

It is with great pleasure that I welcome you to our 19th Annual University of California Neurotrauma Symposium. This year we are staying at the Doubletree Hilton at Jan Jose, California. San Jose, officially the City of San José, is the economic, cultural, and political center of Silicon Valley and the largest city in Northern California. The arts and culture are essential elements in the character and quality of life in the vibrant San José community.

I would like to acknowledge the efforts of Drs. Chris Giza, Mayumi Prins and Fernando Gómez-Pinilla in putting together another outstanding program in modern concepts of translational TBI. In addition, our meeting has continued to receive generous financial support from several donors including substantial support from the Centre for Neuro Skills under the direction of Dr. Mark Ashley. If you have the opportunity, I would ask that you not only thank Dr. Ashley for his continued support but that you also take the time to visit one of their outstanding rehabilitation facilities.

As is our custom, the meeting will begin on Sunday, September 23rd featuring our Young Investigators. Following this will be a session on Neuro Nursing and a session on axonal injury and inflammation. We will top this first day off with Dr. Gómez-Pinilla monitoring a "Hot off the Press" session and an evening dinner and a movie, featuring the award-winning documentary "Battlefield: Home – Breaking the Silence" with personal comments from director Anita Sugimura Holsapple.

Our second day will feature the topic of Psychiatry and TBI followed by a provocative session on "what we think we know: different perspectives". As is our tradition, the second day's afternoon is free to interact with colleagues and friends. I would encourage you to enjoy the City of San José, its art, culture and fine dining experiences.

Our last day will feature the topics of plasticity and recovery of function, the potential of engineering to prevent and treat TBI and a review of "Big Data and Multi-Center Studies". I would especially like to express my appreciation to Dr. Thomas McAllister who has generously taken time out of his busy schedule to present at our symposium. His attendance will truly add to the prestige of our meeting as well as help us to celebrate the science of Neurotrauma which impacts so many people throughout the world.



David A. Hovda, Ph.D.  
Director, UCLA Brain Injury Research Center



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SEPTEMBER 23-25, 2018  
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SEPTEMBER 23-25, 2018

DoubleTree Hilton  
San José, California

12:00pm Lunch

12:45pm Welcome and Opening Remarks - David Hovda, PhD (UCLA)

**1:00-2:00 SESSION 1  
YOUNG INVESTIGATORS**

Chair: David Hovda, PhD (UCLA)

**The Gut-Brain Axis: Enteric Microbiota in Brain Injury**  
Wellington Amaral, PhD (UCLA)

**TRACK-SCI: Challenges and Solutions in Establishing an Acute Spinal Cord Injury Database** - Xuan Duong Fernandez, BA and Leigh Thomas, BA (UCSF)

**Diagnosis: Concussion** - Joshua Kamins, MD (UCLA)

**EEG and Spatial Learning Following Mild TBI** - Katelynn Ondek, BS (UCD)

**2:00-3:00 SESSION 2  
NEURO NURSING**

Chairs: Courtney Real, MSN & Stephanie Wolahan, PhD (UCLA)

**cEEG and Traumatic Injury: The Role of the Bedside Nurse**  
Kevin Cornett, BSN and Janice Im, BSN (UCLA)

**Epileptogenesis in TBI: The EpiBioS4Rx Study**  
Courtney Real, MSN and Vikesh Shrestha, BS (UCLA)

**Creating the NeuroICU Network of the Future**  
Revati Vishwasrao, BS, Christine Picinich, MS and Lara Zimmermann, MD (UCD)

3:00 Break

**3:15-4:45 SESSION 3  
AXONAL INJURY & INFLAMMATION**

Chair: Neil Harris, PhD (UCLA)

