



2009 SCIENTIFIC ABSTRACT LISTING AND ANNUAL MEETING INFORMATION

Washington State Convention and Trade Center

Co-Headquarters Hotels:

- Sheraton Seattle Hotel
- Grand Hyatt Seattle

Early Registration Deadline: March 20, 2009



AAN 61ST ANNUAL MEETING, SEATTLE



"If you're looking for a wide range of specialized, in-depth opportunities to help you excel in your career, then the Scientific Program at the 2009 Annual Meeting will not disappoint. With more than 2,000 scientific presentations covering a multitude of topics in neurology, this year's program provides cutting-edge care as well as translational neuroscience coverage to keep you current on the latest breakthroughs in the field. A total of nine poster sessions—along with an excellent Resident Basic Science curriculum—round out this amazing program.

The Integrated Neuroscience sessions (half-day programs offered throughout the week) are an excellent way to bring yourself up-to-date on the latest discoveries. Six new topics are highlighted in the Integrated Neuroscience sessions: Alzheimer's, Imaging, and Biomarkers (ADNI); Recent Advances in Genetics and Molecular Biology in Global Neurology; Endovascular Neurology; the Circadian and

Homeostatic Control of Sleep; Advances in Headache; and Traumatic Brain Injury. These half-day programs provide an excellent opportunity to get in-depth updates in several key areas. Be sure to stay for Friday's Future of Neuroscience Conference where a panel of experts will provide essential insights into the burgeoning field of neurogenetics.

I look forward to seeing you in Seattle, and know your Annual Meeting experience will give you new insights, knowledge, and skills to care for your patients and excel in your profession.

—Stefan M. Pulst, MD, FAAN, Chair, Science Committee, Chair, Scientific Program Subcommittee

Offices and Hours of Operation.....

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HIGHLIGHTS OF THE 2009 SCIENTIFIC PROGRAM

Scientific Plenary Sessions

Focusing on clinical and basic science issues of interest to all neurologists, these five Plenary Sessions feature outstanding lecturers who are leaders in their fields:

- Presidential Plenary Session (see page 28)
- · Hot Topics Plenary Session (see page 29)
- Contemporary Clinical Issues and Case Studies Plenary Session (see page 53)
- Frontiers in Clinical Neuroscience Plenary Session (see page 77)
- Scientific Program Highlights Plenary Session (see page 100)

Future of Neuroscience Conference: New Genetics: The Future of Neurology

A riveting exploration of the latest studies and clinical applications in the area of new genetics, led by a faculty of distinguished experts. The interactive, day-long program will feature poster sessions, platform presentations, a series of case vignettes, and several invited lecturers discussing new developments in the field. The presenters will combine highlevel science with practical clinical application on such topics as history of genetics, clinical and technological approaches, epigenetics, regulatory systems, complex genetics in MS and autism, and personalized medicine. (see page 100)

Integrated Neuroscience Programs

Provides in-depth subspecialty concentration around a topic using a combination of presentations, such as scientific sessions, case studies, short poster talks, discussions invited lecturers, and poster sessions. These six sessions offer an expansive look at the following topics:

- · Endovascular Neurology (see page 24)
- Recent Advances in Genetics and Molecular Biology in Global Neurology (see page 27)
- Alzheimer's, Imaging, and Biomarkers (see page 42)
- Advances in Headache (see page 67)
- The Circadian and Homeostatic Control of Sleep (see page 90)
- Traumatic Brain Injury (see page 101)

Resident Basic Science

A three-year basic science curriculum, launched at the 2007 Annual Meeting, will help neurology residents prepare for the Neurology Review Committee, Part I of the Neurology Boards, and the Residency In-service Training Examination (RITE). Programs available in 2009 are neurogenetics and neurometabolic disorders.

Interventional Neurology featured as new topic in the Scientific Program

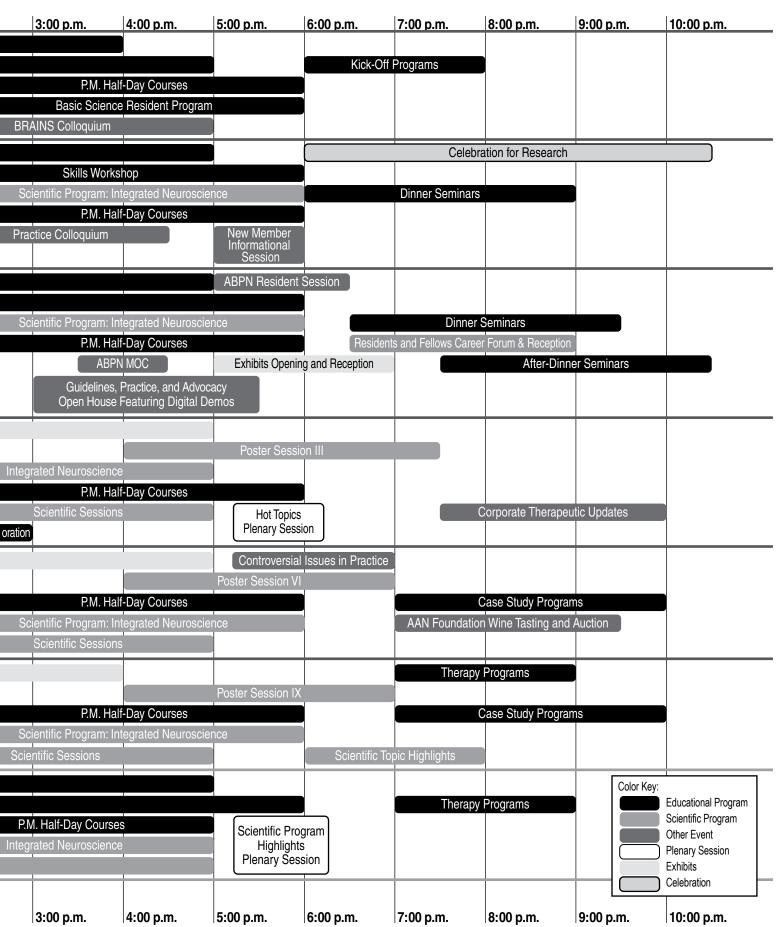
New for the 2009 Annual Meeting Interventional Neurology has been split into its own topic as the AAN recognizes this emerging field. Interventional Neurology Scientific programs available are:

- Integrated Neuroscience Session: Endovascular Neurology (see page 24)
- S36 Interventional Neurology (see page 71)

Continuation of Additional Poster Sessions

Based on the success of last year's midday poster sessions, the Academy has added an additional midday poster session on Wednesday, April 29, exhibiting premier scientific research. A total of nine poster sessions will take place over three days, from April 28 through April 30.

	7:00 a.m.	8:00 a.m.	9:00 a.m.	10:00 a.m.	11:00 a.m.	12:00 p.m.	1:00 p.m.	2:00 p.m.
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SAT APRIL 25 th						Full-l	Day Course	
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						Coding Lunche	es	
	Breakfast Sem					Full-D	ay Courses	
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	Breakfast Sem	ninars						Exhibits
		Poster Session				Poste	r Session II	
TUE APRIL 28 th	Run/Walk for Brain R	esearch			AAN/ AANP/		Scie	ntific Program:
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FRI MAY 1st				A.M. Half-Da	Courses			
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SAT						Future of Neur	oscience Conferen	C C
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	7:00 a.m.	8:00 a.m.	9:00 a.m.	10:00 a.m.	11:00 a.m.	12:00 p.m.	1:00 p.m.	2:00 p.m.



INDUSTRY RELATIONS MESSAGE

Continuing medical education is one of the most important and well-regarded member services provided by the American Academy of Neurology (AAN). The Annual Meeting is the AAN's premier continuing medical education event. It is internationally recognized in the neurologic community for the quality of its education and scientific programs as well as many networking opportunities.

The AAN benefits from its partnership with corporate sponsors who provide financial support for a variety of Annual Meeting events and programs. The AAN recognizes members' concerns regarding industry involvement in the Annual Meeting and the potential for commercial bias, overt, or otherwise. The AAN annually reviews and revises its guidelines that govern industry participation to ensure that they are appropriate, comprehensive, and unambiguous. The AAN's zero-tolerance policy for any real or perceived commercial bias in AAN education or scientific programs is the fundamental and unwavering principle that guides its interactions with industry. The AAN guidelines state:

It is the AAN's policy to avoid even the appearance of a conflict of interest between the AAN and industry.

The AAN's Annual Meeting policies and processes are based on, and closely follow, guidelines established by the Accreditation Council for Continuing Medical Education, American Medical Association, and US Food and Drug Administration.

Programs at the Annual Meeting are developed and implemented solely by the AAN's Education Committee, Science Committee, their respective subcommittees, and AAN staff. Industry has absolutely no role in selecting program topics, faculty and directors, or planning program content. Industry influence or promotion on slides or computer-based presentations is prohibited, and any use of product brand names should be avoided. All speakers must personally disclose, in writing, any actual or perceived relationships with industry, regardless of whether these relate to a specific presentation or not. These disclosures are published in Neurology® and AAN Annual Meeting publications. Industry and presenters are required to sign letters of agreement explicitly stating that they understand and will adhere to the AAN guidelines. The AAN Foundation sponsors a Corporate Roundtable, comprised of representatives from both the AAN and its industry partners, which promotes awareness of, and compliance with, the AAN's policies governing industry participation in the Annual Meeting and other activities.

The great majority of the AAN's industry partners and presenters abide by the AAN guidelines, but occasional infractions do occur. Although most of these are minor, the AAN's zero-tolerance policy specifies sanctions for those who violate its guidelines. In addition, the AAN has revised all education and scientific evaluation forms

to provide attendees with an opportunity to report any perceived commercial bias. Although the Meeting Management Committee deals with infractions and perceptions of bias in a rigorous and impartial manner, the Committee frequently seeks input on these issues from the AAN's Ethics, Law, and Humanities Committee.

The AAN values its partnership with industry. However, the AAN cannot and will not compromise the independence and credibility of its programs through its relationships with corporate sponsors. Appropriate guidelines and input from attendees are essential components of managing these relationships so that the AAN maintains its integrity as an organization and the confidence of the medical profession. Questions related to these issues may be addressed to Timothy A. Pedley, MD, FAAN, Chairman, Meeting Management Committee.

Timothy A. Pedley, MD, FAAN

Just my a ledler

Chairman, Meeting Management Committee

Stefan M. Pulst, MD, FAAN

Chair, Science Committee

Chair, Scientific Program Subcommittee

Ralph F. Józefowicz, MD, FAAN

Chair, Education Committee

Kulph + Sark

Chair, Annual Meeting Subcommittee

Visit www.aan.com/go/am/education for complete course listings. See page 108 for more details.

Education Program Legend



First Digit = Day of Program

1	Day One	Saturday, April 25
2	Day Two	Sunday, April 26
3	Day Three	Monday, April 27
4	Day Four	Tuesday, April 28
5	Day Five	Wednesday, April 29
6	Day Six	Thursday, April 30
7	Day Seven	Friday, May 1
8	Day Eight	Saturday, May 2

Letters = Type of Program

AC Morning Half-Day Course

Didactic program begins at 9:00 a.m. and ends at 12:45 p.m. Refreshments will be served during the break.

AS After-Dinner Seminar

Interactive program begins at 7:30 p.m. and ends at 10:30 p.m. (unless otherwise noted) Desserts, light snacks, and beverages will be served.

BS Breakfast Seminar

Interactive program begins at 6:45 a.m. and ends at 8:30 a.m. A plated breakfast will be available at the start of the program. Participants are encouraged to arrive early.

CL Coding Lunch

Interactive program begins at 12:00 p.m. and ends at 1:00 p.m. Topic specific coding issues will be discussed. Lunch will be available.

CS Case Studies Program

Interactive program begins at 7:00 p.m. and ends at 10:00 p.m. Desserts, light snacks, and beverages will be served.

DS Dinner Seminar

Interactive program begins at 6:00 p.m. and ends at 9:00 p.m. on Sunday, April 26, and begins at 6:30 p.m. and ends at 9:30 p.m. on Monday, April 27. A plated dinner will be available at the beginning of the program. Participants are encouraged to arrive early.

EC Colloquium

Didactic programs offered as morning or afternoon half-day programs. Free to all registered attendees.

EP Clerkship and Program Directors Conference

Interactive program offered only on Saturday, April 25. Program begins at 9:00 a.m. and ends at 4:00 p.m.

FC Full-Day Course

Didactic program begins at 9:00 a.m. and ends at 5:00 p.m. Refreshments will be served during the morning and afternoon break. Lunch will not be served.

KP Kick-Off Program

Interactive program offered only on Saturday, April 25. Programs begin at 6:00 p.m. and ends at 8:00 p.m. A light snack will be served.

LS Luncheon Seminar

Interactive program begins at 12:00 p.m. and ends at 1:30 p.m. Lunch will be served.

PC Afternoon Half-Day Course

Didactic program begins at 2:15 p.m. and ends at 6:00 p.m. Refreshments will be served during the break. *Note: Friday afternoon half-day courses begin at 1:15 p.m. and end at 5:00 p.m. to allow time to attend the Scientific Program Highlights Plenary Session.*

PW Afternoon Skills Workshop

Hands-on, interactive program begins at 1:30 p.m. and ends at 6:00 p.m. Available to physicians only. Lunch will not be provided.

SC Science Conference

Interactive program offered only on Friday, May 1. Program begins at 9:00 a.m. and ends at 5:00 p.m. Lunch will be served.

SW Skills Workshop

Hands-on, interactive program begins at 9:00 a.m. and ends at 6:00 p.m. Box lunches will be provided. Available to physicians only.

TP Therapy Program

Two-hour didactic program begins at 7:00 p.m. and ends at 9:00 p.m. Desserts, light snacks, and beverages will be served.

MEETING OVERVIEW

2BS.004 Differential Diagnosis of Dementia: Improvements in **SATURDAY, APRIL 25** Syndromic Discrimination A.M. Half-Day Course 2BS.005 Pseudotumor Cerebri 9:00 a.m.-12:45 p.m. 2BS.006 Critical Care Epilepsy/EEG 1AC.001 Resident Basic Science I: Neurogenetics 2BS.007 Unruptured Intracranial Aneurysms and Intracranial Vascular Malformations: What a Practicing Neurologist **Education Directors Program** Needs to Know 9:00 a.m.-4:00 p.m. Colloquium 1EP.001 Clerkship and Program Directors Conference: Faculty 9:00 a.m.-12:00 p.m. and Professional Development 2EC.001 Patient Safety Colloquium: Medication Safety Across **Full-Day Course** Your Practice Settings 9:00 a.m.-5:00 p.m. A.M. Half-Day Courses 1FC.001 The Practice of Neurology: Issues in Coding 9:00 a.m.-12:45 p.m. and Reimbursement 2AC.001 Stroke In Young Adults Colloquium 2AC.002 Neurology of Sleep I 1:00 p.m.-5:00 p.m. 2AC.003 Clinical Issues in Multiple Sclerosis 1EC.001 BRAINS Colloquium: Critical Thinking for Critical Issues 2AC.004 Botulinum Toxins: Practical Issues and Clinical Uses for Neurologists P.M. Half-Day Courses 2AC.005 Making Sure Your Electronic Health Record System 2:15 p.m.-6:00 p.m. is a Success 1PC.001 Resident Basic Science II: Neurometabolic Disorders 1PC.002 Using AAN Guidelines and Best Current Evidence in **Full-Day Courses Daily Practice** 9:00 a.m.-5:00 p.m. 2FC.001 Headaches in Adults **Kick-Off Programs** 2FC.002 Infections of the Nervous System 6:00 p.m.-8:00 p.m. 2FC.003 Therapy in Neurology 1KP.001 Hot Topics in Multiple Sclerosis 2FC.004 Neurologic Intensive Care 1KP.002 Top 10 Neuro-ophthalmic Diagnoses You Can't Afford to Miss 2FC.005 Continuum Test Your Knowledge: A Multiple-Choice Question Review 1KP.003 Movement Disorder Emergencies: Adults and Children 2FC.006 Peripheral Neuropathy 1KP.004 Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions 2FC.007 Genetics in Neurology 1KP.005 Acute Stroke Management Coding Lunch 1KP.006 Controversies in Epilepsy 12:00 p.m.-1:00 p.m. 1KP.007 Mitochondrial Disorders in Neurology 2CL.001 Coding Lunch: Neuromuscular Disease 1KP.008 Starting Your Career: The Early Years 1KP.009 Diagnosis and Management of Motor Neuron Disease **Luncheon Seminar** 12:00 p.m.-1:30 p.m. **SUNDAY, APRIL 26** 2LS.001 How to Be Sure Your Patient Education Is **Educating Patients Breakfast Seminars**

Colloquium

1:30 p.m.-4:30 p.m.

2EC.002 Practice Colloquium: Improving Quality Through Incentives: Lessons from Model Programs

6:45 a.m.-8:30 a.m.

2BS.001 Archival Neurologic Films

2BS.003 Update on Ataxias

2BS.002 Rapid Quantitation in EMG: Learning Accurate and

Efficient Motor Unit Potential Analysis

Integrated Neuroscience Session: Endovascular Neurology

2:00 p.m.-6:00 p.m.

Scientific platform and poster presentations along with an invited speaker session.

2:00 p.m.–3:30 p.m. Platform Session 3:30 p.m.–4:30 p.m. Poster Session

4:30 p.m.-6:00 p.m. Invited Speaker Session

P.M. Skills Workshop

2:15 p.m.-6:00 p.m.

2PW.001 Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia

P.M. Half-Day Courses

2:15 p.m.-6:00 p.m.

2PC.001 Neuro-oncology Update I: Primary Brain Tumors2PC.002 Emergency Department Neuro-ophthalmology

2PC.003 Diagnosis and Management of Movement Disorders in Children

2PC.004 Neuromyelitis Optica: Scientific and Clinical Update

2PC.005 Clinical Approach to Muscle Disease

New Member Information Session

5:00 p.m.-6:00 p.m.

Dinner Seminars

6:00 p.m.-9:00 p.m.

2DS.001 Stroke in Children and Neonates

2DS.002 Common and Important Ophthalmoscopic Findings

2DS.003 Intractable Epilepsy: What to Do When Nothing Works

2DS.004 Ten Sequelae of Brain Trauma That You Can and Should Address

2DS.005 Top 10 Pitfalls in the Diagnosis of Parkinson's Disease

2DS.006 Sexual Dysfunction in Neurologic Disease

2DS.007 Promoting Successful Cognitive Aging: Factors, Facts, and Fairy Tales

Celebration for Research

6:00 p.m.-10:30 p.m.

Neurobowl®

6:00 p.m.-8:00 p.m.

Neuro Idol

8:00 p.m.-10:00 p.m.

Main Stage

8:30 p.m.-10:30 p.m.

Neuro Hop

8:30 p.m.-10:30 p.m.

MONDAY, APRIL 27

Breakfast Seminars

6:45 a.m.-8:30 a.m.

3BS.001 Criteria for Stopping and Starting Multiple Sclerosis Therapy

3BS.002 Neuro-ophthalmology and Neurovestibular Examination Laboratory

3BS.003 Balance and Gait Disorders

3BS.004 Diagnosing Spells in Older Adults

3BS.005 Global Health Challenges: Neurology in Developing Countries

3BS.006 Neuroplasticity and Stroke Recovery: Theory and Clinical Practice

3BS.007 Recognition and Management of the Many Types of Status Epilepticus

3BS.008 Autoimmune Antibody Testing in Neuropathy: Indications for the Practicing Neurologist

International Attendee Summit

7:00 a.m.-9:00 a.m.

State Society Leadership Roundtable

7:00 a.m.-9:30 a.m.

Colloquium

9:00 a.m.-12:00 p.m.

3EC.001 Education Colloquium: Ethics and Education

A.M. Half-Day Courses

9:00 a.m.-12:45 p.m.

3AC.001 Neuro-oncology Update II: Systemic Cancer

3AC.002 MRI and Multiple Sclerosis

3AC.003 Parkinson's Disease and Movement Disorders Update

3AC.004 Eye Movement Disorders, Nystagmus, and Diplopia

3AC.005 Clinical EMG I

3AC.006 Clinical Research Methods I

MEETING OVERVIEW

Full-Day Courses

9:00 a.m.-5:00 p.m.

3FC.001 Child Neurology

3FC.002 Neurology Update I

3FC.003 Clinical EEG

3FC.004 Dementia Update

3FC.005 Cerebrovascular Disease

Skills Workshop

9:00 a.m.-6:00 p.m.

3SW.001 EMG Skills Workshop: Basic

Kenneth M. Viste, Jr., MD, Neurology Public Policy Fellowship Informational Session

12:00 p.m.-1:00 p.m.

Coding Lunches

12:00 p.m.-1:00 p.m.

3CL.001 Coding Lunch: Dementia

3CL.002 Coding Lunch: Cerebrovascular Disease

3CL.003 Coding Lunch: Child Neurology

Ethics Colloquium

12:30 p.m.-2:00 p.m.

Integrated Neuroscience Session: Recent Advances in Genetics and Molecular Biology in Global Neurology

2:00 p.m.-6:00 p.m.

Scientific platform and poster presentations along with an invited speaker session.

2:00 p.m.-3:30 p.m. Invited Speaker Session

3:30 p.m.-4:30 p.m. Poster Session

4:30 p.m.-6:00 p.m. Platform Session

P.M. Half-Day Courses

2:15 p.m.-6:00 p.m.

3PC.001 Women's Issues in Neurology

3PC.002 Hot Topics in Headaches and Related Disorders

3PC.003 Behavioral Neurology: Contemporary Topics: Memory

3PC.004 Genetic Testing in Clinical Neurology

3PC.005 Clinical EMG II

3PC.006 Clinical Research Methods II

Guidelines, Practice, and Advocacy Open House Featuring Digital Demos: Technology Solutions That You Can Afford

3:00 p.m.-5:30 p.m.

ABPN Resident Informational Session

5:00 p.m.-6:30 p.m.

Student Interest Group in Neurology (SIGN) Meeting

5:30 p.m.-6:30 p.m.

Exhibit Hall Opening Reception

5:00 p.m.-7:00 p.m.

Residents and Fellows Career Forum and Reception

6:30 p.m-9:00 p.m.

Dinner Seminars

6:30 p.m.-9:30 p.m.

3DS.001 Neuroimaging Practicum: Acute Stroke, Spine, and Difficult Cases

3DS.002 Controversial Issues in Neurologic Infections

3DS.003 Mild Cognitive Impairment: Implications for Clinicians

3DS.004 The Interface of Sleep and Neurologic Disorders

3DS.005 The Neurology of Famous Musicians and Composers

3DS.006 Intraoperative Neurophysiologic Monitoring: Spinal Cord and Nerve Root Monitoring

3DS.007 Important Drug Interactions for Neurologists and Psychiatrists

3DS.008 Neuropathic Pain: Diagnostic Strategies and Treatment Controversies

After-Dinner Seminars

7:30 p.m.-10:30 p.m.

3AS.001 The Intractable Headache Patient

3AS.002 Brain Computer Interfaces: Frontiers in Neurology and Neuroscience

3AS.003 Clinical Pearls in Bedside Neurology

3AS.004 Hallucinations in Parkinson's Disease: Pathogenesis and Practical Management

3AS.005 Improving Accuracy of Dementia Diagnosis: Case Studies with Neuropathology

3AS.006 EEG in Children and Adolescents: Common Pitfalls, Classical Syndromes, and Identification of Surgical Candidates

3AS.007 Case Studies in the Genetics of Motor Neuron Disorders and Other Neurodegenerations

3AS.008 Basic Metabolic Disorders

TUESDAY, APRIL 28

Run/Walk for Brain Research

6:30 a.m.-8:30 a.m.

Breakfast Seminars

6:45 a.m.-8:30 a.m.

4BS.001 Neonatal Seizures: An Update

4BS.002 Vascular Cognitive Impairment and Dementia: Current Status and Future

4BS.003 Advances in the Care of Brain Injury After Resuscitation from Cardiac Arrest

4BS.004 Clinical Grant Writing

Palatucci Advocacy Action Planning Roundtable

7:00 a.m.-9:30 a.m.

Poster Session I

7:00 a.m.-10:00 a.m.

Presidential Plenary Session

9:00 a.m.-12:00 p.m.

AAN/AAN Professional Association Business Meeting

(Immediately follows the last Presidential Plenary Session lecture)

Poster Session II

11:30 a.m.-2:30 p.m.

Exhibits

11:30 a.m.-5:00 p.m.

Exhibit Hall Lunch

12:00 p.m.-2:00 p.m.

Luncheon Seminars

12:00 p.m.-1:30 p.m.

4LS.001 Primary and Comprehensive Stroke Centers: The Future of Stroke Care

4LS.002 Bedside Evidence-Based Medicine: How to Deconstruct
Articles in Order to Take Care of Patients

Level 1 Certification for the NINDS Clinical Research Collaboration

1:00 p.m.-3:00 p.m.

Integrated Neuroscience Session: Alzheimer's, Imaging, and Biomarkers (ADNI)

1:00 p.m.-5:00 p.m.

Scientific platform and poster presentations along with an invited speaker session.

1:00 p.m.-2:30 p.m. Platform Session

2:30 p.m.-3:30 p.m. Poster Session

3:30 p.m.-5:00 p.m. Invited Speaker Session

Scientific Platform Sessions

2:00 p.m.-3:30 p.m.

S01 Multiple Sclerosis: Epidemiology/Clinical Outcomes/Biomarkers

S02 Aging and Dementia: Epidemiology

S03 Pathogenesis and Epidemiology of Essential Tremor

S04 Acute Stroke Care

S05 Inflammatory, Necrotizing, and Autophagic Myopathies

S06 Multiple Sclerosis: Immunology I

S07 Sleep Disorders

S08 Infections/AIDS/Prion Disease

S09 Clinical Neurophysiology: Intraoperative Monitoring, Evoked Potentials, and Basic Science

S10 Neuro-oncology

P.M. Half-Day Courses

2:15 p.m.-6:00 p.m.

4PC.001 Neuro-otology

4PC.002 Myelopathies

4PC.003 Neurologic Complications of Medical Disease

4PC.004 History of Neurology: The Origins of the Neurologic Examination

4PC.005 Psychiatry for the Neurologist

Scientific Platform Sessions

3:45 p.m.-5:00 p.m.

S11 Multiple Sclerosis: Clinical Therapeutics and Interventions

S12 Anterior Horn: Basic Science

S13 Parkinson's Disease: Non-Motor Symptoms

S14 Acute Stroke Therapeutics

S15 Peripheral Nerve I

S16 Epilepsy: Women's Issues and Co-Morbidities

S17 Multiple Sclerosis: Genetics/Pathology

S18 Cerebrovascular Disease

S19 Ethics and Pain

S20 Neurologic Education

MEETING OVERVIEW

Poster Session III

4:00 p.m.-7:30 p.m.

Hot Topics Plenary Session

5:15 p.m.-6:15 p.m.

Corporate Therapeutic Updates

7:30 p.m.-10:00 p.m.

WEDNESDAY, APRIL 29

Breakfast Seminars

6:45 a.m.-8:30 a.m.

5BS.001 Advanced Palliative Care and Symptom Management of ALS, Alzheimer's Disease, and Parkinson's Disease

5BS.002 Introduction to the Evaluation and Therapy of Restless Legs Syndrome and Periodic Limb Movements in Sleep

5BS.003 Editor's Seminar: Tips for Writing and Reviewing for *Neurology*®

5BS.004 Ethical Dilemmas in the ICU

Poster Session IV

7:00 a.m.-10:00 a.m.

Contemporary Clinical Issues and Case Studies Plenary Session

9:00 a.m.-12:00 p.m.

Poster Session V

11:30 a.m.-2:30 p.m.

Exhibits

11:30 a.m.-5:00 p.m.

Exhibit Hall Lunch

12:00 p.m.-2:00 p.m.

American Academy of Neurology and American Academy of Neurology Foundation Awards Luncheon

12:00 p.m.-1:30 p.m.

Luncheon Seminar

12:00 p.m.-1:30 p.m.

5LS.001 E/M: Minimize Mistakes, Maximize Reimbursement

Integrated Neuroscience Session: Advances in Headache

2:00 p.m.-6:00 p.m.

Scientific platform and poster presentations along with an invited speaker session.

2:00 p.m.–3:30 p.m. Platform Session 3:30 p.m.–4:30 p.m. Poster Session

4:30 p.m.–4:45 p.m. Award Presentation

4:45 p.m.-6:00 p.m. Invited Speaker Session

Scientific Platform Sessions

2:00 p.m.-3:30 p.m.

S21 Multiple Sclerosis: Clinical Trials

S22 Aging and Dementia: Genetics

S23 Parkinson's Disease: Epidemiology

S24 Stroke Epidemiology I

S25 Muscular Dystrophies

S26 Epilepsy: Co-Morbidities, Epidemiology, and Health Outcomes

S27 Peripheral Nerve II

S28 Behavioral Neurology I

S29 Neurogenetics

S30 Neurologic Manifestations of Systemic Disease

P.M. Half-Day Courses

2:15 p.m.-6:00 p.m.

5PC.001 Common Spine Disorders

5PC.002 Practical Legal Issues for Neurologists

5PC.003 Evaluation and Management of Autonomic Disorders

5PC.004 Women's Issues In Cerebrovascular Diseases

5PC.005 Neurodevelopmental Disabilities Across the Lifespan

Scientific Platform Sessions

3:45 p.m.-5:00 p.m.

S31 Multiple Sclerosis: Imaging I

S32 Aging and Dementia: Treatment

S33 Movement Disorders: Dystonia

S34 Stroke Epidemiology II

S35 Anterior Horn: SMA and Kennedy's Disease

S36 Interventional Neurology

S37 Peripheral Nerve III

S38 Behavioral Neurology II

S39 Multiple Sclerosis: Immunology II

S40 History of Neurology

Poster Session VI

4:00 p.m.-7:00 p.m.

