

## S41 AGING AND DEMENTIA: TREATMENT

Room 178

- 1:30 P.M. S41.001**  
Nicotinamide Promotes Degradation of Phospho-tau and Restores Cognitive Function in a Mouse Model of Alzheimer's Disease *Kim N. Green, Hilda Martinez-Coria, Joan S. Steffan, Steven S. Schreiber, Leslie M. Thompson, Frank M. Laferla*
- 1:45 P.M. S41.002**  
An Update on the First U.S. Treatment Trial for Sporadic Jakob-Creutzfeldt Disease (sCJD) *Michael Geschwind, Benjamin Raudabaugh, Aissatou Haman, Gillian Devereux, David Y. Johnson, Charles Torres-Chae, Amy Kuo, Bruce Miller*
- 2:00 P.M. S41.003**  
Immunotherapy Targeting Pathologically Phosphorylated tau in a Tauopathy Mouse Model *Moran Boimel, Nikolaos Grigoriadis, Lea Rozenstein, Athanasios Loubopoulos, Olga Touloumi, Oded Abramsky, Hanna Rosenmann*
- 2:15 P.M. S41.004**  
Efficacy and Safety of Tarenflurbil, a Selective Aβ42-Lowering Agent, in Alzheimer's Disease (AD): A Phase 2 Trial of up to 24 Months of Treatment *Sandra Black, Gordon Wilcock, Kenton Zavitz, Suzanne Hendrix, Edward Swabb*
- 2:30 P.M. S41.005**  
A Randomized Controlled Trial of a Brain Plasticity-Based Training Program for Age-Related Cognitive Decline: The IMPACT Trial *Kristine Yaffe, Glenn Smith, Ron Ruff, Robert F. Kennison, Elizabeth M. Zelinski*
- 2:45 P.M. S41.006**  
Omega-3 Fatty Acids and Lipoid Acid in Alzheimer's Disease *Lynne Shinto, Joseph Quinn, Thomas Montine, Sara Baldauf-Wagner, Dennis Bourdette, Barry Oken, Jeffrey Kaye*
- 3:00 P.M. S41.007**  
A Double Blind, Placebo-Controlled, Phase II Clinical Trial of Intravenous Immunoglobulin (IVIG) for Treatment of Alzheimer's Disease *Norman Relkin, Diamonte I. Tsakanikas, Basia Adamiak, Stephanie Assuras, Sushila Shenoy, Carolina Flores, Kavita Shah, Lisa D. Ravdin, Paul Szabo, Marc Weksler*
- 3:15 P.M. S41.008**  
Dimebon Improves Memory, Orientation, Language, and Praxis in Patients with Mild to Moderate Alzheimer's Disease: Results of a One-Year Placebo-Controlled Study *Steven Ferris, Rachelle Doody, Svetlana Gavrilova, Mary Sano, Paul Aisen, Lynn Seely*

## S42 MULTIPLE SCLEROSIS: GENETICS AND PATHOGENESIS

Room 196

- 1:30 P.M. S42.001**  
Alleles in the OLIG Gene Locus Affect the Rate of Brain Atrophy in Multiple Sclerosis *Brian Healy, Charles Guttmann, Mehul Sampat, Howard Weiner, David Hafler, Philip De Jager*
- 1:45 P.M. S42.002**  
Distribution of Acute Active Plaques and Low-Grade Active Demyelination in Progressive Multiple Sclerosis (MS) *Stephan Bramow, Per Sorensen, Hans Lassmann, Nils Koch-Henriksen, Henning Laursen*
- 2:00 P.M. S42.003**  
Mitochondrial Mutations in Pediatric Clinically Isolated Demyelinating Syndromes (CIS) *Sunita Venkateswaran, Mary Sacchetti, Douglas Arnold, Dessa Sadovnick, Julia Kennedy, Donald Gagne, Brenda Banwell, Amit Bar-Or, David Simon*
- 2:15 P.M. S42.004**  
Allelic Variation Telomeric to DRB5 Influences Multiple Sclerosis Susceptibility Independently of HLA-DRB1 in African Americans *Bruce Cree, Faren B. Briggs, Stacey J. Callier, Lisa F. Barcellos, Patricia R. Ramsey, Stephen Hauser, Jorge Oksenberg*
- 2:30 P.M. S42.005**  
ABC-Transporter Gene Polymorphisms: Potential Predictors of Therapeutic Efficacy of Mitoxantrone in Multiple Sclerosis *Steffi Cotte, Niels Kruse, Nicolas Von Ahnen, Uwe Zettl, Neus Tellez, Xavier Montalban, Ralf Gold, Andrew Chan*
- 2:45 P.M. S42.006**  
Cortical Pathology and Meningeal Inflammation in Early MS *Shanu F. Roemer, Natalia Moll, Richard M. Ransohoff, Brendan Kelley, Joseph E. Parisi, Claudia Lucchinetti*
- 3:00 P.M. S42.007**  
The Multiple Sclerosis Susceptibility Allele in the IL2RA Locus Correlates with Higher Soluble IL2-RA Expression *Lisa Maier, Christopher Severson, International MS Genetic Consortium, David Hafler, Philip De Jager*
- 3:15 P.M. S42.008**  
An Extremes of Outcome Strategy Provides Evidence for Multiple Sclerosis Severity Being Determined by Alleles at the HLA-DRB1 Locus *Gabriele C. De Luca, Sreeram V. Ramagopalan, Blanca M. Herrera, David A. Dymont, Matthew R. Lincoln, Alexandre Montpetit, Maura Pugliatti, Neil Risch, Dessa Sadovnick, Margaret Esiri, Stefano Sotgiu, Thomas J. Hudson, George Ebers*