**Chronic Demyelination and Seizures: Gliosis and Modified Neuronal Activity**  
Seema Tiwari-Woodruff, PhD (UCR)

**Vascular Modifications in Traumatic Brain Injury** - Andre Obenaus, PhD (UCI)

**White Matter Changes and Outcome After Mild Traumatic Brain Injury**  
Esther Yuh, MD, PhD (UCSF)

**4:45-5:45 "HOT OFF THE PRESS"**

Chair: Fernando Gómez-Pinilla, PhD (UCLA)

6:00 Reception

7:00 Dinner and a Movie

Anita Sugimura Holsapple, Director of Battlefield Home - *Breaking the Silence*

7:30 am Continental Breakfast

**8:00-9:30 SESSION 4  
PSYCHIATRY & TBI**

Chair: Ann Hoffman, PhD (UCLA)

**Shifting the Paradigm in PTSD Treatment: UCLA Operation Mend – a Warrior Care Network Intensive Outpatient Program** - Jo Sornborger, PsD (UCLA)

**Behavioral Sequelae of Mild TBI**  
Thomas McAllister, MD (Indiana U)

**Treatment Strategies to Reverse Cognitive Deficits after TBI**  
Susanna Rosi, PhD (UCSF)

9:30 Break

**9:45-12:00 SESSION 5  
WHAT WE THINK WE KNOW: DIFFERENT PERSPECTIVES**

Chair: Gene Gurkoff, PhD (UCD)

**No Jest, Rest is Best for Concussion and TBI**  
Meeryo Choe, MD (UCLA)

**Tau is How CTE Happens Now**  
Mayumi Prins, PhD (UCLA)

**Brain-Gut Axis in the TBI Pathophysiology**  
Fernando Gómez-Pinilla, PhD (UCLA)

**Anabolic-Androgenic Steroid Abuse: Potential Interactions with Neurotrauma**  
Ruth Wood, PhD (USC)

Afternoon/Evening on your own

**FOR REGISTRATION INFORMATION PLEASE CONTACT:**

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DAY 2 MONDAY 9/24

**SEPTEMBER 23-25, 2018**  
DoubleTree Hilton - San José, California

7:30 am Continental Breakfast

**8:00-9:30 SESSION 7  
BIOLOGICAL MECHANISMS OF PLASTICITY, TBI  
AND RECOVERY**

Chair: Bruce Lyeth, PhD (UCD)

**Acute Treatment for TBI: Unrealized Potential for Calcium Channel Blockers**  
Robert Berman, PhD (UCD)

**Epigenetic Regulation of Memory and Synaptic Plasticity After Early-Life Exercise** - Autumn Ivy, MD, PhD (UCI)

**Multimodal Imaging of Pediatric TBI**  
Emily Dennis, PhD (USC-UCLA)

9:30 Break / Hotel Checkout

**9:45-11:15 SESSION 8  
ENGINEERING THE WAY OUT OF TBI**

Chair: Christopher Giza, MD (UCLA)

**Measurement and Prevention of mTBI in American Football – Is it Possible?** - David Camarillo (Stanford)

**Miniaturized and Implantable Hardware for Closed Loop Neuromodulation** - Sam Barclay (UCLA)

**Repeat Mild Traumatic Brain Injury (rmTBI) in Immunocompetent vs Immunodeficient Mice** - Brian Cummings (UCI)

**11:15-12:45 SESSION 9  
NEUROTRAUMA, BIG DATA & MULTI-CENTER  
STUDIES**

Chair: Cindy Chang (UCSF)

**Big Data and the NCAA-DOD CARE Consortium**  
Thomas McAllister (Indiana U)

**The Epilepsy Bioinformatic Study for Antiepileptogenic Therapy (EpiBioS4Rx): An International Multicenter Translational Investigation into Post-Traumatic Epilepsy**  
Jerome Engel, Jr. (UCLA)

**4CYC – Four Corners Youth Consortium**  
Christopher Giza (UCLA)

12:45am-1:00 Closing Remarks - David Hovda (UCLA)

DAY 3 TUESDAY 9/25

DAY 1 SUNDAY 9/23