

*It is with great pleasure that I welcome you to our 17th Annual University of California Neurotrauma Symposium. This year we have selected Santa Rosa, California as our venue and hope you enjoy your stay. Santa Rosa is located in the heart of the renowned Sonoma Wine making region.*

*Once again I would like to acknowledge Drs. Chris Giza and Fernando Gómez-Pinilla for their efforts in putting together another outstanding program. 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 18 featuring our Young Investigators. This year these speakers will cover topics related to the potential therapeutic interaction between rehabilitation and pharmacology; the assessment and prognosis of concussion; as well as the unique impairments in spatio-temporal bindings and precision strategy. Rounding out this first day will be a session on Neuro Nursing and new insights into Translational Acute Neurotrauma. We will top this first day off with Dr. Gómez-Pinilla monitoring a "Hot off the Press" session and an evening dinner featuring Mr. Andy Foster on the topic of Combat Sports.*

*Our second day will feature Big Data and Biomarkers, new topics of recovery and rehabilitation and novel technologies and the future of Neurotrauma research. During the afternoon and evening of the second day I encourage you to enjoy the City of Santa Rosa and surrounding areas.*

*Our last day will feature Sports Concussion, Neuroinflammation and Neurodegeneration. I would especially like to express my appreciation to Drs. Alan Faden, Frank Sharp, Steve Broglio and David Camarillo who have generously taken time out of their busy schedules to present at our symposium. Their 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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**NEUROTRAUMA  
SYMPOSIUM**  
SEPTEMBER 18-20, 2016

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**SEPTEMBER 18-20, 2016**  
**Hilton Sonoma Wine Country**  
Santa Rosa, California

12:00pm Registration

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

**1:00-1:45 SESSION 1  
YOUNG INVESTIGATORS**

Chair: David Hovda (UCLA)

Enhancing Rehabilitation with Pharmacology - Gokul Krishna (UCLA)

Using Initial Symptom Presentation to Assess Prognosis in Youth Concussion  
Douglas Polster (UCD)

Patients with Hippocampal Damage Demonstrate Impairments in  
SpatioTemporal Binding and Precision but not Spatial Strategy  
Brandon Kolorik (UCD)

**1:45-2:45 SESSION 2  
NEURONURSING**

Chair: Sue Yudovin (UCLA)

A Multi-Center Experience Using Exception from Informed Consent  
in TBI Research - Christi DeLemos (UCD)

Reality of "New" Normal - Jamie Siner (Health Bridges)

2:45-3:00 Break

**3:00-4:15 SESSION 3  
TRANSLATIONAL ACUTE NEUROTRAUMA**

Chair: Cassie Spalding (UCD)

Beyond ICP Control, Optimizing Physiology of the Neurovascular Unit  
in Severe TBI - Manuel Buitrago-Blanco (UCLA)

Blood in the Ventricles Causes Hippocampal Neuronal Cell Death and  
Memory Deficits Following TBI - Frank Sharp (UCD)

**4:15-5:30 "HOT OFF THE PRESS"**

Chair: Fernando Gómez-Pinilla (UCLA)

6:00 Reception

7:00 Dinner and Evening Program

Combat Sport - Andy Foster

*Dept. of Consumer Affairs, State of California*

**8:00-9:45 SESSION 4  
BIG DATA & BIOMARKERS**

Chair: Thomas Glenn (UCLA)

Descriptive Versus Hypothesis Driven Research to Identify Novel Injury  
Mechanisms and Therapeutic Targets in Neurotrauma - Alan Faden (U.Maryland)

Astroglial Injury Defined Biomarkers are Novel Signatures of Cell Wounding  
and Cell Death - Ina Wanner (UCLA)

Novel Genomics Strategies to Model TBI Pathology  
Fernando Gomez-Pinilla (UCLA)

9:45-10:00 Break

**10:00-11:30 SESSION 5  
RECOVERY AND REHABILITATION**

Chair: Grace Griesbach (UCLA/Centre for Neuro Skills)

Early mobility in NSICU and TBI - Daniel Neudorf (UCD)

What can functional connectomics tell us about plasticity and recovery of  
function after TBI? - Neil Harris (UCLA)

Bird's Eye View of the Future of Neurorehabilitation - Mark Ashley (CNS)

**11:30-1:00 SESSION 6  
NEW TECHNOLOGIES & IDEAS IN NEUROTRAUMA**

Chair: Gene Gurkoff (UCD)

Local Field Potentials in the Septohippocampal Network after TBI  
Aleksandr Pevzner (UCD)

Cortical Neuroprosthetics - Karunesh Ganguly (UCSF)

Revolutionizing Neuromodulation - Dejan Markovic (UCLA)

Afternoon and dinner on your own

**8:00-9:30 SESSION 7  
SPORTS CONCUSSIONS**

Chair: Cindy Chang (UCSF)

Moving Past the Morris Water Maze: Fitting Appropriate Outcome  
Measures to Experimental TBI Models - Tiffany Greco (UCLA)

Mechanism of Mild Traumatic Brain Injury to the Corpus Callosum  
David Camarillo (Stanford)

Does Concussion Alter Long-Term Cognitive Health?  
Steve Broglio (Univ. of Michigan)

9:30-10:00 Break / Checkout

**10:00-11:45 SESSION 8  
NEUROINFLAMMATION AND NEURODEGENERATION**

Chair: Robert Asarnow (UCLA)

White Matter Damage and Neurodegeneration Following Moderate-  
Severe Pediatric TBI - Emily Dennis (USC-UCLA)

Neutrophil Degranulation and Long-Term Cognitive Deficits after Pediatric  
TBI - Alpa Mahuvakar (UCSF)

Inflammation and Neurodegeneration in CNS Injury: Evolving Concepts  
and New Therapeutic Targets - Alan Faden (Univ. of Maryland)

11:45am-12noon Closing Remarks - David Hovda (UCLA)

**FOR REGISTRATION INFORMATION PLEASE CONTACT:**

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