## S43 PARKINSON'S DISEASE: NON-MOTOR MANIFESTATIONS

Room 190A

- 1:30 P.M. S43.001**  
A Brief Dementia Screening Test for Parkinson's Disease (PD-BDST) *Javier Pagonabarraga, Gisela Llebaria, Carmen Garcia-Sánchez, Berta Pascual-Sedano, Alexandre Gironell, Mercè Martínez-Corral, Jaime Kulisevsky*
- 1:45 P.M. S43.002**  
Scales To Assess Psychosis in Parkinson's Disease: Critique and Recommendations of the MDS Task Force *Hubert Fernandez, Dag H. Aarsland, Gilles Fenelon, Joseph Friedman, Laura Marsh, Alexander Troster, Werner Poewe, Olivier Rascol, Christina Sampaio, Glenn Stebbins, Christopher Goetz*
- 2:00 P.M. S43.003**  
Apathy in Non-Demented Parkinson Disease: Relation to Psychophysiological Blunting *Dawn Bowers, Lindsey Kirsch-Darrow, Ania Mikos, Utaka Springer, Hubert Fernandez, Michael Okun*
- 2:15 P.M. S43.004**  
Reduced Visual Vigilance in Drivers with Parkinson's Disease *Ergun Uc, Matthew Rizzo, Elizabeth Dastrup, Steven Anderson, Robert Rodnitsky, Jeffrey Dawson*
- 2:30 P.M. S43.005**  
Manifestations of Parkinson Disease Differ in Association with REM Sleep Behavior Disorder *Ronald Postuma, Jean-Francois Gagnon, Melanie Vendette, Katia Charland, Jacques Montplaisir*
- 2:45 P.M. S43.006**  
Olfactory Dysfunction and Parkinson's Disease Progression *Renee E. Hower, Jacqueline H. Rick, Catherine C. Balderston, Daniel Weintraub, Andrew Siderowf, Matthew Stern, Paul Moberg, John Duda*
- 3:00 P.M. S43.007**  
Olfaction Is Preserved in Subjects with Clinical Parkinson Disease but without Evidence of Nigrostriatal Denervation *Nicolaas Bohnen, Satyanarayana Gedela, Stephanie Studenski, Robert Moore*
- 3:15 P.M. S43.008**  
Discriminative Power of Different Non-Motor Signs for Early Diagnosis of Idiopathic Parkinson's Disease. A Case-Control Study *Nico J. Diederich, Vannina Pieri, Sara Blyth, Géraldine Hipp, Michel Vaillant*

## S44 STROKE BIOMARKERS

Room 185AB

- 1:30 P.M. S44.001**  
Elevated Levels of Pre-Procedural High Sensitivity C-Reactive Protein Is Associated with Midterm Re-Stenosis after Extracranial and Intracranial Stenting *Archit Bhatt, Arshad Majid, Mounzer Y. Kassab, Rishi Gupta*
- 1:45 P.M. S44.002**  
HsCRP and SAA among Patients with Lacunar Stroke: Preliminary Findings from the Levels of Inflammatory Markers in Treatment of Ischemic Stroke (LIMITS) Study *Jorge Luna, Leslie A. McClure, Jeff M. Szychowski, Christopher S. Coffey, Oscar Benavente, Carole White, Ana Roldan, Khin Liu, Hangli Wang, Daniel J. Fink, Mitchell S. V. Elkind*
- 2:00 P.M. S44.003**  
High-Sensitivity C-Reactive Protein and Lipoprotein-Associated Phospholipase A<sub>2</sub> Stability before and after Stroke and Myocardial Infarction *Mitchell Elkind, Yeseon P. Moon, Vladimir Leon, Myunghye Paik, Ralph Sacco*
- 2:15 P.M. S44.004**  
High-Sensitivity C-Reactive Protein and Risk of Stroke, Vascular Events, and Mortality in a Multi-Ethnic Cohort: The Northern Manhattan Study *Mitchell S. V. Elkind, Yeseon P. Moon, Sandino Cespedes, Daniel J. Fink, Michael Pesce, Ralph Sacco, Myunghye C. Paik*
- 2:30 P.M. S44.005**  
Interleukin 6 Is Associated with Cognitive Decline: The Northern Manhattan Study *Clinton Wright, Yeseon Moon, Maria Santiago, LeRoy E. Rabbani, Ralph Sacco, Mitchell Elkind*
- 2:45 P.M. S44.006**  
Copeptin, the C-Terminal Part of the Vasopressin Pro-Hormone To Predict Outcome in Patients with Stroke *Mira Katan, Nils Morgenthaler, Felix Fluri, Chrisitan Zweifel, Stefan Engelter, Philipp Schütz, Andreas Steck, Beat Müller, Mirjam Christ-Crain*
- 3:00 P.M. S44.007**  
Plasma B-Type Natriuretic Peptide Level in Patients with Acute Ischemic Stroke *Seo Hyun Kim, Sang Hyun Park, Jeong Hee Cho, Ji-Yong Lee, Sung Soo Lee*
- 3:15 P.M. S44.008**  
The Echocardiographic Analysis of Left Ventricular Geometric Pattern in Acute Ischemic Stroke *Joon Hyun Shin, Ju Hun Lee, Mi Sun Oh, Kyung Ho Yu, Byung Chul Lee*

## S45 EPILEPSY: THERAPEUTICS

Room 190B

- 1:30 P.M. S45.001**  
Effects of Breastfeeding in Women Taking Antiepileptic Drugs on Their Children's Cognitive Outcomes *Kimford Meador, Nancy Browning, Morris Cohen, Laura Kalayjian, Joyce Liporace, Page Pennell, Michael Privitera, Andres Kanner, Jill Clayton Smith, Gus Baker, NEAD Study Group*
- 1:45 P.M. S45.002**  
Use of Antiepileptic Drugs Not Inducing Hepatic Enzymes Is Associated with Higher Rates of Hip Bone Loss in Elderly Men *Thaddeus S. Walczak, Terri Blackwell, Erik Ensrud, Elizabeth Barrett-Connor, Kristine Ensrud*
- 2:00 P.M. S45.003**  
Management Protocols Improve Outcome and Care in Generalized Status Epilepticus in Adults: A Prospective Study *Alexandre Aranda, Guillaume Foucard, Marie Denuelle, Alain Viguier, Luc Valton*
- 2:15 P.M. S45.004**  
Antiepileptic Drugs May Affect Bone Via Reproductive Hormones *Alison M. Pack, Martha J. Morrell, Alison Randall, Don McMahon, Elizabeth Shane*
- 2:30 P.M. S45.005**  
WITHDRAWN
- 2:45 P.M. S45.006**  
Antiepileptic Drugs and Relapse after Epilepsy Surgery *Ali A. Asadi-Pooya, Maromi Nei, Ashwini Sharan, Scott Mintzer, James G. Evans, Christopher Skidmore, Michael Sperling*
- 3:00 P.M. S45.007**  
FDG-PET in Patients with Insular Lobe Seizures and Normal MRI *Franck Semah, Francine Chassoux, Elisabeth Landré, Viviane Bouillere, Catherine Chiron, Bertrand Devaux*
- 3:15 P.M. S45.008**  
Safety, Tolerability, and Pharmacokinetic Parameters of 10-, 15-, and 30-Minute Intravenous Lacosamide Infusions as Short-Term Replacement Therapy in Subjects with Partial-Onset Seizures *Gregory Krauss, Elinor Ben-Menachem, Ruta Mameniskiene, Nerija Vaiciene, Martin Johnson, Melissa Brock*