Controversial Issues in Practice: Health Care Reform for the Obama Administration and a New Congress – First 100 Days and Beyond

5:15 p.m.-7:00 p.m.

Case Study Programs

7:00 p.m.-10:00 p.m.

5CS.001 Now You See It, Now You Know It: Pathognomonic Neuro-ophthalmology

5CS.002 Multiple Sclerosis Case Studies

5CS.003 Case Studies in Neuro-oncology

5CS.004 Unusual Diagnostic and Management Cases in Neuromuscular Disease

AAN Foundation Wine Tasting and Auction

7:00 p.m.-9:30 p.m.

Grand Ballroom, Sheraton Hotel

THURSDAY, APRIL 30

Breakfast Seminars

6:45 a.m.-8:30 a.m.

6BS.001 Canalith Repositioning for Benign Paroxysmal Positional Vertigo

6BS.002 Career Development for Clinician Educators

6BS.003 The Neurology of Social Behavior

6BS.004 Office Orthopedics for the Neurologist

Poster Session VII

7:00 a.m.-10:00 a.m.

Frontiers in Clinical Neuroscience Plenary Session

9:00 a.m.-11:00 a.m.

Poster Session VIII

11:30 a.m.-2:30 p.m.

Exhibits

11:30 a.m.-4:00 p.m.

Exhibit Hall Lunch

12:00 p.m.-2:00 p.m.

Luncheon Seminar

12:00 p.m.-1:30 p.m.

6LS.001 Telemedicine Increases Options for Successful Stroke Treatment: Nuts and Bolts

Scientific Platform Sessions

1:30 p.m.-3:30 p.m.

S41 Multiple Sclerosis: Clinical Outcomes

S42 Aging and Dementia: Biology or Predictor

S43 Evaluation and Treatment of Parkinson's Disease

S44 Stroke Imaging

S45 Anterior Horn: Clinical and Translational Research

S46 Headache: Basic and Clinical Science

S47 Multiple Sclerosis: Immunology III

S48 Neuroepidemiology/Health Services Research

S49 Stroke Prevention and Outcomes

S50 Child Neurology: Diagnosis and Treatment

Integrated Neuroscience Session: The Circadian and Homeostatic Control of Sleep

2:00 p.m.-6:00 p.m.

Scientific platform and poster presentations along with an invited speaker session.

2:00 p.m.-3:30 p.m. Invited Speaker Session

3:30 p.m.–4:30 p.m. Poster Session 4:30 p.m.–6:00 p.m. Platform Session

P.M. Half-Day Courses

2:15 p.m.-6:00 p.m.

6PC.001 Spine Neuroimaging: Clinical-Radiologic Correlation

6PC.002 Localization in Clinical Neurology

6PC.003 Ethics, Clinical Practice, and Challenges in Neurogeriatric Care for the 21st Century

6PC.004 Menopausal/Andropausal Neurology

MEETING OVERVIEW

Scientific Platform Sessions

3:45 p.m.-5:00 p.m.

S51 Multiple Sclerosis: Imaging II

S52 Aging and Dementia: Imaging

S53 Pathogenesis of Parkinson's Disease

S54 Hemorrhagic Stroke

S55 Myasthenic and Mitochondrial Disorders

S56 Epilepsy: Genetics and Therapy

S57 Neuro-ophthalmology and Neuro-otology

S58 Critical Care

S59 Neural Repair and Neurorehabilitation

S60 Autonomic Disorders

Poster Session IX

4:00 p.m.-7:00 p.m.

Scientific Topic Highlights Program

6:00 p.m.-7:00 p.m.

 Cerebrovascular Disease, Critical Care/Emergency Neurology/Trauma, and Interventional Neurology

· Dementia/Behavioral Neurology

• Epilepsy/EEG

· Movement Disorders

· Neuromuscular, EMG, and Autonomic Disorders

Scientific Topic Highlights Program

7:00 p.m.-8:00 p.m.

 Combined Scientific Topic Highlights: Child Neurology, Ethics, Pain and Palliative Care, Infections, Neuroepidemiology, and Neuro-oncology

· Clinical Practice

· Multiple Sclerosis

Therapy Programs

7:00 p.m.-9:00 p.m.

6TP.001 Stroke Therapy

6TP.002 Epilepsy Therapy

6TP.003 Neuromuscular Therapy

Case Study Programs

7:00 p.m.-10:00 p.m.

6CS.001 Case Studies in Dementia

6CS.002 Sleep Medicine Cases for the Neurologist

6CS.003 Unusual Movement Disorders

6CS.004 Challenging Pain Cases in Neurology Practice

FRIDAY, MAY 1

Breakfast Seminars

6:45 a.m.-8:30 a.m.

7BS.001 Approach to Acute CNS Infections

7BS.002 Hyperkinetic Movement Disorders: Diagnosis

and Treatment

7BS.003 Creativity and Neurologic Disease

7BS.004 Attention Deficit Hyperactivity Disorder Across

the Lifespan

7BS.005 Interventional Therapy for Acute Ischemic Stroke

7BS.006 Special Considerations in Women's Epilepsy

7BS.007 Brachial Plexus Assessment

A.M. Half-Day Courses

9:00 a.m.-12:45 p.m.

7AC.001 Painful Pain Patients

7AC.002 Traumatic Brain Injury

7AC.003 Neuromuscular Junction Disorders

7AC.004 Primer of Cognitive Neurology

7AC.005 Update on Endovascular Treatment of

Cerebrovascular Diseases

Full-Day Courses

9:00 a.m.-5:00 p.m.

7FC.001 Update on Multiple Sclerosis

7FC.002 Update in Neuroimaging: Essentials and Beyond-Part I

7FC.003 Neuro-ophthalmology

7FC.004 Clinical Epilepsy

7FC.005 Neurology Update II

7FC.006 Movement Disorders

Neuroscience Conference

9:00 a.m.-5:00 p.m.

7SC.001 Future of Neuroscience Conference: New Genetics: The Future of Neurology

Skills Workshop

9:00 a.m.-6:00 p.m.

7SW.001 Advanced Techniques in EMG and Neuromuscular Diseases

Coding Lunches

12:00 p.m.-1:00 p.m.

7CL.001 Coding Lunch: Movement Disorders

7CL.002 Coding Lunch: Epilepsy

Integrated Neuroscience Session: Traumatic Brain Injury

1:00 p.m.-5:00 p.m.

Scientific platform and poster presentations along with an invited speaker session.

1:00 p.m.-2:30 p.m. Invited Speaker Session

2:30 p.m.-3:30 p.m. Poster Session

3:30 p.m.-5:00 p.m. Platform Session

P.M. Half-Day Courses

1:15 p.m.-5:00 p.m.

7PC.001 Stroke Prevention in 2009

7PC.002 Neurology of Sleep II

7PC.003 Neurologic Consultations in the ICU

7PC.004 Non-Alzheimer's Dementia

7PC.005 Traumatic Spinal Cord Injury

Scientific Program Highlights Plenary Session

5:15 p.m.-6:15 p.m.

Therapy Programs

7:00 p.m.-9:00 p.m.

7TP.001 Multiple Sclerosis Therapy

7TP.002 Headache Therapy

7TP.003 Movement Disorders Therapy

SATURDAY, MAY 2

Breakfast Seminars

6:45 a.m.-8:30 a.m.

8BS.001 Hot Topics in Neuro-Ophthalmology: Optical Coherence Tomography (OCT) in Neurologic Disease

8BS.002 Clinicians' Guide to Myoclonus

8BS.003 Can I Drive? Can I Fly?

8BS.004 A Case-Based Seminar of Frontotemporal Dementia

8BS.005 Surviving Stroke Call: A Guide for Nonvascular Neurologists

8BS.006 Small Fiber Neuropathies: Somatic, Autonomic, or a Mixture of Both

8BS.007 Heavy Metals and Neurology

8BS.008 Antiepileptic Medication

A.M. Half-Day Courses

9:00 a.m.-12:45 p.m.

8AC.001 Diagnostic Dilemmas in Multiple Sclerosis

8AC.002 Update in Neuroimaging: Essentials and Beyond-Part II

8AC.003 Perioperative Stroke: A Practical Approach to Risk Stratification and Modification During the Preoperative Evaluation

8AC.004 Emergency Neurology

8AC.005 Deep Brain Stimulation

8AC.006 Structure Function Correlations in Behavioral Neurology

8AC.007 Critical Care of Brain Hemorrhage

8AC.008 How to Analyze Spells by Video-EEG

AAN CELEBRATION FOR RESEARCH



Sunday, April 26, 2009

Come to Support Research. Stay for the Fun!

Celebrate the kick-off of the 2009 Annual Meeting with your Academy friends and colleagues at this not-to-be-missed evening of fantastic entertainment and food—all for a great cause! Free to Annual Meeting attendees; guest tickets are \$50.

Neurobowl® 6:00 p.m.–8:00 p.m.

NEW! In 2009 Neurobowl will pit brainy gladiators from both sides of the Mississippi to test their knowledge in an all-out neuro-rumble. It's East versus West and the winners will take on the 2008 Neurobowl champions!

AAN former president Thomas R. Swift, MD, FAAN, hosts this popular quiz show.

Sponsored by UCB, Inc.

Neuro Idol 8:00 p.m.-10:00 p.m.

Come see your fellow neurologists take the spotlight and showcase their musical talents in a cabaret-style show. To sign up as a performer, contact Erin Jackson at ejackson@aan.com.

Sponsored by the AAN Partners Program

Main Stage 8:30 p.m.–10:30 p.m.

Josh Blue Brings Down the House with Big Laughs!

Celebrated comedian Josh Blue's comedy centers on his experiences living and dealing with cerebral palsy. Blue exploded onto the national comedy scene by capturing the attention and endearment of the country as the winner of NBC's "Last Comic Standing."

Sponsored by Teva Neuroscience, Inc.

Neuro Hop 8:30 p.m.-10:30 p.m.

Dance the night away to classic hits from today and yesteryear. DJ Kyle spins the tunes. You provide the wild dance moves!

www.aan.com/celebrate





SCIENTIFIC SESSIONS AT-A-GLANCE All scientific presentations will be held at the Washington State Convention and Trade Center (unless otherwise noted).

Sunday, April 26, 2	009
2:00 p.m.–6:00 p.m.	Integrated Neuroscience Session: Endovascular Neurology
2.00 p 0.00 p	2:00 p.m.—3:30 p.m
	3:30 p.m.–4:30 p.m. Poster Session
	4:30 p.m.–6:00 p.m. Invited Speaker Session
Monday, April 27, 2	2009
2:00 p.m.–6:00 p.m.	Integrated Neuroscience Session: Recent Advances in Genetics and
2.00 p.m6.00 p.m.	Molecular Biology in Global Neurology3AE
	2:00 p.m.–3:30 p.m. Invited Speaker Session
	3:30 p.m.—4:30 p.m
	4:30 p.m.–6:00 p.m. Platform Session
Tuesday, April 28,	2009
7:00 a.m.–10:00 a.m.	Poster Session I
9:00 a.m12:00 p.m.	Presidential Plenary Session44
11:30 a.m.–2:30 p.m.	Poster Session II
•	
1:00 p.m.–5:00 p.m.	Integrated Neuroscience Session: Alzheimer's, Imaging, and Biomarkers (ADNI)
	2:30 p.m.–3:30 p.m. Poster Session
	3:30 p.m.–5:00 p.m. Invited Speaker Session
2:00 p.m3:30 p.m.	Scientific Sessions
2.00 p 0.00 p	S01 Multiple Sclerosis: Epidemiology/Clinical Outcomes/Biomarkers
	S02 Aging and Dementia: Epidemiology
	S03 Pathogenesis and Epidemiology of Essential Tremor
	Presentation of the Movement Disorders Research Award
	S04 Acute Stroke Care
	Presentation of the Michael S. Pessin Stroke Leadership Prize
	S05 Inflammatory, Necrotizing, and Autophagic Myopathies
	S07 Sleep Disorders
	Presentation of the Sleep Science Award
	S08 Infections/Aids/Prion Disease 602/603
	S09 Clinical Neurophysiology: Intraoperative Monitoring, Evoked Potentials, and Basic Science 613/614
	S10 Neuro-oncology
3:45 p.m.–5:00 p.m.	Scientific Sessions
	S11 Multiple Sclerosis: Clinical Therapeutics and Interventions
	S12 Anterior Horn: Basic Science
	S13 Parkinson's Disease: Non-Motor Symptoms
	Presentation of the Jon Stolk Award in Movement Disorders for Young Investigators
	S14 Acute Stroke Therapeutics
	S15 Peripheral Nerve I
	S16 Epilepsy: Women's Issues and Co-Morbidities 611/612
	S17 Multiple Sclerosis: Genetics/Pathology 605/610 S18 Cerebrovascular Disease 602/603
	S18 Cerebrovascular Disease 602/603 S19 Ethics and Pain 613/614
	S20 Neurologic Education 604
4:00 p.m.–7:30 p.m.	Poster Session III
5:15 p.m.–6:15 p.m.	Hot Topics Plenary Session
p erre piin	
Wednesday, April 2	29, 2009
7:00 a.m10:00 a.m.	Poster Session IV

SCIENTIFIC SESSIONS AT-A-GLANCE All scientific presentations will be held at the Washington State Convention and Trade Center (unless otherwise noted).

11:30 a.m.–2:30 p.m.	Poster Session V	6E
2:00 p.m3:30 p.m.	Scientific Sessions	
	S21 Multiple Sclerosis: Clinical Trials	6B
	S22 Aging and Dementia: Genetics	6C
	Presentation of the Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases	
	S23 Parkinson's Disease: Epidemiology	6A
	S24 Stroke Epidemiology I	608/609
	Presentation of the AAN Alliance: Founders Award	
	S25 Muscular Dystrophies	
	S26 Epilepsy: Co-Morbidities, Epidemiology, and Health Outcomes	611/612
	Presentation of the Dreifuss-Penry Epilepsy Award	005/040
	S27 Peripheral Nerve II	
	S28 Behavioral Neurology I	602/603
	Presentation of the Norman Geschwind Prize in Behavioral Neurology	612/614
	S29 Neurologic Manifestations of Systemic Disease	
	S30 Neurologic Manifestations of Systemic Disease	
2:00 p.m.–6:00 p.m.	Integrated Neuroscience Session: Advances in Headache	
	2:00 p.m.–3:30 p.m.	
	3:30 p.m.–4:30 p.m.	
	4:30 p.m.–4:45 p.m. Presentation of the Harold Wolff-Journal 4:45 p.m.–6:00 p.m. Invited	
3:45 p.m.–5:00 p.m.	Scientific Sessions	
	S31 Multiple Sclerosis: Imaging I	6B
	S32 Aging and Dementia: Treatment	
	S33 Movement Disorders: Dystonia	
	S34 Stroke Epidemiology II	
	S35 Anterior Horn: SMA and Kennedy's Disease	606/607
	S36 Interventional Neurology	611/612
	S37 Peripheral Nerve III	605/610
	S38 Behavioral Neurology II	
	S39 Multiple Sclerosis: Immunology II	
	S40 History of Neurology	604
4:00 p.m.–7:00 p.m.	Poster Session VI	6E
Thursday, April 30	2009	
7:00 a.m.–10:00 a.m.	Poster Session VII	6E
9:00 a.m.–11:00 a.m.	Frontiers in Clinical Neuroscience Plenary Session	4A
11:30 a.m.–2:30 p.m.	Poster Session VIII	
1:30 p.m.–3:30 p.m.	Scientific Sessions	
p	S41 Multiple Sclerosis: Clinical Outcomes	6B
	S42 Aging and Dementia: Biology or Predictor	6C
	S43 Evaluation and Treatment of Parkinson's Disease	6A
	S44 Stroke Imaging	
	S45 Anterior Horn: Clinical and Translational Research	
	S46 Headache: Basic and Clinical Science	
	S47 Multiple Sclerosis: Immunology III	
	S48 Neuroepidemiology/Health Services Research	
	Presentation of the Bruce S. Schoenberg International Award in Neuroe	•
	S49 Stroke Prevention and Outcomes	
	S50 Child Neurology: Diagnosis and Treatment	604

2:00 p.m.–6:00 p.m.	Integrated Neuroscience Session: The Circadian and Homeostatic Control of Sleep3AB					
	2:00 p.m.–3:30 p.m.	Invited Speaker Session				
	3:30 p.m.–4:30 p.m	Poster Session				
	4:30 p.m.–6:00 p.m.	Platform Session				
3:45 p.m5:00 p.m.	Scientific Sessions					
	S51 Multiple Sclerosis: Imaging II	6B				
	S52 Aging and Dementia: Imaging	6C				
	S53 Pathogenesis of Parkinson's Disease	6A				
	S54 Hemorrhagic Stroke	608/609				
	S55 Myasthenic and Mitochondrial Disorders					
	S56 Epilepsy: Genetics and Therapy	611/612				
	S57 Neuro-ophthalmology and Neuro-otology	605/610				
	S58 Critical Care	602/603				
	S59 Neural Repair and Neurorehabilitation	613/614				
	Presentation of the AAN Alliance: S. Weir Mitchell Award					
	S60 Autonomic Disorders	604				
4:00 p.m.–7:00 p.m.	Poster Session IX	6E				
6:00 p.m.–7:00 p.m.	Scientific Topic Highlights					
	Cerebrovascular Disease, Critical Care/Emergency Neurology/Trauma, and Interventional Neurology2B					
	Dementia/Behavioral Neurology					
	Epilepsy/EEG					
	Movement Disorders					
	Neuromuscular, EMG, and Autonomic Disorders	605/610				
7:00 p.m.–8:00 p.m.	Scientific Topic Highlights					
	Combined Scientific Topic Highlights: Child Neurology, Ethics, Pain and Palliativ					
	Neuroepidemiology, and Neuro-oncology	604				
	Clinical Practice	3AB				
	Multiple Sclerosis	6B				
Friday, May 1, 200	19					
9:00 a.m5:00 p.m.	Future of Neuroscience Conference: New Genetics: The Future of Neurolo	gv Hvatt Amphitheater				
1:00 p.m.–5:00 p.m.	Integrated Neuroscience Session: Traumatic Brain Injury	•				
1.00 p.m.–5.00 p.m.	1:00 p.m.—2:30 p.m.					
	2:30 p.m.–3:30 p.m.	•				
	3:30 p.m.–5:00 p.m.					
F.45 m m 0:45 m m						
5:15 p.m.–6:15 p.m.	Scientific Program Highlights Plenary Session	4A				

2009 AWARD RECIPIENTS

Rooms and locations are subject to change.

AAN Alliance Awards

Founders Award

Sponsored by the American Academy of Neurology Alliance.

Recipient: Kazuma Nagakawa, MD / San Francisco, CA

Presentation: S24: Stroke Epidemiology I

Date and Time: Wednesday, April 29, 2:00 p.m., Room 608/609

Title: "Transfer Function Analysis of Dynamic Cerebral

Autoregulation in Non-traumatic Intracerebral Hemorrhage"

· S. Weir Mitchell Award

Sponsored by the American Academy of Neurology Alliance.

Recipient: Sashank Prasad, MD / Philadelphia, PA

Presentation: S59: Neural Repair and Neurorehabilitation

Date and Time: Thursday, April 30, 3:45 p.m., Room 613/614

Title: "Anatomical and Physiological Correlates of Cross-modal Activation in Blindness"

A. B. Baker Award for Lifetime Achievement in Neurologic Education

Funded by an endowment created by matching funds from the A. B. Baker Family Trust and Novartis Pharmaceuticals.

Recipient: Jasper R. Daube, MD, FAAN / Rochester, MN Presentation: "When, Where and How I Am Still Improving My Skills at Helping Students Learn"

Date and Time: Monday, April 27, 9:15 a.m.–9:45 a.m., Sheraton Metropolitan Ballroom AB

AAN Foundation Clinical Research Training Fellowships

Funded by the American Academy of Neurology, the American Academy of Neurology Foundation, and the AAN Foundation Corporate Roundtable.

Recipients:

Peter Turkeltaub, MD, PhD

University of Pennsylvania, Philadelphia, PA

Jonathan Lipton, MD, PhD

Children's Hospital, Boston, MA

W. Taylor Kimberly, MD, PhD

Massachusetts General Hospital, Boston, MA

Sashank Prasad, MD

U of Penn. School of Medicine, Philadelphia, PA

Andria L. Ford, MD

Washington University, St. Louis, MO

Chad Hales, MD, PhD

Emory University School of Medicine, Atlanta, GA

Martina Vendrame, MD, PhD

Brigham and Women's Hospital, Boston, MA

Toni Pearson, MD

Columbia University Medical Center, New York, NY

Lesli E. Skolarus, MD

University of Michigan, Ann Arbor, MI

Rachel Goldmann Gross, MD

University of Pennsylvania, Philadelphia, PA

Andrew Lim, BSc, MD, FRCPC

Beth Israel Deaconess Center, Boston, MA

Glen Jickling, MD

University of California, Davis, Sacramento, CA

AAN Foundation Practice Research Training Fellowship

Funded by The American Academy of Neurology, the American Academy of Neurology Foundation, and the AAN Foundation Corporate Roundtable.

Recipient: Beau B. Bruce, MD

Emory University School of Medicine, Atlanta, GA

Robert Katzman, MD, Clinical Research Training Fellowship in Alzheimer's Research

Cosponsored by The American Academy of Neurology Foundation and the Alzheimer's Association. Recipient: Joshua M. Shulman, MD, PhD Brigham and Women's Hospital, Boston, MA

AAN Award For Creative Expression of Human Values in Neurology

Sponsored by the Ethics, Law and Humanities Committee.

Recipients: James Gordon, MD, FRCPC, FAAN / Seattle, WA Title: "The Art of Knowing"

Dreifuss-Penry Epilepsy Award

Sponsored by the American Academy of Neurology and endowed by members of the AAN Epilepsy Section; Abbott Laboratories, Inc.; Cephalon, Inc.; Cyberonics, Inc.; Elan Pharmaceuticals, Inc.; GlaxoSmithKline; Novartis Pharmaceuticals; Ortho-McNeil Neurologics; Pfizer Inc; Shire US, Inc; and UCB Pharma.

Recipient: Michael Wong, MD, PhD / St. Louis, MO

Presentation: S26: Epilepsy: Co-Morbidities, Epidemiology, and

Health Outcomes

Date and Time: Wednesday, April 29, 2:00 p.m., Room 611/612

John Dystel Prize for Multiple Sclerosis Research

Presented by the American Academy of Neurology and the National Multiple Sclerosis Society and made possible through a special contribution from the John Dystel Multiple Sclerosis Research Fund at the National Multiple Sclerosis Society.

Recipient: David Miller, FRCP / London, United Kingdom Presentation: S21: Multiple Sclerosis: Clinical Trials Date and Time: Wednesday, April 29, 2:00 p.m., Room 6B

Sheila Essey Award: An Award for ALS Research

Presented by the American Academy of Neurology and the ALS Association and supported through the philanthropy of the Essey Family Fund and the ALS Association.

Recipients:

Merit Cudkowicz, MD, MSc / Charlestown, MA Orla Hardiman, MD / Dublin, Ireland

Presentation: S12: Anterior Horn: Basic Science Date and Time: Tuesday, April 28, 3:45 p.m., Room 6C

American Academy of Neurology Foundation Chair's Award

Sponsored by the American Academy of Neurology Foundation.

Recipient: TBD

Norman Geschwind Prize in Behavioral Neurology

Sponsored by the American Academy of Neurology and the AAN Behavioral Neurology Section and endowed through Dr. Geschwind's family, friends, and colleagues; Pfizer Inc; and the Society for Behavioral and Cognitive Neurology.

Recipient: Bradley Schlaggar, MD, PhD / St. Louis, MO

Presentation: S28: Behavioral Neurology I

Date and Time: Wednesday, April 29, 2:00 p.m., Room 602/603

Jon Stolk Award in Movement Disorders for Young Investigators

Sponsored by the American Academy of Neurology and endowed by Kyowa Pharmaceutical, Inc., Lineberry Research, Quintiles, and Dr. Dennis Gillings.

Recipient: Christian Wider, MD / Jacksonville, FL

Presentation: S13: Parkinson's Disease: Non-Motor Symptoms Date and Time: Tuesday, April 28, 3:45 p.m., Room 6A

Association of Indian Neurologists in America (AINA) Lifetime Achievement Award

Endowed by the Association of Indian Neurologists in America. Recipient: Shri K. Mishra, MD, FAAN / Encino, CA

Presentation: AINA Annual Meeting Date and Time: Tuesday April 28

International Scholarship Award

Sponsored by the American Academy of Neurology Membership Committee.

Recipients:

Fabricio Ferreira de Oliveira, MD

Campinas, SP, Brazil

Amitav Rath, MD, DNB

Orissa. India

Abdullahi Ibrahim, MBBS, FMCP

Bauchi State, Nigeria

Marijana Lisak, MD, PhD

Zagreb, Croatia

Kolawole W Wahab, MBBS, FMCP

Kwara State, Nigeria

Gaetano Cantalupo, MD

Bologna, Italy

Ramachandran Meenakshisundaram, MBBS

Tamilnadu, India

Adekunle F Mustapha, MBBS, FMCP

Osun, Nigeria

Daria Dinacci, MD

Naples, Italy

James C. Stevens, MBBS, PhD, MRCP

London, United Kingdom

Xin Cheng, MD, PhD

Shanghai, China

Augustina O. Charway, MD

Accra. Ghana

Shima Mehrabian, MD

Sofia, Bulgaria

Lawrence C. McHenry Award: An Award for the History of Neurology

Sponsored by the American Academy of Neurology.

Recipient: T. Jock Murray, OC, MD, FRCPC /
Halifax, NS, Canada

Presentation: S40: History of Neurology

Date and Time: Wednesday, April 29, 3:45 p.m., Room 604

Title: "Dr. Samuel Johnson's Stroke"

Medical Student Essay Awards

Sponsored by the American Academy of Neurology.

Extended Neuroscience Award

Recipient: Cyrus Raji / Pittsburgh, PA

Presentation: Poster Session III

Date and Time: Tuesday, April 28, 4:00 p.m., Room 6E Title: "Independent Effects of Age and Alzheimer's on Gray

Matter in a Community Cohort"

G. Milton Shy Award in Clinical Neurology

Recipient: Alissa Waite / Warwick, RI

Presentation: Poster Session III

Date and Time: Tuesday, April 28, 4:00 p.m., Room 6E Title: "Seizure Exposure as a Risk Factor for Psychogenic

Nonepileptic Seizures"

• Roland P. Mackay Award in Historical Aspects

Recipient: Erika Levy / Rochester, NY

Presentation: Poster Session III

Date and Time: Tuesday, April 28, 4:00 p.m., Room 6E Title: "Misperceptions of Coprolalia Throughout History"

• Saul R. Korey Award in Experimental Neurology

Not given in 2009

Movement Disorders Research Award

Sponsored by the American Academy of Neurology, the Parkinson's Disease Foundation, and the AAN Movement Disorders Section and endowed by the Parkinson's Disease Foundation.

Recipient: Mahlon DeLong, MD / Atlanta, GA

Presentation: S03: Pathogenesis and Epidemiology of

Essential Tremor

Date and Time: Tuesday, April 28, 2:00 p.m., Room 6A

Neuroscience Research Prize

Sponsored by the American Academy of Neurology, American Academy of Neurology Foundation and the Child Neurology Society.

Recipients:

Jamie Kang / Belmont, MA Jourdan Urbach / Roslyn Heights, NY Henry Zheng / Ellicott City, MD

2009 AWARD RECIPIENTS

Rooms and locations are subject to change.

Child Neurology Neuroscience Research Prize

Sponsored by the American Academy of Neurology, American Academy of Neurology Foundation and the Child Neurology Society.

Recipient: Inar Zhang / Mercer Island, WA

Note: The recipient will attend the Child Neurology Society Annual

Meeting, October 14-17, 2009 in Louisville, KY

Palatucci Advocacy Leadership Forum Advocate of the Year.

Sponsored by the AAN State Affairs Committee.

Recipient: Daniel C. Potts, MD / Tuscaloosa, AL

Michael S. Pessin Stroke Leadership Prize

Sponsored by the American Academy of Neurology and endowed by Dr. Pessin's family, friends, and colleagues.

Recipient: Matthew Flaherty, MD / Cincinnati, OH

Presentation: S04: Acute Stroke Care

Date and Time: Tuesday, April 28, 2:00 p.m., Room 608/609

Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases

Sponsored by the American Academy of Neurology, the AAN Foundation, and funded through the philanthropy of the Potamkin Family.

Recipients:

Robert Vassar, PhD / Chicago, IL Michael Wolfe, PhD / Boston, MA

Berislav Zlokovic, MD, PhD / Rochester, NY

Presentation: S22: Aging and Dementia: Genetics

Date and Time: Wednesday, April 29, 2:00 p.m., Room 6C

American Academy of Neurology President's Award

Sponsored by the American Academy of Neurology.

Recipient: Michael L. Goldstein, MD, FAAN /
Salt Lake City, UT

Preuss Award in Clinical Neuro-oncology

Supported by the American Academy of Neurology and the AAN Neuro-oncology Section and awarded through a gift from Dr. Preuss' family, friends, and colleagues.

Recipient: Scott Plotkin, MD, PhD / Boston, MA Presentation: Neuro-oncology Section Meeting

Date and Time: Tuesday, April 28, 12:30 p.m., Room 201

Research Award in Geriatric Neurology

Sponsored by the American Academy of Neurology and the AAN Geriatric Neurology Section and supported by the American Geriatrics Society and the John J. Hartford Foundation.

Recipient: Andrew Budson, MD / Bedford, MA

Presentation: Geriatrics Section Meeting

Date and Time: Tuesday, April 28, 12:00 p.m., Room 611/612

Bruce S. Schoenberg International Award in Neuroepidemiology

Endowed by GlaxoSmithKline, Inc.

