Translating research. Transforming lives.

NeuroTrauma 2018
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 #NeuroTrauma2018
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The NeuroTrauma 2018 Symposium wishes to warmly thank the following organizations for their generous support of the Symposium:

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02 NeuroTrauma2018 | Neurotrauma 2018 Sponsors
Table of Contents

NeuroTrauma 2018 Sponsors............02
Welcome Message .......................04
NeuroTrauma 2018 Societies ...........05
Committees ................................06

Scientific Program
Programme at a Glance ............. 08-10
Saturday, August 11 ............... 11-12
Sunday, August 12 ............. 13-14
Monday, August 13 ............ 15-17
Tuesday, August 14 .......... 18-20
Wednesday, August 15 .... 21-24
Thursday, August 16 ........ 25-27
Information for Invited Speakers and
Abstract Presenters .................28
Side Meetings.........................29

Conference Information
Conference Venue .................. 32-33
General Information from A to Z .. 36-37
Symposia Sessions .................. 38-39
Awards ................................42
2018 TEAM-VISA Award Winner:
Dr. Ursula Rohlwink .................43
Trainee Poster Competition Finalists 44
Official Networking Events ..........45

Exhibition Information
Exhibition Floor Plan ............ 48-49
Exhibitor Listing .................... 51
Sponsor & Exhibitor Biographies 52-59
Exhibition Information ............60

NeuroTrauma2018
Facebook: neurotrauma2018
Twitter: NeuroTrauma18
#neurotrauma2018
www.neurotrauma2018.com

Wireless Internet
Network: Westin-MeetingRoom
Access Code: Neurotrauma2018
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 thorough 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 Servedei  
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. Cindi M. Morshead,**  
University of Toronto

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

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

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

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

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

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

**Nadia Jaber,**  
University of Toronto

**Joanne Jones,**  
University Health Network
SCIENTIFIC PROGRAM
Saturday August 11

State of the Art of Clinical Management of Brain and Spine Trauma course

Sunday August 12

AANS/CNS Pre-Symposium Course
Debates in Neurotrauma Treatment of Brain and Spinal Cord Injury
07:30 – 18:00

Lunch Symposium Codman Specialty Surgical
12:00 - 13:00

Welcome Reception
18:30 - 20:00
### Monday August 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>07:00</td>
<td>Breakfast Symposium - Invite Only</td>
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<td>Fortuna Fix 7:30 - 8:20</td>
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<tr>
<td>08:00</td>
<td><strong>P1</strong> State of the Art in Neurotrauma: From Cell to Community 08:30 - 10:45</td>
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<tr>
<td>11:00</td>
<td>Poster Session, Coffee Break and Exhibits 10:45 - 11:15</td>
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<tr>
<td>11:30</td>
<td><strong>S1</strong> Outcomes Assessment in TBI and SCI 11:15 - 12:45</td>
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<tr>
<td>12:00</td>
<td><strong>S2</strong> Electrical Stimulation and Repair in SCI 11:15 - 12:45</td>
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<tr>
<td>12:30</td>
<td><strong>S3</strong> Major Ongoing Studies in TBI 11:15 - 12:45</td>
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<tr>
<td>13:00</td>
<td>Lunch Symposium TEAM Presentation 13:00 - 14:00</td>
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<td>14:30</td>
<td><strong>P2</strong> Acute and Chronic Stress After Central Nervous System Injury 14:15 - 16:00</td>
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<td>15:30</td>
<td>Coffee Break and Exhibits 16:00 - 16:30</td>
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<tr>
<td>16:30</td>
<td><strong>S4</strong> Dietary Fat in CNS Trauma and Repair 16:30 - 18:00</td>
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<td>17:00</td>
<td><strong>S5</strong> Modulators of Tissue Scarring and Extracellular Matrix 16:30 - 18:00</td>
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<td>18:00</td>
<td><strong>S6</strong> The International TBI Initiative 16:30 - 18:00</td>
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<td>18:30</td>
<td>Poster Mixer 18:00 - 19:00</td>
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### Tuesday August 14