**S46 MIGRAINE: FUNCTIONAL IMAGING, CARDIOVASCULAR RISK, AND EPIDEMIOLOGY**

Room 176

- 1:30 P.M. S46.001**  
Photophobia in Migraine: A PET Study *Marie Denuelle, Nicolas Bouloche, Pierre Payoux, Yves Trotter, Nelly Fabre, Gilles Géraud*
- 1:45 P.M. S46.002**  
Homozygous Mutations in SLC4A4 Resulting in Defective Membrane Expression of Na<sup>+</sup>-HCO<sub>3</sub><sup>-</sup> Cotransporter Cause Migraine *Wim Van Paesschen, Shoko Horita, Bruno A. Bergmans, George Seki*
- 2:00 P.M. S46.003**  
Metabolic Regulators of Prostanoids and Their Receptors Are Identified in Human Cerebrospinal Fluid, and They Are Altered during Migraine *Michael G. Harrington, Andreas F. Huhmer, Roger F. Biringer, Robert P. Cowan, Alfred N. Fonteh*
- 2:15 P.M. S46.004**  
Association of Migraine with Some Sociodemographic Factors: A Nationwide Population-Based Study in Brazil *Luiz Queiroz, Mario Peres, Fernando Kowacs, Marcelo Ciciarelli, Elcio Piovesan, Jano Souza, Eliova Zukerman*
- 2:30 P.M. S46.005**  
Migraine Frequency and Risk of Cardiovascular Disease in Women *Tobias Kurth, Markus Schürks, Giancarlo Logroscino, Julie E. Buring*
- 2:45 P.M. S46.006**  
Developing a Potential Migraine Mouse Model: hRAMPI Transgenic Mice *Ana Recober, Adisa Kuburas, Zhongming Zhang, Andrew F. Russo*
- 3:00 P.M. S46.007**  
Excessive Use of Barbiturates and Opioids as Risk Factors for Chronic Migraine – A Population Study *Marcelo Bigal, Michael Reed, Daniel Serrano, Richard Lipton*
- 3:15 P.M. S46.008**  
MTHFR 677C>T Polymorphism, Migraine, and Cardiovascular Disease in Women *Markus Schuerks, Robert Y. L. Zee, Julie Buring, Tobias Kurth*

**S47 PERIPHERAL NERVE: ACQUIRED AND GENETIC NEUROPATHIES**

Room 185CD

- 1:30 P.M. S47.001**  
Loss of Function of Fig4 Gene Causes a Neuropathy and Segmental Demyelination *Jun Li, Clement Chow, Zarife Sahenk, Michael Shy, Miriam Meisler, Xuebao Zhang*
- 1:45 P.M. S47.002**  
Congenital Hypomyelinating Neuropathy with Conduction Block in Mice Carrying the Egr2 I268N Mutation *Robert Baloh, Amy Strickland, Elizabeth Ryu, Timothy Fahrner, Jeffrey Milbrandt*
- 2:00 P.M. S47.003**  
Skin Biopsy Is a Highly Sensitive Measure of Early Diabetic Neuropathy Progression *A. Gordon Smith, Billie Bixby, Sara Tye, Erin Bragg, Donald Pollari, J. Singleton*
- 2:15 P.M. S47.004**  
R69C Knockin Mice Provide a “Gain of Function” Model for Early Onset CMT1B *Brian R. Shy, Cinzia Ferri, Cherie Southwood, Maria Pennuto, Jun Li, Xingyao Wu, Maria L. Feltri, Larry Wrabetz, Alex Gow, Michael E. Shy*
- 2:30 P.M. S47.005**  
Long-Term Efficacy of Immune Globulin Intravenous, 10% Caprylate/Chromatography Purified (IGIV-C; Gamunex®) Maintenance Therapy for Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) *Peter Donofrio, Vera Bril, Marinos Dalakas, Chunqin Deng, Kim Hanna, Hans Hartung, Richard Hughes, Norman Latov, Ingemar Merkiel, Pieter Van Doorn*
- 2:45 P.M. S47.006**  
Subcutaneous Versus Intravenous Infusion of Immunoglobulin in Multifocal Motor Neuropathy: A Randomized Single-Blinded Cross-Over Study *Thomas Harbo, Henning Andersen, Alexander Hess, Klaus Hansen, Soeren Sindrup, Johannes Jakobsen*
- 3:00 P.M. S47.007**  
Autoimmune Hearing Loss in Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) *Frederic Blanc, Joelle Goetz, Rene Louis Humbel, Andoni Echaniz-Laguna, Marie Fleury, Dominique Rohmer, Christine Tranchant, Jerome De Zeze*
- 3:15 P.M. S47.008**  
PMP22 Expression in Dermal Nerve Compact Myelin Does Not Correlate with Disability in Patients with CMT1A *Istvan Katona, Xingyao Wu, Kevin Francies, Carly Siskind, Shawna Feely, Michael Shy, Jun Li*

**S48 NEUROGENETICS**

Room 193B

- 1:30 P.M. S48.001**  
The Relationship between Leukocyte and Skeletal Muscle Coenzyme Q<sub>10</sub> *Keith Hyland, John Shoffner*
- 1:45 P.M. S48.002**  
Sustained Biochemical and Clinical Improvements Two Years Post-Allogeneic Stem Cell Transplantation in a Patient with MNGIE *Michio Hirano, Carlo Casali, Saba Tadesse, Marta Stanzani, David G. Savage*
- 2:00 P.M. S48.003**  
Regulation of Respiratory Chain Enzymes Expression in Different Tissues of Thymidine Kinase 2 Deficient Mice *Beatriz Dorado, H. Akman, Luis Lopez, Angeles Garcia-Cazorla, Eduardo Bonilla, Maya Vila, Michio Hirano*
- 2:15 P.M. S48.004**  
SPG11 Frequency and Phenotype in a Large Series of Patients with Hereditary Spastic Paraplegia *Alexandra Dürr, Hamid Azzedine, Paola S. Denora, Amir Boukhris, Meriem Tazir, Alberto L. Rosa, Israella Lerer, José Vale, Abdelhamid Hamri, Cyril Goizet, Mathieu Anheim, Chantal M. E. Tallaksen, Masayoshi Tada, Guillaume Garrigues, Vardiela Meiner, Sylvie Forlani, Christine Tranchant, Alexander Lossos, Filippo M. Santorelli, Paula Coutinho, Chokri Mihri, Alexis Brice, Giovanni Stevanin*
- 2:30 P.M. S48.005**  
Recombinant Alglucosidase Alpha (rhGAA) in Adult-Onset Type II Glycogenosis (GSDII): A Follow-Up Study before and after Treatment *Sabrina Ravaglia, Cesare Danesino, Miriam Rossi, Arrigo Moglia*
- 2:45 P.M. S48.006**  
The Multiple Sclerosis Genome Scan Phase 3: 954 Additional Cases and New Putative Susceptibility Loci *Philip De Jager, Paul De Bakker, Howard Weiner, Mark Daly, David Hafler*
- 3:00 P.M. S48.007**  
Whole Genome Association Study Reveals Genetic Variants That Modify Survival in Sporadic Amyotrophic Lateral Sclerosis *John E. Landers, Judith Melki, Vincent Meininger, Jonathan Glass, Leonard H. Van den Berg, Mark van Es, Peter Sapp, Diane M. McKenna-Yasek, Ting-Jan Cho, Lijia Shi, Anne Marie Wills, Wendy Broom, Ildefonso Rodriguez-Leyva, Mark Lathrop, Shaun Purcell, Ammar Al-Chalabi, Robert Brown*
- 3:15 P.M. S48.008**  
Transcriptome Analysis in Friedreich's Ataxia Identifies Potential Biomarkers Related to Treatment Response *Giovanni Coppola, Ryan Burnett, Maren Engelhardt, Fuying Gao, Susan Perlman, Joel Gottesfeld, Daniel Geschwind*