Recipient: Edgard-Brice Ngoungou, PhD / Libreville, Gabon Presentation: S48: Neuroepidemiology/Health Services Research Date and Time: Thursday, April 30, 1:30 p.m., Room 602/603 Title: "Relationship Between Cerebral Malaria and Sequelar Epilepsy in Tropical Regions"

Sleep Science Award

Sponsored by the American Academy of Neurology and the AAN Sleep Section and endowed by Cephalon, Inc.

Recipient: Paul Franken, MD / Lausanne, Switzerland

Presentation: S07: Sleep Disorders

Date and Time: Tuesday, April 28, 2:00 p.m., Room 605/610

AAN Foundation/ALS Association Clinician Scientist Development Award

Cosponsored by the ALS Association and the American Academy of Neurology Foundation.

Recipient: Swati Aggarwal, MD

Massachusetts General Hospital, Boston, MA

H. Richard Tyler Award

Sponsored by the American Academy of Neurology and the AAN Archive Committee.

Recipient: Donna C. Bergen, MD, FAAN / Chicago, IL

Kenneth M. Viste, Jr., MD, Patient Advocate of the Year Award

Endowed by gifts from Dr. Viste colleagues, friends, and patients. Recipient: Richard Bedlack, MD, PhD, MSc / Durham, NC

Harold Wolff-John Graham: An Award for Headache/Facial Pain Research

Sponsored by the American Academy of Neurology and endowed by Endo Pharmaceuticals.

Recipient: Mark Obermann, MD / Essen, Germany

Presentation: Integrated Neuroscience Session:

Advances in Headache

Date and Time: Wednesday, April 29, 4:30 p.m., Room 3AB

2009 AAN Clerkship and Program Directors Conference: Faculty and Professional Development

9:00 a.m.-4:00 p.m.

Participants should be able to discuss the principles of adult learning and practical methods of fostering teaching skills; describe processes to document educational credentials for promotion; identify processes, tools, and policies to deal with problem learners; and have a better understanding of financial planning in their residency program.

Registration is required.

Basic Science Resident Curriculum

9:00 a.m.-12:45 p.m.

2:15 p.m.-6:00 p.m.

The resident neuroscience initiative is a three-year basic science curriculum for neurology residents offered at the Annual Meeting. The curriculum is primarily intended to help neurology residents learn the basic sciences on which clinical neurology is founded, as detailed in the Neurology Review Committee (NRC) program requirements for residency education in neurology. Topics that will be covered over the three-year cycle include neuroanatomy, neurophysiology, neuropharmacology, neuropathology, development, and genetics. This curriculum will also help residents prepare for the AAN Residency In-service Training Examination (RITE). This year's program topics include:

1AC.001 Resident Basic Science I: Neurogenetics

1PC.001 Resident Basic Science II: Neurometabolic Disorders

Registration is required.

BRAINS Colloquium: Critical Thinking for Critical Issues

1:00 p.m.-5:00 p.m.

The BRAINS Colloquium is intended to provide attendees with up-to-date information on the "business" of neurology and an opportunity to further develop practice management skill sets. Faculty will address the logistics of taking call and the different call options, implementing an electronic health record, and salary and staffing issues that come along with an atmosphere of declining reimbursement.

Free and open to all registered attendees.

Download Your Syllabi

Obtaining your Education Program syllabi is quicker and easier than ever. All registered attendees will be able to download the full syllabi for your selected programs. Syllabi can be downloaded starting in April. All registered attendees will receive an email notification in April. You can also pick up a printed copy on-site at the room where your program is located, available 30 minutes prior to the start of the program.

Patient Safety Colloquium: Medication Safety Across Your Practice Settings

9:00 a.m.-12:00 p.m.

Empowers neurologists to participate in the implementation of medication safety and understand safety issues related to herbal medication and medication interactions. Additional objectives include learning the value of internet tools and safe prescribing practices. The colloquium enables neurologists to develop patient safety initiatives for patients with neurologic conditions.

Free and open to all registered attendees.

Practice Colloquium: Improving Quality **Through Incentives: Lessons from Model Programs**

1:30 p.m.-4:30 p.m.

Incentivizing quality, or "pay-for-performance (P4P)," has received substantial national emphasis over the past several years. The evidence regarding improved health care efficiency and outcomes has been mixed. The purpose of this Practice Colloquium is to review the best available evidence on P4P, particularly with regard to improving the quality of primary versus specialty (neurologic) care. Specific models of P4P that have shown the most promise in large health care systems will be emphasized.

Free and open to all registered attendees.

NEW New Member Information Session

5:00 p.m.-6:00 p.m.

This first-ever, FREE event is open to all new AAN members who joined the Academy since January 1, 2009. This is your opportunity to learn about your Academy and how to make the most of your benefits, and meet and network with Academy leaders. Refreshments will be served.

Celebration for Research

6:00 p.m.-10:30 p.m.

Join us for an exciting evening filled with music, dancing, laughter and more! Enjoy a lush buffet of Seattle favorites with your friends and colleagues. Extra tickets are available through registration.

Neurobowl®

6:00 p.m.-8:00 p.m.

There is no better way to begin the 61st Annual Meeting than by attending Neurobowl®. Former AAN President Thomas R. Swift, MD, FAAN, hosts another year of competition by the best and brightest in neurology for the enviable Neurobowl title. This popular guiz show focuses on the process of neurological diagnosis with common and rare neurologic case histories, video clips, investigations, and movie segments. Seating is limited and is available on a first-come, first served basis.

NEW! In 2009, Neurobowl will pit brainy gladiators from both sides of the Mississippi to test their knowledge in an all-out neuro-rumble. Participants will be divided into two teams: East versus West. The winners will take on the 2008 Neurobowl champions in a contest of ultimate cerebral fitness!

Sponsored by UCB, Inc.

Main Stage: Josh Blue Brings Down the **House with Big Laughs!**

8:30 p.m.-10:30 p.m.

Celebrated comedian Josh Blue puts the "cerebral" in cerebral palsy. Blue's comedy centers on his experiences living and dealing with cerebral palsy. He exploded onto the national comedy scene by capturing the attention and endearment of the country as the winner of NBC's Last Comic Standing. Having already established himself as one of the most sought after comedians on the college circuit, his weekly appearances on Last Comic in the summer of 2006 made him a national hit. Josh continues to break down stereotypes of people with disabilities one laugh at a time!

Opening for Josh Blue is "classically trained country crooner" Carrie Cunningham, who is quickly becoming a major name on the music scene. Since the release of her debut solo album, Honeysweet, Cunningham has been entertaining audiences worldwide with her heartfelt lyrics both onstage and on the radio.

Sponsored by Teva Neuroscience, Inc.

Neuro Idol

8:00 p.m.-10:00 p.m.

Come see your fellow neurologists take the spotlight and showcase their musical talents. This year will be a cabaret-style show where you can celebrate the hidden musical talents of your colleagues. To sign up or for more information, contact

Erin Jackson at ejackson@aan.com or (651) 695-2704.

Sponsored by the AAN Partners Program

NEW Neuro Hop



8:30 p.m.-10:30 p.m.

Dance the night away to classic hits from today and yesteryear. DJ Kyle spins the tunes. You provide the wild dance moves!

Join us for the

2009 RUN/WALK for Brain Research

Sponsored by Eli Lilly and Company

Tuesday, April 28

6:30 a.m.-8:30 a.m.

Move Your Feet for Research!

Put your legs (and your support) behind research! Join your colleagues for a 5k run or one mile walk along the beautiful Seattle waterfront.

Get Sponsors, Help Us Reach the Finish Line

Friends and family can sponsor your run or walk for a flat donation. Recruit more sponsors to raise more for research. The runner with the most donations receives FREE 2010 Annual Meeting registration.

- Special Prizes also given for Best Male and Female runners!
- · Free Run/Walk T-shirt and refreshments

Proceeds support Clinical Research Training Fellowships in neurology.

What's Provided?

Water and refreshments will be available following the race. The registration fee is \$25. Participants will receive a Run/Walk T-shirt, commemorating the event.



Register Now: www.aan.com/run





INTEGRATED NEUROSCIENCE SESSION: ENDOVASCULAR NEUROLOGY

Sunday, April 26 / 2:00 p.m.-6:00 p.m.

Coordinators: Anthony Furlan, MD, FAAN and Tudor Jovin, MD

Platform Session / 2:00 p.m.-3:30 p.m. / Room 3AB

2:00 p.m. IN1-1.001 Carotid Luminal Diameter Changes One Year after Stenting: Results from the Lead-In Phase of CREST Helmi Lutsep, Kirk Beach, Gary Roubin, Pierre Leimgruber, Brajesh Lal. William Gray, Kenneth Rosenfield, Robert Bergelin, Jenifer Voeks, Mary Longbottom, Robert Hobson, Thomas Brott

2:15 p.m.

IN1-1.002 Measurement of Antiplatelet Inhibition during Neurointerventional Procedures: The Effect of Anti-Thrombotic Duration and Loading Dose Dhruvil Pandya, Brian-Fred Fitzsimmons, Thomas Wolfe, Syed Hussain, Prem Kandiah, Santiago Ortega-Gutierrez, John Lynch. Osama Zaidat

2:30 p.m.

IN1-1.003 Time to Microcatheter for Endovascular Therapy in Acute Ischemic Stroke: A Multicenter Review Jefferson Miley, Muhammad Zeeshan Memon, Haitham Hussein, Douglas Valenta, M. Fareed Suri, Adnan Qureshi

IN1-1.004 Occurrence and Predictors of Futile Recanalization Following Intra-Arterial Thrombolysis among Patients with Acute Ischemic Stroke Haitham Hussein, Alexandros Georgiadis, Gabriela Vazquez, Adnan Qureshi

3:00 p.m.

Predictors of Clinical and Radiographic Outcome in Acute Stroke Patients Treated with Intra-Arterial Therapy Who Achieve Complete Recanalization Mouhammad Jumaa, Ridwan Lin, Aitziber Aleu, Syed Zaidi, Ken Uchino, Tudor Jovin

IN1-1.005

IN1-1.006 Imaging Based Intraarterial Treatment for Acute Anterior Circulation Ischemic Stroke Due to Intracranial Large Vessel Occlusion beyond 8 Hours from Symptoms Onset - Preliminary Multicenter Experience Tudor Jovin, Rishi Gupta, David Liebeskind, Ansaar Rai, Nazli Janjua, Dileep Yavagal, Raul Noguira, UCLA Endovascular Therapy Investigators

Poster Session / 3:30 p.m.-4:30 p.m. / Room 3AB

IN1-2.001 Comparison between Medical Therapy and Endovascular Treatment of the Extracranial Atherosclerotic Vertebral Artery (V1) Stenosis: A Systematic Analysis Muhammad Zeeshan Memon, Robert Taylor, Gabriela Vazquez, Adnan Qureshi

IN1-2.002 Vascular Interventions in Takayasu's Aorto-Arteritis Sanjeev Sivakumar, Sivakumar Rajappa

IN1-2.003 Enhanced Leptomeningeal Vessels on Contrast-Enhanced CT May Predict Perfusion-Diffusion Mismatch in Patients with Acute Ischemic Stroke Suh-Yun Hong, Kyung-Hee Cho, Hyuk-Won Chang, Chul-Ho Sohn, Sung-Il Sohn

IN1-2.004 Safety of Drip and Ship IV tPA in Acute Stroke: The University Hospitals-Case Medical Center Experience Vincent Truong, Sophia Sundararajan, Svetlana Pundik, Michael DeGeorgia, Anthony Furlan, Cathy Sila

IN1-2.005 Safety and Outcome of the "Drip and Ship" Paradigm in Acute Ischemic Stroke: A Concurrent Control Study Gustavo Rodriguez, Terry Burns, Jefferson Miley, Alberto Maud, Adnan Qureshi

IN1-2.006 Intravenous Alteplase Prior to Cerebral Angiography Increases the Rate of Groin Hematoma Oriana Cornett, Paresh Lalcheta, Azam Mughni, Osamah Choudry, Steven Hoover, Jawad Kirmani

IN1-2.007 Systolic Blood Pressure Is a Strong Predictor of Vessel Recanalization in Acute Ischemic Stroke Patients Undergoing Thrombectomy: Pooled Analysis of the MERCI and Multi MERCI Trials Raul Noqueira, David Liebeskind, Wade Smith

IN1-2.008 In-Stent Restenosis on Follow-Up Angiography among Patients Treated with Stenting in Acute Ischemic Stroke Ambooj Tiwari, Amit Kansara, Mahmoud Rayes, Chethan Rao, Maggie Jones, Andrew Xavier

IN1-2.009 Timing of Complications Following Intracranial Angioplasty and/or Stent Placement. Implications for Post-Procedural Monitoring Alexandros Georgiadis, Nauman Tariq, Muhammad Zeeshan Memon, Ather Taqui, Adnan Qureshi

IN1-2.010 CT Permeability in Acute Ischemic Stroke Undergoing Recanalization Therapy: Potential and Pitfalls of First-Pass Perfusion Liangfu Zhu, Jeffry Alger, Jeffrey Saver, Sidney Starkman, Doojin Kim, Latisha Ali, Bruce Ovbiagele, Arbi Ohanian, John Panagotacos, Ilya Lekh, Reza Jahan, Satoshi Tateshima, Gary Duckwiler, Fernando Viñuela, David Liebeskind

Invited Speaker Session* / 4:30 p.m.-6:00 p.m. / Room 3AB

4:30 p.m.-4:55 p.m. Extracranial Atherostenosis: Best Medical Care or Stenting Osama Zaidat, MD 4:55 p.m.-5:20 p.m. Intracranial Atherostenosis: Best Medical Care or Stenting Cathy Sila, MD, FAAN

5:20 p.m.-5:45 p.m. Acute Ischemic Stroke Thrombolysis: IV or IA or Both? Rishi Gupta, MD

5:45 p.m.-6:00 p.m. Panel Discussion

International Attendee Summit

7:00 a.m.-9:00 a.m.

This exclusive, free event for international meeting attendees provides an excellent opportunity to socialize and network with your international colleagues, make your voice heard on matters most important to you, and get answers to your most pressing AAN-related questions from Academy leaders. Reserve your space today by contacting Laurie Weyandt at lweyandt@aan.com or (651) 695-2799.

State Society Leadership Roundtable

7:00 a.m-9:30 a.m.

Leadership representatives of state neurological societies are invited to discuss challenges, strategies and practices related to state society creation and maintenance. Discussion will be facilitated by Academy staff. Participants will learn from the experiences of established societies and be introduced to the resources the Academy has to offer.

Education Colloquium: Ethics and Education

9:00 a.m.-12:00 p.m.

The ethical dimensions of medical practice have grown exponentially over the past several decades, with neurologists often playing a central role in the identification of ethical issues and developing guidelines for care based on ethical, scientific, and clinical principles.

Attend the Education Colloquium to learn about ethics education; the influence of the clinical environment and culture on the ethical behavior of students, residents, faculty, and practitioners; the essentials of an ethics curriculum and an exploration of a variety of ways to teach ethics; and medical practice and the structure and purpose of health law.

Free and open to all registered attendees.

Kenneth M. Viste, Jr., MD, Neurology Public Policy Fellowship Information Session

12:00 p.m.-1:00 p.m.

The Kenneth M. Viste, Jr., MD, Neurology Public Policy Fellowship provides an excellent opportunity to gain hands-on experience in federal policy and develop political relationships that help promote the interests of neurology. Meet with past fellows and selection committee members to learn more about the year long paid fellowship in Washington, DC, offered by the AAN Professional Association, the American Neurological Association, and the Child Neurology Society.

Ethics Colloquim

12:30 p.m.-2:00 p.m.

In the interest of creating a dialog with AAN membership on pending ethics policies and current ethics topics, the 2009 Ethics Colloquium will be held on Monday, April 27, from 12:30 p.m. to 2:00 p.m. The Ethics Colloquium will be open to all AAN members and interested non-members. Membership will be afforded the opportunity to introduce emerging ethical issues for discussion and will be invited to comment on a proposed policy concerning the ethical and legal aspects of neurological enhancement, which will be presented by members of the Ethics, Law and Humanities Committee.

Free and open to all registered attendees.

Guidelines, Practice, and Advocacy Open House: Featuring Digital Demos

3:00 p.m.-5:30 p.m.

Get tools and advice to help you succeed in practice. View posters of recent guidelines on controversial clinical issues and discuss the conclusions with the authors. Learn more about advocacy, coding, maximizing reimbursement, effective practice management, performance improvement, and patient safety.

Digital Demos: Technology Solutions That You Can Afford

Attend the "Digital Demos" presentation, where your fellow neurologist colleagues will present low-cost, easy-to-implement, electronic office solutions that can help move your practice into the 21st century and take advantage of Medicare PQRI bonuses.

ABPN Resident Informational Session

5:00 p.m.-6:30 p.m.

This is an interactive opportunity for residents and fellows to meet members of the ABPN. The panel will discuss all aspects of the neurology boards and what is expected from candidates. Free and open to all interested persons.

MONDAY, APRIL 27 HIGHLIGHTS

Student Interest Group in Neurology (SIGN) Meeting

5:30 p.m.-6:30 p.m.

Student and faculty representatives from existing SIGN chapters and those interested in starting chapters will gather for presentations and discussions.

Exhibit Hall Opening Reception

5:00 p.m.-7:00 p.m.

Washington State Convention and Trade Center, Exhibit Halls 4B–4F

Attend the opening reception to mingle with fellow attendees and preview the latest products and services available in the neurological industry. Light hors d'oeuvres and beverages will be served. The exhibits will be open at this time.

Sponsored by EMD Serono, Inc. / Pfizer Inc

Residents and Fellows Career Forum and Reception

6:30 p.m.-9:00 p.m.

This career night for residents and fellows features three panel rooms including fellowship, private practice, and academic/ research, as well as a poster forum and reception that includes exhibits of private practice groups and opportunities to learn about potential positions from headhunters. Advertisers in AAN Dendrite™ Careers in Neurology will also be on hand to discuss job opportunities.

Sponsored by Teva Neuroscience, Inc.

Panel Forums

6:30 p.m.-7:30 p.m.

Fellowship Panel

Find out how to search for a fellowship, how program directors select fellows, and how a fellowship could benefit your career.

Academic/Research Panel

Find out how to start a career in academics/research.

Private Practice Panel

Find out how to start a career in private practice.

Poster Forum and Reception

7:30 p.m.-9:00 p.m.

Socialize with other residents and representatives from various neurology programs and address questions regarding fellowships, academic research, and private practice career opportunities.

NEW International Component Posters

Neurology Residency Programs that feature an international element will have the opportunity to showcase their programs during the poster forum and reception, and to share information about their international outreach. Neurology Residency Programs that have a formal affiliation with foreign programs that encompass teaching and research are encouraged to submit a poster.

For questions about the Residents and Fellows Career Forum and Reception please contact Cheryl Alementi at *calementi@aan.com* or (651) 695-2737.



The Residents and Fellows Career Forum and Reception provides important opportunities for finding your career path in neurology.



Poster sessions attract a wide variety of national and international neurology programs.



Residents and fellows get their questions answered at the Poster Forum and Reception.

INTEGRATED NEUROSCIENCE SESSION: RECENT ADVANCES IN GENETICS AND MOLECULAR **BIOLOGY IN GLOBAL NEUROLOG**

Monday, April 27 / 2:00 p.m.-6:00 p.m.

Coordinators: S. Claiborne Johnston, MD, PhD and Louis J. Ptacek, MD, FAAN

Invited Speaker Session* / 2:00 p.m.-3:30 p.m. / Room 3AB

2:00 p.m.-2:20 p.m. Neurological Disease on the Global Agenda Julie Jacobson

2:20 p.m.-2:40 p.m. The Genetics of Multiple Sclerosis and Global Disease Variation Stephen L. Hauser, MD

2:40 p.m.-3:00 p.m. Neurogenetics: The European Perspective Christine Klein, MD

3:00 p.m.-3:20 p.m. Neurogenetics: The US Perspective Fuki Hisama, MD

3:20 p.m.-3:30 p.m. Discussion and Questions

Poster Session / 3:30 p.m.-4:30 p.m. / Room 3AB

IN2-1.001 A New RAB7 Mutation in a Large French Charcot-Marie-Tooth 2B Family Emmanuelle Salort-Campana. Jean Pouget, Rafaelle Bernard, Michel Magistris, Armand Bottani, Alexis Brice, Philippe Latour

IN2-1.002 Founder Effect and New Mutations of SPG11 in French-Canadian Families Inge Meijer, Judith St-Onge, Jean-Pierre Bouchard, Guy Rouleau, Nicolas Dupre

IN2-1.003 Variable Phenotypic Expression of Rapid Onset Dystonia Parkinsonism in a Newly Discovered Italian Family with a T613M Mutation in the ATP1A3 Gene Richard Barbano, Laurie Ozelius, Debbie Hill, Allison Brashear

IN2-1.004 Environmental Risk Factors and Quality of Life in Leber Hereditary Optic Neuropathy Matthew Kirkman, Alex Korsten, Miriam Leonhardt, Konstantinos Dimitriadis, Ireneaus De Coo, Thomas Klopstock, Philip Griffiths, Gavin Hudson, Patrick Yu-Wai-Man, Patrick Chinnery

IN2-1.005 Neurological Relevance of the Intrathecal Specific Humoral Immune Response Analysis in Dengue Infection Marzia Puccioni-Sohler, Cristiane Soares, Regina Alvarenga, Luiz Faria, Mauro Castro, José Peralta

IN2-1.006 A Large Number of SACS Mutations Are Responsible for ARSACS in the French-Canadian Population Isabelle Thiffault, Martine Tetreault, Julie Demers-Lamarche, Marie-Josee Dicaire, Jean Mathieu, Jean-Pierre Bouchard, Yves Robitaille, **Bernard Brais**

IN2-1.007 Two Novel CYP7B1 Mutations in Italian Families with Autosomal Recessive Spastic Paraplegia: A Clinical and Genetic Study Chiara Criscuolo, Alessandro Filla, Giovanni Coppola, Carlo Rinaldi, Rosa Carbone, Stefano Pinto, Q. Wang, Maria Fulvia De Leva, Elena Salvatore, Mario Quarantelli, Daniel Geschwind, Sabina Pappata, Giuseppe De Michele

IN2-1.008 A Novel Association of ATP-Binding Cassette Family Gene (ABCB1) among South Indian Patients with Epilepsy Abhijit Das, Anila Mathew, Neetha Vijayan, Kurupath Radhakrishnan, Moinak Banerjee

IN2-1.009 Allelic Associations of ANG with Sporadic ALS in Irish and Swedish Patients Julie Phukan. Simon Cronin, David Lynch, Matthew Greenway, William McCormack, Jean Saunders, Peter Andersen, Phil Jakeman, Orla Hardiman

IN2-1.010 IFNβ-Pathway Gene Polymorphisms Influence Response to Multiple Sclerosis Treatment. A European Study Nicolas Couturier, Pierre-Antoine Gourraud, Manuel Comabella, Frank Weber, Bertram Muller-Myhsok, Robert Goertsches, Koen Vandenbroeck, Emilie Schmit, Marc Debouverie, Christine Lebrun-Frenay, Emmanuelle Lepage, Gilles Defer, Thibault Moreau, Sandra Vukusic, Serge Mrejen, Gilles Edan, Florence Bucciarelli, Céline Rabadeux, Laurie Parmentier, Helene Merle, Isabelle Cournu-Rebeix. Claire Gout, Michel Clanet, Bertrand Fontaine. David Brassat

Platform Session / 4:30 p.m.-6:00 p.m. / Room 3AB

IN2-2.002

IN2-2.001 Ongoing Genomewide Association in Familial Intracranial Aneurysm Daniel Koller, Ranjan Deka, Dongbing Lai, Daniel Woo, Laura Sauerbeck, Richard Hornung, Sander Connolly, Craig Anderson, Guy Rouleau, Irene Meissner, Carl Langefeld, Joan Bailey-Wilson, John Huston, Robert Brown, Tatiana Foroud, Joseph Broderick

4:45 p.m.

Toll-Like Receptors Are Critical for Protection Against West Nile Virus Infection Amir Sabouri, Maria Marcondes, Michael Berger, Nengming Xiao, Bruce Beutler, Howard Fox, Nora Sarvetnick

5:00 p.m.

IN2-2.003 Viral Risk Factors of HTLV-1-Associated Myelopathy/Tropical Spastic Paraparesis (HAM/TSP) Amir Sabouri, Kosuke Hanada, Mitsuhiro Osame, Mineki Saito

5:15 p.m.

Parental Consanguinity Is Associated with a Higher Incidence Rate of Progressive Encephalopathy: A Cohort Study Petter Stromme, Pål Suren, Oivind Kanavin, Terje Rootwelt, Berit Woldseth, Michael Abdelnoor, Per Magnus

5:30 p.m.

IN2-2 004

Epistasis among HLA-DRB1, HLA-DQA1 and HLA-DQB1 Loci **Determines Multiple Sclerosis** Susceptibility Matthew Lincoln, Sreeram Ramagopalan, Michael Chao, Blanca Herrera, Gabriele DeLuca, Sarah Orton, David Dyment, A. Sadovnick, George Ebers

5:45 p.m.

IN2-2.005

Phenotypic Spectrum of Laing Distal Myopathy in Four Spanish Families with Lys1729del Mutation Nuria Muelas, Peter Hackman, Helena Luque, Mercedes Garcés, Inmaculada Azorín, Tiina Suominen, Teresa Sevilla, Fernando Mayordomo, Lorena Perpiñán, José María Millán, Bjarne Udd, Juan Vilchez Padilla

IN2-2.006

TUESDAY, APRIL 28 HIGHLIGHTS

Run/Walk For Brain Research

Sponsored by Eli Lilly and Company.

6:30 a.m.-8:30 a.m.

Support research in neurology and join us for a 5k run or one mile walk by the scenic waterfront in downtown Seattle. Whether you're an occasional or seasoned runner, or just enjoy a walk, you'll enjoy this beautiful trek—for a good cause. All proceeds go to support Clinical Research Training Fellowships in neurology.

The race is open to all meeting attendees and their families. Water and refreshments will be available following the race. The registration fee is \$25. Friends and family can sponsor your run or walk for a flat donation. Recruit more sponsors to raise more for research. The runner with the most raised receives FREE 2010 Annual Meeting registration.

Bus service to and from the race site will be provided. For registration and details, visit www.aan.com/go/am/foundation/run or contact Andrew Halverson at ahalverson@aan.com or (651) 695-2757.

Palatucci Advocacy Action Planning Roundtable

7:00 a.m.-9:30 a.m.

Now a tradition, the Action Planning Roundtable returns to provide Palatucci Advocacy Leadership Forum graduates a chance to share with their peers the challenges and successes they've encountered while implementing their action plans. Graduates from all years are encouraged to attend.

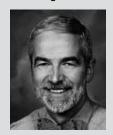
Poster Session I

7:00 a.m.-10:00 a.m.

Presidential Plenary Session

9:00 a.m.-12:00 p.m.

Washington State Convention and Trade Center, Exhibit Hall 4A



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

The Presidential Plenary Session features the Academy's premier lecture awards for clinically relevant research and a presentation by a leading lecturer. Top researchers speak on some of the most significant findings in neurology in 2008. The session concludes with the annual AAN Business Meeting.

Lectures include:

Presidential Lecture



Doctoring, 2009, Embracing the Challenge Stephen M. Sergay, MB BCh, FAAN Tampa Neurology Associates, Tampa, FL

Robert Wartenberg Lecture



Cognitive Motor Disorders: The Apraxias Kenneth M. Heilman, MD, FAAN University of Florida, Gainesville, FL

H. Houston Merritt Lecture



"Evidence" and the Effective Clinical Neurologist

Louis R. Caplan, MD, FAAN Beth Israel Deaconess Medical Center, Boston. MA

Get Involved in Your Academy and Professional Association

Stay for the AAN/AAN Professional Association annual Business Meeting immediately following the final lecture to find out the latest on Academy business and information. Meeting will take place in Room 210 of the Washington State Convention and Trade Center.

Poster Session II

11:30 a.m.-2:30 p.m.

Exhibits

11:30 a.m.-5:00 p.m.

Complimentary luncheon: 12:00 p.m.-2:00 p.m.

Washington State Convention and Trade Center, Exhibit Halls 4B–4F

See the latest in pharmaceutical products, medical equipment, publications, and products to assist with practice management, teaching methods, and research activities.

Level I Certification for the NINDS Clinical Research Collaboration

1:00 p.m.-3:00 p.m.

The NINDS Clinical Research Collaboration (CRC) is designed to connect patients, their physicians, and communities to high-quality research. This course will provide participants with basic research training required as a first step for participation in NINDS-sponsored research through the CRC. Participants will be presented with a provocative review of ethical issues faced when conducting research involving human subjects and will be presented with the essentials of performing research using good clinical practices. Specific information on the steps needed to connect you and your patients to NINDS sponsored-research through the CRC will be provided.

Poster Session III

4:00 p.m.-7:30 p.m.

Hot Topics Plenary Session



5:15 p.m.-6:15 p.m.

Washington State Convention and Trade Center, Exhibit Hall 4A

Moderator: Raymond P. Roos, MD, FAAN Chair, Basic Science Subcommittee

This session highlights important and interesting abstracts presented at subspecialty meetings leading up to the

Annual Meeting that are not on the program but should be heard by a wide audience at the Annual Meeting. Topics are selected by the AAN Science Committee and AAN Scientific Program Subcommittee.

