

12th International Symposium on Neural Regeneration

PROGRAM

Wednesday, December 5, 2007

- 3:00 PM Arrival of participants and check-in
Poster Session I set-up (pins provided)
- 6:00 PM DINNER
- 7:30 PM Welcome and Keynote Address
Stephen G. Waxman, Yale Medical School
New Haven, CT, USA
"Men on Wheels, Men on Fire: Sodium Channels as Molecular Targets in Disorders of the SpinaCord"

Thursday, December 6, 2007

Session One: 8:15AM

Intrinsic Mechanisms of Regeneration

- 8:15 AM Chair: Herbert M. Geller
Developmental Neurobiology Group
NIH/NHLBI
- 8:30 AM Paul Bridgman
Washington University
St. Louis, MO, USA
"Understanding mechanisms of axon guidance: how growth cones steer"
- 9:00 AM Frank Gertler
Massachusetts Institute of Technology
Cambridge, MA
"Role of cytoskeletal dynamics during neurite initiation and outgrowth"
- 9:30 AM Adriana Di Polo
University of Montreal
Montreal, Quebec, Canada
"The long and winding road: axon regeneration within the optic nerve"
- 10:00 AM Joseph Fetcho
Cornell University
Ithaca, NY
"Imaging regeneration in vivo"
- 10:30AM BREAK
- 11:00AM Featured Speaker
Melitta Schachner
Universitat Hamburg
Hamburg, Germany
"Recognition molecules and neural repair"
- 12:00 Noon LUNCH
- 1:00 PM Viewing: Poster Session 1
- 5:00PM Featured Speaker
Douglas A. Kerr
Johns Hopkins University School of Medicine
Baltimore, MD
"Stem Cells and Spinal Cord Disorders: Models of Disease and Therapeutic Strategies"

Session Two: 7:15 PM

Noninvasive MR Imaging of Spinal Cord Injury and Repair

- 7:15 PM Chair: Patrick W. Stroman
Queen's University
Kingston, Ontario, Canada
- 7:30 PM Eric Schwartz
University of Pittsburgh Medical Center
Pittsburgh, PA
"Diffusion Tensor MRI (DTI) and the Evaluation of Axonal Integrity Following Spinal Cord Injury"
- 8:00 PM Thomas Mareci
University of Florida
Gainesville, FL
"The resolution of complex spinal cord and brain structures in vivo and ex vivo using high angular resolution diffusion MRI"
- 8:30 PM Adam Flanders
Thomas Jefferson University
Philadelphia, PA
"Clinical Utility of MRI in Spinal Cord Injury: Correlation with Clinical Deficit and Recovery"

Friday, December 7, 2007

Session Three: 8:15AM

Role of Training, Synaptic Plasticity and Learning on Functional Recovery

- 8:15 AM Chair: Fernando Gomez-Pinilla
University of California - Los Angeles
Los Angeles, CA
- 8:30 AM Fernando Gomez-Pinilla
University of California - Los Angeles
Los Angeles, CA
"The Influences of Diet and Exercise on Plasticity and Repair"
- 9:00 AM Jeffrey Kleim
Malcolm Randall VA Hospital
University of Florida - Gainesville, FL - USA
"The Utility of Adjuvant Therapies to Enhance Cortical Plasticity and Recovery from Stroke"
- 9:30 AM Randolph Nudo
University of Kansas Medical Center
Kansas City, KS - USA
"Long-distance axonal sprouting after injury to cerebral cortex of adult mammals"
- 10:00 AM V. Reggie Edgerton
University of California - Los Angeles
Los Angeles, CA - USA
"Can locomotion be controlled by peripheral afferents after a complete spinal cord injury?"
- 10:30 AM BREAK

11:00 AM *Featured Speaker*
Steven Cramer
University of California - Irvine Medical Center
Irvine, CA - USA
"Recovery from Stroke"

12:00 Noon LUNCH

1:00 PM *Poster Session 1 poster removal*

1:30PM *Poster Session II set-up (pins provided)*

5:00PM *Featured Speaker*
Douglas Wallace
University of California - Irvine, CA, USA

6:00 PM DINNER

Session Four: 7:15PM-9:05PM (or beyond)
DEBATE: Growth across the Glial Scar Will Be Sufficient for
Functional Recovery

7:15 PM *Moderator: Keith A. Crutcher*
University of Cincinnati Medical Center

TEAM A *Geoffrey Raisman*
University College, London

James W. Fawcett
University of Cambridge

Paul J. Reier
University of Florida

TEAM B *Marie T. Filbin*
Hunter College-City University of New York

Jeffery D. Kocsis
Yale University School of Medicine

Edward Hall
University of Kentucky College of Medicine

10:00 AM *Curt Freed*
University of Colorado Health Sciences Center
Denver, CO, USA
"Converting Human Embryonic Stem Cells to
Dopamine Neurons for the Treatment of Parkinson's
Disease"

10:30 AM BREAK

11:00 AM *Featured Speaker*

12 Noon LUNCH

1:00 PM *Viewing: Poster Session II*

Session Six: 4:15PM
Emerging Topics/Clinical Updates

4:15 PM *Chair: TBD*

4:30 PM *abstract speaker 1*

4:45 PM *abstract speaker 2*

5:00 PM *open slot*

5:30 PM *SCI trial update*
Michael Fehlings
University of Toronto
Toronto, Ontario, Canada
"Repair and Regeneration of the Injured
Spinal Cord: Opportunities for Clinical
Translation of Basic Research Discoveries"

6:00 PM BREAK

6:30 PM *Symposium Banquet*

Sunday, December 9, 2007

Departure of Participants

Saturday, December 8, 2007

Session Five: 8:15AM
Human Stem Cells for Model Development and Repair:
Opportunities and Challenges

8:15 AM *Chair: Arlene Chiu*
California Institute for Regenerative Medicine
San Francisco, CA

8:30 AM *Hans Keirstead*
University of California - Irvine, CA, USA
"hESC-Derived Cell Populations for the Treatment of
Spinal Cord Injury"

9:00 AM *Su-Chun Zhang*
University of Wisconsin
Madison, WI, USA
"Neural Subtype Specification of Human ESCs:
Model for Neural Development and Source for Brain
Repair"

9:30 AM *Lorenz Studer*
Sloan-Kettering Institute
New York, NY, USA
"Human ES Cells in Development and Neural
Repair"