**S49 SLEEP DISORDERS**

Room 186

- 1:30 P.M. Presentation of the Sleep Science Award**  
*Sponsored by the American Academy of Neurology and the AAN Sleep Section and endowed by a grant from Cephalon, Inc.*  
*Recipient: David Rye, MD, PhD, Atlanta, GA*
- 1:45 P.M. S49.002**  
Is There a Higher Risk of Restless Legs Syndrome in Peripheral Neuropathy? *Erin Hattam, Colin Chalk, Ronald Postuma*
- 2:00 P.M. S49.003**  
The Rotigotine Transdermal Patch Is Effective in the Treatment of Idiopathic RLS: Results from a 6-Month, Multicenter, Double-Blind, Placebo-Controlled Trial *Wayne Hening, Richard Allen, Philip Becker, Richard Bogan, June Fry, Joerg W. Keffel, David Kudrow, K. Lesh, William Ondo, Erwin Schollmayer, P. Vrooman, Arthur Walters, John Winkelmann*
- 2:15 P.M. S49.004**  
A Randomized, Double-Blind, Placebo-Controlled Study To Assess the Efficacy and Tolerability of XP13512 1200 mg in Patients with Restless Legs Syndrome *Clete Kushida, Aaron Ellenbogen, Philip Becker, Daniel Canafax, Pierre Tran*
- 2:30 P.M. S49.005**  
Cellular Mechanisms Responsible for the Somnogenic Effects of Ethanol *Mahesh M. Thakkar, Samuel C. Engemann, Nasim Akther, Pradeep Sahota*
- 2:45 P.M. S49.006**  
Changes of Cognition and Event-Related Potentials in OSA Patients after Nasal CPAP Treatment *Dongkyoo Lee, Eun-Yeon Joo, Seung Hong*
- 3:00 P.M. S49.007**  
Loss of Hypocretin (Orexin) Neurons with Severe Traumatic Brain Injury *Christian R. Baumann, Claudio L. Bassetti, Philipp O. Valko, Thomas E. Scammell*
- 3:15 P.M. S49.008**  
Polysomnographic Findings in Children with Headaches *Martina Vendrame, Joseph Kaleyias, Ignacio Valencia, Agustín Legido, Sanjeev Kothare*

**S50 MULTIPLE SCLEROSIS: IMMUNOLOGY III**

Room 184CD

- 1:30 P.M. S50.001**  
Abnormal T Cell Reactivities in Childhood Inflammatory Demyelinating Disease and CNS Injury *Brenda Banwell, Roy Cheung, Julia Kennedy, Lauren Krupp, Dorothy Becker, Hans-Michael Dosch, Wadsworth Pediatric MS Study Group, Amit Bar-Or*
- 1:45 P.M. S50.002**  
Blockade of LRG-47 Promotes Apoptosis and Suppresses Induction of Experimental Autoimmune Encephalitis *Hong Wei Xu, Zhying Wu, Lan Guo, Doris Chen, John Xi Chen, Shi Du Yan*
- 2:00 P.M. S50.003**  
Evaluation of a Leukocyte Population Modulator (LPM), OPL-CCL2-LPM, in Experimental Autoimmune Encephalomyelitis (EAE) *Smriti Agrawal, Trina Johnson, Claudia Silva, John McDonald, Laura McIntosh, Philip Coggins, Wee Y. Vong*
- 2:15 P.M. S50.004**  
Studies of Oligonucleotide-Based Antagonists of TLR9 in a Mouse Model of Experimental Autoimmune Encephalomyelitis *Fu-Gang Zhu, Ekambar R. Kandimalla, Dong Yu, Agrawal Agrawal*
- 2:30 P.M. S50.005**  
IL-7 Receptor Alpha Chain Discriminates between a Normal Regulatory and a Hyperproliferative Proinflammatory T Cell Subset in Patients with Relapsing-Remitting Multiple Sclerosis *David A. LaPlaud, Laure Michel, Laureline Berthelot, Sandrine Wiertelowski, Pettré Ségolène, Fabienne Lefrère, Sophie Brouard, Jean-Paul Soullou*
- 2:45 P.M. S50.006**  
Is Multiple Sclerosis Disease Activity, as Detected by Gadolinium-Enhanced MRI, Associated with Virological and Immunological Evidence of EBV Reactivation in the Peripheral Blood? *Rachel Farrell, Dinu Antony, Duncan Clark, Fisniku Leonora, Josephine Swanton, Alan Thompson, David Miller, Gavin Giovannoni*
- 3:00 P.M. S50.007**  
Molecular Response to Interferon Beta in Multiple Sclerosis: A Longitudinal Study *Richard A. Rudick, Sandhya Rani, Yaomin Xu, Jennifer Shrock, Jar-Chi Lee, Richard M. Ransohoff*
- 3:15 P.M. S50.008**  
Cognition and Cerebellar Dysfunction in Multiple Sclerosis Are Associated with Decreased Bri2 Expression *Pamela I. Good, Niamh B. O'Hara, Nara Chhwa, Violaine K. Harris, Saud Sadiq*

# Integrated Neuroscience Session: Stroke Imaging and Emerging Therapies

THURSDAY, APRIL 17 / 2:00 P.M.–6:00 P.M.