Lectures include:



"Progranulin, MicroRNAs and Neurodegeneration"

Rosa Rademakers, PhD Mayo Clinic – Florida Jacksonville, FL



"Induced Pluripotent Stem (iPS) Cells from a Patient with Spinal Muscular Atrophy: Implications for Neurology"

Clive Svendsen, PhD University of Wisconsin Madison. WI



"Progressive Multifocal Leukoencephalopathy: Lessons from AIDS and the Newer Biologic Agents"

Joseph R. Berger, MD, FAAN University of Kentucky Lexington, KY



"Deep Brain Stimulation Dogma: Fact or Fiction. Results from Randomized Clinical Trials"

Jerrold L. Vitek, MD, PhD Cleveland Clinic Foundation Cleveland, OH

Corporate Therapeutic Updates

Sheraton Seattle Hotel Grand Hyatt Seattle The Westin Seattle Hyatt at Olive 8 7:30 p.m.-10:00 p.m.

Five industry-sponsored, non-CME programs will be offered and are open to attendees at no charge. They will provide an opportunity for pharmaceutical companies, device companies, or other neurologic related organizations to share information regarding their current therapies and projects in the pipeline in accordance with standards set for industry by the FDA. See page 30 for more details.



AAN 61st Annual Meeting in Seattle

- > Tuesday, April 28, 2009
- > 7:30 p.m.–10:00 p.m.

Registration is free and open to all registered Annual Meeting attendees.

No CME will be given by any accredited organizations for the programs windustry and cannot affirm claims pertaining to FDA off-label medication, research use of pre-FDA drugs, or other research information that might be discussed.



JOIN US FOR CORPORATE THERAPEUTIC UPDATES

The Industry representatives below invite you to an informational session on therapeutic updates. This program provides you the opportunity to learn about current therapies and projects in the corporate pipeline.

Corporate Therapeutic Updates from:

- Allergan, Inc. Movement Disorders (Cervical Dystonia and Blepharospasm)
- Bayer HealthCare Pharmaceuticals Inc. Multiple Sclerosis
- Eisai Inc./Pfizer Inc Alzheimer's Disease/Dementia
- Ovation Pharmaceuticals Inc. Movent Disorders (Chorea associated with Huntington's Disesase)
- **Pfizer Inc** Neurologic Pain

Check on-site for locations and updates



*Authors stand by posters.

Tuesday, April 28

Poster Session I 7:00 a.m. –10:00 a.m. 7:00 a.m. –8:30 a.m.*

Poster Session II 11:30 a.m.–2:30 p.m. 12:00 p.m.–1:30 p.m.*

Poster Session III 4:00 p.m.–7:30 p.m. 6:00 p.m.–7:30 p.m.*

Wednesday, April 29

Poster Session IV 7:00 a.m.-10:00 a.m. 7:00 a.m.-8:30 a.m.*

NEW Poster Session V 11:30 a.m.–2:30 p.m. 12:00 p.m.–1:30 p.m.*

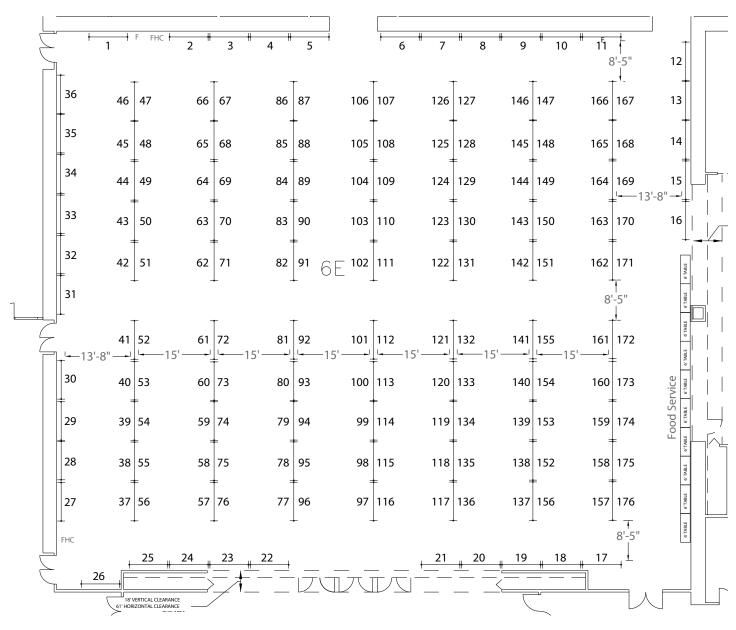
Poster Session VI 4:00 p.m.–7:00 p.m. 5:30 p.m.–7:00 p.m.*

Thursday, April 30

Poster Session VII 7:00 a.m.-10:00 a.m. 7:00 a.m.-8:30 a.m.*

Poster Session VIII 11:30 a.m.–2:30 p.m. 12:00 p.m.–1:30 p.m.*

Poster Session IX 4:00 p.m.–7:00 p.m. 5:30 p.m.–7:00 p.m.*



POSTER SESSION I

Aging and Dementia: Other I

P01.001 Cognitive Control Correlates with Right Inferior Frontal Gray Matter Volume *Victor Laluz, Anne Bird, John Neuhaus, Mary Widmeyer, Bruce Miller, Joel Kramer*

P01.002 Dissociable Executive Control Networks in Frontotemporal Lobar Degeneration Alea Khan, Corey McMillan, David Libon, Delani Gunawardena, Lauren Massimo, Brianna Morgan, Lauren Richmond, Chivon Powers, William Hu, Murray Grossman

P01.003 Quantitative Analysis of Electroencephalography in Patients with Alzheimer's Disease and Amnestic Mild Cognitive Impairment Jee Hoon Roh, Moon-Ho Park, Kun-Woo Park, Dae-Hee Lee, Deokwon Koh, Ki-young Jung

P01.004 Semantic Memory Associated with the Left Anterior Temporal Lobe *Kari Haws, Joel Kramer, Victor Laluz, Bruce Miller, Howard Rosen, Matthew Growdon, Jung Jang, Michael Weiner*

P01.005 The Presence of TDP-43 Inclusions in Cognitively Intact Individuals with Minimal Pathological Findings *Brittany Dugger, Zeshan Ahmed, Keith Josephs, Joseph Parisi, Dennis Dickson*

P01.006 CSF Tau Form Ratio and MRI Midbrain Measure To Identify Progressive Supranuclear Palsy Barbara Borroni, Matteo Malinverno, Fabrizio Gardoni, Antonella Alberici, Chiara Agosti, Lucilla Parnetti, Enrico Premi, Ubaldo Bonucceli, Mario Grassi, Daniela Perani, Paolo Calabresi, Monica Di Luca, Alessandro Padovani

P01.007 Caudate Atrophy in TDP-43 Negative FTLD-U Versus Other FTD Forms *Harro Seelaar, Kirsten Klijnsma, Asma Azmani, Aad van der Lugt, John van Swieten*

P01.008 Efficacy and Tolerability of Memantine (20 mg) in Behavioral Variant of Frontotemporal Dementia: Double-Blind, Parallel Group, Placebo-Controlled Trial Martine Vercelletto, Claire Boutoleau-Bretonniere, Christelle Volteau, Michele Puel, Sophie Auriacombe, Marie Sarazin, Bernard Michel, Philippe Couratier, Catherine Thomas-Anterion, Patrice Verpillat, Lucette Lacomblez

P01.009 Validation of the Telephone Interview of Cognitive Status-Modified (TICSm) Scores in Normal Cognition, Mild Cognitive Impairment (MCI) and Dementia David Knopman, Rosebud Roberts, Yonas Geda, Vernon Pankratz, Ruth Cha, Bradley Boeve, Walter Rocca, Ronald Petersen

P01.010 Ratio Tau/Abeta42 Discriminates Alzheimer's Disease and Frontotemporal Dementia with High Specificity Leonardo De Souza, Foudil Lamari, Bernard Hainque, Caroline Houillier, Claude Jardel, Isabelle Le Ber, Bruno Dubois, Marie Sarazin

Neurogenetics and Gene Therapy I

P01.011 FLAG Tagged Micro-Dystrophin Provides Translational Opportunities for Gene Delivery to Non-Human Primates (NHPs) Louise Rodino-Klapac, Chrystal Montgomery, William Bremer, Kim Shontz, Katie Campbell, K. Clark, Jerry Mendell

P01.012 ProSavin® a Lentiviral Vector Delivering the Genes for Dopamine Biosynthesis Is Safe in Patients with Parkinson's Disease: Early Report Philippe Remy, Jean-Marc Gurruchaga, Gilles Fénelon, Emma Stratful, Bechir Jarraya, Hélène Lepetit, Jean-Pascal Lefaucheur, Patrice Dolphin, Inanna Gabriel, Kou Abhay, Sonia Lavisse, Aurélie Kas, Anne-Laure Ramelli, Scott Ralph, Pierre Brugières, Philippe Hantraye, Susan Kingsman, Kyriacos Mitrophanous, Stephane Palfi

P01.013 Hereditary Optic
Neuropathies Share a Common
Mitochondrial Coupling
Defect Christophe Verny, Patrizia
Amati-Bonneau, Arnaud Chevrollier,
Virginie Guillet, Dominique Loiseau,
Naig Gueguen, Marianne Pou de
Crescenzo, Marc Ferre, Helene
Dollfus, Sylvie Odent, Dan Milea, Cyril
Goizet, Vincent Procaccio, Frédéric
Dubas, Pascal Reynier, Dominique
Bonneau

P01.014 A Novel Dominant C240Y Mutation in GDAP1 Associated with a Mitochondrial Complex I Deficiency and Mitochondrial Structural Modifications Julien Cassereau, Christophe Verny, Arnaud Chevrollier, Naïg Gueguen, Marc Ferre, Marie-Claire Malinge, Patrizia Amati-Bonneau, Vincent Procaccio, Pascal Reynier, Frédéric Dubas, Dominique Bonneau

P01.015 A Newly Identified Family with Spinocerebellar Ataxia Type 4 Presenting with Early Sensory Neuronopathy and Mild Cerebellar Involvement Matthew Harms, Joanna Jen, Muhammad Al-Lozi, Alan Pestronk, Robert Baloh

P01.016 Autosomal Recessive Cerebellar Ataxias in Tunisia: Molecular Aspects Faycal Hentati, Ghada El Euch-Fayache, Yosr Bouhlal, Mourad Zouari, Mounir Kefi, Rim Amouri P01.017 Novel TARDBP Mutations in Amyotrophic Lateral Sclerosis Jianhua Yan, Faisal Fecto, Erdong Liu, Wenjie Chen, Nailah Siddique, Sandra Donkervoort, Teepu Siddique

P01.018 Length of the Normal (CAG) Allele at MJD1 Modulates Age at Onset in Machado-Joseph Disease Marcondes França, Jr., Anelyssa D'Abreu, Cláudia Maurer-Morelli, Luciana Bonadia, Marilza Silva, Anamarli Nucci, Vanessa Emmel, Mariana Kiehl, Laura Jardim, Maria Luiza Saraiva-Pereira, Iscia Lopes-Cendes

P01.019 Arginine:glycine Amidininotransferase Deficiency: A Treatable Encephalomyopathic Syndrome Ashok Verma, Klaas Wierenga

P01.020 Introduction of the TYMP Gene in Thymidine Phosphorylase (TP) Deficient Cell Lines Using Lentiviral Vectors Restores TP Activity: Prospects for Therapy of MNGIE (Mitochondrial Neurogastrointestinal Encephalomyopathy) Javier Torres, Alba Gómez, Herena Eixarch, Antoni Andreu, Jordi Barquinero, Ramon Martí

P01.021 Mutation Screening of ARHSP-TCC Patients Expands the Spectrum of SPG11 Mutations Carlo Casali, Paola Denora, Alessandra Tessa, Roberto Di Fabio, Kostantinos Michailidis, Maria Teresa Dotti, Antonio Federico, Chiara Criscuolo, Francesco Pierelli, Fernando Kok, Giovanni Stevanin, Alexis Brice, Filippo Santorelli

P01.022 Mutations in TACO1 Cause Juvenile-Onset Leigh-Syndrome with Optic Atrophy Rita Horvath, Woranontee Weraarpachai, Hana Antonicka, Florin Sasarman, Jill Kolesar, Jürgen Seeger, Bertold Schrank, Hanns Lochmueller, Brett Kaufman, Eric Shoubridge

P01.023 Direct Resequencing of Candidate Genes in Late-Onset Parkinson's Disease Cases Jean-Baptiste Riviere, Judith St-Onge, Karl Grenier, Patrick Dion, Edward Fon, Guy Rouleau, Nicolas Dupre

Metabolic and Mitochondrial Myopathies

P01.024 Myopathic Form of Phosphoglycerate Kinase (PGK) Deficiency: A New Case and Pathogenic Considerations Ronen Spiegel, Estela Area, Hasan Akman, Yoseph Horovitz, Salvatore DiMauro

P01.025 A Retrospective Review of Myoadenylate Deaminase Deficiency (MDD) and the Efficacy of D-ribose Therapy *Thomas Brennan, Sakir Gultekin, Edward Cupler*

P01.026 Generation and Phenotypic Characterization of a Knock-in Mouse Model of McArdle Disease Antoni Andreu, Gisela Nogales-Gadea, Tomas Pinós, Ramon Martí, Salvatore DiMauro, Hasan Akman, Alejandro Lucía, Miguel Angel Martín, Joaquin Arenas

P01.027 Increase of Skeletal Muscle Lactate Production during Exercise in Patients with McArdle Disease Nicolai Preisler, Mette Cathrine Orngreen, Tina Jeppesen, Tanja Taivassalo, Simon Hauerslev, Katja Heinicke, Ronald Haller, John Vissing, Gerrit van Hall

P01.028 Exercise-Induced Lactate Production Is Paralleled by Enhanced Lactate Oxidation in Patients with Mitochondrial Myopathy *Tina* Jeppesen, Mette Orngreen, Gerrit van Hall, John Vissing

P01.029 Deficiency of the Iron-Sulfur Cluster Scaffold Protein, ISCU: Pathophysiology of a Distinctive Mitochondrial Myopathy *Ronald Haller, Katja Heinicke, Karen Ayyad, Wing Hang-Tong, Tracey Rouault*

P01.030 Relationship between Metabolic Rate Measurements, Mitochondrial Protein Chemistry, and Mitochondrial DNA (mtDNA) Mutations Lauren Hyams, Genevieve Langley, John Shoffner

P01.031 MTERF2 Is a Novel Mitochondrial Transcription Factor That Modulates Oxidative Phophorylation In Vivo Corneliu Luca, Tina Wenz, Carlos Moraes

P01.032 Short- and Long-Term Effects of Training in Patients with Mitochondrial Myopathy *Jabin Rafiq, Tina Jeppesen, Morten Dunø, Marianne Schwartz, Flemming Wibrand, Thomas Krag, John Vissing*

P01.033 MELAS: Clinical Features, Muscle Biopsy and Molecular Genetics Paulo Lorenzoni, Rosana Scola, Cláudia Kay, Raquel Arndt, Aline Freund, Isac Bruck, Mara Santos, Lineu Werneck

Autoimmune, Toxic, and Inclusion Body Myopathies

P01.034 Pathomechanisms of sIBM: Overexpression of APP and Pro-Inflammatory Cell-Stress in Skeletal Muscle Cells Jens Schmidt, Ellen Gerhardt, Stephan Sehmisch, Marinos Dalakas, Konstanze Barthel

P01.035 TDP-43 Is an Autophagy Substrate in Sporadic Inclusion Body Myositis Jianhua Yan, Shahzad Zafar, Janice Caliendo, Faisal Fecto, Robert Sufit, Senda Ajroud-Driss, Teepu Siddique

- **P01.036** BACE1-Inhibition Reduces Pro-Inflammatory Cell-Stress and Accumulation of β-Amyloid in Skeletal Muscle Cells: Implications for sIBM Konstanze Barthel, Niels Kruse, Christian Behl, Mathias Bähr, Jens Schmidt
- P01.037 Clinical and Immunological Features of Inflammatory Myopathy (IM) in Patients with Myasthenia Gravis (MG) Shigeaki Suzuki, Kimiaki Utsugisawa, Hiroaki Yoshikawa, Masakatsu Motomura, Shiro Matsubara, Kazumasa Yokoyama, Yuriko Nagane, Takahiro Maruta, Masataka Kuwana, Norihiro Suzuki
- P01.038 Classic Prion Protein,
 Alzheimer Aβ, Superoxide Dismutase
 1, and Nitric Oxide Synthase 1,2
 Pathology and Inclusion Body
 Myositis-Like Muscle Degeneration
 in an Animal Model of Systemic
 Pathophysiology in Diabetes: An In
 Situ and Quantitative Biochemical
 Analysis Peter Frederikse, Claudine
 Bitel, Yicheng Feng, Nizar Souayah
- P01.039 A Clinical, Neurophysiological and Pathological Prospective Study of 52 Patients with Suspected Statin-Induced Myopathy Andoni Echaniz-Laguna, Michel Mohr, Christine Tranchant
- **P01.040** Statin-Induced Autoimmune Myopathy, Similarities with Signal Recognition Particle Antibody Associated Myopathy *Nizar Chahin*
- **P01.041** Analysis of the Plasminogen Activating System during Muscle Fiber Regeneration in Cardiotoxin-Injured Muscle Fibers Kenya Murata, Hideto Miwa, Tomoyoshi Kondo
- **P01.042** A Soluble Activin Type IIB Receptor Facilitates Muscle Recovery from Cardiotoxin-Induced Injury Alan Koncarevic, Samuel Cadena, Dianne Mitchell, Jennifer Lachey, Jasbir Seehra
- **P01.043** Isolated Neck Extensor Myopathy: Is It Responsive to Immunotherapy? *Srikanth Muppidi*, *Sharon Nations*, *Steven Vernino*, *Gil Wolfe*

Channelopathies and Other Inherited Myopathies

- P01.044 Dominantly-Inherited Myotonia Congenita Resulting from Increased Open Probability of the Fast Gate of the Muscle Chloride Channel CLCN1 David Richman, Pang-Yen Tseng, Ricardo Maselli, Tsung-Yu Chen
- **P01.045** Variable Heritability of Truncating CLCN1 Mutations in Myotonia Congenita Randal Richardson, Jack Tarleton, Thomas Bird, Sidney Gospe

- P01.046 Importance of Reduced Sodium Current (INa) and Inward Rectifier Potassium Current (IKir) in Type I Hypokalemic Periodic Paralysis (HypoKPP) and Thyrotoxic Period Paralysis (TPP) Araya Puwanant, Robert Ruff
- **P01.047** Spectrum of Clinical, Serological and CSF Abnormalities in Patients with Positive Voltage-Gated Potassium Channel (VGKC) Antibodies Claudio Mazia, Valeria Salutto, Ricardo Maselli
- **P01.048** Tubulars Aggregates in a Sporadic Case of Stormorken's Syndrome Raul Morales, Dominique Figarella-Branger, William Camu
- P01.049 One Gene, Two Clinical Profiles: Novel GBE1 Mutations in GSD Type IV and Adult Polyglucosan Body Disease Serena Pagliarani, Chiara Marchesi, Costanza Lamperti, Sabrina Lucchiari, Lucia Morandi, Ettore Salsano, Mario Savoiardo, Andreina Bordo, Maurizio Moggio, Giacomo Comi, Davide Pareyson
- **P01.050** OPA1-Related Syndrome Lacking Optic Atrophy *Margherita Milone, Brian Younge, Jing Wang, Shulin Zhang, Lee-Jun Wong*
- **P01.051** Atypical Presentation of Late-Onset Tay-Sachs Disease (LOTS) with Unusual New Mutation, IVS7-7G Ahmed El Dokla, Jeremy Shefner
- P01.052 Holter Monitoring Versus Electrocardiogram (ECG) for the Detection of Cardiac Arrhythmia in Myotonic Dystrophy Type 1 Jackie Whitesell, Jacinda Sampson, Kevin Whitehead
- **P01.053** Absent or Unrecognized Electromyographic Myotonia in Myotonic Dystrophy Type 2 *Nathan Young, Margherita Milone, Jasper Daube*

Autonomic Disorders

- **P01.054** Headache in Familial Dysautonomia Patients *Boris* Shihman, Israel Steiner, Channa Maayan
- **P01.055** Autonomic Testing in Patients with Interstitial Cystitis *Elizabeth Heller, Kevin McNeeley, Amer Alshekhlee, C. Anthony Buffington, Gisela Chelimsky, Thomas Chelimsky*
- P01.056 Co-Morbid Autonomic Disorders in Interstitial Cystitis Elizabeth Heller, Kevin McNeeley, Amer Alshekhlee, C. Anthony Buffington, Gisela Chelimsky, Thomas Chelimsky

- P01.057 Myocardial Sympathetic Innervation in Patients with Painful Small Fiber Polyneuropathy with Impaired Glucose Tolerance Osvaldo Nascimento, Jader Azevedo, Marcos De Freitas, Giseli Quintanilha, Marco Antonio Leite, Marco Orsini
- P01.058 Cardiovascular Autonomic Evaluation in Patients with Idiopathic Painful Small Fiber Neuropathy Bruno Coutinho, Osvaldo Nascimento, Vitor Zenha. Eduardo Cavalcante
- **P01.059** Insulin Neuritis: Can Excessive Glucose Control Impair Autonomic Function? *Christopher Gibbons, Roy Freeman*
- P01.060 Paraneoplastic Autonomic Neuropathy and Multifocal Demyelinating Neuropathy in Association with Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma David Younger, Mark Weiss, David Silverman
- P01.061 Valsalva Maneuver: Influences of Oral Leak Size and Expiratory Strain Duration Ramesh Khurana, Deepika Mittal, Alex McArthur, Norman Dubin
- P01.062 Evaluation of a Novel Non Model Driven Assessment of Cardiac Autonomic Activity: Response to Combined Graded Orthostatic and Heat Stress Ronald Schondorf, Julie Benoit, Marion Genoulaz, Melvyn Lafitte
- P01.063 Dynamic Retinal Autoregulation during Handgrip and Cold Hand Test: Bayliss Effect Made Visible In Vivo Helen Hanso, Susanne Jaehne, Walthard Vilser, Heinz Reichmann, Tjalf Ziemssen
- **P01.064** Vasomotor and Sudomotor Changes in a Human Model of Small Fiber Neuropathy *Ben Illigens, Christopher Gibbons, Roy Freeman*
- **P01.065** Progesterone Alters Schwann Cell Growth in Culture *Katherine Pollard, Thomas Chelimsky, Liliana Berti-Mattera*
- P01.066 Loss of Dopaminergic Neurons in the Ventral Periaqueductal Gray in Autonomic Synucleinopathies Ann Schmeichel, Brittany Dugger, Gregory Boone, Paola Sandroni, Phillip Low, Joseph Parisi, Eduardo Benarroch
- P01.067 Efficacy and Safety of Botulinum Toxin Type B (Myobloc®) for the Treatment of Sialorrhea in Parkinson's Disease (PD) Edgar Salazar-Grueso, Patrick Hogan, Fernando Pagan, Sharon Reinhard, Eric Pappert, William Birmingham
- **P01.068** Pharmacologic Effects of Repeated Administration of Botulinum Toxin Type B (Myobloc®) on Rat Salivary Glands *Sharon Reinhard*, *Edgar Salazar-Grueso*

Neuro-Oncology

- **P01.069** Fatal Anti-NMDA Receptor Paraneoplastic Encephalitis Due to Microscopic Ovarian Teratoma *Kara Tower, Mark Malkin, Shannon Rathke, Louis Novoa-Takara, Khang-cheng Ho*
- P01.070 Clinical and Immunological Characterization of 104 Patients with Paraneoplastic Limbic Encephalitis: Data from the PNS Euronetwork Roberta Vitaliani, Irene Rosellini, Bruno Giometto, PNS EURONetwork
- P01.071 Cytotoxic Destruction of Cerebellar Purkinje Cells Following Antibody Uptake Is Specific for Anti-Yo Antibody and Does Not Occur with Anticerebellar Antibodies from Ovarian Cancer Patients Who Remain Neurologically Normal John Greenlee, Kenneth Hill, Susan Clawson, Noel Carlson
- **P01.072** Immune Mediated Neurologic Dysfunction as a Paraneoplastic Syndrome in Renal Cell Carcinoma *Vijay Johnson, Norman Friedman, Nairmeen Haller, Christian Hagel*
- **P01.073** Paraneoplastic Antibodies in a General Hospital: An Audit of Positive Cases *Siobhan Kelly, Brian Sweeney, Niamh Bermingham, Catherine Keohane*
- P01.074 Reversible Brain Atrophy in Anti-NMDA Receptor Encephalitis: A Long-Term Observational Study Takahiro lizuka, Shintaro Yoshii, Toshimitsu Ide, Junichi Hamada, Fumihiko Sakai, Shinichi Kan, Josep Dalmau
- **P01.075** Hemorrhagic Stroke (HS) in Patients with Cancer *Jordan Reichman, Daniel Berlin, Babak Navi, Lisa DeAngelis*
- P01.076 Novel Use of Dual Immunomodulation To Treat the Cerebellar Variant of Stiff-Person Syndrome (SPS) Soma Sengupta, Daniel Tarsy, Suriya Jeyapalan
- P01.077 Severe Paraneoplastic Encephalopathy from a Novel Antibody Associated with Occult Metastatic Melanoma Radoslav Raychev, Rimas Lukas, Axel Rosengart, Martin Nicholas, Jeffrey Frank
- P01.078 Paraneoplastic Cerebellar Syndrome with Anti-CV2 Antibodies: A Reversible Disease? Severine Debiais, Isabelle Bonnaud, Denis Saudeau, Bertrand De Toffol
- P01.079 Clinical and Neurophysiological Measurements of Onset and Recovery of Taxane Neuropathies Harry Openshaw, Karen Beamon, Patrick Ventura, Paul Frankel, George Somlo

POSTER SESSION I

- P01.080 Dramatic Improvement of Peripheral Nervous System Manifestations of B-Cell Non-Hodgkin's Lymphoma after Rituximab Therapy Chiara Briani, Renato Zambello, Tiziana Cavallaro, Sergio Ferrari, Marta Lucchetta, Sabine Pollanz, Wolfgang Grisold
- **P01.081** Epilepsy in Treated Brain Tumor Patients Samuel Goldlust, Phillip Amodeo, William Barr, Steven Pacia
- **P01.082** Normal Neural Precursors Have Differential Sensitivity to Commonly Used Chemotherapy Drugs Daniela Bota, Kelsey Albert, Philip Schwartz
- **P01.083** Seizures as an Initial Symptom of Primary and Secondary Brain Tumor: Should We Always Treat Them? Anna Rosati, Alessandro Padovani
- P01.084 Congenital Dumbbell Neuroblastoma Presenting as Paraplegia at Birth: Good Response to Chemotherapy Ngoc Minh Le, Rachel Allen, Tanya Tekautz, Maria D'Netto, Ricardo Rodriguez, Debabrata Ghosh
- **P01.085** Bevacizumab for the Treatment of Radiation Myelopathy *Benjamin Greenberg, Jaishri Blakeley*
- **P01.086** Intra-CSF Trastuzumab in Patients with Neoplastic Meningitis from Breast Cancer or Primary Brain Tumors *Dana Allison, Michael Glantz*
- P01.087 Oligodeoxynucleotides Containing CpG Motifs (CpG-ODNs) in Leptomeningeal Metastases of Solid Tumors: A Phase I Study Renata Ursu, Sophie Taillibert, Claire Banissi, Florence Capelle, Dimitri Psimaras, Irene Coman, Johann Le Guilloux, Catherine Belin, Khe Hoang-Xuan, Antoine Carpentier
- **P01.088** A Unique Case of Angiotropic Lymphoma Mimicking Encephalomyeloradiculoneuritis *Brajesh Agrawal, Fazeel Siddiqui, Rodger Elble*
- P01.089 Pioglitazone Reduced Tumor Size in a Human Xenograft Mouse Model in a Dose Dependent Manner Christian Grommes, Colleen Karlo, Andrew Caprariello, Anne DeChant, D'Arbra Blankenship, Gary Landreth
- **P01.090** Importance of Histology and Grading in Older Glioma Patients Lakshmi Nayak, Fabio Iwamoto, Anne Reiner, Katherine Panageas, Elena Elkin, Lauren Abrey
- **P01.091** Malignant Choroid Plexus Tumors Ana Azevedo, Carla Firmo, Candida Barroso, Afonso Fernandes, Manuela Mafra, Jose Pimentel

- **P01.092** Chloroquine Induces Autophagic Vacuole Accumulation and Cell Death in Human Glioblastoma Multiforme Cell Lines Independent of Their p53 Status *Ying Geng, Latika Kohli, Barbara Klocke, Kevin Roth*
- P01.093 Central Nervous System Tumors in Neurofibromatosis Type 1 José Ruiz-Sandoval, Martha Ornelas-Arana, Monica Norméndez-Martínez, Erwin Chiquete, Guillermo Pérez-Garcia
- P01.094 The Stem Cell Marker prominin-1/CD133 on Membrane Particles in Human Cerebrospinal Fluid Offers Novel Approaches for Studying CNS Disease Hagen Huttner, Martin Köhrmann, Peggy Janich, Stefan Schwab, Denis Corbeil
- **P01.095** Steroid Requirements during Radiotherapy for Malignant Gliomas Athina Marantidou, Christine Levy, Irene Coman, Alyette Duquesne, Johan Leguilloux, Catherine Belin, Antoine Carpentier
- **P01.096** Length of Life Versus Quality of Life (QOL) in Patients with Malignant Primary Brain Tumors: Who Cares and Who Matters? *Dana Allison, Michael Glantz*
- **P01.097** Salvage Chemotherapy with Bevacizumab for Recurrent Alkylator-Refractory Anaplastic Oligodendroglioma *Marc Chamberlain, Sandra Johnston*
- **P01.098** Smoking and Other Risk Factors for Brain Cancer in the Korean Cancer Prevention Study *Grace Kim, Sun Ha Jee, Michael Lim, Ji Eun Yun, Il Soo Park*
- **P01.099** Safety of Moderate Hypothermia in Elective Surgery for Spinal Tumors *Matthew Cummock, Jeremiah Johnson, Michael Wang, Allan Levi, Steven Vanni, Barth Green*
- **P01.100** Temozolomide for Spinal Cord High-Grade Gliomas *Thomas Kaley, Ijah Mondesire-Crump, Lauren Abrev*
- P01.101 Neuroepithelial Intra Medullary Spinal Cord Tumors in Adults: Study of 70 Cases Chantal Campello, Anne Le Floch, Fabrice Parker, Luc Bauchet, Hugues Dufau, Henry Dufour, Marilyne Barrie, Olivier Chinot, Michel Lonjon, Jean Pierre Lejeune, Hugues Loiseau, Jerome Honnorat, Jacques Guyotat, Emmanuel Jouanneau, Gilles Perrin, Pierre Labauge
- P01.102 Non Metastatic Medulloblastoma in Patients over 16 Years of Age: Experience in a Neurological Centre in Argentina Macarena De La Fuente, Sol Cavanagh, Gustavo Sevlever, Alejandro Muggeri, Blanca Diez

