SPINAL CORD INJURY SUMMIT

May 19-20, 2017

- The Ohio State University Neurological Institute -

Meeting Venue: Ross Auditorium, Ross Heart Hospital, 452 W 12th Ave, Columbus.

Hotel: Homewood Suites, 1576 W Lane Ave, Columbus, Tel 1-614-488-1500.

Evening-Event (May 19th, speakers and invited guests): OSU-Faculty Club – 181 Oval Dr South (see map last page).

Transport: Shuttles from the Hotel to the Summit-Event will be organized.

Contact: Melissa Stenger; scitp@osu.edu, Tel. 614-688-5501.

Presentations: Speakers are asked to strictly adhere to time (20 min + 5min for Q&A).

Welcome to Columbus and The Ohio State University!

We are pleased that we can offer free registration to the SCI-Summit. Hopefully, this will encourage high attendance by students and trainees. However, payment for drinks and meals is required for all except invited speakers and special invitation attendees. Please contact Melissa Stenger (see above) to pay in advance for food/drinks. No payments can be accepted on-site. Pre-payment is needed to ensure enough food/drink is available.
ARRIVAL DAY: Thursday 18th of May 2017

DAY 1: Friday, 19th of May 2017

8:00 – 8:30  Breakfast
8:30 – 8:50  Welcome & opening remarks
             C Kent, A Rezai, J Kissel, C Whitacre, (a 5min)

**SESSION I**  
**SCI – CLINICAL (CHAIRS: J MYSIW & R LONSER)**

8:50 – 9:10  Challenges and perspectives of modern SCI research – how to make a difference for patient care?
             **Steve Kirshblum**, Kessler Rehabilitation Center, Rutgers University, NJ, USA

9:15 – 9:35  Imaging initiatives and interventional trials in spinal cord injury and cervical spinal myelopathy (CSM)
             **Michael Fehlings**, University of Toronto, Canada

9:40 – 10:00 Biomarkers in SCI: the CAMPER study – an update.
             **Brian Kwon**, University of British Columbia, Canada

10:05-10:45  Coffee

**SESSION II**  
**CELL TRANSPLANTATION (CHAIRS: M TUSZYNSKI & J GUEST)**

10:45 – 11:05 Neural stem cell transplantation in SCI – translational challenges in outcome and safety
            **Mark Tuszyński**, UCSD, USA

11:10 – 11:30 Volumes and location: cell transplantation into the spinal cord
            **James Guest**, University of Miami, USA

11:35 – 11:55 Neural stem cell or iPSC derived astrocyte transplantation after spinal cord injury
            **Armin Blesch**, Indiana University, Indianapolis, USA

12.00 - 1.30  Lunch (hot)
**SESSION III  **

**EXP. REHABILITATION (S KOSTYK, V KRISHNA)**

1:35 – 1:55  
Epidural stimulation in chronic SCI  
*Susan Harkema, University of Louisville, USA*

2:00 – 2:20  
For Better or Worse: Activity, Exercise and Physical Therapy After Experimental SCI  
*David Magnuson, University of Louisville, USA*

2:25 – 2:45  
Remodeling of lumbar motoneuron circuitry after an above-level spinal cord injury  
*Xiao-Ming Xu, Indiana University, USA*

2:50 – 3:10  
Mitochondrial bioenergetics and functional recovery after Spinal Cord Injury  
*Alexander Rabchevsky, University of Kentucky, USA*

3:15-4.00  
Coffee

**SESSION IV  **

**SCI DISEASE (CHAIRS: M BASSO, D McTIGUE)**

4:00 – 4:20  
The Prospect-ADDITION SCI – A PROSPECTive study of autonomic dynamic dysfunction to predict infections after spinal cord injury  
*Jan Schwab, The Ohio State University, USA*

4:25 – 4:45  
The liver after SCI – an acute-phase organ with outcome ramifications  
*Dana McTigue, The Ohio State University, USA*

4:50 – 5:10  
Gut dysbiosis impairs recovery after SCI  
*Phillip Popovich, The Ohio State University, USA*

5:15 – 6:15  
Happy Hour (on site)  
Get together: Students & Speakers & Faculty  

10min Walk to OSU Faculty Club (see map last page)

6:30  
Dinner (The Faculty Club, The Ohio State University)  
Greetings words (Evans, Khan, EMS, Ohio-Fire, State-Ohio)  
(Summit Faculty and Invited Guests only)
DAY 2: Saturday, 20th of May 2017

08:30 – 8:30 Breakfast

**Session V**  
**Neuro-Plasticity I**  
*(Chairs: J. Lerch, A. Tedeschi)*

8:30 – 8:50  
Developing a safe strategy of promoting axon regeneration and functional recovery after spinal cord injury  
*Zhigang He, Children’s Hospital Boston, Harvard Medical School, USA*

8:55 – 9:15  
Targeting the scar components in CNS Injury; a translational research approach  
*Jerry Silver, Case Western Reserve University, Cleveland, USA*

9:20 – 9:40  
Spatial and temporal arrangement of neuronal intrinsic and extrinsic mechanisms controlling axon regeneration.  
*Andrea Tedeschi, The Ohio State University, USA*

9:45 – 10:15  
Coffee Break

**Session VI**  
**Neuro-Plasticity II & Pathophysiology**  
*(Chairs: Z. He, J. Silver)*

10:15 – 10:35  
The effects of restraint stress on allodynia and sensory neuron plasticity  
*Jessica Lerch, The Ohio State University, USA*

10:40 – 11:00  
Lesion-determinants of age in spinal cord injury  
*John Gensel, University of Kentucky, USA*

11:05 – 11:25  
Proteostasis as an acute global end therapeutic target for SCI  
*Scott Whittemore, University of Louisville, USA*

11:30-12.00  
Lunch (Boxes)
Session VII  Clinical SCI-Studies @ OSU  
(Chairs: S Colachis, D Evans, J Bogner)

12:00 – 12:20  
Restoring cortical control of functional movement in a human with quadriplegia.  
Ali Rezai, The Ohio State University, USA

12:25 – 12:45  
Chronic SCI - The Neurorecovery Network (NRN) – hypotheses and ongoing trials.  
Michele Basso, The Ohio State University, USA

12:50 – 1:10  
Impact of initial clinical and imaging parameters on long-term neurological outcomes in acute traumatic cervical SCI.  
Francis Farhadi, The Ohio State University, USA

1:15 – 1:25  
Adjourn  
(P Popovich, J Schwab)

1:40 - 2:00  
Shuttle to Airport
We are thankful for the support by the Neurological Institute of the Ohio State University.