Coordinators: Walter J. Koroshetz, MD, FAAN, and Cenk Ayata, MD

## PLATFORM SESSION / 2:00 P.M.–3:30 P.M. / ROOM 187

- 2:00 P.M. IN5-1.001** Intracranial Arterial Wall Imaging Using High Resolution 3-Tesla Contrast-Enhanced MRI *Richard Swartz, Sandeep S. Bhuta, Richard I. Farb, Ronit Agid, Robert A. Willinksy, Karel TerBrugge, Jagdish Butany, Bruce A. Wasserman, Dave M. Johnstone, Frank L. Silver, David J. Mikulis*
- 2:15 P.M. IN5-1.002** Outcome of Patients with 50-99% Intracranial Stenosis and TIA or Stroke on Antithrombotic Therapy Treated Medically vs. Stenting *Amy L. Jarvis, Marc Chimowitz, Michael J. Lynn, Michael J. Alexander, Richard Klucznik, John Chaloupka, Helmi Lutsep, Stanley Barnwell, Osama O. Zaidat, Michael Mawad, Bethany Lane, NIH Multicenter Wingspan Intracranial Stent Study Group*
- 2:30 P.M. IN5-1.003** Rates and Predictors of Angiographic Restenosis Following Intracranial Angioplasty or Stent Placement. A Multicenter Study *Muhammad Zeeshan Memon, Farhan Siddiq, Robert A. Taylor, John Chaloupka, Adnan I. Qureshi*
- 2:45 P.M. IN5-1.004** The Penumbra Stroke Trial: Effects of Revascularization on Patient Outcomes *Osama Zaidat*
- 3:00 P.M. IN5-1.005** Introducing the HIAT Score: A Novel Predictor of Functional Outcome after Intra-Arterial Thrombolysis for Acute Ischemic Stroke *Hen Halleivi, Andrew D. Barreto, Sean I. Savitz, Miriam M. Morales, Sheryl Martin-Schild, Anitha T. Abraham, Nicole Gonzales, Kachi Illloh, James Grotta*
- 3:15 P.M. IN5-1.006** Lower Pre-Treatment Cerebral Blood Volume Values Are Associated with Higher Rates of Intracranial Hemorrhage in Endovascular Acute Stroke Interventions *Archit Bhatt, Nirav Vora, Ajith Thomas, Arshad Majid, Mounzer Y. Kassab, Maxim Hammer, Ken Uchino, Lawrence Wechsler, Tudor Jovin, Rishi Gupta*

## POSTER SESSION / 3:30 P.M.–4:30 P.M. / ROOM 187

- IN5-2.001** The HAT Score: A Simple Grading Scale for Predicting Hemorrhage after Thrombolysis *Min Lou, Adnan Safdar, Manu Mehdiratta, Sandeep Kumar, Gottfried Schlaug, David Searls, Louis Caplan, Magdy Selim*
- IN5-2.002** Design Characteristics of Novel tPA-Loaded Nanocarriers *Axel J. Rosengart, Michael D. Torno, Xianqiao Liu, LaToyia Taylor, Michael D. Kaminski*
- IN5-2.003** ADC-Based Prediction of Infarct Growth: Effect of MCA Recanalization *Charlotte Rosso, Nidiyare Hevia-Montiel, Sandrine Deltour, Yohan Attal, Didier Dormont, Sophie Crozier, Anne Leger, Sylvain Baillet, Yves Samson*
- IN5-2.004** Non-Invasive PET Imaging of Neurovascular Apoptosis in Patients with Acute Ischemic Cerebral Stroke by [<sup>18</sup>F]-ML-10, a Novel Small-Molecule Tracer: A Clinical Study Report *Ilan Ziv, Bengt Langstrom, Gunnar Antoni, Johanna Hoglund, Jens Sorensen, Anat Shirvan*
- IN5-2.005** Application of Hidden Markov Random Field (HMRF) Approach for Quantification of Perfusion/Diffusion Mismatch in Acute Ischemic Stroke *Michael G. Dwyer, Niels Bergsland, Erik Saluste, Jitendra Sharma, Zeenat Jaisani, Jacqueline Durfee, Nadir Abdelrahman, Alireza Minagar, Romy Hoque, Fredrick Munschauer, Robert Zivadinov*
- IN5-2.006** Wake up Stroke: Clinical and Imaging Characteristics *Gisele S. Silva, Erica Camargo, Wade Smith, Aneesh Singhal, David Greer, Hakan Ay, Michael Lev, Gordon Harris, Elkan Halpern, Fabricio Lima, Shruti Sonni, Karen Furie*
- IN5-2.007** Utility of CT Scan Criteria for IVTPA Treatment in Patients with Unknown Time of Stroke Onset *Wei Liu, Denise Drumm, Marc Malkoff, Murray Flaster, George Tsigoulis, James Frey*
- IN5-2.008** Perfusion Angiography: A Novel Technique for Characterization of Perfusion in Cerebral Ischemia *David Liebeskind, Gregory Szilagyi, Sandra E. Black, Brian H. Buck*
- IN5-2.009** The Diagnostic Yield of Computed Tomographic Angiography in Patients with Non-Penetrating Traumatic Cerebrovascular Injury *Jefferson Miley, Adnan I. Qureshi*
- IN5-2.010** Significance of Aortic Atherosclerotic Disease in Possible Embolic Stroke without Evident Cardioembolic Source: 64-Multidetector Row Computed Tomography Study *Youngchai Ko, Jung-Hyun Park, Mi-Hwa Yang, Sang-Bae Ko, Sang Il Choi, Eun Ju Chun, Moon-Ku Han, Hee-Joon Bae*

## PANEL DISCUSSION / 4:30 P.M.–6:00 P.M. / ROOM 187

Discussants: Thanh Nguyen, MD / Boston, MA  
Steven Warach, MD, PhD / Bethesda, MD  
Lawrence Wechsler, MD, FAAN / Pittsburgh, PA



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7AC.005 Botulinum Toxins: Practical Issues and Clinical Uses for Neurologists  
Banner Marketing  
Resident Scholarship Fund  
Residents and Fellows Career Forum and Reception

## **AstraZeneca**

Thursday's Exhibit Hall Coffee Break

## **Bayer HealthCare Pharmaceuticals, Inc.**

Book Bags  
Corporate Therapeutic Update  
Door Drop Insert  
Banner Marketing  
Tuesday's Exhibit Hall Coffee Break  
Tuesday's Exhibit Hall Luncheon

## **Biogen Idec**

1KP.005 Is It or Is It Not MS?  
2PC.002 Hot Topics in MS: Current Controversies and Consensus  
3FC.001 Update on MS  
5CS.002 MS Case Studies  
6TP.002 MS Therapy  
Banner Marketing  
Carpet Marketing  
Corporate Therapeutic Update  
Door Drop Insert

