinical, therapeutic, and economic expertise to address the complex challenges faced by healthcare systems today. Let's take healthcare Further, Together.



## **Mission Connect, a program of TIRR Foundation**

[www.tirrfoundation.org](http://www.tirrfoundation.org)

The Institute for Rehabilitation and Research (TIRR) Foundation, created, directs, and funds Mission Connect, a collaborative neurotrauma research project. Mission Connect is focused on supporting the discovery of preventions, treatments, and cures for central nervous system damage caused by brain injuries, spinal cord injuries, and neurodegenerative diseases.

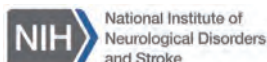


## **Moberg ICU Solutions**

Booth # 303

[www.moberg.com](http://www.moberg.com)

The Moberg Component Neuromonitoring System (CNS) integrates physiological and medical information to support decision-making that transforms neurocritical care. Using time-synchronized multimodal monitoring to collect, display and store data from multiple sources, including Moberg cEEG, our system shows the dynamic functioning of the brain, enabling individualized care of brain-injured patients.



## **National Institute of Neurological Disorders and Stroke**

Funding made possible by Grant #R13NS108672



## **National Neurotrauma Society**

Booth # 208

[www.neurotrauma.org](http://www.neurotrauma.org)

The National Neurotrauma Society is committed to the promotion of neurotrauma research by enhancing communications, providing a forum, and increasing support on the national and international level. The National Neurotrauma Society seeks to accelerate research that will provide answers for clinicians and ultimately improve the treatments available to patients.

# Sponsor & Exhibitor Biographies



## **Natus Neuro**

Booth # 402

[www.natus.com](http://www.natus.com)

Natus Neuro is a global market leader that provides diagnostic, therapeutic and surgical solutions built on a strong heritage in neurodiagnostics, neurocritical care and neurosurgery. Natus Neuro delivers clinician-led products that improve outcomes and enhance care for neuro patients through leading-edge equipment, service, education and supplies.



## **Neural Outcomes**

[www.neuraloutcomes.com](http://www.neuraloutcomes.com)

Neural Outcomes Consulting Inc. (NOCI) is a health and research consulting company that combines skills and expertise in knowledge generation, synthesis, and translation. Comprised of clinical education leaders related to clinical trials implementation and outcomes, NOCI works with pharmaceutical companies enhancing trial designs through development and implementation of endpoints for FDA approval.



## **Neuro Kinetics, Inc.**

Booth # 411

[www.neuro-kinetics.com](http://www.neuro-kinetics.com)

Neuro Kinetics, Inc. (NKI), the world leader in clinical eye-tracking and non-invasive neuro-functional diagnostic testing, has the Science to See™ neuro-functional biomarkers invisible to the naked eye. For over three decades, NKI has supplied comprehensive neuro-functional diagnostic and assessment tools to neurologists, audiologists, neurotologists, neuro-ophthalmologists, physical therapists, and others worldwide.



## **NeuroScience Associates Inc.**

Booth # 306

[www.nsalabs.com](http://www.nsalabs.com)

Proprietary MultiBrain® and MultiCord® technologies enable simultaneous sectioning and staining of up to 40 neuronal tissues, achieving uniform processing across treatment groups. Coupling mass production neurohistology with staining expertise including standard stains, immunohistochemistry and specialty stains for disintegrative degeneration and Alzheimer's pathology, Neuroscience Associates significantly reduces client's R&D cycle times.



## **Neuroscience Tools**

Booth # 311

[www.neurosciencetools.com](http://www.neurosciencetools.com)

Neuroscience Tools will display a new model impactor for CCI, for impacts to open or closed skull. The Neuropactor is a refined instrument, correcting issues in the competing model. Ask for details. Mounts on a stereotaxic instrument for precise positioning and impact depth control.



## **Ontario Institute for Regenerative Medicine**

[www.oirm.ca](http://www.oirm.ca)

The Ontario Institute for Regenerative Medicine (OIRM) is a non-profit stem cell institute funded by the Ontario government and dedicated to transforming discoveries into clinical trials and cures. Through our commitment to collaboration and partnerships, we leverage our resources to fund and support promising advances.

# Sponsor & Exhibitor Biographies



Ontario Neurotrauma Foundation

Fondation ontarienne de neurotraumatologie



Rick Hansen Institute  
Institut Rick Hansen

## Ontario Neurotrauma Foundation and Rick Hansen Institute

[www.onf.org](http://www.onf.org) | [www.rickhanseninstitute.org](http://www.rickhanseninstitute.org)

The partnership between the Ontario Neurotrauma Foundation and the Rick Hansen Institute is funded by the Ontario Ministry of Research, Innovation and Science to conduct research and implement results that improve care and quality of life for individuals living with spinal cord injury.