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>07:00</td>
<td>Breakfast Symposium European Neurotrauma Network 7:30 - 8:20</td>
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<tr>
<td>08:00</td>
<td><strong>P3</strong> Advances in CNS Regeneration and Plasticity 08:30 - 10:15</td>
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<td>10:15</td>
<td>Poster Session, Coffee Break and Exhibits 10:15 - 11:15</td>
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<td>11:00</td>
<td><strong>S7</strong> Clinical Biomarkers and Trials for TBI and SCI 11:15 - 12:45</td>
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<td>11:30</td>
<td><strong>S8</strong> Inflammation and Its Role in Injury/Recovery 11:15 - 12:45</td>
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<tr>
<td>12:00</td>
<td>Lunch Symposium AOSpine 13:00 - 14:00</td>
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<tr>
<td>15:00</td>
<td>Networking and Free Time</td>
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<tr>
<td>15:30</td>
<td>Chinese Neuotrauma Scholar Association (CNSA) 8th Annual Symposium (everyone is welcome) 15:30 - 18:00</td>
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<td>18:30</td>
<td>CNSA Group Dinner (everyone is welcome) 18:30 - 21:00</td>
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### Program at a Glance

#### Wednesday August 15

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**Events:**
- **P4** Advanced/Multimodal Imaging in Injury Diagnosis for SCI and TBI 08:30 - 10:15
- **P5** Advances in Neurorehabilitation: Bench to Bedside 14:15 - 16:00
- **P6** Challenges in Managing Neurotrauma in the Developing World 08:30 - 10:15
- **S9** Cell Replacement in SCI and TBI 11:15 - 12:45
- **S10** Preclinical Models of Neurorehabilitation for TBI 11:15 - 12:45
- **S11** Neurotrauma Across the Lifespan 16:30 - 18:00
- **S12** Update on Clinical Trials in SCI 16:30 - 18:00
- **S13** Oxidative Stress and CNS Trauma 11:15 - 12:45
- **S14** Diagnosis and Management of Concussion/Biomarkers 11:15 - 12:45
- **S15** Glucose and Insulin in TBI 11:15 - 12:45
- **S16** Drug Discovery and Development to Advance Preclinical to Clinical Translation 16:30 - 18:00
- **S17** Bioengineering Strategies for Acute SCI 16:30 - 18:00
- **S18** Minding the 3R’s: Maximizing Use and Quality of Data in Preclinical 16:30 - 18:00

### Thursday August 16

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**Events:**
- **P6** Challenges in Managing Neurotrauma in the Developing World 08:30 - 10:15
- **P7** Perspectives on SCI and TBI Research: Going from NeuroTrauma 2018 to the Future 14:15 - 16:00
- **P8** Poster Session, Coffee Break and Exhibits 10:15 - 11:15
- **P9** Poster Session, Coffee Break and Exhibits 10:15 - 11:15
- **P10** Preclinical Models of Neurorehabilitation for TBI 11:15 - 12:45
- **S10** Preclinical Models of Neurorehabilitation for TBI 11:15 - 12:45
- **S11** Neurotrauma Across the Lifespan 16:30 - 18:00
- **S12** Update on Clinical Trials in SCI 16:30 - 18:00
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- **S15** Glucose and Insulin in TBI 11:15 - 12:45
- **S16** Drug Discovery and Development to Advance Preclinical to Clinical Translation 16:30 - 18:00
- **S17** Bioengineering Strategies for Acute SCI 16:30 - 18:00
- **S18** Minding the 3R’s: Maximizing Use and Quality of Data in Preclinical 16:30 - 18:00