## **Boehringer Ingelheim Pharmaceuticals, Inc.**

4BS.001 Introduction to the Evaluation and Therapy of Restless Legs Syndrome and Periodic Limb Movements in Sleep  
5CS.004 Case Studies in Stroke  
7AC.001 Stroke Prevention in 2008  
7TP.002 Movement Disorders Therapy  
Banner Marketing  
Carpet Marketing  
Corporate Therapeutic Update  
Door Drop Insert

## **Eisai Inc.**

Room Locator

## **Eli Lilly & Company**

2AC.004 Painful Pain Patients  
3BS.006 Attention-Deficit/Hyperactivity Disorder Across the Lifespan: Primer for the Neurologist  
Corporate Therapeutic Update  
Message/Technology Resource Center

## **EMD Serono, Inc.**

Banner Marketing  
Carpet Marketing  
Exhibit Hall Opening Reception

## **Genentech, Inc.**

Hotel Room Keys

## **Genzyme Corporation**

7TP.003 Neuromuscular Therapy

## **Medtronic Inc.**

2PC.005 Deep Brain Stimulation

## **Merck & Co., Inc.**

7TP.001 Headache Therapy

## **Myriad Pharmaceuticals, Inc.**

Corporate Therapeutic Update  
Door Drop Insert

## **Nature Publishing Group**

Door Drop Insert

## **Ortho-McNeil Neurologics, Inc.**

Abstracts on CD-ROM

## **Pfizer Inc**

Door Drop Insert

## **Solstice Neuroscience, Inc.**

Door Drop Insert

## **TEVA Neuroscience**

Door Drop Insert  
Door Drop Bag  
60<sup>th</sup> Anniversary Celebration Main Stage

## **UCB, Inc.**

1KP.001 Epilepsy Update  
2BS.006 Critical Care Epilepsy/EEG  
2DS.008 Top Ten Pitfalls in the Diagnosis of Parkinsons Disease  
3AS.007 Epilepsy Case Studies  
3FC.005 Movement Disorders  
Resident Scholarship Fund  
Neurobowl® Stage

# SCIENTIFIC SESSIONS

THURSDAY, APRIL 17 / 3:45 P.M.–5:00 P.M.

## S51 AGING AND DEMENTIA: CLINICAL AND IMAGING

Room 178

**3:45 P.M. S51.001**  
Impaired Cognition in Normal Individuals Using Medications with Anticholinergic Activity Occurs Following Several Years *Jack Tsao, Raj Shah, Sue Leurgans, Robert Wilson, Alicia Janos, Peter Wei, David Bennett, Kenneth Heilman*

**4:00 P.M. S51.002**  
<sup>11</sup>C PiB and Structural MRI Provide Complementary Information in Imaging of AD and Amnesic MCI *Clifford Jack, Val Lowe, Matthew Senjem, Stephen Weigand, Maria Shiung, Brad Kemp, David Knopman, Bradley Boeve, Ronald Petersen*

**4:15 P.M. S51.003**  
Intravenous Immunoglobulin Increases Brain Glucose Metabolism in Alzheimer Disease *Lisa Mosconi, Basia Adamiak, Diamonte I. Tsakanikas, Kavita B. Shah, William C. Kreis, Michael Synan, Simon Morim, Wai H. Tsui, Mony De Leon, Shankar Vallabhajosla, Stanley J. Goldsmith, Norman R. Relkin*

**4:30 P.M. S51.004**  
Vascular Risk Factors Affect White Matter Integrity after Accounting for the Effect of White Matter Hyperintensities *Evan Fletcher, Dan Mungas, Bruce Reed, Mario Ortega, Oliver Martinez, Owen Carmichael, Charles DeCarli*

**4:45 P.M. S51.005**  
Amyloid Imaging with the PET Ligand Pittsburgh Compound B (PiB) in Mild Cognitive Impairment (MCI) Subtypes *David A. Wolk, Judy A. Saxton, Beth E. Snitz, Oscar L. Lopez, Julie C. Price, Chester Mathis, William Klunk, Steven DeKosky*

## S52 MULTIPLE SCLEROSIS: OUTCOMES

Room 196

**3:45 P.M. S52.001**  
Asymptomatic Demyelinating Disease – The Radiologically Isolated Syndrome (RIS): Longitudinal Clinical Data Extending 12 Years *Darin T. Okuda, Azedeh Beheshtian, Emmanuelle Waubant, Ellen Mowry, Ari Green, Bruce A. C. Cree, Douglas S. Goodin, Stephen L. Hauser, Daniel Pelletier*

**4:00 P.M. S52.002**  
CNS Aquaporin-4 Autoimmunity in Childhood *Andrew McKeon, Vanda Lennon, Timothy Lotze, Silvia Tenenbaum, Jayne Ness, Mary Rensel, Nancy Kuntz, James P. Fryer, Henry Homburger, Jill Hunter, Brian Weinshenker, Karl Krecke, Claudia Lucchinetti, Sean Pittock*

**4:15 P.M. S52.003**  
Retinal Nerve Fiber Layer (RNFL) Thickness and Total Macular Volume (TMV) in Multiple Sclerosis, Neuromyelitis Optica, and Clinically Isolated Syndromes *John Ratchford, Girish Hiremath, Eliza Gordon-Lipkin, Mathew Pulicken, Gary Cutter, Douglas Kerr, Laura Balcer, Peter Calabresi*

**4:30 P.M. S52.004**  
Genomic Effects of Interferon- $\beta$  Treatment after the First Dose and on Chronic Dosing: Relationships to 5-Year Clinical Outcomes in Multiple Sclerosis Patients *Bianca Weinstock-Guttman, Kavitha Bhasi, Darlene Badgett, Miranda Minhas, Joan Feichter, Kara Patrick, Fredrick Munschauer, Rohit Bakshi, Murali Ramanathan*

**4:45 P.M. S52.005**  
Evidence of Axonal Loss in Clinically Isolated Syndromes by Optical Coherence Tomography? *Olivier Outteryck, H  l  ne Z  phir, Sabine Defoort, Philippe Debruynne, Ikram Bouacha, Arnaud Lacour, Didier Ferriby, Pierre Labalette, J  rome De S  ze, Patrick Vermersch*

## S53 MOVEMENT DISORDERS: GENERAL II

Room 190A

**3:45 P.M. S53.001**  
Globus Pallidus Stimulation Reduces Frontal Hyperactivity in Tardive Dystonia *Stephane Thobois, Benedicte Ballanger, Jing Xie-Brustolin, Philippe Damier, Franck Durif, Jean-Philippe Azulay, Philippe Derost, Tatiana Witjas, Sylvie Raoul, Didier LeBars, Emmanuel Brousolle*