Multiple Sclerosis: Immunology I

- P01.103 Reactivation of BK Virus during Natalizumab Therapy in Relapsing Multiple Sclerosis Roisin Lonergan, Cillian De Gascun, Michael Carr, Lisa Costelloe, Jean Fletcher, Suzie Coughlan, Aine Waters, Marguerite Duggan, Katie Doyle, Sinead Jordan, William Hall, Michael Hutchinson, Niall Tubridy
- P01.104 Aberrant Toll-Like Receptor 7 Responses of Plasmocytoid Dendritic Cells in Multiple Sclerosis Marcin Mycko, Mariola Matysiak-Swiderek, Hanna Cwiklinska, Malgorzata Domowicz, Bozena Szymanska, Ewa Tronczynska, Krzysztof Selmaj
- P01.105 Activation of Toll-Like Receptors in Secondary Progressive Multiple Sclerosis *Tali Gritzman*, *Michael Gurevich*. *Anat Achiron*
- P01.106 Genetic Variation and Plasma Level of the Gelatinase A (Matrix Metalloproteinase-2) and Tissue Inhibitor of Metalloproteinase-2 (TIMP-2) in Multiple Sclerosis Yvonne Benešová, Anna Vašku, Zdenek Kadanka, Michal Beránek, Magdalena Hladíková, Pavel Stourac, Josef Bednarík
- **P01.107** Daclizumab Treatment Reduces Activated T Cells: Results from the CHOICE MS Study James Sheridan, Ying Zhang, Valdimir Vexler, Chungchi Wang, Robert Singer, Jacob Elkins, Alice Fong, Meina Tang
- P01.108 The Mechanism of Action behind the Lymphocyte-Depleting and Immunomodulatory Effects of Cladribine Bruno Laugel, John Challier, Christiane Siegfried, Yolande Chvatchko, Catherine Salvat, Robert Weissert
- P01.109 Interferon Beta Treatment Does Not Induce Organ Specific Autoantibodies in Patients with Multiple Sclerosis Til Menge, Nanette Schloot, Matthias Schott, Bernhard Hemmer, Hans Hartung, Bernd Kieseier
- P01.110 Immunological Analysis of a Phase I/II Dose-Escalation Trial of Oral Vitamin D3 with Calcium Supplementation in Patients with Multiple Sclerosis Jodie Burton, Samantha Kimball, Amit Bar-Or, Hans-Michael Dosch, Donald Gagne, Roy Cheung, Cheryl D'Souza, Melanie Ursell, Reinhold Vieth, Paul O'Connor

- P01.111 T Cell Renewal in Glatiramer Acetate-Treated Multiple Sclerosis Patients Marco Chiarini, Ruggero Capra, Alessandra Sottini, Federico Serana, Claudia Ghidini, Cinzia Zanotti, Cinzia Cordioli, Maria Rosa Rottoli, Mauro Zaffaroni, Luisa Imbertii
- **P01.112** Molecular Network of the Comprehensive Multiple Sclerosis Brain Lesion Proteome *Jun-ichi* Satoh, Hiroko Tabunoki, Takashi Yamamura
- **P01.113** Effect of Laquinimod on the Dendritic Cell Compartment *Tal Birnberg, Steffen Jung*
- P01.114 Interferon-β Therapy May Exert a Neuroprotective Effect Via Upregulation of BDNF Secretion from PBMCs of RR-MS Patients through CD40 Dependent Mechanism David Azoulay, Karin Fainberg, Natali Urshansky, Firas Fahoum, Arnon Karni
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P02.068 Digitized Spiral Analysis Distinguishes Parkinson Disease from Normal Controls Kaili Stanley, Richard Lipton, Annie Hsu, Allison Scott, Culing Wang, Marta San Luciano, Paul Soto, William Severt, Susan Bressman, Qiping Yu, Seth Pullman, Rachel Saunders-Pullman P02.069 Neurodegenerative Markers in Cerebrospinal Fluid in Parkinson Disease Hana Vranova, Jan Mares, Martin Nevrly, Petr Kanovsky, David Stejskal

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P02.079 Symmetric Corticobasal Degeneration: An Under-Recognized Entity Anhar Hassan, Bradley Boeve, Joseph Parisi, Dennis Dickson, Keith Josephs

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P02.103 Factors Influencing Anti-Shivering Interventions during Therapeutic Temperature Modulation H. Choi, Luis Fernandez, J. Schmidt, Maxwell Merkow, Stephan Mayer, Kiwon Lee, Jan Claassen, Neeraj Badjatia

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P02.105 Favorable Neurological Outcome Following Hypothermia after Cardiac Arrest Is Associated with Faster Cooling Initiation, Younger Age and Ventricular Fibrillation, but Not Goal Temperature Attainment Time Jack Rose, Evelyn Taverna, Mary Sullivan, Jackie Phan, Christopher Brown, David Tong

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- P02.115 Diagnostic Value of Muscle Fiber Conduction Velocity Measurements in Distinguishing between Myopathy and Neuropathy: Preliminary Study of ICU Acquired Paresis Nam-Hee Kim, Myung-Goo Ji, Min-Jeong Kim
- P02.116 Severe Clinical Deterioration and Hydrocephalus after Lumbar Puncture in a Shunted Patient with Primary Adult Aqueductal Stenosis Vikram Khurana, Marc Dinkin, Steven Feske, Allan Ropper

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- P02.121 Predictors of Multiple Sclerosis Following Clinically Isolated Syndrome with a Tumefactive Demyelinating Lesion Jerome Graber, Ilya Kister, Michael Gruber, Floyd Warren, Harold Weinberg, Andreas Neophytides, Matilde Inglese, David Zagzag, Joseph Herbert
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- P02.155 Mitochondrial, Ehlers-Danlos and CADASIL Features in the Same Family: A Genetic Puzzle or a New Disease Entity? Irene Colombo, Maura Servida, Andreina Bordoni, Patrizia Ciscato, Alessandro Prelle, Giacomo Pietro Comi, Maria Teresa Bassi, Alessandra Bassotti, Maurizia Valli, Nereo Bresolin, Maurizio Moggio, Monica Sciacco
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- P02.157 Posterior Leukoencephalopathy and Brain Endothelial Cell Dysfunction Caused by the Macrolide Roxithromycin Rakefet Tsabari, Sigal Tal, Dvorah Nas, Ramona Aronovich, David Gurwitz, Joab Chapman, Ilan Blatt

- **P02.158** Novel Imaging in Copper Myelopathy Scott Newsome, Daniel Reich, Seth Smith, Peter Calabresi, Benjamin Greenberg
- **P02.159** Successful Treatment of Encephalopathy Associated with Autoimmune Thyroiditis: A Case Report *Rohit Marawar, Earl Zimmerman*
- P02.160 Cerebrovascular Disease Associated with Progressive Systemic Sclerosis (Scleroderma): A Case Series Victor Zach, Kathryn Kirchoff, Colum Amory, John Dengler, Christina Sun-Edelstein, Marina Zvartau-Hind, Gretchen Tietjen, Steven Levine
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- P02.162 Anterior Horn Syndrome Revealing Neurosarcoidosis Nataliya Krivitskaya, Ameer Hassan, Eun-Sook Cho, Sami Khella, Peter Andreas Michas-Martin, Nizar Souayah
- P02.163 Toxic Leukoencephalopathy after Heroin Inhalation:
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- P02.164 Reversible Metronidazole-Induced Cerebellar Toxicity in a Multiple Transplant Recipient *Tracey* Graves, Marie Condon, Marina Loucaidou, Richard Perry

P02.165 Polyarteritis Nodosa-Type Vasculitis Isolated to the Central Nervous System: A First Case Report of a Fulminant Primary CNS Vasculitis Variant Joshua Chern, Doris Kung, Joseph Kass

Headache I

- **P02.166** Short-Term Consistency of Triptan Use: Do Migraineurs Take Triptans When Available to Them? Bozena Katic, X. Henry Hu, Daisy Ng-Mak, Tony Ho, Marcelo Bigal
- P02.167 Nocebo Is the Enemy, Not Placebo. A Meta-Analysis of the Nocebo Effect in Migraine *Dimos Mitsikostas*, *Leonidas Mantonakis*, *Nikolaos Chalarakis*
- **P02.168** IV Ketamine in the Clinic To Treat Cluster Headache *John Claude Krusz*
- **P02.169** Occipital Nerve Blocks: Effect of Symptomatic Medication Overuse and Headache Type on Failure Rate *Joshua Tobin, Nancy Skok, Stephen Flitman*
- **P02.170** Is There a PFO Closure Responsive Migraine Subgroup? *Amy Almaraz, Katherine Noe, David Fortuin, John Sweeney, Richard Lee, David Dodick*
- P02.171 Group Psychotherapy in Chronic Daily Headache with Medication Overuse Silvia Compostella, Cristina Muscio, Elisabetta Venturelli, Paolo Liberini, Renata Rao, Stefano Gipponi, Eluisa Sapia, Alessandro Padovani

- P02.172 Acute Treatment of Medically Refractory Cluster Headache by Electrical Stimulation of the Sphenopalatine Ganglion (SPG) Stewart Tepper, Ali Rezai, Samer Narouze, Andre Machado, Charles Steiner, Jenna Stump, Mehdi Ansarinia
- P02.173 Response to Aspirin in Migraineurs (RAM) Jill Jesurum, Cindy Fuller, Sylvia Lucas, Natalia Murinova, Colleen Truva, Elisa McGee, Mark Reisman
- P02.174 Head-to-Head, Open Label, Randomized, Prospective Short-Term Preventive Treatment Study of Menstrual Migraine with Eletriptan 40mg Versus Sumatriptan 50mg David Dolezil
- P02.175 Neck Pain or Headache: Which Is the Better Predictor of 2-Hour Pain-Free Following Migraine Treatment? Sutapa Ford, Anne Calhoun, Yonghong Nie, Young Truong, Alan Finkel
- P02.176 Levetiracetam in the Treatment of Chronic Migraine: A Multi-Case Report Daniel Kantor, Stephanie Nahas



Residents and Fellows: Put Yourself On a Career Path!

Attend the Residents and Fellows Career Forum and Reception.

Trainees in neurology are invited to attend the Residents and Fellows Career Forum and Reception on Monday, April 27, from 6:30 p.m. to 9:00 p.m. The Forum features three panel rooms including fellowship, private practice, and academic/research. Make a point to attend the poster forum and reception that includes exhibits of private practice groups and opportunities to learn about potential positions from headhunters. Speak with advertisers in AAN Dendrite™ Careers in Neurology about job opportunities. New this year: International Component Posters that showcase international programs. Mark your calendar for this essential event!

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INTEGRATED NEUROSCIENCE SESSION: ALZHEIMER'S, IMAGING, AND BIOMARKERS (ADNI)

Tuesday, April 28 / 1:00 p.m.-5:00 p.m.

Coordinators: Ronald Petersen, PhD, MD, and Michael Weiner, MD

Platform Session / 1:00 p.m.-2:30 p.m. / Room 3AB

1:00 p.m. IN3-1.001
Gray and White Matter Atrophy in
Alzheimer's Disease: A Comparative
Study Using Subjects from the
Alzheimer's Disease Neuroimaging
Initiative (ADNI) Jim Nikelski, Howard
Chertkow, Alan Evans

1:15 p.m. IN3-1.002
The ADAS-cog's Performance as a Measure – Lessons from the ADNI Study: Part 3 – Do the Scale Modifications Add Value? Jeremy Hobart, Holly Posner, Paul Aisen, Ola Selnes, Yaakov Stern, Ronald Thomas, Michael Weiner, John Zajicek, Scott Zeger, Stefan Cano

1:30 p.m. IN3-1.003
Pre– and Clinical Dementia with
Amyloid Deposition Using PIB PET
Imaging Shizuo Hatashita, Hidetomo
Yamasaki

1:45 p.m. IN3-1.004 APOE Status Predicts PiB-Positivity in Nondemented Aging: Evidence for Preclinical Alzheimer's Disease John Morris, Catherine Roe, Mark Mintun 2:00 p.m. IN3-1.005
Mapping Correlations between Serum
Abeta and tau and Hippocampal
Atrophy Measures in 282 ADNI
Subjects Liana Apostolova, Amity
Green, Kristy Hwang, Jonathan Morra,
Jeffrey Cummings, Arthur Toga,
Clifford Jack, Michael Weiner, Paul
Thompson

2:15 p.m. IN3-1.006

Amyloid Beta (Aβ) Effects on
Cognition Are Mediated by Cell
Injury (Tau) and Death (Progressive
Atrophy) Charles DeCarli, David
Drucker, Evan Lloyd, Owen
Carmichael, Evan Fletcher, Dan
Mungas

Poster Session / 2:30 p.m.-3:30 p.m. / Room 3AB

IN3-2.001 ApoE Genotype Is Associated with Rate of Hippocampal Atrophy Independent of Clinical Diagnosis: Data from the ADNI Study Evan Fletcher, Evan Lloyd, David Drucker, Owen Carmichael, Charles DeCarli

IN3-2.002 In Vivo Mapping of Amyloid Toxicity in Alzheimer's Disease Giovanni Frisoni, Marco Lorenzi, Anna Caroli, Nina Kemppainen, Kjell Nagren, Juha Rinne

IN3-2.003 Regional Rates of Brain Atrophy Are Significantly Associated with Rates of Cognitive Decline Even after Adjusting for Clinical Syndrome Dan Mungas, David Drucker, Evan Lloyd, Owen Carmichael, Evan Fletcher, Charles DeCarli IN3-2.004 Quantifying the Correspondence between Tissue Atrophy and Mini-Mental State Exam (MMSE) Scores: Morphometry and Behavior in Alzheimer's Disease Neuroimaging Initiative (ADNI) Subjects Jim Nikelski, Howard Chertkow, Alan Evans

IN3-2.005 Mapping the Progression of Atrophy in Early and Late Onset Sporadic Alzheimer's Disease: A Tensor-Based Morphometry Study Raffaella Migliaccio, Federica Agosta, Bruce Miller, Maria Luisa Gorno-Tempini

IN3-2.006 White Matter Hyperintensities, Incident MRI Infarcts Correlate with Cognition (ADNI Study) Jing He, Evan Fletcher, Oliver Martinez, Owen Carmichael, Charles DeCarli

IN3-2.007 Susceptibility-Weighted Imaging in Mild Cognitive Impairment *Antao Du, E. Mark Haacke*

IN3-2.008 Regional Differences in White Matter Integrity Distinguish Cognitively Normal Late-Middle-Aged Individuals at Increased Genetic Risk for Alzheimer's Disease Adam Fleisher, Leslie Baxter, Kewei Chen, Eric Reiman, Richard Caselli

IN3-2.009 Use of a Monoclonal Anti-Aβ Antibody with Biochemical and Imaging Biomarkers To Determine Amyloid Plaque Load in Patients with Alzheimer's Disease (AD) and Control Subjects *Eric Siemers, Ronald* Demattos, Friedrich Stuart, Robert Dean, Gopalan Sethuraman, Racke Margaret, Danna Jennings, Gilles Tamagnan, Kenneth Marek, John Seibyl, Steven Paul

IN3-2.010 Mapping Hippocampal Atrophy in Mild Cognitive Impairment and Alzheimer's Disease *Liana* Apostolova, Amity Green, Kristy Hwang, Jeffrey Cummings, Arthur Toga, Paul Thompson

Invited Speaker Session* / 3:30 p.m.-5:00 p.m. / Room 3AB

3:30 p.m.- 4:00 p.m. Alzheimer's Disease Neuroimaging Initiative (ADNI) Overview Michael Weiner, MD

4:00 p.m.- 4:30 p.m. Quantitative MRI in ADNI Clifford Jack, MD

4:30 p.m.- 5:00 p.m. FDG PET and PiB Imaging in ADNI William Jagust, MD

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AAN Foundation

WINE TASTING & AUCTION



Wednesday, April 29

7:00 p.m.—9:30 p.m. Grand Ballroom, Sheraton Hotel

Sample some of the finest wines in the Pacific Northwest and enjoy an array of food, music, and fun. Bid on a variety of silent auction prizes including exquisite wine, entertainment, gifts, and more. The evening culminates with an exciting live auction. Proceeds benefit the AAN Foundation Research Program. Limited quantity tickets: \$100 per guest.

Register Now: www.aan.com/wine





S01 Multiple Sclerosis: Epidemiology/Clinical Outcomes/Biomarkers

Room 6B

2:00 p.m. S01.001
Early and Late Smoking as Independent Risk Factors for Multiple Sclerosis: A Case-Control Study Joseph Finkelstein, Eunme Cha, Mitchell Wallin, Walter Royal.

Christopher Bever

2:15 p.m. S01.002
Cognitive and Psychosocial
Features of Childhood
and Juvenile Multiple
Sclerosis: A Reappraisal
after 2 Years Maria Amato,
Benedetta Goretti, Angelo
Ghezzi, Silvia Lori, Valentina
Zipoli, Emilio Portaccio, Lucia
Moiola, Monica Falautano,
Maria De Caro, Mariangela
Lopez, Francesco Patti,
Rosario Vecchio, Carlo
Pozzilli, Valentina Bianchi,

Marco Roscio, Giancarlo

Comi, Maria Trojano

2:30 p.m. S01.003
Pediatric MS before Puberty:
A Distinct CSF Inflammatory
Profile Dorothee Chabas,
Jayne Ness, Eluen Yeh,
Nancy Kuntz, Ivan De
Kouchkovsky, Jonathan
Strober, Bianca WeinstockGuttman, Moses Rodriguez,
Emmanuelle Waubant, NMSS
Network of Pediatric MS
Centers of Excellence

2:45 p.m. S01.004
Serum N-Acetyl-Aspartate
(NAA) Levels Differ in
Neuromyelitis Optica (NMO)
and Multiple Sclerosis
(MS) Carla Tortorella,
Maddalena Ruggieri, Rosaria
Leante, Ceci Edmondo,
Elisabetta Di Monte, Maria
Amato, Angelo Ghezzi,
Alessandra Lugaresi,
Francesco Patti, Patrizia Sola,
Giovanni Zimatore, Pietro
laffaldano, Vita Direnzo,
Paolo Livrea, Maria Trojano

3:00 p.m. S01.005
Retinal Nerve Fiber Layer
Thinning after Acute Optic
Neuritis: Importance of
1 Month Findings Mark
Kupersmith, Gary Mandel,
Susan Anderson, Randy
Kardon

3:15 p.m. S01.006
Exclusive Breastfeeding and the Risk of Postpartum Relapses in Women with Multiple Sclerosis Annette Langer-Gould, Stella Huang, Amethyst Leimpeter, Kathleen Albers, Stephen Van Den Eeden, Lorene Nelson

S02 Aging and Dementia: Epidemiology

Room 6C

2:00 p.m. S02.001
Acceleration of Motor Decline
Predicts MCI up to 12
Years before Onset Teresa
Buracchio, Hiroko Dodge,
Diane Howieson, Dara
Wasserman, Jeffrey Kaye

2:15 p.m. S02.002
Diabetes Mellitus Severity Is
Associated with Subcortical
Infarctions on MRI: The
Mayo Clinic Study of
Aging Rosebud Roberts,
Scott Przybelski, Stephen
Weigand, Kejal Kantarci,
Maria Shiung, Yonas Geda,
David Knopman, Clifford Jack,
Jr., Walter Rocca, Ronald
Petersen

2:30 p.m. S02.003 Lifetime Cigarette Smoking Is Protective for Lewy-Related Pathology Debby Tsuang, Gail Li, Eric Larson, Jane Shofer, Mary Lou Thompson, Walter Kukull, Steve Millard, Paul Crane, James Leverenz, Thomas Montine

2:45 p.m. S02.004
Bilingualism Does Not Protect
Against Dementia or MCI:
Results from the Einstein
Aging Study (EAS) Amy
Sanders, Richard Lipton,
Charlie Hall, Mindy Katz, Joe
Verghese

3:00 p.m. S02.005
The Metabolic Syndrome and Development of Cognitive Impairment among Older Women Kristine Yaffe, Andrea Weston, Terri Blackwell, Kathryn Krueger

3:15 p.m. S02.006
Cognitive Activities Are
Associated with Decreased
Risk of Mild Cognitive
Impairment: The Mayo Clinic
Population-Based Study of
Aging Yonas Geda, Rosebud
Roberts, David Knopman,
Vernon Pankratz, Teresa
Christianson, Bradley Boeve,
Robert Ivnik, Eric Tangalos,
Walter Rocca, Ronald
Petersen

S03 Pathogenesis and Epidemiology of Essential Tremor

Room 6A

2:00 p.m. Presentation of the Movement Disorders Research Award

Sponsored by the American Academy of Neurology, the Parkinson's Disease Foundation, and the AAN Movement Disorders Section and endowed by the Parkinson's Disease Foundation.

Recipient: Mahlon R. DeLong, MD Atlanta, GA

2:30 p.m. S03.003
Striatal Tyrosine Hydroxylase in Autopsied Patients with Essential Tremor Holly Shill, Charles Adler, Thomas Beach, Lih-Fen Lue, Lucia Sue, Nicole Campbell, Douglas Walker

2:45 p.m. S03.004
GABA_A Receptor α1 Protein
Is Increased in the Cerebellar
Cortex of Essential Tremor
Patients Alex Rajput, Can

3:00 p.m. S03.005
Torpedoes in Essential
Tremor, Parkinson's Disease,
Alzheimer's Disease, and
Control Brains Elan Louis,
Phyllis Faust, Jean-Paul
Vonsattel, Lawrence Honig,
Alexander Rajput, Ali Rajput,
Rajesh Pahwa, Kelly Lyons,
Web Ross, Rodger Elble,
Cordelia Erickson-Davis

3:15 p.m. S03.006
Association between Essential Tremor and Dementia:
Population-Based Study in Northern Manhattan Sujata Thawani, Nicole Schupf, Elan Louis

S04 Acute Stroke Care

2:00 p.m. Presentation of the Michael S. Pessin Stroke Leadership Prize

Sponsored by the American Academy of Neurology and endowed by Dr. Pessin's family, friends, and colleagues.

Recipient: Matthew Flaherty, MD Cincinnati, OH

2:15 p.m. S04.002 Impact of Joint Commission Certification of Primary Stroke Centers on the Administration Rate of IV Tissue Plasminogen Activator for Ischemic Stroke Mark Alberts, Jean Range, Ann Watt, Vicki Cantwell, Joe Troy

2:30 p.m. S04.003
Number Needed To Treat To
Benefit and Number Needed
To Harm for IV TPA Therapy
in the 3-4.5 Hour Window:
Joint Outcome Table Analysis
of the ECASS 3 Trial Jeffrey
Saver, James Grotta, David
Liebeskind, Helmi Lutsep,
Lee Schwamm, Phillip Scott,
Sidney Starkman

2:45 p.m. S04.004 Improving Reliability of Stroke Disability Assessment in Clinical Trials and Clinical Practice: The Focused Assessment for the Modified Rankin Scale Jeffrey Saver, Anna Yanes, Bogdan Filip, Scott Hamilton, Robin Conwit, Sidney Starkman, FAST-MAG Investigators and Coordinators FM

3:00 p.m. S04.005 Primary Stroke Centers: Characteristics and Re-Certification Rates *Mark Alberts, M. Hampel, Jean Range*

3:15 p.m. S04.006
Earlier Hospital Arrival
in Acute Stroke Is
Associated with Delayed
tPA Administration Aaron
Izenberg, Frank Silver,
Michael Hill, Moira Kapral,
Leanne Casaubon, Jiming
Fang, Annette Robertson,
David Gladstone

S05 Inflammatory, Necrotizing, and Autophagic Myopathies

Room 606/607

2:00 p.m. S05.001 TDP-43 in Inflammatory Myopathies Bas van Hoeve, Helenius Schelhaas, H. Laak, Baziel Engelen, Benno Küsters

2:15 p.m. S05.002
Signal Recognition Particle
54kD Autoantibody (SRP54IgG) and Accompanying
Autoimmune Necrotizing
Myopathy Identified
Incidentally in Paraneoplastic
Antibody Screening Metha
Apiwattanakul, Andrew
McKeon, Margherita Milone,
Thomas Kryzer, K. Meng Tan,
Sean Pittock, Vanda Lennon

2:30 p.m. S05.003 Natural History of Idiopathic and Post-Exertional Rhabdomyolysis Joshua Alpers, Lyell Jones

2:45 p.m. S05.004
Inhibited Lysosomal Activity in Sporadic Inclusion-Body Myositis (s-IBM) Muscle Fibers Is Associated with Increased Maturation of Autophagosomes and Accumulation of sequestosome1/p62 ("p62") Immunopositive Inclusions Anna Nogalska, Chiara Terracciano, Carla D'Agostino, W. King Engel, Valerie Askanas

3:00 p.m. S05.005
Hypomorphic Alleles of the VMA21 Gene Downregulate the V-ATPase and Cause X-Linked Myopathy with Excessive Autophagy Nivetha Ramachandran, Iulia Munteanu, Peixiang Wang, Pauline Aubourg, Hannu Kalimo, Nicolas Levy, Morris Manolson, Cameron Ackerley, Berge Minassian

3:15 p.m. S05 006 Treatment with Resveratrol, trans-3,4',5-trihydroxystilbene Polyphenol Decreases Amyloid Beta Precursor Protein (AβPP), Amyloid-β (Aβ) Oligomerization and Myostatin in AβPP-Overexpressing Cultured Human Muscle Fibers (AβPP+-CHMF-IBM Model): Relevance to Treatment of Sporadic-IBM Patients Anna Nogalska, Carla D'Agostino, W. King Engel, Valerie Askanas

S06 Multiple Sclerosis: Immunology I

Room 611/612

S06.001 2:00 p.m. Interferon-beta Treatment Increases FoxP3 Expression and CD56bright Natural Killer Cells in Subjects with Multiple Sclerosis Arthur Vandenbark, Jianya Huan, Marissa Agotsch, Dorian LaTocha, Susan Goelz, Halina Offner, Stefan Lanker, Dennis Bourdette

S06.002 2:15 p.m. Interferon Beta (IFNβ)-1b Changes B-Cell Cytokine Secretion Profile and Inhibits Th17 Cell Differentiation Vinod Ramgolam, Danielle Speer, Neelima Choudhary, Silva Markovic-Plese

2:30 p.m. S06 003 Role of the Renin-Angiotensin System in Autoimmune Inflammation of the CNS: Targeting the Angiotensin II Receptor as a New Therapeutic Option in Multiple Sclerosis? De-Hyung Lee, Johannes Steabauer, Silvia Seubert, Gisa Ellrichmann, Stefanie Gaupp, Christian Rump, Ralf Gold, Ralf Linker

2:45 p.m. S06.004 Atacicept Inhibits Disease Activity in a Murine Model of Experimental Autoimmune Encephalomyelitis Katherine Lewis. Pallavur Sivakumar. Shannon Okada, Kristen Bontadelli, Mark Maurer, Hongping Ren, Kimberly Waggie, Jane Gross, Paola Zaratin, Stacey Dillon

3:00 p.m. S06.005 Toll-Like Receptor 7/8 Dysfunction in Patients with Multiple Sclerosis on Natalizumab Nicoline Schiess, Tory Johnson, Peter Calabresi, Avindra Nath

3:15 p.m. S06.006 CD25, a Molecule Linked to MS Susceptibility, Has Important Effects in Initiation and Termination of T Cell Responses in Humans Jehad Edwan, Jayne Martin, Justin Perry, Bibiana Bielekova

S07 Sleep Disorders

Room 605/610

2:00 p.m. Presentation of the Sleep Science Award

Sponsored by the American Academy of Neurology and the AAN Sleep Section and endowed by Cephalon, Inc.