**Additional Events:**
- **Poster Mixer** 18:00 - 19:00
- **Lunch Symposium** Ontario Neurotrauma Foundation & Rick Hansen Institute 15:00 - 14:00
- **Coffee Break and Exhibits** 16:00 - 16:30
- **Closing & Handover Ceremony** 16:00 - 16:30
- **NeuroTrauma 2018 Gala & Awards Dinner** 19:30 - 21:30
- **After Party** starting at 21:30
## Scientific Program
**Saturday, August 11**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td><strong>07:00 - 17:30</strong></td>
<td><strong>PSC1 Pre-Symposium Course - 8.5 CME</strong></td>
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<tr>
<td><strong>Room: Pier 3</strong></td>
<td><strong>State of the Art on the Clinical Management of Brain and Spine Trauma: What we know? What should we do?</strong></td>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td><strong>07:00 - 08:00</strong></td>
<td><strong>Registration, Coffee and Course Introduction</strong></td>
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<th>Time</th>
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<tbody>
<tr>
<td><strong>08:00 - 08:15</strong></td>
<td><strong>Welcome from Global Neuro, AONA, AOSpine and NREF</strong></td>
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<tr>
<td><strong>08:15 - 12:30</strong></td>
<td><strong>Traumatic Brain Injury and Cranial Trauma – Module 1</strong>&lt;br&gt;Chair: Geoffrey Manley, United States</td>
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<th>Time</th>
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<tbody>
<tr>
<td><strong>08:15 - 08:45</strong></td>
<td><strong>Basic Science of Traumatic Brain Injury: State of the Art</strong>&lt;br&gt;John Povlishock, United States</td>
</tr>
<tr>
<td><strong>08:45 - 09:15</strong></td>
<td><strong>Clinical Translational Advances in Traumatic Brain Injury</strong>&lt;br&gt;Geoffrey Manley, United States</td>
</tr>
<tr>
<td><strong>09:15 - 09:45</strong></td>
<td><strong>Advanced Techniques in Cranial Reconstruction</strong>&lt;br&gt;Paul Manson, United States</td>
</tr>
<tr>
<td><strong>09:45 - 10:15</strong></td>
<td><strong>Decompressive Craniectomy</strong>&lt;br&gt;Peter Hutchinson, United Kingdom</td>
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<tr>
<td><strong>10:15 - 10:30</strong></td>
<td><strong>Coffee and Networking Break</strong></td>
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<tr>
<td><strong>10:30 - 11:00</strong></td>
<td><strong>Critical Care of Traumatic Brain Injury in Adults and Children</strong>&lt;br&gt;Andrew Baker, Canada &amp; Jamie Hutchison, Canada</td>
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<tr>
<td><strong>11:00 - 11:30</strong></td>
<td><strong>Management of Traumatic Brain Injury in Children</strong>&lt;br&gt;Anthony Figaji, South Africa</td>
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<td><strong>11:30 - 12:30</strong></td>
<td><strong>Case-based Panel Discussion with a focus on Neurocritical Care Decision Management</strong>&lt;br&gt;Moderator: Shelly Timmons, United States</td>
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<tr>
<td><strong>12:30 - 12:45</strong></td>
<td><strong>Networking Break and Pick Up Boxed Lunch</strong></td>
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<td><strong>12:45 - 13:00</strong></td>
<td><strong>Lunch Seminars</strong>&lt;br&gt;An International Perspective on Traumatic Brain Injury Biomarkers for Spinal Cord Injury&lt;br&gt;Andrew Maas, Belgium</td>
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<tr>
<td><strong>13:00 - 13:15</strong></td>
<td><strong>Biomarkers for Spinal Cord Injury</strong>&lt;br&gt;Brian Kwon, Canada</td>
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<td><strong>13:15 - 13:30</strong></td>
<td><strong>Discussion</strong></td>
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| 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 |
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

11:30 - 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 Papadopoulous, 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 - 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
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
### 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

1. **08:30 - 08:56**
   **P3.01** Injury dependent and independent signalling for the control of axonal regeneration  
   *Simone di Giovanni*, United Kingdom

2. **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

3. **09:22 - 09:48**
   **P3.03** RGMa neutralization promotes functional recovery following spinal cord injury  
   *Philippe Monnier*, Canada

4. **09:48 - 10:15**
   **P3.04** dI3 interneurons: a target for neuroplasticity and regeneration for recovery of locomotor function  
   *Tuan V. Bui*, Canada

### 11:15 - 12:45
**S7** Clinical Biomarkers and Trials for TBI and SCI  
Room: Harbour Ballroom A+B  
*Chair: Brian Kwon*, Canada

1. **11:15 - 11:37**
   **S7.01** An update on Diagnostic and Prognostic Biomarkers for Traumatic Brain Injury  
   *Kevin K.W. Wang*, United States

2. **11:37 - 12:00**
   **S7.02** Biomarkers of Acute Spinal Cord Injury  
   *Brian Kwon*, Canada

3. **12:00 - 12:22**
   **S7.03** MicroRNA Biomarkers Predict Degenerative Cervical Myelopathy Severity and Surgical Outcome  
   *Alex Laliberte*, Canada

4. **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

### 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
**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 Ca2+ 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 Celorio, 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 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

11:15 - 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 - 11:45
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

11:15 - 11:37
S9.01 Cell transplantation for Spinal Cord Injury - an overview of clinical Trials
Mark Kotter, United Kingdom

11:15 - 12:00
S9.02 Mesenchymal stem cells in a nanofiber-hydrogel composite matrix for spinal cord repair
Martin Oudega, United States