## OSSDSIGN®

### OssDsign

Booth # 404

[www.ossdsign.com](http://www.ossdsign.com)

OssDsign is an innovator, designer and manufacturer of personalized bone replacement technology for cranial repair. We are committed to improving outcomes in cranioplasty. By combining clinical insight with proprietary material technology and patient-adapted design, OssDsign supplies an expanding range of tailored solutions for cranial repair and facial bone reconstruction



### PMT Corporation

Booth # 505

[www.pmtcorp.com](http://www.pmtcorp.com)

PMT Corporation, established in 1979, is a US company dedicated to the research, development, manufacture and distribution of quality medical devices addressing Neurosurgery and Neurotrauma. PMT is committed to bringing the best innovations to market both throughout the US and internationally.



### QuesGen Systems, Inc.

Booth # 309

[www.quesgen.com](http://www.quesgen.com)

QuesGen Systems, Inc. is a leader in services and support to studies focusing on Brain Health research with a specific focus on Traumatic Brain Injury research. The QuesGen platform has been used for TRACKTBI (18 centers across the US), CENTERTBI (60+ across Europe) and the DOD CARE Consortium (a prospective study of 30,000 college athletes tracking sports-related injuries).



### Sophysa USA

Booth # 510

[www.sophysa.com](http://www.sophysa.com)

Sophysa is dedicated to delivering advanced CSF management solutions, with an intense focus on adjustable shunting technologies, intrathecal access devices, and integrated intracranial monitoring, providing proven performance, with sophisticated safety, simplicity, and value... at the heart of the brain.



### Spinal Cord & Brain Injury Research Center (SCoBIRC)

[www.scobirc.med.uky.edu](http://www.scobirc.med.uky.edu)

The Spinal Cord and Brain Injury Research Center at the University of Kentucky houses researchers and clinicians from a variety of disciplines, working next to each other to promote the cross-fertilization of ideas and multidisciplinary interactions. The studies range from fundamental neuroscience research to clinical applications.

# Sponsor & Exhibitor Biographies



## Stoelting Co.

Booth # 308

[www.stoeltingco.com](http://www.stoeltingco.com)

Stoelting Co. is an innovator in producing neuroscience research equipment. Stoelting has manufactured stereotaxic instruments for the past 50 years; you will find the Stoelting brand in laboratories all over the world. Visit Stoelting's booth for a demonstration of the Just for Mouse Stereotaxic with new digital display and built-in warming base.



## University of Pittsburgh

The mission of the University of Pittsburgh School of Medicine is to improve the health and well-being of individuals and populations through cutting-edge biomedical research, innovative educational programs in medicine and biomedical science, and leadership in academic medicine. The School, together with the Departments of Physical Medicine & Rehabilitation ([www.rehabmedicine.pitt.edu](http://www.rehabmedicine.pitt.edu)) and Critical Care Medicine ([www.ccm.pitt.edu](http://www.ccm.pitt.edu)), are happy to provide support for this important conference.



## Surgi-One

Booth # 503

[www.surgi-one.com](http://www.surgi-one.com)

Surgi-One is partnering with Cerapedics to bring i-FACTOR™ Peptide Enhanced Bone Graft to Canadian surgeons. i-FACTOR™ has been clinically proven in a number of Level-1 studies to provide safe, effective and early fusion across a number of spine and general orthopaedic indications.



## TEAM

Booth # 208

[www.nationalneurotraumasociety.org/team](http://www.nationalneurotraumasociety.org/team)

TEAM is an organization established to promote international gender equality in neurotrauma research. It is an organization for all individuals interested in these aims regardless of gender. We appreciate a wide diversity of ideas and opinions to help the organization successfully meet its goals.



## Vertex Pharmaceuticals

Booth # 203

[www.vrtx.com](http://www.vrtx.com)

Vertex is a global biotechnology company that invests in scientific innovation to create transformative medicines for people with serious and life-threatening diseases. In addition to clinical development programs in CF, Vertex has more than a dozen ongoing research programs focused on the underlying mechanisms of other serious diseases. Founded in 1989 in Cambridge, Mass., Vertex's headquarters is now located in Boston's Innovation District. Today, the company has research and development sites and commercial offices in the United States, Europe, Canada and Australia. Vertex is consistently recognized as one of the industry's top places to work, including being named to Science magazine's Top Employers in the life sciences ranking for eight years in a row.



## Wings for Life

[www.wingsforlife.com](http://www.wingsforlife.com)

A personal stroke of fate provided the impetus for establishing the research foundation Wings for Life. The goal: a cure for people living with the lifelong consequences of a spinal cord injury. To this end, the foundation funds top-class scientific projects and clinical studies worldwide.

# Exhibition Information

## Exhibition Location and Hours

The NeuroTrauma 2018 Exhibition is located in the Metropolitan Ballroom, Conference Centre Level 2 of The Westin Harbour Castle, Toronto.