Recipient: Paul Franken, MD Lausanne, Switzerland

S07.002 2:15 p.m. The Transition from REM Sleep Behavior Disorder to Neurodegenerative Disease Ronald Postuma, Jean-Francois Gagnon, Melanie Vendette, Jacques Montplaisir

2:30 p.m. S07.003 Similar Incidences of Augmentation during 26 Weeks of Double-Blind Pramipexole Treatment for Restless Legs Syndrome in Comparison to Placebo Birgit Högl. Diego Garcia-Borreguero, Mandy Sohr, Stefanie Brenner

2:45 p.m. S07.004 The Presence of Sleep Apnea Independently Increases Risk of Death after Acute Ischemic Stroke Meghna Mansukhani, Maria Fernanda Bellolio, Sailaja Enduri, Virend Somers, Latha Stead

S07.005 3:00 p.m. Frequency of Sleep Disorders in the Community-Dwelling Elderly: The Mayo Clinic Study of Aging Jennifer Molano, Bradley Boeve, Rosebud Roberts, Yonas Geda Teresa Christianson David Knopman, Glenn Smith, Robert Ivnik, V. Pankratz, Michael Silber, Tanis Ferman, Ronald Petersen

3:15 p.m. S07.006 Diffusion Weighted Imaging in Narcolepsy with Cataplexy Christoph Scherfler, Birgit Frauscher, Michael Schocke, Viola Gschliesser, Karl Egger, Michael Nocker, Georg Goebel, Werner Jaschke, Werner Poewe, Birgit Högl

S08 Infections/AIDS/ **Prion Disease**

Room 602/603

S08.001 2:00 p.m. Vascular Risk Factors and Human Immunodeficiency Virus Serostatus Convey Different Risks for Cognitive Dysfunction in Gay/Bisexual Men James Becker. Lawrence Kingsley, Joanne Mullen, Bruce Cohen, Eileen Martin, Eric Miller, Ann Ragin, Ned Sacktor, Ola Selnes, Barbara Visscher

2:15 p.m. S08.002 Longitudinal Changes in Psychomotor Speed Test Performance among HIV+ and HIV- Individuals: The Impact of Age and Serostatus Ned Sacktor, Richard Skolasky. Ola Selnes. James Becker, Bruce Cohen, Eileen Martin, Barbara Visscher, Eric Miller

2:30 p.m. S08.003 A Tat-Immune Complex Binds the NMDA Receptor, Preventing Receptor Activation and Excitotoxicity Jeffrey Rumbaugh, Muznabanu Bachani, Wenxue Li, T. Butler, K. Smith. Mario Bianchet. Mark Prendergast, Avindra

2:45 p.m. S08.004 Selective Vulnerability of Dorsal Root Ganglia Neurons in Experimental Rabies after Peripheral Inoculation of CVS-11 in Adult Mice Alan Jackson, Lena Hsu, John Rossiter

3:00 p.m. S08.005 Neurocysticercosis: Relationship between Taenia Antigen Levels in Cerebrospinal Fluid and Magnetic Resonance Imaging Ronaldo Abraham, José Livramento, Cláudia Leite, Alessandra Pardini, Adelaide Vaz, Luís Machado

3:15 p.m. S08.006 Ultrasonography in Ulnar Neuropathy at the Elbow: Differences between Entrapment and Leprosy Marcos De Freitas. Ana Alice Carvalho, Osvaldo Nascimento, Fabiano Baiao, Fernando Cardoso, Tânia Escada, Maria Nevares, Myrian Hahn

S09 Clinical **Neurophysiology:** Intraoperative Monitoring, Evoked Potential, and Basic **Science**

Room 613/614

S09.001 2:00 p.m. Competition between Neurons in the Same Superior Colliculus Facilitates Saccade Target Selection Gregory Day, Martin Paré

2:15 p.m. Microelectrode Recording Is Critical for Successful STN DBS Surgery Monica Kurtis, Whitney Smith, Qiping Yu, Robert Goodman, Guy McKhann, Linda Winfield. Blair Ford, Seth Pullman

2:30 p.m. S09.003 Predictive Value of Brainstem Auditory Evoked Potentials (BAEPs) in Decreasing Post Operative Neurological Deficit during Expanded Endonasal Approach (EEA) to Skull Base Surgeries Parthasarathy Thirumala, Paul Gardner. Amin Kassam, Daniel Prevedello, Kelly Wichman, Miguel Habeych, Donald Crammond, Carl Snyderman, Ricardo Carrau, Jeffery Balzer

2:45 p.m. Predictive Value of Spontaneous Electromyography (S-EMG) Monitoring of Lower Cranial Nerves (CN V, VII-XII) during Expanded Endonasal Approach (EEA) to Skull Base Surgeries Parthasarathy Thirumala, Paul Gardner, Amin Kassam, Donald Crammond, Miguel Habevch. Kelly Wichman, Daniel Prevedello, Carl Snyderman, Ricardo Carrau, Jeffery Balzer

S09 004

S09 005 3:00 p.m. The Impact of Age on the Multifocal VEP in a Healthy Elderly Population: Findings from the Myelin and Aging Study Christopher Songster. Caroline Racine, Reva Wilheim, Bruce Miller, Stephen Hauser, Ari Green

509 006 3:15 p.m. Somatosensory Cortex Activation Changes after Botulinum Toxin Type A Injections in Post-Stroke Spasticity Martin Nevrly, Robert Opavsky, Pavel Otruba, Hana Vranova, Petr Hlustik, Petr Kanovsky

S10 Neuro-Oncology

Room 604

S10.001 2:00 p.m. Glioblastoma in the Elderly: The Memorial Sloan-Kettering Cancer Center Experience (1997-2007) Fabio Iwamoto. Anna Cooper, Anne Reiner, Lakshmi Nayak, Lauren Abrey

2:15 p.m. S10.002 Leptomeningeal Spread of Malignant Glioma during Treatment with Bevacizumab (Avastin) Dilpreet Kaur, Karen Black, Andrea Olsen, Alexis Demopoulos

2:30 p.m. S10.003 Magnetic Resonance Imaging with Perfusion Sequence in the Analysis of Patients Undergoing Treatment for High Grade Glioma: Correlation with Outcome Pamela New. Yvonne Kew, Sanjay Singh, Suzanne Powell

2:45 p.m. S10.004 Assessment of the Location and Characteristics of MRI Contrast Enhancement. Radiation Dose-Volume Parameters and Magnetic Resonance Spectroscopy in Histologically Proven Cerebral Radiation Necrosis Lisa Rogers, Christina Tsien, Randy Ten Haken, Paul McKeever, Augusto Elias, Larry Junck, Pia Sundgren

3:00 p.m. S10.005 Salvage Chemotherapy with Bevacizumab for Recurrent Alkylator-Refractory Anaplastic Astrocytoma Marc Chamberlain, Sandra .lohnston

3:15 p.m. S10.006 The Safety of Therapeutic Anticoagulation for Deep Venous Thrombosis/ Pulmonary Embolus (DVT/ PE) and the Risk of Recurrent DVT/PE in Glioma Patients Receiving Bevacixumab-Based Therapy: The CNOG Experience Lisa Rogers, Mark Malkin, Sherrell Bertoni, Pat Lada, Hendrikus Krouwer, Larry Junck, James Froehlich, Martin Nicholas, Nina Paleologos

S11 Multiple Sclerosis: Clinical Therapeutics and Interventions

Room 6B

3:45 p.m. S11.001

VLA-4 Antisense – An Oligonucleotide Targeting VLA-4 mRNA (ATL1102) Significantly Reduces New Active Lesions in Patients with RR-MS Volker Limmroth. Frederik Barkhof, Nuket Desem

4:00 p.m. S11.002

Randomized Double-Blind Placebo-Controlled Trial of Memantine 10 mg Twice a Day for Three Months as a Treatment for Cognitive Impairment in Multiple Sclerosis Jesus Lovera, Flliot Frohman Theodore Brown, Daniel Bandari, Ruth Whitham. Katherine Wild. Dennis Bourdette

4:15 p.m. S11.003

Deep Brain Stimulation of the Caudal Zona Incerta for Tremor in Multiple Sclerosis Jacqueline Bernard. Theresa Pretto, Richard Penn

S11.004 Effect of Natalizumab Switch

in Suboptimal-Responders to First-Line Disease Modifying Therapy Tamara Castillo-Trivino, Elizabeth Crabtree-Hartman, Bruce Cree, Douglas Goodin, Ari Green, Stephen Hauser, Ellen Mowry, Darin Okuda, Daniel Pelletier, Scott Zamvil. Emmanuelle Waubant

4:45 p.m. S11.005

Natalizumab in Patients with Relapsing Multiple Sclerosis: Updated Utilization and Safety Results Including TOUCH™ and TYGRIS Carmen Bozic, Glyn Belcher, Richard Kim, Robert Hyde, Frances Lynn, Mariska Kooijmans-Coutinho, Michael Panzara

S12 Anterior Horn: **Basic Science**

Room 6C

3:45 p.m. Presentation of the Sheila Essey Award: An Award for ALS Research

Presented by the American Academy of Neurology and the ALS Association and supported through the philanthropy of the Essey Family Fund and the ALS Association.

Recipients: Merit Cudkowicz, MD, MSc Charlestown, MA Orla Hardiman, MD Dublin, Ireland

4:15 p.m. S12.003 mSOD1G93A Binds Microglial

CD14/TLRs Inducing a Novel Mechanism for Microglia-Mediated Motoneuron Injury Weihua Zhao, David Beers, Jenny Henkel, Wei Zhang, Makoto Urushitani, Jean-Pierre Julien, Stanley Appel

4:30 p.m. S12.004

Astrocytes Induce Motoneuron Death and Axonopathy in an In Vitro Model of Spinal Muscular Atrophy Dimitra Papadimitriou, Diane Re, Tetsuya Nagata, Umrao Monani, Serge Przedborski

S12.005 4:45 p.m.

A Novel Putative Familial ALS Locus on Chromosome 12: D-Amino Acid Oxidase Jacqueline De Belleroche, John Mitchell, Praveen Paul, Han-Jou Chen, Alex Morris. Amin Haiitou. Sabine Winkler, Veronica Tisato, Nick Mazarakis

S13 Parkinson's Disease: Non-Motor **Symptoms**

Room 6A

3:45 p.m. Presentation of the Jon Stolk Award in Movement **Disorders for Young** Investigators

Sponsored by the American Academy of Neurology and endowed by Kyowa Pharmaceutical, Inc., Lineberry Research, Quintiles, and Dr. Dennis Gillings.

Recipient: Christian Wider, MD Jacksonville, FL

4:00 p.m. S13.002

Metabolic Abnormalities Associated with Progressive Cognitive Dysfunction in Parkinson's Disease Kathleen Poston, Paul Mattis, Chengke Tang, Matthew Bussa, David Eidelbera

S13.003

4:15 p.m.

The Relationship between Motor Symptoms Laterality with Cognition and Other Non-Motor Symptoms in Parkinson's Disease Esther Cubo, Pablo Martínez Martín, Jaime Kulisevsky, Javier Pagonarraba, Jesus Martin-Gonzalez

4:30 p.m. S13.004

Ropinirole Prolonged Release Reduces Significant Sleep Disturbance in Patients with Advanced Parkinson's Disease (PD) Not Optimally Controlled with L-dopa K. Chaudhuri, Luigi Giorgi, Julia Statham

4:45 p.m. S13.005

Is There a Link between Lower and Higher Order Visual Deficits in Early Parkinson's Disease?: A Case-Control Study Géraldine Hipp, Michel Vaillant, Nico Diederich, Vannina Pieri

S14 Acute Stroke **Therapeutics**

Room 608/609

S14.001 3:45 p.m.

Cerebrovascular Effects of Mannitol and 23.4% Saline in Ischemic and Hemorrhagic Stroke Michael Diringer, Allyson Zazulia, William Powers. Tom Videen

4:00 p.m. S14.002

Dosing Errors Did Not Have a Major Impact on Outcome in the NINDS rt-PA Stroke Study Steven Messe, Scott Kasner, Brett Cucchiara, David Tanne, Andrew Demchuk, Bichun Ouyang, Steven Levine

4:15 p.m. S14.003

Eligibility for rt-PA within a Population: The Effect of the ECASS 3 Trial Dawn Kleindorfer, Jane Khoury, Kathleen Alwell. Charles Moomaw, Daniel Woo. Matthew Flaherty, Joseph Broderick, Brett Kissela

4:30 p.m.

Association of Hyperacute Blood Pressure with Early Functional Outcome in Acute Ischemic Stroke Patients Wei Liu, Georgios Tsivgoulis, Marc Malkoff

4:45 p.m. S14 005

Tissue Plasminogen Activator Treatment Caused Cerebral Hemorrhage Is Decreased by Mild Hypothermia in Experimental Stroke Xian Tang, Liping Liu, Maya Koike, Rona Giffard, Midori Yenari

S15 Peripheral Nerve I

Room 606/607

3:45 p.m. S15.001 VEGF Gene Transfer for Treatment of Diabetic Polyneuropathy: A Randomized Double Blinded Trial Allan Ropper, Kenneth Gorson, Clifton Gooch, David Weinberg, James Ware, Ann

Pieczek, Joshua Kershen,

Douglas Losordo

4:00 p.m. Clinical and Schwann Cell

Phenotypes in a Patient with PMP22 Homozygous Null Mutation Istvan Katona Mario Saporta, Louise Carr, Fiona Macdonald, Louise Brueton, Ueli Suter, Michael Shy, Mary Reilly, Jun Li, Helen Roper

4:15 p.m. S15.003

Novel Mass Spectrometry Approach Distinguishes Varied Amyloid Types in Peripheral Nerve Tissue Christopher Klein. Peter Dyck, Julie Vrana, Michelle Mauermann, Lawrence Witt. Nathan Staff. Zeldenrust Steven, Robert Bergen, Dogan Ahmet

4:30 p.m.

The Genetic Contribution of Copy Number Variants to Hereditary Peripheral Neuropathies Jia Huang, Justin Price, Gladys Montenearo, Gaofena Wang, Xingyao Wu, Jeffery Vance, Michael Shy, Stephan 7üchner

4:45 p.m. S15.005

Conduction Block in PMP22 Deficiency Yunhong Bai, Xuebao Zhang, Istvan Katona, Mario Saporta, Michael Shy, Heather O'Malley, Lori Isom, Ueli Sutter, Jun Li

S16 Epilepsy: Women's Issues and Co-Morbidities

Room 611/612

3:45 p.m. S16.001
Case Reports of Pregnancies in Pregabalin Clinical
Studies Jigna Shah, Suzanne Giordano, George Karkanias

4:00 p.m. S16.002
Sixteen-Year Interim Results from an International Observational Study of Pregnancy Outcomes Following Exposure to Lamotrigine John Messenheimer, John Weil

4:15 p.m. \$16.00 A Double-Blind, Placebo-Controlled, Dose-Ranging Clinical Study To Evaluate the Safety, Tolerability, and Antiepileptic Activity of Ganaxolone in Treatment of Patients with Infantile Spasms Julia Tsai, John Pellock, Jana von Hehn, Vincent Pieribone, Kenneth Shaw, Elizabeth Garofalo

4:30 p.m. S16.004
Antiepileptic Drugs Are
Associated with Osteoporotic
Fractures – A PopulationBased Analysis Nathalie
Jette, Lisa Lix, Colleen
Metge, Heather Prior, Jane
McChesney, William Leslie

4:45 p.m. \$16.005 Risk of Seizures in Children of Women with Epilepsy Kimford Meador, Gus Baker, Jill Clayton Smith, Laura Kalayjian, Joyce Liporace, Page Pennell, Nancy Browning

S17 Multiple Sclerosis: Genetics/Pathology

Room 605/610

3:45 p.m. S17.001
Two Different Arg19
Mutations in the N-terminus
of Aquaporin-4 Suggest a
Molecular Mechanism for
Susceptibility to Neuromyelitis
Optica Marcelo Matiello,
Janet Schaefer-Klein, David
Hebrink, Daniel Kingsbury,
Vanda Lennon, Brian
Weinshenker

4:00 p.m. S17.002
Long Term Isolated Optic
Neuritis and Benign Multiple
Sclerosis Carry Alleles
Protecting from Malignant
Progression Gabriele De
Luca, Sreeram Ramagopalan,
Katie Morrison, Lahiru
Handunnetthi, Michael
Chao, Sarah Orton, Matthew
Lincoln, David Dyment, Dessa
Sadovnick, George Ebers,
Jette Frederiksen

4:15 p.m. S17.003 HLA-DRB1*0401 and HLA-DRB1*0408 Are Strongly Associated with the Development of Antibodies Against Interferonbeta Therapy in Multiple Sclerosis Sabine Cepok. Steve Hoffmann, Verena Grummel, Klaus Lehmann-Horn, Joerg Hackermueller, Peter Stadler, Hans-Peter Hartung, Achim Berthele, Florian Deisenhammer, Ralf Wasmuth, Bernhard Hemmer

4:30 p.m. S17.004
Axonal Loss in Primary
Progressive MS Is Less
Dependent on Demyelination
Than in Secondary
Progressive MS Emma
Tallantyre, Lars Boe, Lowe
James. Nikos Evangelou

4:45 p.m. S17.005
Increased Inflammation in
Diffusely Injured White Matter
and in Remyelinated Plaques
Correlates with Active
Demyelination in Progressive
Multiple Sclerosis Stephan
Bramow, Josa Frischer, Per
Sorensen, Hans Lassmann,
Henning Laursen

S18 Cerebrovascular Disease

Room 602/603

3:45 p.m. S18.001
Blockade of Bradykinin
Receptor B1 but Not
Bradykinin Receptor B2
Provides Protection from
Cerebral Infarction and
Brain Edema Christoph
Kleinschnitz, Madeleine
Austinat, Stefan Braeuninger,
Michael Bader, Thomas
Renné, Guido Stoll

4:00 p.m. \$18.002 NIHSS Score Is Poorly Predictive of Proximal Occlusion in Acute Cerebral Ischemia Matthew Maas, Michael Lev, Hakan Ay, Aneesh Singhal, David Greer, Wade Smith, Gordon Harris, Elkan Halpern, Walter Koroshetz, Karen Furie

4:15 p.m. S18.003
Effects of White Matter and Lacunar Volume on a Global Measure of Depression among Cognitively Intact Individuals Jonathan Gooblar, Lara Heflin, Wendy Mack, Dan Mungas, Bruce Reed, Michael Weiner, Helena Chui, Joel Kramer

4:30 p.m. S18.004
Biochemical Aspirin
Resistance in Acute Ischemic
Stroke and Relationship with
Humoral Markers Hung-Yi
Hsu, Ying-Tsung Chen, YuPing Ho, Yi-Ying Chiang

4:45 p.m. \$18.005
The Underpinnings of
Transient Global Amnesia
Due to Jugular Valve
Incompetence: Evidence
from a Series of 189
Patients Chiara Agosti,
Barbara Borroni, Nabil
Akkawi, Alessandro Padovani

S19 Ethics and Pain

Room 613/614

3:45 p.m. \$19.001 Imaging Genetics: Ethics at the Interface of Research and Clinical Neuroscience *Kate Tairyan, Judy Illes*

4:00 p.m. S19.002

Non-Heart Beating Organ

Donor Procedure after

Euthanasia in Three

Neurological Patients Patrick

Cras, Gerda Van Beeumen,

Pat Wijffels, Frank Heyvaert,

Dirk Ysebaert

4:15 p.m. S19.003
Withdrawal and Withhold of
Treatment in Severe Acute
Stroke Patients: Decision
Making Process and Palliative
Care Sophie Crozier, Isabelle
Meresse, Philippe Bizouam,
Christine Pires, Yves Samson

4:30 p.m. S19.004
Death Rounds on a Neurology
Inpatient Service: Coping with
Death and Dying Sandeep
Khot, Martha Billings, Darrell
Owens, W. T. Longstreth, Jr.

4:45 p.m. S19.005 Neurocognitive Enhancement for the Treatment of Chronic Nonmalignant Pain Peter Przekop, Allison Przekop, Stephen Ashwal

S20 Neurologic Education

Room 604

3:45 p.m. S20.001

Evaluating the Effectiveness of Continuum as a Teaching Tool for Medical Students Richard Isaacson, Joseph Safdieh, Christopher Ochner

4:00 p.m. S20.002

Poor Inter-Rater Reliability between Local Faculty and ABPN Examiners in Evaluating the Neurology Clinical Skills Exam:
Preliminary Results Lori Schuh, Zachary London, Robert Neel, Charles Brock, Brett Kissela, Lonni Schultz, Douglas Gelb

4:15 p.m. S20.003
Comparison of Third and
Fourth Year Neurology
Clerkship Experience and
Its Impact on Attitudes
towards Neurology Imran Ali,
Nabeel Herial, Joanne Lynn,
Gretchen Tietjen

4:30 p.m. S20.004
First-Year Outcomes for
the Parnassus Integrated
Student Clinical Experiences
(PISCES): A Multidisciplinary
Longitudinal Patient Centered
Model for Third- Year
Medical Education at the
University of California, San
Francisco Heidi Kirsch, Ann
Poncelet

4:45 p.m. \$20.005 Video Review for Resident Skills Training and Assessment *Ruple Laughlin*

Interventional Neurology I

P03.001 Referral Pattern among Neurologists for Neurointerventional Procedures Ramy El Khoury, Nazli Janjua

P03.002 Necessity of Face Masks and Caps in Neurointerventional Suite Circulating Staff *Oluwakayode Adejoro, Jawairia Memon, M. Fareed Suri, Adnan Qureshi*

P03.003 Contrast Nephropathy in Aneurysmal Subarachnoid Hemorrhage Gunjan Parikh, Mohamed Teleb, Denise Campagnolo, Rajiv Poduval, Peter Nakaji

P03.004 Stent Supported Revascularization of Acute Basilar Artery Occlusion beyond 8 Hours of Stroke Onset *Amit Kansara, Ambooj Tiwari, Mahmoud Rayes, Chethan Rao, Maggie Jones, Andrew Xavier*

P03.005 Quantification and Comparison of Techniques for Measuring Cerebral Vasospasm on CTA as Determined by TCD Steven Hoover, Osamah Choudry, Vahid Tohidi, Ameer Hassan, Charles Prestigiacomo, Jawad Kirmani

P03.006 High Risk of Recurrent Ischemic Events among Patients with Deferred Endovascular Treatment for Symptomatic Intracranial Disease Osman Kozak, Nauman Tariq, M. Fareed Suri, Ramachandra Tummala, Robert Taylor, Adnan Qureshi

P03.007 Late Stent Thrombosis Following Self-Expanding Intracranial Stent Placement Amit Kansara, Ambooj Tiwari, Mahmoud Rayes, Chethan Rao, Maggie Jones, Andrew Xavier

P03.008 Correlating Aspirin and Clopidogrel Platelet Function Inhibition with Clinical and Angiographic Outcome during Neurointerventional Procedures Thodore Klem, Dhruvil Pandya, Thomas Wolfe, Prem Kandiah, Syed Hussain, Brian-Fred Fitzsimmons, John Lynch, Osama Zaidat

P03.009 Intraarterial Nicardipine for Treatment of Cocaine Induced Cerebral Vasospasm and Stroke Ammar AlKawi, Ahmed El-Gengaihy, Akram Shhadeh, Steven Hoover

P03.010 The Adjunctive Use of Intra-Arterial Eptifibatide as a Revascularization Tool in Acute Cerebrovascular Ischemia Jitendra Sharma, Marlon Mathews, J. Mocco, Kenneth Snyder, Catalina Ionita, Adnan Siddiqui, L. Hopkins, Elad Levy

Clinical Neurophysiology: EMG / NCS

P03.011 Correlation of Motor Unit Number Estimates to Histologic Fiber Counts in the Peroneal Nerve of Rabbits Namita Goyal, Francis Henry, Robert Redmond, William David

P03.012 Using Incremental Motor Unit Number Estimation To Quantify Nerve Regeneration Following Various Methods of Surgical Repair of the Transected Rabbit Peroneal Nerve Namita Goyal, Francis Henry, Laura Baldassari, Robert Redmond, William David

P03.013 The Utility of Inching Technique in Diagnosis of Motor Nerve Conduction Block *Mingsheng Liu, Liying Cui*

P03.014 Electrodiagnostic Profile of Demyelination in Diabetic Neuropathy Nizar Souayah, Abu Nasar, Nataliya Krivitskaya, Amer Alshekhlee, Russell Chin, Hafiz Khan, Sami Khella, David Krendel, Thomas Brannagan, Peter Siao-Tick-Chong

P03.015 Safety of Nerve Conduction Studies in Individuals with Cardiac Pacemakers *Christen Shoesmith, Andrew Krahn, Bradley Watson, Kathy Blackler, Michael Nicolle*

P03.016 Repetitive Nerve Stimulation Test in Myasthenic Crisis *Sunil Goli, Gwendolyn* Claussen, Shin Oh

P03.017 The Value of Single Fiber Electromyography in Diagnosis of Amyotrophic Lateral Sclerosis *Mingsheng Liu, Liying Cui*

P03.018 WITHDRAWN

P03.019 Atypical Presentation of Multifocal Motor Neuropathy: Clinical and Neurophysiologic Data of Brazilian Male Case Report *Luiz Guanaes, Fernando Cardoso, Osvaldo Nascimento*

Topics in Clinical Neurophysiology

P03.020 Time Course of Cortical Facilitation Following Subthalamic Deep Brain Stimulation in Parkinson's Disease Renju Kuriakose, Utpal Saha, Gabriel Castillo, Carolyn Gunraj, Filomena Mazella, Clement Hamani, Elena Moro, Andres Lozano, Moji Hodaie, Antony Lang, Robert Chen

P03.021 Utility of Intraoperative Somatosensory and Motor Evoked Potentials in Detecting Cervical Root Avulsion *Vita Kesner, Brian Crum* P03.022 Intraoperative Phrenic Nerve Somatosensory Evoked Potentials during Electrode Implanting Procedure for Chronic Motor Stimulation Yann Péréon, Axel Terrier, Thibaud Lebouvier, Sylvie Raoul, Jean-Paul Nguyen

P03.023 Botulinum Toxin Injection into the Trapezius Muscle of Cynomolgus Monkeys: Comparison of Duration of Action between Serotype A and B Joseph Arezzo, Mona Litwak, Meg Corliss, Edgar Salazar-Grueso

P03.024 Comparison of the Spread of Biological Activity of Botulinum Toxin Type B and Botulinum Toxin Type A in a Monkey Model Joseph Arezzo, Mona Litwak, Meg Corliss, Edgar Salazar-Grueso

P03.025 Electrophysiological and Radiological Findings in Trigeminal Neuralgia – An Attempt To Correlate Meenakshisundaram Umaiorubahan, Sharana Gowda

P03.026 Robust Response of Brain Glucose Metabolism to Short-Term Physiological Stimulation as Evaluated with Early Time Frames on FDG PET Andrei Vlassenko, Lars Couture, Iga Wegorzewska, Mark Mintun

P03.027 White Matter
Hyperintensities on 1.5 and 3 Tesla
Brain MRI in Healthy Individuals.
A Morphological and Topographic
Quantitative Comparison Study Carol
DiPerri, Michael Dwyer, David Wack,
Jennifer Cox, Komal Hashmi, Erik
Saluste, Sara Hussein, Turi Dalaker,
Claudiu Schirda, Stefano Bastianello,
Roberto Bergamaschi, Robert
Zivadinov

EEG & Evoked Potentials

P03.028 Abnormal Calf Reflexes at Standard Tibial Nerve Somatosensory Evoked Potentials: An Indicator of Pyramidal Involvement in Multiple Sclerosis? Letizia Leocani, Mariangela Bianco, Renata Balnyte, Laura Straffi, Sebastiano Bucello, Ubaldo Del Carro, Lucia Moiola, Vittorio Martinelli, Giancarlo Comi

P03.029 The Evaluation of Brain Atrophy in Multiple Sclerosis; the Relevance of Clinical and Electrophysiological Correlates *Nilufer Kale, Jale Agaoglu, Gulten Onder, Osman Tanik*

P03.030 An Analysis of EEGs and Laboratory Data in ARPKD Patients for the Detection of Metabolic Abnormalities Sabina Miranda, John Hughes, Meral Gunay-Aygun, Rebecca Fasano, Susumu Sato

P03.031 Is Lazarus' Sign a Spinal Reflex, or a Frontal Seizure? *Rajdeep Singh, Robert Beach, James Sexton, Deborah Bradshaw* P03.032 Utility of Electrocorticography for Prediction of Outcome of Temporal Lobectomy for Medically Refractory Epilepsy Matthew Eccher, Samip Patel

P03.033 Cognitively Normal Oldest-Old Have Abnormal EEGs: Findings from The 90+ Study *Carrie Brumback Peltz, Howard Kim, Claudia Kawas*

P03.034 Seizure Diagnosis in the ICU: Yield with Routine EEG Venkat Ramani, Oceanis Vaou, Donald Risucci

P03.035 Acute Mental Status Changes and Subtle Periodic Epileptiform Discharges, Reversible with Bolus of Benzodiazepine Injection: Another Form of NCSE Pegah Afra, George Zinkhan, Tawnya Constantino, Fumisuke Matsuo

Peripheral Nerve II

P03.036 MBL Complement Pathway Activity Is Increased in Patients with Multifocal Motor Neuropathy Elisabeth Cats, Leonard Van den Berg, Jos van Strijp, Erik Heezius, Ger Rijkers, Sanne Piepers, W. -Ludo van der Pol

P03.037 Efficacy of Intravenous Immunoglobulin (IVIG) Treatment in Demyelinating Neuropathy Associated with Monoclonal Gammopathy of Unknown Significance (MGUS) Marie Theaudin, Pierre Lozeron, Catherine Lacroix, Violaine Plante-Bordeneuve, Christian Denier, David Adams

P03.038 Long-Term Maintenance Therapy with Subcutaneous Immunoglobulin in Multifocal Motor Neuropathy *Thomas Harbo, Henning Andersen, Johannes Jakobsen*

P03.039 Anti-Ganglioside Antibodies in Multifocal Motor Neuropathy: Frequency, Specificity and Association with Weakness and Disability Elisabeth Cats, Leonard Van den Berg, Anne Tio-Gillen, Bart Jacobs, W. -Ludo van der Pol

P03.040 Anti-Ganglioside Complex IgM Antibodies in Chronic Immune Mediated Neuropathies Eduardo Nobile-Orazio, Claudia Giannotta, Fabrizia Terenghi, Sandro Sonnino

P03.041 Presence and Severity of Tremor Is Increased in IgM MGUS Neuropathy Compared to Matched Age and Neuropathy Controls Christopher Klein, Joon Moon, Neeraj Kumar, Steve Zeldenrust, Yanhong Wu, Michelle Mauermann