Scientific Program: Wednesday, August 15 | www.neurotrauma2018.com
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15 - 11:18</td>
<td>DB2.03.01</td>
<td>Projection specific mechanisms of auditory sensitivity that contribute to enhanced fear after TBI</td>
<td>Ann Hoffman</td>
<td>United States</td>
</tr>
<tr>
<td>11:18 - 11:22</td>
<td>DB2.03.02</td>
<td>5-HT1f receptor agonists induce mitochondrial biogenesis and promote recovery from spinal cord injury</td>
<td>Epiphani Simmons</td>
<td>United States</td>
</tr>
<tr>
<td>11:22 - 11:25</td>
<td>DB2.03.03</td>
<td>Pathological patterns of spinal cord blood flow after injury visualised with laser speckle contrast imaging</td>
<td>Mathew Gallagher</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>11:29 - 11:32</td>
<td>DB2.03.05</td>
<td>MIS416 enhances recovery from traumatic spinal cord injury (SCI) in mice by regulating the innate immune response</td>
<td>Masoud Hassanpour Golakani</td>
<td>Australia</td>
</tr>
<tr>
<td>11:32 - 11:36</td>
<td>DB2.04.01</td>
<td>Associations of Head Injury with Risk of Mortality, Incident Coronary Heart Disease, Stroke, and Heart Failure</td>
<td>Andrea Schneider</td>
<td>United States</td>
</tr>
<tr>
<td>11:36 - 11:39</td>
<td>DB2.04.02</td>
<td>Sensory Hypersensitivities in Patients with Persistent Post-Traumatic Headache vs. Migraine</td>
<td>Jeffery Hanna</td>
<td>United States</td>
</tr>
<tr>
<td>11:39 - 11:43</td>
<td>DB2.04.03</td>
<td>Cognitive training improves neural efficiency in TBI</td>
<td>Kihwan Han</td>
<td>United States</td>
</tr>
<tr>
<td>11:43 - 11:47</td>
<td>DB2.04.04</td>
<td>Investigating the Neurological Effects of Sleep Deprivation on Post Concussion Symptomology in Adolescent Rats</td>
<td>Sabrina Salberg</td>
<td>Canada</td>
</tr>
<tr>
<td>11:47 - 11:51</td>
<td>DB2.04.05</td>
<td>Traumatic brain injury-induced neuronal damage induces cortical rod microglia that promote persistent neuroinflammation</td>
<td>Kristina Witcher</td>
<td>United States</td>
</tr>
<tr>
<td>11:51 - 11:55</td>
<td>DB2.04.06</td>
<td>Prognostic inflammatory biomarkers for traumatic brain injury: A TRACK-TBI Pilot Study</td>
<td>Margalit Haber</td>
<td>United States</td>
</tr>
<tr>
<td>11:55 - 11:59</td>
<td>DB2.04.07</td>
<td>Individualized brain network architecture distinguishes TBI-associated depression from TBI, major depression, and PTSD</td>
<td>Shan Siddiqi</td>
<td>United States</td>
</tr>
<tr>
<td>11:59 - 12:03</td>
<td>DB2.04.08</td>
<td>Catastrophic disruption of the blood-brain barrier in pediatric TBI</td>
<td>Josie Fullerton</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>12:03 - 12:07</td>
<td>DB2.04.09</td>
<td>Reprogramming Monocyte-Derived Macrophages to Mitigate Secondary Injury Pathology Following Traumatic Brain Injury</td>
<td>Kathryn Wofford</td>
<td>United States</td>
</tr>
<tr>
<td>12:07 - 12:11</td>
<td>DB2.04.10</td>
<td>Diagnostic utility of GFAP for identifying TBI patients with MRI abnormalities despite normal head CT: A TRACK-TBI study</td>
<td>John K. Yue</td>
<td>United States</td>
</tr>
</tbody>
</table>
**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 Giguerre**, 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

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**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

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**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

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**16:00 - 16:30**
Coffee Break and Exhibition  
Room: Metropolitan Ballroom
### Scientific Program
#### Wednesday, August 15

