

Friday, April 18 Highlights

Future of Neuroscience Conference: Neural Repair

9:00 a.m.–5:00 p.m.

McCormick Place West, Room 470

This interactive day-long program focuses on neural repair, and will feature poster sessions, platform presentations, a series of case vignettes, a panel discussion, and several invited lecturers discussing new developments in the field. The presenters will combine high-level science with practical clinical application. Registration is required to attend this session, in addition to Annual Meeting registration fee.

9:00 A.M.–9:20 A.M.

WELCOME AND INTRODUCTION

Michael Weinrich, MD, Bethesda, MD

9:20 A.M.–9:55 A.M.

CELLULAR THERAPIES IN MOTOR NEURON AND WHITE MATTER SPINAL CORD DISEASE

Douglas Kerr, MD, PhD, Baltimore, MD

9:55 A.M.–10:30 A.M.

REWIRING THE INJURED CNS: LESSONS FROM THE OPTIC NERVE

Larry Benowitz, PhD, Boston, MA

10:30–11:00 A.M.

ABSTRACT PRESENTATIONS

10:30 A.M.

SC01.001

Theta Burst Stimulation (TBS) in Motor Rehabilitation after Stroke: Preliminary Results on a Two-Week Treatment Protocol for the Upper Limb *Penelope Talelli, Amanda C. Wallace, Binith J. Cheeran, Ward S. Nicholas, Jonathan Marsden, Richard J. Greenwood, John Rothwell*

10:45 A.M.

SC01.002

Electrical Stimulation of Spared Corticospinal Axons Strengthens Connections with and Induces Outgrowth to Spinal Motor Circuits after Injury *Jason B. Carmel, Marcel Brus-Ramer, Samit Chakrabarty, John H. Martin*

11:00 A.M.–11:20 A.M.

BREAK AND POSTERS

11:20 A.M.–11:55 A.M.

NONINVASIVE BRAIN STIMULATION IN NEUROLOGY: PERSPECTIVES ON THE THERAPEUTIC POTENTIAL OF FTMS AND TDCS

Alvaro Pascual-Leone, MD, PhD, Boston, MA

11:55 A.M.–12:30 P.M.

SYNAPTIC PLASTICITY

Gary Lynch, MD, Irvine, CA

12:30 P.M.–1:30 P.M.

LUNCHEON

1:30 P.M.–2:05 P.M.

TREATMENT OF SPINAL CORD INJURY

Mark H. Tuszynski, MD, PhD, La Jolla, CA

2:05 P.M.–2:40 P.M.

RESTORATIVE THERAPIES FOR STROKE

Steven Cramer, MD, Irvine, CA

2:40 P.M.–3:10 P.M.

ABSTRACT PRESENTATIONS

2:40 P.M.

SC01.003

A Quantitative Method To Assess Numbers of Axons Regenerating through a Tissue-Engineered Scaffold into Distal Spinal Cord after Transection Injury in Rats *Anthony J. Windebank, Bingkun Chen, LouAnn Gross, Godard De Ruiter, Andrew M. Knight, Jewel L. Podratz, Jarred J. Nesbitt, Michael J. Yaszemski, Bradford L. Currier, Robert Spinner*

2:55 P.M.

SC01.004

Monitoring Post-Stroke Plasticity in Patients with Good Functional Recovery: A Comparison between Diffusion Tensor and Qball Magnetic Resonance Imaging *Cristina Granziera, Thomas Benner, David Tuch, Aneesh Singhal, Walter Koroshetz, Gregory Sorensen*

3:10–3:30 P.M.

BREAK AND POSTERS

3:30–4:05 P.M.

BRAIN NEUROPROSTHESIS INTERFACE

Hunter Peckham, PhD, Cleveland, OH

4:05–4:40 P.M.

APHASIA TREATMENT AND THE HUMAN MIRROR SYSTEM

Steven Small, MD, PhD, Chicago, IL

4:40–5:00 P.M.

PANEL DISCUSSION

Douglas Kerr, Larry Benowitz, Alvaro Pascual-Leone, Gary Lynch, Mark Tuszynski, Steven Cramer, Hunter Peckham, and Steven Small

POSTERS

SC02.001 Subthalamic Nucleus Stimulation Affects Orbitofrontal Cortex in Facial Emotion Recognition: A PET Study *Florence Le Jeune, Julie Péron, Isabelle Biseul, Paul Sauleau, Charles-Henri Malbert, Marc Vérin*

SC02.002 Response of Gait Dyscoordination to FES Gait Training after Stroke *Janis J. Daly, Eric Fredrickson, Robert L. Ruff*

SC02.003 Development of an RNAi Strategy for AD *Edgardo Rodriguez-Lebron, Cynthia Gouvion, Steven J. Moore, Beverly L. Davidson, Henry Paulson*

SC02.004 Stability of the Blind Spot as a Measure of Fixation Stability in Visual Restoration Therapy *Randolph Marshall, Sigrid Kenkel, Patricia Schultz, Jose Romano*

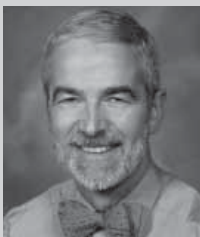
SC02.005 Effect of Diflunisal on Neurologic Disease in Familial Transthyretin Amyloidosis *Janice F. Wiesman, Peter J. Dyck, Steven R. Zeldenrust, Laura Obici, Ole B. Suhr, Taro Yamashita, Martha Skinner, Erik Nordh, Manuel Corato, John L. Berk*

SC02.006 Murine Embryonic (mES) Derived Neural Stem Cells Transplantation Ameliorates Disease Phenotype of a Spinal Muscular Atrophy Model *Stefania Corti, Monica Nizzardo, Martina Nardini, Chiara Donandoni, Francesca Saladino, Francesco Fortunato, Arianna Tucci, Nereo Bresolin, Giacomo P. Comi*

SC02.007 Aberrant Channel Subunit Trafficking in the Neurodegenerative KCNC3/R420H SCA13 Phenotype *Michael Waters, Kolja Wawrowsky, Serguei Bannykh, Giovanni Coppola, Duong Huynh, Daniel Geschwind, Stefan Pulst*

SC02.008 Peroxiredoxin 6 – A Novel Antioxidant Neuroprotective Agent *Sanjay P. Singh, Shatrunjai P. Singh, Nigar Fatima, Eri Kubo, Dharendra P. Singh*

SC02.009 Human and Rat Neural Precursor Cells Cross Brain Endothelial Cells: The Implication of CD44 *Nicolas Weiss, Christine Rampon, Cyrille Deboux, Nathalie Chaverot, Sylvie Cazaubon, Anne Baron-Van Evercooren, Pierre-Olivier Couraud*



Scientific Program Highlights Plenary Session

5:15 p.m.–6:15 p.m.

McCormick Place West, Room 375

Moderator: Stefan M. Pulst, MD, FAAN, Chair, Science Committee and Scientific Program Subcommittee

Reviews the most critical new research from more than 2,000 studies presented throughout the 2008 Scientific Program. Education Programs will end at 5:00 p.m. Friday, allowing time for meeting participants to attend this session.