P03.042 Follow-Up Study and Response to Treatment in 18 Patients with Lewis—Sumner Syndrome Shahram Attarian, Annie Verschueren, Emmanuelle Campana-Salort, Jean-Philippe Azulay, Jean Pouget

- P03.043 Distal Acquired
 Demyelinating Sensory (DADS)
 Neuropathy without Anti-MAG
 Antibodies (Ab): A Distinct
 Entity? Sandrine Larue, Florian
 Dashi, Karine Viala, Jean Neil, Pierre
 Bouche, Thierry Maisonobe, JeanMarc Léger
- P03.044 Are Biological and Electrophysiological Parameters Related to the Disability of the Patients with Polyneuropathy with Anti-MAG Antibodies? Emilien Delmont, Mael Launey, Charles Benaim, Sabrina Sacconi, Claude Desnuelle
- **P03.045** Natalizumab in the Therapy of Multifocal Motoric Neuropathy (MMN): First Case Report *Alaleh Raji, Gerhard Winkler*

Child Neurology: Imaging and Pathology

- **P03.046** Chiari 1 Malformation (CM1) in Children with Neurofibromatosis 1 (NF1) *Akil Patel, A. David Rothner*
- P03.047 Comparison of MRI Features of Inflammatory Disorders of the CNS in Children Adrian Fawcett, Leonard Verhey, Helen Branson, Suzanne Laughlin, Sunita Venkateswaran, Susanne Benseler, Sandra Magalhaes, Brenda Banwell
- **P03.048** Two Unusual Clinical and Radiological Presentations of Biotinidase Deficiency *Niamh Mc Sweeney, Sanjay Bhate, Stephanie Grunewald, Kling Chong, Cheryl Hemingway*
- P03.049 Clinical and Radiological Features of Vein of Galen Malformation Niamh Mc Sweeney, Sanjay Bhate, Stefan Brew, Vijeya Ganesan
- P03.050 Loss of ETHE1, a Sulfur Mitochondrial Dioxygenase, Causes Fatal Sulfide Toxicity in Ethylmalonic Encephalopathy Valeria Tiranti, Carlo Viscomi, Ivano DiMeo, Tatjana Hildebrandt, Marco Rimoldi, Alessandro Prelle, Massimo Zeviani
- P03.051 Covert Cerebral Infarction on MRI in a UK-Based Population of Children with Sickle Cell Disease Nomazulu Dlamini, Dawn Saunders, Mike Bynevelt, Deborah Hewes, Tim Cox, Kling Chong, Jane Evans. Fenella Kirkham
- **P03.052** MRI Analysis of the Corpus Callosum in Siblings of Children with Autism Spectrum Disorder Lauren Branchini, Kristen Lindgren, Helen Tager-Flusberg
- P03.053 Small-Vessel CNS Vasculitis in Childhood: Clinical and Pathological Correlation *Jorina* Elbers, William Halliday, Cynthia Hawkins, Hutchinson Clare, Susanne Benseler

- **P03.054** MRI Lesion Characteristics of ADEM in Children *Leonard Verhey, Suzanne Laughlin, Helen Branson, Adrian Fawcett, Sunita Venkateswaran, Sandra Magalhaes, Brenda Banwell*
- P03.055 Magnetic Resonance (MR) and Diffusion Tensor Imaging (DTI) Abnormalities in Children with Cerebellar Mutism (CM) after Posterior Fossa Tumor Resection Brannon Morris, Nicholas Phillips, Fred Laningham, Dana Wallace, Kirsten Ness, Amar Gajjar, Robert Ogg

Multiple Sclerosis: Neuropathology and Neurophysiology

- P03.056 Quantification of Neuronal Loss in Multiple Sclerosis: A PET Study with [11C]-Flumazenil Bruno Stankoff, Claire Leroy, Florent Sureau, Rana Assouad, Sandrine Bourgeois, Ayman Tourbah, Damien Galanaud, Caroline Papeix, Catherine Lubetzki, Claude Comtat, Jacques Delforge, Regine Trebossen, Michel Bottlaender
- P03.057 CD4+CD25+Foxp3+ T Cells Are Cytotoxic for Human Neurons Yohannes Haile, Dion Pasichnyk, Chris Bleackley, Fabrizio Giuliani
- P03.058 Remyelinated Plaques in Progressive Multiple Sclerosis Are Susceptible to Second Hit Active Demyelination Stephan Bramow, Josa Frischer, Per Sorensen, Hans Lassmann, Nils Koch-Henriksen, Henning Laursen
- **P03.059** The Killing of Neurons by Activated T Cells Is Promoted by Microglia *Erin O'Ferrall, Brooke Verhaeghe, Rowena Cua, Claudia Silva, V. Wee Yong*
- **P03.060** Multifocal Myelinolysis after Rapid Correction of Hyperglycemia *Shan Abbas, Elysia James, L. John Greenfield*
- P03.061 Gadolinium Enhancement Patterns of Tumefactive Demyelinating Lesions: Correlations with Brain Biopsy Findings and Pathophysiology Masaki Kobayashi, Yuko Shimizu, Noriyuki Shibata, Yuko Ono, Keiko Maruyama, Kohei Ota, Shinichiro Uchiyama

Multiple Sclerosis: Imaging

P03.062 Early MRI Activity during Interferon Beta-1a Therapy Predicts Response to Treatment in Patients at High Risk of Developing Clinically Definite Multiple Sclerosis R. Philip Kinkel, Paul O'Connor, Jack Simon, John Carulli, Susan Goelz, Robert Hyde, Stefan Lanker, Amy Pace, Alfred Sandrock, Hao Zhang

- P03.063 Preservation of Brain Adaptive Properties Contributes to the Clinical Picture of Benign Multiple Sclerosia, Antonia Ceccarelli, Maria Rocca, Angelo Ghezzi, Sebastiano Galantucci, Andrea Falini, Giancarlo Comi, Massimo Filippi
- P03.064 Disruption of the Default Mode Network in Patients with Primary Progressive and Secondary Progressive Multiple Sclerosis Martina Absinta, Maria Rocca, Paola Valsasina, Gianna Riccitelli, Federica Agosta, Paolo Rossi, Filippo Martinelli-Boneschi, Andrea Falini, Giancarlo Comi, Massimo Filippi
- P03.065 Contrast Enhanced Susceptibility Weighted Imaging (SWI) Increases Detection of Iron Deposition in Patients with Multiple Sclerosis. A Pilot Study Claudiu Schirda, Christopher Magnano, Navdeep Nayyar, Jennifer Cox, Michael Dwyer, Robert Zivadinov
- P03.066 T2 Hyperintensities: Extensive Screening Is Not Necessary To Determine the Diagnosis Annabelle Chaussenot, Frederic Berthier, Christine Lebrun Frenay
- P03.067 Application of an Advanced Hidden Markov Chain Approach for Automatic Quantification of Lesions Detection in a Multimodal Magnetic Resonance Imaging Approach in Multiple Sclerosis Stephanie Bricq, Christophe Collet, Jean-Paul Armspach, Lucien Rumbach
- P03.068 Relationship between Clinical Aspects in Early Phases of Relapsing-Remitting Multiple Sclerosis and Subsequent Brain Volume Changes Mario Quarantelli, Roberta Lanzillo, Anna Prinster, Carmine Mollica, Giuseppe Orefice, Arturo Brunetti, Giovanni Vacca, Marco Salvatore, Vincenzo Brescia Morra
- P03.069 Diffusion Tensor Imaging of the Corticospinal Tracts in Early Relapsing Remitting Multiple Sclerosis: Correlation of Diffusion Parameters with Motor Function Kyle Kern, Joseph Sarcona, Barbara Giesser, Michael Montag, Amrapali Arshanapalli, Kristi Clark, Nancy Sicotte
- P03.070 Intracortical Lesion Detection by Advanced MRI Techniques and Correlation with MS Related Cognitive Impairment Flavia Nelson, Miriam Morales, Parik Gaurav, Francisco Perez, Ponnada Narayana, Jerry Wolinsky

- P03.071 Natalizumab (Tysabri®)
 Promotes Remyelination in Patients
 with Multiple Sclerosis. A Voxel-Wise
 Magnetization Transfer Imaging
 Case-Control Study Robert Zivadinov,
 Michael Dwyer, Niels Bergsland, Sara
 Hussein, Jennifer Cox, Jacqueline
 Durfee, Navdeep Nayyar, David
 Hojnacki, Komal Hashmi, Mari
 Heininen-Brown, Lynn Choufeh, Ellen
 Carl, Bianca Weinstock-Guttman
- **P03.072** Axial and Radial Diffusivity in Patients with Multiple Sclerosis Sara Hussein, Michael Dwyer, Jennifer Cox, Robert Zivadinov
- P03.073 Evidence for Enhanced Functional Activity of Cervical Cord in Primary Progressive Multiple Sclerosis Giulia Longoni, Martina Absinta, Federica Agosta, Paola Valsasina, Domenico Caputo, Massimo Filippi
- P03.074 Diffusion Tensor Imaging of Corpus Callosum Integrity in Multiple Sclerosis: Correlation with Disease Variables Sigal Tal, Mark Dolev, Gil Harari, Anat Achiron
- P03.075 Brain MRI T1/T2 Lesion Ratio Correlates with Disability: Insight into Tissue Injury, and Implications for Trial Design and Therapeutic Strategies Omar Khan, Fen Bao, Stephanie Hreha, Megha Shah, Jai Perumal, Zahid Latif, Christina Caon, Imad Zak, Alexandros Tselis, Robert Lisak, Scott Millis
- P03.076 Consortium of Multiple Sclerosis Centers (CMSC) Guidelines for a Standardized MRI Protocol for the Diagnosis and Follow-Up of Multiple Sclerosis: 2008 Revision Anthony Traboulsee, Lael Stone, Jack Simon, Jerry Wolinsky, Paul O'Connor, Ernst-Wilhelm Radue, David Li
- P03.077 Effect of Glatiramer Acetate on Microglial Activation as Measured by PET in Multiple Sclerosis John Ratchford, Christopher Endres, Dima Hammoud, Crystal Watkins, Martin Pomper, Peter Calabresi
- P03.078 The Spectrum of Cognitive Impairment and Its Relation to Brain Morphology Including Iron Deposition in Multiple Sclerosis Michael Khalil, Christian Enzinger, Christian Langkammer, Katja Petrovic, Marisa Loitfelder, Maria Tscherner, Margit Jehna, Mirja Wallner-Blazek, Stefan Ropele, Reinhold Schmidt, Siegrid Fuchs, Franz Fazekas
- P03.079 Quality of Life in Multiple Sclerosis Is Associated with White Matter Lesion Burden and Brain Volume on Brain MRI Ellen Mowry, Azadeh Beheshtian, Emmanuelle Waubant, Douglas Goodin, Bruce Cree, Pamela Qualley, Michaela George, Refujia Gomez, Stephen Hauser, Darin Okuda, Daniel Pelletier

P03.080 Cortical Atrophy as a Neural Correlate of Fatigue in Multiple Sclerosis: A 3.0 T Imaging Study Clelia Pellicano, Antonio Gallo, Xiaobai Li, Vasiliki Ikonomidou, Iordanis Evangelou, Joan Ohayon, Susan Sterne, Mary Ehrmantraut, Fred Cantor, Henry McFarland, Francesca Bagnato

P03.081 A Sensitive, Noise-Resistant Method for Identifying Voxel-Wise Changes in Magnetization Transfer Ratio Michael Dwyer, Niels Bergsland, Sara Hussein, Jacqueline Durfee, Bianca Weinstock-Guttman, Robert Zivadinov

P03.082 Splenium of the Corpus Callosum Affected in Early Relapsing Remitting Multiple Sclerosis: Changes Detected with Diffusion Tensor Imaging and Thickness Measures Kyle Kern, Evan Momen, Kristi Clark, Barbara Giesser, Michael Montag, Amrapali Arshanapalli, Yonggang Shi, Nancy Sicotte

P03.083 Six-Year Prospective Multi-Voxel Brain MRS Study of Two Cohorts in RRMS To Examine the Effect of Glatiramer Acetate on Neuronal/Axonal Metabolic Injury Jai Perumal, Stephanie Hreha, Yimin Shen, Yang Xuan, Christina Caon, Fen Bao, Zahid Latif, Alexandros Tselis, Imad Zak, Omar Khan

P03.084 Longitudinal Imaging of Myelin Repair and Axonal Loss in Multiple Sclerosis Thomas Cronin, Jian Lin, Xiaofeng Wang, Ken Sakaie, Mark Lowe, Michael Phillips, Robert Fox

P03.085 Rate of Change in Diffusion Tensor MRI Parameters in the Corpus Callosum in Multiple Sclerosis Daniel Harrison, Daniel Reich, Arzu Ozturk, Peter Calabresi

P03.086 Dirty Appearing White Matter on 1.5 and 3 Tesla Brain MRI in Multiple Sclerosis. A Morphological Quantitative Comparison Study Laura Ranza, Niels Bergsland, Michael Dwyer, Carol DiPerri, Jennifer Cox, Sara Hussein, Stefano Bastianello, Roberto Bergamaschi, Robert Zivadinov

P03.087 Semi-Automated Lesion Activity Analysis (SALAA) in Patients with Multiple Sclerosis David Wack, Michael Dwyer, Jacqueline Durfee, Sara Hussein, Robert Zivadinov

Neuroimaging and Parkinson's Disease

P03.088 Diagnostic Efficacy and Safety of 123I-Altropane SPECT Neuroimaging in Parkinson Syndrome (PS) Mark Hurtt, Susan Flint P03.089 Dopaminergic Denervation Pattern in Parkinson's Patients with and without Depression – A Comparative Study Sujith Thazha Kuniyil, Carol Lane, Edwin Mac, Michael Schulzer, Allan Young, Jess McKenzie, Jon Stoessl

P03.090 Quantitative Magnetic Resonance Spectroscopic Imaging in Parkinson's Disease, Progressive Supranuclear Palsy and Multiple System Atrophy Carlos Guevara, Camilla Blain, Daniel Stahl, David Lythgoe, Gareth Barker, P. Nigel Leigh

P03.091 Cortical Abnormalities in De-Novo Different Motor Subtypes of Parkinson's Disease: A VBM Based MR Study Claudio Lucetti, Carlo Tessa, Paolo Del Dotto, Marco Giannelli, Riccardo Della Nave, Caterina Berti, Chiara Logi, Andrea Ginestroni, Mario Mascalchi, Ubaldo Bonuccelli

P03.092 Cerebral Cholinergic Deficits in Parkinsonian Syndromes Sid Gilman, Robert Koeppe, Bin Nan, Chia-Ning Wang, Larry Junck, Ronald Chervin, Flavia Consens, Arijit Bhaumik

P03.093 Comparative Value of Brain MRI and 123I-MIBG Myocardial Scintigraphy in Distinguishing amongst Lewy Body Disease, Progressive Supranuclear Palsy and Corticobasal Degeneration Mitsuhiro Yoshita, Daisuke Noto, Kazuya Takahashi, Masahito Yamada

P03.094 Parkinson and Alzheimer-Selective Hyposmia Measures Have Different Neurochemical Substrates in Patients with Parkinson's Disease Vikas Kotagal, Martijn Muller, Robert Koeppe, Kirk Frey, Roger Albin, Nicolaas Bohnen

P03.095 Brainstem FLAIR
Hyperintensity in Frontotemporal
Dementia and Parkinsonism
Linked to Chromosome 17 (FTDP17) Katherine Schweitzer, Jerzy
Slowinski, Bradley Boeve, Christian
Wider, Clifford Jack, Hitoshi Shinotoh,
Ryan Uitti, Audrey Strongosky, Daniel
Broderick, Zbigniew Wszolek

P03.096 Increased Striatal 6-[18F] Fluorodopa Uptake in Parkinson Disease with vs. without Neurogenic Orthostatic Hypotension *David Goldstein, Courtney Holmes, LaToya Sewell, Irwin Kopin*

P03.097 A Fast Gray Matter Acquisition T1 Inversion Recovery (FGATIR) Magnetic Resonance Imaging (MRI) Sequence for Direct High Resolution Visualization of Subcortical Structures Atchar Sudhyadhom, Intsham Haq, Kelly Foote, Michael Okun, Frank Bova

Aging and Dementia: Imaging I

P03.098 Effect of Bapineuzumab on MRI Measures of Cerebral Volume Change in Patients with Alzheimer's Disease Nick Fox, Charles DeCarli, Ronald Black, Michael Grundman

P03.099 Focal Reduction in Frontal White Matter Fractional Anisotropy Corresponds to Slower Processing Speed in Normal Older Adults Geoffrey Kerchner, Caroline Racine, Sandra Hale, Victor Laluz, Reva Wilheim, Stephen Hauser, Bruce Miller, Joel Kramer

P03.100 Intracranial Volume and Brain Structure Effects on Cognition in Diverse Older Persons Dan Mungas, Bruce Reed, Sarah Farias, Owen Carmichael, Kimberly Carter, Charles DeCarli

P03.101 Thinning of the Insular Cortex in Frontotemporal Lobar Degeneration Scott McGinnis, Akram Bakkour, Alyson Negreira, Daisy Sapolsky, Bradford Dickerson

P03.102 Enhanced CBF Changes by Donepezil Treatment Correlate with Cognitive Improvement in Mild Alzheimer's Disease Piero Antuono, Jennifer Jones, Chunming Xie, Wenjun Li, Zhilin Wu, Thomas McRae, Shi-Jiang Li

P03.103 Diffusion Tensor Imaging Characteristics of Dementia with Lewy Bodies and Alzheimer's Disease Kejal Kantarci, Ramesh Avula, Ali Samikoglu, Maria Shiung, Scott Przybelski, Stephen Weigand, Heidi Ward, Prashanthi Vemuri, David Knopman, Bradley Boeve, Ronald Petersen, Clifford Jack

P03.104 Anosognosia for Behavioral Disturbances in Frontotemporal Dementia and Corticobasal Syndrome: A Voxel-Based Morphometry Study Giovanna Zamboni, Jordan Grafman, Frank Krueger, Kristine Knutson, Eduard Huey

P03.105 Patterns and Rates of Brain Atrophy in Frontotemporal Dementia with Mutations in MAPT or PGRN Jennifer Whitwell, Clifford Jack, Bradley Boeve, Matthew Senjem, Matthew Baker, Rosa Rademakers, Robert Ivnik, David Knopman, Zbigniew Wszolek, Ronald Petersen, Keith Josephs

P03.106 Measurement of Grey Matter Water Diffusion in Frontotemporal Dementia Variants and Alzheimer's Disease Jennifer Whitwell, Ramesh Avula, Kejal Kantarci, Ali Samikoglu, Stephen Weigand, Heidi Ward, Keith Josephs, Prashanthi Vemuri, David Knopman, Bradley Boeve, Ronald Petersen, Clifford Jack P03.107 Grey Matter Atrophy and Clinical Correlations in Definite Alzheimer's Disease and Lewy Body Variant AD Mikel Olabarrieta, Seong-Hye Choi, Oscar Lopez, Victoria Maruca, Steven Dekosky, Ronald Hamilton, James Becker

P03.108 Age-Related Decline in Visuospatial Processing Speed Is Associated with Decreased White Matter Volume in the Right Parahippocampal Region and Right Temporal Lobe Victor Laluz, Sandra Hale, Reva Wilheim, Kari Haws, Stephen Wilson, Stephen Hauser, Bruce Miller, Joel Kramer, Caroline Racine

P03.109 11C-PiB PET and Hippocampal Volumes Are Complementary in Distinguishing Dementia with Lewy Bodies and Alzheimer's Disease Kejal Kantarci, Val Lowe, Matthew Senjem, Maria Shiung, Stephen Weigand, Brad Kemp, David Knopman, Bradley Boeve, Ronald Petersen, Clifford Jack

P03.110 Neural Substrates for Topographical Disorientation in the Mild Cognitive Impairment: A Voxel Based Morphometry Study So Young Moon, Sang Mi Lee, Dahaye Park

P03.111 Memantine Treatment in Patients with Alzheimer's Disease Is Associated with a Slower Right Hippocampal Volume Loss: An OpenLabel, Multi-Center Trial Michael Weiner, Stephen Graham, Robert Hofbauer, Sung Yu, Shaoyi Li, Hai-An Hsu, Joyce Suhy, James Perhach

P03.112 Spatially-Localized
Hippocampal Atrophy Measures
Correlate with Domain-Specific
Cognitive Decline in AD and
MCI Jing Xie, Charles DeCarli, Evan
Fletcher, Dan Mungas, Bruce Reed,
Oliver Martinez, Maria Persiananova,
Dan Alcantara, Nina Amenta, Owen
Carmichael

P03.113 Neural Correlates of Lexical-Semantic Memory in Mild Alzheimer's Disease and Amnestic Mild Cognitive Impairment: A Voxel-Based Morphometry Study Marcio Balthazar, Clarissa Yasuda, Fabricio Pereira, Fernando Cendes, Benito Damasceno

P03.114 Distinct Patterns of Cortical Atrophy According to Pathology in Logopenic Progressive Aphasia and Progressive Non-Fluent Aphasia Corey McMillan, William Hu, David Libon, Virginia Lee, John Trojanowski, Murray Grossman

- P03.115 Accuracy of Dementia Diagnosis: A Direct Comparison of Radiologists and a Computerized Method Cynthia Stonnington, Stefan Klöppel, Josephine Barnes, Frederick Chen, Carlton Chu, Catriona Good, Irina Mader, L. Mitchell, Ameet Patel, Catherine Roberts, Nick Fox, Clifford Jack, Jr., John Ashburner, Richard Frackowiak
- P03.116 Diagnosis of Alzheimer's Disease by Neuroimaging: Volumetric Versus Visual Rating System *Qian Shen, Elizabeth Potter, Jason Appel, Nisha Bhatia, Warren Barker, Yougui Wu, Elizabeth Schofield, Maria Greig, David Loewenstein, Wiezhao Zhao, Ranjan Duara*
- P03.117 Sensorimotor Network Rewiring in Patients with Mild Cognitive Impairment and Alzheimer's Disease Federica Agosta, Maria Rocca, Elisabetta Pagani, Martina Absinta, Maria Luisa Gorno-Tempini, Giuseppe Magnani, Alessandra Marcone, Monica Falautano, Giancarlo Comi, Massimo Filippi

Imaging: Ischemic and Hemorrhagic Stroke

- P03.118 Superficial Siderosis Julie Khoury, Dan Capampangan, David Dodick, Erika Driver-Dunckley, Kent Nelson, Joseph Hoxworth, Maria Aquilar
- P03.119 Symptom Presentation and CT Scan Findings of Patients with Intracerebral Hemorrhage Ravneet Dhillon, Jain Anunaya, Adetolu Odufuye, M. Fernanda Bellolio, Alejandro Rabinstein, Rachel Gilmore, Sailaja Enduri, Luis Serrano, Veena Manivannan, Balavani Palamari, Neeraja Yerragondu, Raghav Chandra, Wyatt Decker, Latha Stead
- P03.120 An Eye Ball Estimation of Intracerebral Hemorrhages Jefferson Miley, Haitham Hussein, Adam Todd, Erik Uhlmann, Douglas Valenta, Osman Kozak, Gabriela Vazquez, Mustapha Ezzeddine
- P03.121 Acute Ischemic Infarction Complicating Intracerebral Hemorrhage – Is Aggressive Blood Pressure Lowering To Blame? Rajesh Gupta, Sayona John, Richard Temes, Vivien Lee, Shyam Prabhakaran
- P03.122 Radiologic Characteristics of Biopsy Definite CNS Vasculitis Raphael Carandang, Leonard Calabrese, Anthony Furlan
- **P03.123** Stroke during Transcranial Doppler Shunt Study *Gunjan Parikh, Tzu-Ching Wu, Mohamed Teleb, James Frey*

- **P03.124** Temporal Progression of Silent Microbleeds in Patients with Symptomatic Cerebrovascular Disease Alejandro Ponz, Rosario Gil, Raquel Chamarro, Jose Miguel Santonja, Anna Piera, Begoña Lopez
- **P03.125** Predictors of Stroke and Its Significance in the Outcome of Tuberculous Meningitis *Jayantee Kalita, Usha Misra, Pradeep Nair*
- P03.126 Ischemic Lesion Localization Due to Cardioembolic or Large Vessel Sources: Voxel Based Lesion Symptom Mapping Approach Sylvia Hermans, Patrick Dupont, Vincent Thijs
- P03.127 Establishing a Threshold of Hippoatenuation for Identifying the Ischemic Brain Tissue on ASPECTS Regions Marisol Ferrúa, Analía Calle, Rosa Ensani, Diego Haberman, Rafael Zamora, Francisco Klein, Luciano Sposato

Cerebrovascular Imaging

- P03.128 Sequential Magnetic Resonance Imaging Refutes the Notion That Proximal Thrombus Extension Is the Underlying Mechanism in Progresive Paramedian Lacunar Infarctions Bryan Ludwig, Edip Gurol, Enrique Leira, Harold Adams
- P03.129 Basilar Artery Atherosclerotic Plaques in Pontine Infarction: An HR MRI Study Isabelle Klein, Philippa Lavallée, Elisabeth Schouman-Claeys, Pierre Amarenco
- P03.130 Evaluation of Cerebrovascular Reactivity with Real Time BOLD MRI in Children William Logan, Bejoy Thomas, Logi Vidarsson, Elizabeth Donner, Manohar Shroff
- P03.131 Is There Any Difference of Susceptibility Vessel Sign on T2*-Weighted Gradient Echo Imaging? Cardioembolic Versus Atherosclerotic Occlusion Jun-Gyu Yang, Kyung-Hee Cho, Hyuk-Won Chang, Chul-Ho Sohn, Sung-Il Sohn
- P03.132 Lesion Patterns, Perfusion-Diffusion Mismatch, and Lesion Growth of Border-Zone Infarcts According to Underlying Stroke Etiology Hoyon Sohn, Sung-Hee Yoo, Dong-Wha Kang
- P03.133 Comparison of Susceptibility-Weighted Imaging (SWI) and T2-Weighted Gradient-Echo Sequence (GE) in a Prospective Series of Ten Patients with Familial Cerebral Cavernomas Angiomas (FCCM) Pierre Labauge, Nicolas Menjot de Champfleur, Christophe Langlois, Denis Hoa, Emmanuelle Lebars, Alain Bonafe, Hugues Duffau

- P03.134 CT Angiography and Aortic Arch Atherosclerosis Dan Capampangan, Ameet Patel, Steven Lester, Lesly Pearce, Bart Demaerschalk, David Dodick, Terri Kiernan, Timothy Ingall, Maria Aguilar
- P03.135 Incidental Findings on Cerebral Angiography Performed for Wada Testing Shaun Smart, Reza Behrouz, Selim Benbadis, James Lefler
- P03.136 Initial Experience with Combined 64-Slice CT Perfusion (CTP) and CT Angiography (CTA) in Routine Practice. Potential and Pitfalls David Tong, Jack Rose, Jackie Phan, Ann Bedenk, Jerome Barakos, Daniel McDermott
- P03.137 Leptomeningeal
 Collateral Response and Extent
 of Ischemic Penumbra in Patients
 with Acute Middle Cerebral Artery
 Occlusion Rakesh Khatri, Gustavo
 Rodriguez, M. Fareed Suri,
 Alexandros Georgiadis, Gabriela
 Vazquez, Adnan Qureshi, Mustapha
 Ezzeddine
- **P03.138** Estimating Permeability from Perfusion Weighted Images as a Marker for Subsequent Intracranial Hemorrhage in Acute Stroke *Richard Leigh, Argye Hillis, Peter Barker*
- **P03.139** Sensitivity of CT for Detecting Posterior Fossa Infarcts David Hwang, Gisele Silva, Karen Furie, David Greer
- P03.140 MR Angiography in Ischemic Stroke Patients from North India Usha Misra, Jayantee Kalita, Gyanendra Kumar, Vikas Bansal, Sunil Jain, Bishwanath Kumar
- P03.141 Prior Endarterectomy Is a Predictor of the Absence of Carotid Stent Restenosis Michael Katsnelson, Andrea Rosso, Dan Gresh
- P03.142 Combined Perihematomal Edema and Hematoma Volume as Predictor of Late Outcome in Patients with Spontaneous Intracerebral Hemorrhage (SICH) Ahmed El-Gengaihy, Hussam Yacoub, Bahareh Hassanzadeh, Rasha Fahmy, Jawad Kirmani
- P03.143 CT Perfusion Abnormalities in TIA Patients: A Marker of Stroke Risk *Jordan* Samuels, Bethany McClenathan, Vivien Lee, Shyam Prabhakaran
- P03.144 Association between Carotid Plaque Burden and Large Artery Atherosclerosis in Acute Ischemic Stroke Hyo Suk Nam, Jae Jung Lee, Yo Han Jung, Jae Hoon Yang, Young Dae Kim, Ji Hoe Heo

- P03.145 Assessment of Measurement Techniques for Degree of Stenosis of Carotid Artery Jennifer Zick, Nauman Tariq, Gabriela Vazquez, Gustavo Rodriguez, Afshin Divani
- P03.146 Diffusion Negative FDG PETCT Positive Strokes Lakshmi Narasimhan Ranganathan, Srinavasaraman Govindarajan, Suriyakumar Govindarajulu, Amol Galge, Rajamani Kumarasamy, Anand Krishnamoorthy
- P03.147 Is Quality of MES More Important Than Its Quantity? Relative Energy Index of Microembolic Signal Better Predicts DWI Lesion Volume and Clinical Outcome of Acute Ischemic Stroke Than Frequency of Microembolic Signal Does Youngbin Choi, Maher Saqqur, Ali Al-Khathaami, Jayme Kosior, Eileen Stewart, Caroline Stephenson, Talip Asil, Jean-Martin Boulanger, Andrew Demchuk