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Chair</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>16:30 - 18:00</td>
<td>S11</td>
<td>Neurotrauma Across the Lifespan</td>
<td>Robert Clark, US</td>
<td>Harbour Ballroom A+B</td>
</tr>
</tbody>
</table>

| 16:30 - 16:53   | S11.01      | Neuroinflammation: how aging impacts microglial function following acute brain trauma            | David Loane, US        | Harbour Ballroom A+B   |

| 16:30 - 18:00   | S12         | Update on Clinical Trials in SCI                                                                 | Greg Hawryluk, US      | Harbour Ballroom C     |

| 16:30 - 16:53   | S12.01      | Presentation details can be found in the NeuroTrauma 2018 Mobile App.                            | Jan Schwab, US         | Harbour Ballroom C     |

| 16:30 - 18:00   | PP1         | Patient Perspective                                                                               |                       | Pier 2+3               |

| 16:30 - 18:00   | PM2         | Poster Mixer 2                                                                                   |                       | Metropolitan Ballroom  |

| 16:30 - 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, US   | Harbour Ballroom A+B   |


| 17:38 - 18:00   | S12.04      | Translation of self-delivering RNA to silence PTEN and promote axon regeneration after neurotrauma | Lisa McKerracher, US   | Harbour Ballroom C     |

| 17:16 - 17:38   | S11.03      | Progressive neuropathology and the emergence of behavior deficits after pediatric TBI              | Bridgette Semple, AU   | Harbour Ballroom A+B   |

| 17:38 - 18:00   | S11.04      | Gut microbiota are disease modifying factors after spinal cord injury                             | Kristina Kigerl, US    | Harbour Ballroom A+B   |

| 19:30 - 23:00   |             | NeuroTrauma 2018 Gala & Awards Dinner                                                              |                       | Harbour Ballroom Foyer & Terrace |


**Scientific Program**  
**Thursday, August 16**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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</table>
| 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 - 10:30  | Poster Session, Coffee Break and Exhibition  
Room: Metropolitan Ballroom | |
| 10:30 - 11:10  | **P6.05** Opportunities for Neurotrauma in the Developing World  
David Kinyanjui, Kenya | |
| 11:10 - 12:00  | **P6.06** Opportunities for Neurotrauma in the Developing World  
Mengistu Alemu, Ethiopia | |
| 11:37 - 12:00  | **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**

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<tr>
<td><strong>S13.01</strong></td>
<td>Regulatory Role of Thioredoxin in autophagy-apoptosis cross talk</td>
<td>Eftekhar Eftekarpour, Canada</td>
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<tr>
<td><strong>S13.03</strong></td>
<td>Oxidative Lipid Signaling in Neuronal Death Programs in Brain Trauma</td>
<td>Hülya Bayır, United States</td>
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<tr>
<td><strong>S13.04</strong></td>
<td>Aldehyde-mediated neuropathic pain in CNS trauma</td>
<td>Riyi Shi, United States</td>
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<td>Diagnosis and Management of Concussion/Biomarkers</td>
<td>Charles Tator, Canada</td>
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<td>Presentation details can be found in the NeuroTrauma 2018 Mobile App.</td>
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<td><strong>S14.02</strong></td>
<td>Management of the Sequelae of Repetitive Concussions: Second Impact Syndrome and Postconcussion Syndrome</td>
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<td>The utility of biomarkers: From the field to the clinic</td>
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**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
### 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 bioengineering a human spinal cord repair based on rats?  
**Eve C. Tsai,** Canada

### 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

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

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

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Scientific Program: Thursday, August 16 | www.neurotrauma2018.com
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

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

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

Wednesday, August 15
07:00 - 08:00
NNS 2019 Planning Meeting
Room: Yonge

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
NCT02669849

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The Westin Harbour Castle in Toronto
1 Harbour Square, Toronto ON, M5J 1A6 Canada
www.westinharbourcastletoronto.com/?SWAP=958P

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

CONFERECE CENTRE STREET LEVEL

- Registration
- Speaker Ready Room
- Meeting Rooms
- Plenary Hall
- Washrooms
- Escalator

[Map of Conference Centre Street Level]
Direct cell reprogramming for restoring functionality in neurotrauma and neurodegeneration

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- Personalized treatment
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- Functional integration

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(late stage preclinical development)
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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
Supported by
L & K BIOMED

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
**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

**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 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

**Supported by**

**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.

**Supported by**

**Monday, August 13 | 7:30 – 08:20**
**BS1 Breakfast Symposium**
**Direct cell reprogramming technology and its potential in the treatment of Neurotrauma**
*Invitation Only*

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

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

**Supported by**

**Fortuna Fix**

**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.

**Supported by**

**Fortuna Fix**
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 (RepImpact)

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

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

Supported by

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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Ontario Neurotrauma Foundation
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www.onf.org @OntNeurotrauma
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

**Shuoqiu 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 focuses 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 Symptomology 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-Cœur 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
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.

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

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.