**4:00 P.M. S53.002**  
TDP-43-Positive Inclusions Are Characteristic of Perry Syndrome *Christian Wider, Dennis Dickson, Donald Calne, A. Stoessl, Ludwig Gutmann, Francoise Chapon, Yoshio Tsuboi, Susan Calne, Linda L. Grantier, O. K. Sujith, Laura Brown, Zbigniew Wszolek*

**4:15 P.M. S53.003**  
Clinical Efficacy and PET Imaging of Human Retinal Pigment Epithelial Cells on Gelatin Microcarriers (hRPE-GM) (Spheramine) Versus Gelatin Microcarriers Alone (GM) Implanted in MPTP-Treated Primates *Doris J. Doudet, Joseph Flores, Mallar Chakravarty, Branka Mitrovic, Michael Cornfeldt*

**4:30 P.M. S53.004**  
Therapeutic Effect and Probable Mechanism of Rapamycin on MPTP-Induced Parkinsonism in Mice *Kangyong Liu, Ya-ping Yang, Fang Yang, Xue-zhong Li, Chun-feng Liu*

**4:45 P.M. S53.005**  
Abnormal Firing and Altered Expression of Voltage-Gated Sodium Channels in Purkinje Neurons in a Mouse Model of Progressive Spinocerebellar Ataxia *Vikram Shakkottai, Maolei Xiao, Lin Xu, Michael Wong, Jeanne M. Nerbonne, David M. Ornitz, Kelvin Yamada*

## S54 NEUROINTERVENTIONAL APPROACHES TO CEREBROVASCULAR DISEASE

Room 185AB

**3:45 P.M. S54.001**  
Symptomatic Status of Patients Randomized into the Carotid Revascularization Endarterectomy Versus Stenting Trial (CREST) by Specialty in the US and Canada *Thomas Brott, Jenifer H. Voeks, Frank Silver, Ariane Mackey, Wayne Clark, Alice Sheffet, Mary E. Longbottom, Susan Hughes, Meelee Tom, Jason Avery, Virginia Howard, Robert Hobson*

**4:00 P.M. S54.002**  
Risk Factors Associated with Adverse Events in the NIH Multi-Center Wingspan Intracranial Stent Registry *Fadi Nahab, Michael Lynn, Marc Chimowitz, Scott Kasner, Michael Alexander, Richard Klucznik, Osama Zaidat, John Chaloupka, Helmi Lutsep, Stanley Barnwell, Michel Mawad, Bethany Lane, NIH Multi-Center Wingspan Intracranial Stent Registry Study Group*

**4:15 P.M. S54.003**  
Good Outcome after Technically Successful Intra-Arterial Therapy Is Time-Dependent *Pooja Khatri, Todd Abruzzo, Sharon Yeatts, Joseph Broderick, Christopher Nichols, Thomas Tomsick*

**4:30 P.M. S54.004**  
Primary Angioplasty Is Not Inferior to Stent Placement for Treatment of Intracranial Atherosclerosis. An Analysis of 919 Procedures *Robert A. Taylor, Farhan Siddiq, M. Fareed K. Suri, Adnan I. Qureshi*

**4:45 P.M. S54.005**  
Blood Clot Extrusion: A Mechanism of Cerebral Microvascular Recanalization *Jaime Grutzendler, Carson K. Lam, Taehwan Yoo, Zhiqiang Liu*

## S55 PARKINSON'S DISEASE: TREATMENT

Room 190B

**3:45 P.M. S55.001**  
A Randomized, Placebo-Controlled, Dose-Ranging Study To Determine the Efficacy, Safety, and Tolerability of Perampanel, a Selective AMPA Receptor Antagonist, in Patients with Advanced Parkinson's Disease *Wolfgang Oertel, Karla Eggert, David Squillacote*

**4:00 P.M. S55.002**  
Long-Term Safety and Efficacy of Safinamide Added to Dopamine Agonists in Early Parkinson's Disease (PD) *Anthony H. V. Schapira, Rupam Borgohain, Fabrizio Stocchi, Pablo Lorenzana, Marco Onofri, Valentina Lucini, Rodolfo Giuliani, Stefano M. Rossetti, Ravi Anand, Study Investigators*

**4:15 P.M. S55.003**  
Indications, Efficacy and Safety of Duodopa<sup>®</sup> Infusion in Parkinson's Disease: A Multicentre, Retrospective Study of 91 French Patients *David Devos, French DUODOPA Study Group*

**4:30 P.M. S55.004**  
Bilayer Formulation of Carbidopa/Levodopa (IPX054) 50/200 mg Given Twice Daily Is Comparable to Standard Carbidopa/Levodopa 25/100 mg Given Four Times Daily in Stable Parkinson's Disease (PD) Patients *Vanessa Hinson, Christopher Goetz, Sue Leurgans, Wenqing Fan, Anne Hsu*

**4:45 P.M. S55.005**  
At-Home Training with Virtual Reality Cues for Improvement of Gait in Patients with Parkinson's Disease *Alberto J. Espay, Yoram Baram, No  l Burton, Maureen Gartner, Helard A. Miranda, Andrew P. Duker, Fredy J. Revilla*

## S56 ORTHOSTATIC HEADACHE, TACS, ACUTE AND PROPHYLACTIC MIGRAINE TREATMENT

### Room 176

#### 3:45 P.M. S56.001

Orthostatic Headaches without Cerebrospinal Fluid Leak *Andrea N. Leep Hunderfund, Bahram Mokri*

#### 4:00 P.M. S56.002

Interictal Pain, Sensory Loss, and Aura Are Intrinsic Features of SUNCT and SUNA *Sara Schrader, David Dodick*

#### 4:15 P.M. S56.003

Hemicrania Continua: A Case Series of Forty Patients *Elisabetta Cittadini, Manjit Matharu, Peter Goadsby*

#### 4:30 P.M. S56.004

A Randomized, Double-Blind, Placebo-Controlled Study To Evaluate the Efficacy and Safety of Topiramate for Migraine Prevention in Pediatric Subjects 12 to 17 Years of Age *Donald Lewis, Paul Winner, Joel Saper, Seth Ness, Elena Polverejan, Caryn Kurland, Lisa Ford, Marielle Eerdeken*

#### 4:45 P.M. S56.005

Efficacy and Tolerability of MAP0004, Featuring a Novel Delivery System, in Treating Acute Migraine *Stephen Shrewsbury, Shashidhar Kori, Timothy Smith, Egilius Spierings*