## Exhibition Hours:

**Monday, August 13** ..... 10:00 – 16:30

**Tuesday, August 14** ..... 10:00 – 14:00

**Wednesday, August 15** ..... 10:00 – 16:30

**Thursday, August 16** ..... 10:00 – 14:00

## Exhibition Highlights

### Refreshment Breaks

Coffee will be offered in the Exhibition Hall during the Symposium days.

### Monday, August 13

Coffee Break..... 10:15 – 11:15

Networking Break..... 12:45 – 14:15

Coffee Break..... 16:00 – 16:30

*Refreshments Supported by*



### Tuesday, August 14

Coffee Break..... 10:15 – 11:15

Networking Break..... 12:45 – 14:15

### Wednesday, August 15

Coffee Break..... 10:15 – 11:15

Networking Break..... 12:45 – 14:15

Coffee Break..... 16:00 – 16:30

### Thursday, August 16

Coffee Break..... 10:15 – 11:15

Networking Break..... 12:45 – 14:15

## Poster Sessions

The Poster Sessions will be held in the Exhibit Area. For detailed information on Posters displayed please refer to the Program pages.

## Group A Poster Presentation Hours:

### Monday, August 13

Poster Display Hours: ..... 10:45 – 19:00

Mixer and Discussion: ..... 18:00 – 19:00

### Tuesday, August 14

Poster Display Hours: ..... 08:00 – 14:00

## Group B Poster Presentation Hours

### Wednesday, August 15

Poster Display Hours: ..... 10:00 – 19:00

Mixer and Discussion: ..... 18:00 – 19:00

### Thursday, August 16

Poster Display Hours: ..... 08:00 – 14:00





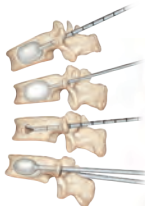
HEALTH CARE IS CHANGING  
SO ARE WE.



**DePuy Synthes**

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

Come visit us at booth  
#409. Let us show you our  
**CLEAR** innovation and  
**VERSE®** atility.



# SCI experts positioned to help you with your next clinical trial.



## DP Clinical offers:

- A full service contract research organization (CRO) with over 25 years of experience conducting neurotrauma clinical research with a focus on acute and chronic spinal cord injury (SCI) trials
- SCI work started on the benchmark study of Sygen® (GM1) – the gold standard SCI trial
- Expertise includes drugs, devices, autologous and stem cells
- Strong relationships with neurotrauma/SCI leaders and rehabilitation facilities
- A team that will be a strategic partner, knowledgeable in SCI clinical outcomes and efficacy assessments

**If you are looking for an experienced SCI partner to help you  
with your next clinical trial, contact DP Clinical.**

***Your Partner in Success***



Dr. Kalsi-Ryan  
 CSO and CEO of  
 Neural Outcomes

NOCI is a health and research consulting company that brings skills in knowledge generation, synthesis and translation together. We support oncology, neurological and musculoskeletal trials and have specialized insupporting Neurotrama since 2011.

Medical  
 Science  
 Liaison

Outcome  
 Measures

Clinical  
 Research

Neurotrama  
 Endpoint  
 Design

**CAPABILITY**

to advance frontline clinical care, clinical trials and studies, implementing our expertise in rehabilitation and clinical research specific to neurological diseases.

**CAPACITY**

to assist in protocol development, research implementation, synthesis, dissemination and knowledge mobilization.

Manufacturer  
 of  
**GRASSP**

Versions 1,  
 2, and  
**Myleopathy**



**CLIENTS**

ASUBIO  
 DAIICHI SANKO  
 VERTEX PHARMACEUTICALS  
 INVIVO THERAPEUTICS  
 NISCI CLINICAL TRIAL

RENETX  
 ASTERIAS BIOTHERAPEUTICS  
 ACCORDA PHARMACEUTICALS  
 Neurological Health Charities of Canada  
 STEM CELLS INC.



A Center of Excellence at The University  
of Miami Miller School of Medicine

Our multidisciplinary team of over 200 scientists and investigators are conducting cutting-edge basic science, translational, and clinical research targeting brain and spinal cord injury. Areas of research include neural protection, regeneration, repair, modulation, and replacement, as well as cardiometabolic physiology, pain, and fertility.

Training opportunities available:

- Undergraduate students
- Graduate students
- Postdoctoral fellows
- Visiting scholars

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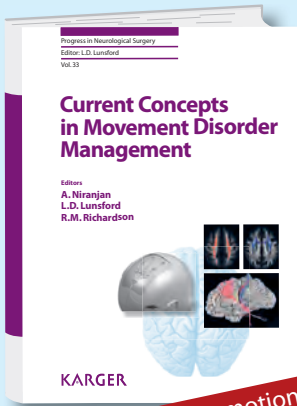
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