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 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 behavioral 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 quails, marmosets, zebrafish, 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

Call or email sales@anymaze.com for pricing!
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

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.
# Exhibitor Listing

## Alphabetical

<table>
<thead>
<tr>
<th>Company</th>
<th>Booth #</th>
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<tbody>
<tr>
<td>7D Surgical</td>
<td>508</td>
</tr>
<tr>
<td>AANS/CNS Section on Neurotrauma &amp; Critical Care</td>
<td>204</td>
</tr>
<tr>
<td>Arkis BioSciences®</td>
<td>300</td>
</tr>
<tr>
<td>Canadian/American Spinal Research Organization</td>
<td>202</td>
</tr>
<tr>
<td>Center for Neuroscience and Regenerative Medicine</td>
<td>504</td>
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<tr>
<td>Codman Specialty Surgical</td>
<td>408</td>
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<td>DePuy Synthes</td>
<td>409</td>
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<td>DP Clinical</td>
<td>302</td>
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<td>FITBIR</td>
<td>410</td>
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<td>FUJIFILM VisualSonics, Inc.</td>
<td>403</td>
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<tr>
<td>Global Spine Congress 2019</td>
<td>511</td>
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<tr>
<td>Hemedex Inc</td>
<td>405</td>
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<td>International Brain Injury Association (IBIA)</td>
<td>209</td>
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<td>Journal of Neurotrauma</td>
<td>208</td>
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<td>509</td>
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<td>M Dialysis</td>
<td>305</td>
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<td>Medtronic</td>
<td>207</td>
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<tr>
<td>Moberg ICU Solutions</td>
<td>303</td>
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<td>National Neurotrauma Society</td>
<td>208</td>
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<td>402</td>
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<td>306</td>
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<td>NeuroKinetics, Inc.</td>
<td>411</td>
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<td>311</td>
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Sponsor & Exhibitor Biographies

7D Surgical
Booth # 508
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
Booth # 204
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 advice the AANS/CNS of activities which relate to nervous system trauma and critical care by other individuals, group and/or agencies.

Arkis BioSciences®
Booth # 300
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.

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 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.

Blusson Integrated Cures Partnership
www.rickhanseninstitute.org | 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 Organization**
Booth # 202
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.

**Center for Neuroscience and Regenerative Medicine**
Booth # 504
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.

**Craig H. Neilsen Foundation**
www.chnfoundation.org

The Craig H. Neilsen 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.

**DePuy Synthes**
Booth # 409
www.depuysynthes.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.

**Codman Specialty Surgical**
Booth # 408
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.

**DP Clinical**
Booth # 302
www.dpcclinical.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.
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) and on global collaborations, including partners in low and middle-income countries.

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.

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.

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-O2 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 VisualSonics, Inc. is 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 Spine Congress 2019 (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.
Hemedex Inc
Booth # 405
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
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
Booth # 208
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 Publishers
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
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.

L&K BIOMED CANADA
Booth # 201
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.
Login Canada
Booth # 509
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
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
Booth # 207
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
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
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
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.
Natus Neuro
Booth # 402
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
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
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
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
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
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.
Ontario Neurotrauma Foundation and Rick Hansen Institute
www.onf.org | 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
Booth # 404
www.ossdesign.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
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
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
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
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.
Stoelting Co.
Booth # 308
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.

Surgi-One
Booth # 503
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
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 meets its goals.

Vertex Pharmaceuticals
Booth # 203
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
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.

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) and Critical Care Medicine (www.ccm.pitt.edu), are happy to provide support for this important conference.
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  

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

Come to Melbourne, Australia, for the 14th International Neurotrauma Symposium! An outstanding scientific program is being developed and will include chronic neuroinflammation and neurodegeneration, new technologies for CNS regeneration, fact versus fiction in sports-related concussion, microRNAs as biomarkers and therapeutic targets, advances in neuroimaging, and latest updates on clinical interventions in TBI and SCI. Why not combine your trip with the Formula 1 Australian Grand Prix, the Melbourne Comedy Festival, or the Melbourne Food and Wine Festival? And of course, enjoy some of Australia’s famous hospitality at Neurotrauma 2020!

To receive updates, please register your interest at:
@ ints2020@arinex.com.au
neurotrauma2020.com

KEY DATES:

Abstract submission open: June 2019
Abstract submission close: September 2019
Early bird registration deadline: November 2019

Hosted by:
INTS 2020 Symposium Managers: Arinex Pty Ltd. 91-97 Islington St, Collingwood, VIC 3066 Australia Tel: +61 3 8888 9500

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