## S57 MITOCHONDRIAL AND MYASTHENIC DISORDERS

### Room 185CD

#### 3:45 P.M. S57.001

Clinical and Molecular Genetic Findings in 22 COLQ-Mutant CMS Patients *Violeta Mihaylova, Juliane Muller, Juan Vilchez Padilla, Mustafa Salih, Mohammad Kabiraj, Adele D'Amico, Enrico Bertini, Joachim Wölfe, Felix Schreiner, Gerhard Kurlemann, Vedrana Rasic, Dana Siskova, Jaume Colomer, Agnes Herczegfalvi, Katarina Fabriciova, Bernhard Weschke, Rosana Scola, Friederike Hoellen, Ulrike Schara, Angela Abicht, Hanns Lochmuller*

#### 4:00 P.M. S57.002

Efficacy and Safety of Immunoabsorption vs Plasmapheresis vs Combination for Treatment of Myasthenic Crisis: Comparative Retrospective Study on 72 Patients *Ralf Gold, Marco Krenzer, Erdwine Klinker, Behrouz Mansouri, Christiane Schneider-Gold, Wolfgang Müllges, Markus Boeck, Klaus V. Toyka*

#### 4:15 P.M. S57.003

Rituximab for Treatment of Refractory Myasthenia Gravis *Christine Lebrun Frenay, Nathalie Tieuilié, Veronique Bourg, Emilien Delmont, Frederik Sanderson, Alexandre Samak, Claude Desnuelle, Jean Gabriel Fuzibet*

#### 4:30 P.M. S57.004

Mitochondrial Respiratory Chain Complex Activities Do Not Differentiate between Physical Inactivity and Genetically Confirmed Mitochondrial Disorders *Bart Smits, Richard Rodenburg, Henk Ter Laak, Antoon Janssen, George Borm, Lambert van den Heuvel, Baziel van Engelen*

#### 4:45 P.M. S57.005

Clinical Heterogeneity of a Newly Described mtDNA Depletion Syndrome Due to Mutations in RRM2B *Belen Bornstein, Kevin M. Flanigan, Jaya Ganesh, Parul Jayakar, Jorida Coku, Ali Naini, Sara Shanske, Michio Hirano, Salvatore DiMauro*

## S58 ETHICS

### Room 193B

#### 3:45 P.M. S58.001

Ethical Issues in the Decision Making Process in Acute Management of Basilar Artery Occlusion: A National Survey *Sophie Crozier, Christine Pires, Philippe Bizouarn, Yves Samson*

#### 4:00 P.M. S58.002

A Prospective Study of Surrogate Decision Making in the Neurological Intensive Care Unit *Andrew Naidech, Paul Tamul, Bernard Bendok, Charles M. Watts, Susan P. Shapiro*

#### 4:15 P.M. S58.003

Ethics Consultations in Stroke and Neurological Disease: A Seven-Year Retrospective Review *Adrienne R. Boissy, Paul J. Ford, Randall C. Edgell, Anthony Furlan*

#### 4:30 P.M. S58.004

Palliative Care Needs of Patients with Neurological or Neurosurgical Conditions: A Retrospective Chart Review *Lama M. Chahine, Bushra Malik, Mellar Davis*

#### 4:45 P.M. S58.005

Chronic Pain in the Elderly Is Associated with Obesity: Results from the Einstein Aging Study (EAS) *Lucas McCarthy, Marcelo Bigal, Mindy Katz, Richard Lipton*

## S59 CNS INFECTIONS

### Room 186

#### 3:45 P.M. S59.001

The Use of Steroids in PML-IRIS after Initiation of HAART *Kevin Tan, Ricardo Roda, Lyle Ostrow, Justin McArthur, Avindra Nath*

#### 4:00 P.M. S59.002

Glatiramer Acetate Reduces the Rate of Cerebral Malaria in C57BL/6 Mice Infected with Plasmodium Berghei ANKA *Peter Lackner, Andrea Reisinger, Ronny Beer, Christoph Burger, Anelia Dietmann, Gregor Broessner, Raimund Helbok, Erich Schmutzhard*

#### 4:15 P.M. S59.003

Long-Term Cognitive Impairment in Children with Cerebral Malaria *Michael J. Boivin, Paul Bangirana, Robert Opika-Opoka, Justus Byarugaba, Anne M. Jurek, Chandy John*

#### 4:30 P.M. S59.004

Protein Microarray Analysis Identifies the Human Cellular Prion Protein Interactome *Jun-ichi Satoh, Tamako Misawa, Hiroko Tabunoki*

#### 4:45 P.M. S59.005

Familial Creutzfeldt-Jakob Disease in an American Kindred with E200K Mutation and Incomplete Penetrance *Nupur Ghoshal, Richard Perrin, Scott Josephson, Ning A. Sun, Christopher Clark, Ignazio Cali, Pierluigi Gambetti, John Morris*

## S60 MULTIPLE SCLEROSIS: IMAGING II

### Room 184CD

#### 3:45 P.M. S60.001

Multiple Sclerosis Lesion Localization and Characterization by 7 Tesla Magnetic Resonance Imaging *Francesca Bagnato, Vasiliki Ikonomidou, Peter van Gelderen, Joan Ohayon, Susan Fulton, Mary Ehrmantraut, Henry McFarland, Jeff H. Duyn*

#### 4:00 P.M. S60.002

Optic Disc Measurements by OCT in Multiple Sclerosis: Relation to Retinal Nerve Fiber Layer Thickness and Visual Function *Esther Bisker, Amy Conger, Amber Salter, Teresa Frohman, Steven Galetta, Clyde Markowitz, Gary Cutter, Gui-Shuang Ying, Maureen Maguire, Peter Calabresi, Elliot Frohman, Laura Balcer*

#### 4:15 P.M. S60.003

Gray Matter Damage on Brain MRI Scans Is Associated with Clinical Progression in Multiple Sclerosis *Mohit Neema, Ashish Arora, Brian Healy, Zachary D. Guss, Steven Brass, Yang Duan, Guy Buckle, Bonnie Glanz, Lynn Stazzone, Samia Khoury, Howard Weiner, Charles Guttmann, Rohit Bakshi*

#### 4:30 P.M. S60.004

Structural and Functional Hippocampal Changes in Multiple Sclerosis *Nancy L. Sicotte, Kyle C. Kern, Yonggang Shi, Amrapali Arshanaipalli, Michael Montag, Barbara S. Giesser, Arthur Toga, Susan Y. Bookheimer*

#### 4:45 P.M. S60.005

Prospective MRI Study of Brain Atrophy and Its Relationship to Disability in a Murine Model of MS *Istvan Pirko, Jeremiah McDole, Yi Chen, Scott Dunn, Diana M. Lindquist, Aaron Johnson*