Stroke Subtypes

- P03.148 Predictors of PEG Tube Placement in Acute Ischemic Stroke Devon Conway, Nishant Ranawat, Michael Degeorgia, Amer Alshekhlee
- P03.149 Data Mining Physiologic and Clinical Variables from Hospital Information Sets To Improve Quality of Stroke Care Monica Sapo, Farzad Buxey, Neil Martin, Rodelito Alfonso, Latisha Ali, David Liebeskind, Bruce Ovbiagele, Jeffrey Saver
- **P03.150** Right Hemisphere Stroke Patients May Present with Many and Varied Cognitive Syndromes *Michael Hoffmann, Ren Chen*
- P03.151 Is the Etiological Spectrum of Embolic Stroke Changing in India? Stroke Registry-Based Study Amitav Rath, Jagarlapudi M. K. Murthy, Amrit B. Saxena
- P03.152 Platelet Activation in Subtypes of Acute Ischemic Stroke: A Flow Cytometry Analysis *Anand* Vaishnay, Suellen Ferraris
- P03.153 Stroke Subtypes and Risk Factors in Sri Lanka – Experience of a Stroke Unit Udaya Ranawaka, Muditha Weerakkody, Iruka Dissanayake, Harshani Perera, Jagath Wijesekera
- P03.154 Pure Motor Upper Limb Weakness and Infarction in the Precentral Gyrus: Mechanism of Stroke Maria Stefanidou, Aleksandra Pikula, Ioannis Karakis, Jose Romero, Carlos Kase
- P03.155 Comparison of Lacunar Infarct with Branch Atheromatous Occlusion Sung Rae Kim, So-Hyun Kim, Il-Gon Kim, Eun-Cheol Song, Seong Hye Choi, Choong-Kun Ha, Joung-Ho Rha

P03.156 Intravenous Thrombolysis in Cocaine Associated Ischemic Stroke Alberto Ramos, Yolanda Reyes-Iglesias, Gustavo Ortiz, Sebastian Koch

Infections/AIDS/Prion Disease I

P03.157 Community-Acquired Bacterial Meningitis: A Five-Year Experience at a University Referral Hospital Sandeep Khot, Thanh Ton, Joseph Zunt

P03.158 Septic Encephalopathy with Multiple Microabscesses in Patient with Klebsiella Sepsis *Hyo Suk Nam, Tae Sung Lim, Young Hwa Choi, Eung Yeop Kim, Ji Hoe Heo*

P03.159 Brain Abscess Due to Uncommon Pathogens in Immunocompetent Individuals: A Perspective Study from a Developing Country Sundaram Challa, V. Lakshmi, M. K. Panigrahi, A. K. Purohit

P03.160 Microfasciculation: A
Peculiar Nerve Response in Leprosy
Nerve Damage Márcia Jardim,
Robson Vital, Ariane Oliveira, Mildred
Medeiros, Suzana Corte-Real,
Lucineia Alves, Maria Pessolani, José
Nery, Anna Sales, Euzenir Sarno,
Sérgio Antunes

P03.161 Disseminated Pyomyositis: A Rare Cause of Weakness and Muscle Tenderness with Normal CK and Aldolase Levels Fazeel Siddiqui, Brajesh Agrawal, Thomas Ala

P03.162 Acute Disseminated Encephalomyelitis (ADEM): A Prospective Study on 122 Adults Sabrina Ravaglia, Stefano Bastianello, Eleonora Tavazzi, Arrigo Moglia, Mauro Ceroni, Enrico Marchioni

P03.163 Reactivation of Herpes Viruses in Multiple Sclerosis Patients on Natalizumab Therapy *Nicoline Schiess, Jianchao Zong, Gary Hayward, Peter Calabresi, Avindra Nath*

P03.164 Treatable Solitary Blindness: An Unusual Initial Manifestation of Herpes Simplex Virus Type 2 (HSV2) Meningoencephalitis in a Cancer Patient Lilit Mnatsakanyan, Fernando Goldenberg, Jeffrey Frank

P03.165 Sandfly Virus Meningoencephalitis Asaf Peretz, Miriam Lorberbaum, Hanna Bin, Hagit Peleg, Boris Shihman, Israel Steiner

P03.166 Lyme Dementia Frederic Blanc, Catherine Kleitz, Nadine Longato, Barbara Jung, Nadjette Cremel, François Sellal, Stephane Kremer, Izzie Namer, Jerome De Seze P03.167 Variant Creutzfeldt-Jakob Disease in France and the United Kingdom: Evidence for the Involvement of the Same Agent Strain Jean-Philippe Brandel, Craig Heath, Mark Head, Etienne Levavasseur, Richard Knight, Jean-Louis Laplanche, Jan Langeveld, James Ironside, Jean-Jacques Hauw, Jan Mackenzie, Annick Alperovitch, Robert Will. Stéphane Haïk

P03.168 What Is the Prognostic Significance of Alien Hand Sign in Creutzfeldt-Jakob Disease? *Burton Kennedy, Francis Walker*

P03.169 Characterization of Movement Disorders in Familial Creutzfeld-Jakob Disease (fCJD) Oren Cohen, Joab Chapman, Zeev Nitsan, Lilach Ephraty, Rakefet Tsabary, Shmuel Appel, Amos Korczyn, Ester Kahana, Isak Prohovnik

P03.170 Atypical MRI and CSF Presentation in a Patient with Gerstmann-Sträussler-Scheinker Syndrome Arielle Kurzweil, Eric Lindzen, Tomas Holmlund, Bianca Weinstock-Guttman P03.171 Lack of In Vivo Microglial Activation in Fatal Familial Insomnia as Revealed by [11C]-PK11195 PET Daniela Perani, Valentina Garibotto, Ioana Florea, Mario Matarrese, Andrea Panzacchi, Rosa Maria Moresco, Ferruccio Fazio, Ignazio Roiter, Pietro Cortelli

P03.172 Disruption of White-Matter Pathways in fCJD Isak Prohovnik, Hedok Lee, Oren Cohen, Chen Hoffmann, Hanna Rosenmann, Joab Chapman

P03.173 Diffusion Tensor Imaging in Patients with Creutzfeldt-Jakob Disease Koji Fujita, Shunya Nakane, Masafumi Harada, Tatsuhiko Yuasa, Yuishin Izumi, Ryuji Kaji

P03.174 Correlation between Subcortical Atrophy and Survival of CJD Patients Isak Prohovnik, Oren Cohen, Chen Hoffmann, Hedok Lee, Hanna Rosenmann, Esther Kahana, Joab Chapman

P03.175 Potential Risk Factors for Sporadic Creutzfeldt -Jakob Disease Yusei Shiga, Yoshikazu Nakamura, Kinya Hisanaga, Masahito Yamada, Hidehiro Mizusawa

P03.176 Pro-Active Prion Exposure Risk Reduction in Patients Undergoing Brain Biopsy: It's the Cases That You Don't Suspect That Pose the Greatest Risk J. Goodman, Suzanne Powell



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Poster Session IV

7:00 a.m.-10:00 a.m.

Contemporary Clinical Issues and Case Studies Plenary Session

9:00 a.m.-12:00 p.m.

Washington State Convention and Trade Center, Exhibit Hall 4A



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

This session highlights issues most critical to practicing neurologists, including abstracts related to new therapeutic developments, clinical applications of basic and translational research, and innovative technical developments. In addition to the

Contemporary Clinical Issues discussion, a case study format addresses topics of interest.

"Parental Dementia and Alzheimer Disease Are Associated with Poorer Memory in Middle-Aged Adults: The Framingham Offspring Study"

Stephanie Debette, MD, PhD, Lille, France Discussant: David A. Bennett, MD, Chicago, IL

"The Inclusion of Women of Childbearing Potential (WOCBP) in Clinical Trials With Neurologic Diseases and Procedures" Barbara P. Karp, MD, Potomac, MD

Discussant: Karl D. Kieburtz, MD, FAAN, Rochester, NY

In addition to the Contemporary Clinical Issues discussion, a case study format will address the following topics:

"Sudden Unexplained Death in Epilepsy" Elizabeth Donner, MD, FRCPC, Toronto, ON

"Use of mTOR Inhibitor in the Treatment of Tuberous Sclerosis Complex"

David N. Franz, MD, Cincinnati, OH

"Can the Sunshine Vitamin Throw Light on MS? The Case for Vitamin D in MS Prevention"

Alberto Ascherio, MD, PhD, Boston, MA

"Extending the Time Window for Thrombolytic Therapy for Acute Stroke"

Patrick D. Lyden MD, FAAN, San Diego, CA

NEW Poster Session V

11:30 a.m.-2:30 p.m.

Exhibits

11:30 a.m.-5:00 p.m.

Complimentary luncheon

12:00 p.m.-2:00 p.m.

Washington State Convention and Trade Center, Exhibit Halls 4B-4F

See the latest in pharmaceutical products, medical equipment, publications, and products to assist with practice management, teaching methods, and research activities.

American Academy of Neurology & American Academy of Neurology Foundation Awards Luncheon

12:00 p.m.-1:30 p.m.

Grand Ballroom A-D

Sheraton Seattle Hotel



Join AAN leaders as they honor the recipients of the 2009 AAN Awards. From enterprising high school students to world renowned researchers, this program recognizes some of the top accomplishments in neuroscience research. The Public Leadership in Neurology Award recipient and speaker for 2009 will be Paul G. Allen, co-founder of Microsoft, in recognition of his commitment to brain research. Owner of the Seattle Seahawks

NFL and Portland Trail Blazers NBA franchises, the Sounders FC soccer team—as well as the founder of the Experience Music Project and Science Fiction Museum & Hall of Fame in Seattle—Allen is being recognized for his strong commitment to brain research, including his \$100 million contribution to the founding of the Allen Institute for Brain Science in his hometown of Seattle.

Allen's commitment to nonprofit organizations—exemplified by his nearly \$1 billion in lifetime giving—has earned him the status as one of the top philanthropists in America. After being diagnosed with Hodgkin's lymphoma in 1982 and achieving remission after 22 months of radiation treatments, Allen became particularly motivated to support scientific research and medicine. He launched his first foundation in 1988 to focus specifically on medical research, a broad range of health and human service needs, and the arts.

Past keynote speakers on the importance of neurological research for diseases include Tedy Bruschi, NFL player and stroke survivor; Dame Julie Andrews, Academy Award-winning actress and supporter for Huntington's Chorea and the Hereditary Disease Foundation; Cuba Gooding, Jr., actor and supporter for MS research; Leeza Gibbons, television and radio journalist and advocate for people with Alzheimer's disease; the famed concert pianist and conductor Maestro Leon Fleischer, who continues to play the piano despite dystonia; Mayo Clinic researcher Anthony Windebank, MD; and advocate for Parkinson's disease research Michael J. Fox.

WEDNESDAY, APRIL 29 HIGHLIGHTS

Tickets are available for \$50. Buy a ticket and show your support for award recipients. Student and Junior members of the AAN may attend this event at no cost by requesting a ticket.

Reserve a Department Table and Be Recognized

Bring your department together and gain exposure for your team at the Awards Luncheon by reserving a department table. Give your residents and fellows the chance to sit together with department faculty and chairs in a place of honor among the top minds in the neurology/neuroscience academic community.

To reserve a department table, download the form at www.aan.com/go/am/special/luncheon. If you have questions about reserving a department table, contact Nancy Poechmann at npoechmann@aan.com or (651) 695-2812.

Poster Session VI

4:00 p.m.-7:00 p.m.

Controversial Issues in Practice Session: Health Care Reform for the Obama Administration and a New Congress—First 100 Days and Beyond

5:15 p.m.-7:00 p.m.

Opportunities abound for big changes in health care with the new administration in 2009. President Obama has named health reform as a top priority and has committed to change in the very first days of his presidency. Attend this session to learn about how changes will impact neurology.

NEW AAN Foundation Wine Tasting and Auction

7:00 p.m.-9:30 p.m.

Grand Ballroom, Sheraton Hotel

This exclusive event will offer wine tasting from several Pacific Northwest-based vineyards. Enjoy an array of food, music, and fun. Bid on a variety of silent auction prizes including fine art, wine, entertainment, gifts, and more. The evening culminates with a live auction of exciting prizes. Proceeds benefit the AAN Foundation Research Program. Tickets are limited. Register early.

Tickets are \$100 per guest.



Parkinson's Disease and Movement Disorders

P04.001 Analysis of the Parkinson's Disease Genes, LRRK2 and GBA, in Essential Tremor Lorraine Clark, Naeun Park, Sergey Kisselev, Barbara Ross, Eileen Rios, Joseph Lee, Elan Louis

P04.002 Postural Instability and Gait Difficulty (PIGD) Score Is Independently Associated with Both Cerebellar Cholinergic and Nigrostriatal Dopaminergic Activity in PD Nicolaas Bohnen, Martijn Muller, Robert Koeppe, Kirk Frey, Roger Albin

P04.003 Impaired Vestibulocervical Reflexes Possibly Contribute to Postural Instability in Parkinson Disease *Lea Pollak Pollak*

P04.004 An Ambulatory Persistence Power Curve: Motor Planning Affects Ambulatory Persistence in Healthy Older Adults and Parkinson's Disease *Tim O'Connor*, *Petros Xanthopoulos, Kenneth Heilman, Valeria Drago, Panos Pardalos, Frank Skidmore*

P04.005 Cortical Items in the Parkinson's Disease-Cognitive Rating Scale (PD-CRS) Correlate with Hippocampal Volume Atrophy in Parkinson's Disease with Dementia Javier Pagonabarraga, Gisela Llebaria, Beatriz Gómez-Ansón, López-Mourelo Olga, Ramon Rotger, Miguel Delfino, Jaime Kulisevsky

P04.006 Regional White Matter Hyperintensities and Cognitive Function in Early Parkinson Disease. A Case-Control Study *Turi Dalaker,* Jan Larsen, Michael Dwyer, Dag Aarsland, Mona Beyer, Guido Alves, Kolbjorn Bronnick, Ole-Bjorn Tysnes, Robert Zivadinov

P04.007 Higher Responder Rates with Levodopa/Carbidopa/Entacapone Compared with Levodopa/ Carbidopa When Given as First-Line Levodopa Therapy in Patients with Early Parkinson's Disease Mikko Kuoppamäki, Robert Hauser, Linda Mancione, Nalina Dronamraju, Algirdas Kakarieka

P04.008 SNT-MC17/Idebenone in the Treatment of Friedreich's Ataxia: Initial Safety Data of a 6-Month US Phase 3 Clinical Study David Lynch, Susan Perlman, Geoffrey Holder, Thomas Meier

P04.009 Asymmetry of Interhemispheric Interactions in Drug Naïve Asymmetric PD: A Study on Ipsilateral Silent Period to TMS Letizia Leocani, Francesca Spagnolo, Raffaella Chieffo, Elisabetta Coppi, Laura Straffi, Giancarlo Comi, Maria Antonietta Volonté

P04.010 Common Allelic Variation in SLC2A9 and Parkinson's Disease Peter Pramstaller, Christine Klein, Caroline Hayward, Maurizio Facheris, Veronique Vitart, Susen Winkler, Claudia Volpato, Johann Hagenah, Vladimir Kostic, Andrew Hicks, Alan Wright, Harry Campbell

Parkinson's Disease: Non-Motor Symptoms

P04.011 The PARS Study: Association between Impaired Olfaction and Other Prodromal Features of Parkinson's Disease Andrew Siderowf, Danna Jennings, Kenneth Marek, Matthew Stern, Pars Investigators

P04.012 Cognitive Change without Dementia in Parkinson's Disease: Evidence for Neuropsychological Subtypes James Leverenz, Martha Glisky, Brooke Gerton, Cyrus Zabetian, Debby Tsuang, Alida Griffith, Pinky Agarwal, Karen Olson, Jeffrey Shaw, Steve Millard, G. Watson

P04.013 Is There Difference in Gastric Emptying of Parkinson's Disease Patients under Long-Term I-Dopa Therapy between with and without Motor Fluctuations? An Analysis Using the 13C-acetate Breath Test Yuji Tanaka, Hiroshi Nishida, Megumi Yamada, Takeo Sakurai, Yuichi Hayashi, Akio Kimura, Isao Hozumi, Takashi Inuzuka

P04.014 Apathy and Executive Function in Parkinson's Disease without Dementia Are Not Correlated in Young Patients Merce Martinez-Corral, Javier Pagonabarraga, Gisela Llebaria, Berta Pascual-Sedano, Jaime Kulisevsky

P04.015 Impulse Control Disorders: Long-Term Outcomes in Parkinson's Disease Patients Alex Desautels, Michel Panisset

P04.016 Cognitive Procedural Learning and Long-Term Memory in Patients with Parkinson's Disease Extensively Trained in the Tower of Hanoi Puzzle Sharon Hassin-Baer, Avi Kami, Oren Cohen, Eli Vakil

P04.017 Neuropsychological Correlates of Everyday Functioning in Parkinson's Disease Laura Brennan, Katia Duey, Emily Rosenthal, Howard Hurtig, Daniel Weintraub, John Duda, Christopher Clark, Jason Karlawish, Andrew Siderowf

P04.018 Screening for Orthostatic Hypotension in Patients with Parkinson's Disease May Help To Decrease Morbidity and Mortality: Database Analysis from an Acute Rehabilitation Facility Kesha Wilford, Alissa Leonard, Terry Ellis, Joy DePiero, Douglas Katz, Anna Hohler

P04.019 Emotion Recognition in Early Parkinson Disease *María Roca, Teresa Torralva, Anabel Chade, Oscar Gershanik, Gonzalo Gómez Arévalo, Facundo Manes*

P04.020 Late-Life Cognitive Function in Non-Demented Elderly Men and the Incidence of Parkinson's Disease G. Webster Ross, Robert Abbott, Helen Petrovitch, Caroline Tanner, Kamal Masaki, Lon White

Aging and Dementia: Imaging II

P04.021 Diffusion Tensor Imaging in Subcortical Vascular Mild Cognitive Impairment and Subcortical Ischemic Vascular Dementia So-Hyun Kim, Sung-Rae Kim, Seong Hye Choi, Joung-Ho Rha, Choong-Kun Ha

P04.022 Independent Effects of Age and Alzheimer's Disease on Gray Matter Volume *Cyrus Raji*, Oscar Lopez, Lewis Kuller, Owen Carmichael, James Becker

P04.023 Longitudinal Changes in Cognition and Cerebrovascular Disease in the Alzheimer's Disease Neuroimaging Initiative Owen Carmichael, David Drucker, Christopher Schwarz, Evan Fletcher, Oliver Martinez, Mitsuhiro Yoshita, Jing He, Charles DeCarli

P04.024 Mapping Effects of Body Mass Index, Insulinemia, and Diabetes Mellitus on Brain Structure in Cognitively Normal Elders April Ho, Cyrus Raji, Neelroop Parikshak, James Becker, Oscar Lopez, Lewis Kuller, Xue Hua, Alex Leow, Arthur Toga, Paul Thompson

P04.025 Regional Brain and Ischemic Lesion Volumes in Women with Cognitive Impairment Following Exposure to Conjugated Equine Estrogen Therapies (CEE): The Women's Health Initiative Magnetic Resonance Imaging Study (WHIMS-MRI) Cheryl Bushnell, Hilary Tindle, Mark Espeland, Sarah Jamillo, Elias Melhem. Susan Resnick

P04.026 Vascular and Metabolic Associations within the ADNI Dataset Beth Kuczynski, Evan Fletcher, Cindee Madison, Susan Landau, Charles DeCarli

P04.027 Education and Occupation Provide Reserve Capacity in Frontotemporal Dementia Barbara Borroni, Enrico Premi, Chiara Agosti, Antonella Alberici, Valentina Garibotto, Barbara Paghera, Silvia Lucchini, Daniela Perani, Alessandro Padovani P04.028 Reduction of AChE Activity in Neurodegenerative Diseases: A [11C]MP4A PET Comparative Study in aMCl, pAD and LBD Valentina Garibotto, Ioana Florea, Alessandra Marcone, Rosa Maria Moresco, Assunta Carpinelli, Andrea Panzacchi, Giada Caramatti, Stefano Cappa, Sandro Iannaccone, Ferruccio Fazio, Daniela Perani

P04.029 Cerebral Cortical Complexity Measures in Normal Aging and Alzheimer's Disease *Richard King, Kristen Kennedy, Karen Rodrigue, Naftali Raz, Denise Park*

P04.030 [11C]PIB-PET in the Differential Diagnosis of Alzheimer's Disease and Frontotemporal Lobar Degeneration: An Update Gil Rabinovici, Ansgar Furst, Elizabeth Mormino, James O'Neill, Tyler Steed, Maria Gorno Tempini, Bruce Miller, William Jagust

P04.031 Brain Localization of Cognitive Domains with Diffusion MRI Ely Simon, Efrat Sasson, Glen Doniger, Ofer Pasternak, Yaniv Assaf

P04.032 Cognitive Impairment Risk: White Matter Hyperintensity Progression vs. Baseline Volume *Lisa Silbert, Catherine Nelson, Louis Perkins, Diane Howieson, Hiroko Dodge, Jeffrey Kaye*

P04.033 Aberrant Tau Pathology Underlies 1H MR Spectroscopic Alterations in Alzheimer's Disease Melissa Murray, Dennis Dickson, Clifford Jack, Jr., Kejal Kantarci

P04.034 The Cortical Signatures of Frontotemporal Dementias: Regionally-Specific Thinning Relates to Symptom Types and Severity Akram Bakkour, Daisy Sapolsky, Alyson Negreira, Paige Nalipinski, David Caplan, John Growdon, Bradley Hyman, Bradford Dickerson

P04.035 White Matter Changes in Persons Who Will Develop Dementia *Cyrus Raji, Oscar Lopez, Lewis Kuller, James Becker*

P04.036 Metabolic Compensation in Alzheimer's Disease Anna Caroli, Marco Lorenzi, Cristina Geroldi, Flavio Nobili, Barbara Paghera, Matteo Bonetti, Maria Cotelli, Giovanni Frisoni

P04.037 Iron as a Potential Pathogen and Biomarker in Frontotemporal Dementia Using High-Field T2 MRI Aashish Kabra, Sonia Brar, David Henderson, Earl Zimmerman

P04.038 Intact Autoregulation of Cerebral Blood Flow in Mild Alzheimer's Disease Allyson Zazulia, Tom Videen, John Morris, William Powers

P04.039 White Matter
Hyperintensities on MRI Are
Related to the Severity of Medial
Temporal Atrophy, a Biomarker of
Neurodegenerative Disease Jason
Appel, Nisha Bhatia, Warren Barker,
Elizabeth Potter, Qian Shen, Yougui
Wu, Elizabeth Schofield, Maria Greig,
David Loewenstein, Ranjan Duara

P04.040 High Resolution Hippocampal Subfield Anatomy in Dementia Using 7T MRI Geoffrey Kerchner, Christopher Hess, Kathryn Hammond, Duan Xu, Douglas Kelley, Daniel Vigneron, Sarah Nelson, Bruce Miller

Headache II

P04.041 Extracellular Sodium Increases Neuron Excitability in Migraine Michael Harrington, Xianghong Yang, Robert Cowan, Alfred Fonteh

P04.042 Are There Differences between Cephalic and Extracephalic Cutaneous Allodynia in Chronic Migraine? *Nathalie Guy, Ana Marques, Radhouane Dallel, Pierre Clavelou*

P04.043 Cervicogenic Headache: A Possible Manifestation of Peripheral Vestibular Dysfunction? *Neil Cherian, Mark Stillman, John Oas, Frank Gargano, Vince Whalen, Stewart Tepper*

P04.044 Migraine with Aura: Mutation Analysis of the SLC1A3 Gene Fusun Cakir, Fethi Idiman, Afig Berdeli

P04.045 Are Subclinical White Matter Hyperintensities in Migraine Patients a Marker of Severity Disease? Renata Rao, Paolo Liberini, Anna Rosati, Elisabetta Venturelli, Stefano Gipponi, Eluisa Sapia, Claudia Ambrosi, Alessandro Padovani

P04.046 Processing Visual Stimuli in Cluster Headache: A Combined Functional and Tractography Study at 3 T Maria Rocca, Martina Absinta, Bruno Colombo, Elisabetta Pagani, Andrea Falini, Giancarlo Comi, Massimo Filippi

P04.047 Hypothalamic Changes in Patients with Cluster Headache: A Diffusion Tensor Imaging Study *Shuu-Jiun Wang, Jiing-Feng Lirng, Jong-Ling Fuh, Ching-Po Lin*

P04.048 The Role of Oxidative Stress in Pediatric Migraine *Füsun Alehan, Ilknur Erol, Derya Aldemir, Ersin Ogus*

P04.049 Mechanisms of Occipital Nerve Stimulation (ONS): A Double-Blind, Placebo-Controlled, Crossover Study Using Naloxone and Flumazenil *Brian Burns, Juana Marin, Peter Goadsby* P04.050 Prevalence and Consistency of Non-ICHD Migraine-Associated Symptoms across Four Migraine Attacks David Dodick, Robert Kaniecki, Ninan Mathew, Frederick Derosier, Jonathan White, Susan McDonald

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When: April 25-May 2

Where: 2009 AAN Annual Meeting, 6th Floor, West Lobby Washington State Convention and Trade Center

Join Us for the Gallery Reception

You're invited to a reception on Monday, April 27. Enjoy light hors d'oeuvres and beverages from 6:00 p.m. to 7:30 p.m. Vote for "Best in Show" and demonstrate your appreciation for the artistic talents of your colleagues!

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Neurologic Education: Student and Resident Education

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P05.002 Choosing a Neurology Residency Program: What Variables Are Important? A Survey Study Sandipan Pati, Andrew J. Westwood, Anubhav Sharma, A. Piasecka, Joseph Sirven

P05.003 Neurology Residency Training Programs in Argentina *Guido* Falcone, Maria Fernandez, Galeno Rojas, Juan Tartari, Maria Ysrraelit, Jorge Correale

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P05.006 Searching for Unicorns: The Neurologist as Diagnostician for Rare Disorders *Dennis Mosier, Robert* Smith

Neurologic Education: Technology and Education

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P05.010 FrontalCortex.com: A Website for Online Learning in Neurology *J. Douglas Miles*

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P05.012 Geriatric Neurology Web Module for Third-Year Neurology Clerkship *Heather Anderson, Mary McDonald*

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P05.014 Differences in Pain Parameters among Patients with Complex Regional Pain Syndrome, Lumbar or Cervical Radiculopathy and Healthy Controls Marie Wolanin, Robert Schwartzman, Vasko Gulevski, Guillermo Alexander, John Grothusen

P05.015 Neurologic Safety of Treatment with NGX-4010, a High-Concentration Capsaicin Patch, in Patients with Postherpetic Neuralgia Misha-Miroslav Backonja, Jeffrey Tobias

P05.016 TRO19622, a Mitochondrial Targeted Neuroprotective Compound, Prevents and Reverses Paclitaxel-Induced Painful Peripheral Neuropathy Rebecca Pruss, Thierry Bordet, Wenhua Xiao, Gary Bennett

P05.017 A Double-Blinded, Placebo-Controlled, Cross over Study of Ketamine, Fentanyl and Diazepam in Experimental Pain in 21 Healthy Males Juana Marin, Evelyn Kinsella, Peter Goadsby

P05.018 Mental Motor Imagery as an Index of Arm and Leg Pain Severity *H. Branch Coslett, Adam Burkey*

P05.019 Long-Term Treatment of Diabetic Neuropathy with Lacosamide: Results from Two Long-Term Open-Label Trials Ronald Graf, Wendy Frye, Jeffrey Simpson, Gary Jay, Karen Simpson, Barbara Tzschaschel, Sabine Bongardt, Brigitte Koch

P05.020 Milnacipran Has Low Potential for Drug-Drug Interactions Antonia Periclou, Stephen Coutts, Srinivas Rao, Robert Palmer, Kim Thacker, Joel Trugman

P05.021 Identification of Symptom Clusters in Patients with Fibromyalgia Robert Bennett, Irwin Russell, Joseph Cappelleri, Andrew Bushmakin, Gergana Zlateva, Alesia Sadosky

P05.022 Pregabalin in Fibromyalgia
– Systematic Review of Efficacy and
Safety from Company Clinical Trial
Reports Sebastian Straube, Sheena
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P05.023 The Effect of Milnacipran on Cognitive Function and Fatigue in Fibromyalgia Patients *Kim Thacker, Joel Trugman, Srinivas Rao, Yong Wang*

P05.024 The Effect of Milnacipran on Pain Modulation in Fibromyalgia: An fMRI Analysis Richard Gracely, Frank Petzke, Hanke Marcus, Karin Jensen, Eva Kosek, Martin Ingvar, Ernest Choy, Steven Williams, Olivier Vitton, M. Groc, Yves Mainguy, Joel Trugman, Srinivas Rao

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P05.026 Silas Weir Mitchell and His Research on the Cerebellum *Don Todman*

P05.027 Association of Mercurial Exposure in Leo Kanner's Original Case Series Entitled "Autistic Disturbances of Affective Contact" Jay Rosenberg, Daniel Olmsted, Mark Blaxill

P05.028 Does Susac's Syndrome Explain Goya's Artistic Evolution? *Michael Dobbs*

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P05.030 Contribution of Near Eastern Scholars to Neurology: El Zahrawi (Albucasis) 993-1064 AD Sonia Souayah, Akram Shhadeh, Nizar Souayah

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P05.034 The Vaccine Panic That Wasn't *Robert Herndon*

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P05.044 Ultrastructural Study of the Phrenic Nerve in Streptozotocin-Induced Diabetic Rats: Effects of Insulin Treatment Valeria Paula Fazan, Omar Rodrigues Filho, Caroline Jordão, Kenneth Moore

P05.045 A New Marker for Chronic Demyelination in Diabetic Neuropathy *Nizar Souayah*, *Abu Nasar*, *Nataliya Krivitskaya*, *Peter Siao-Tick-Chong*, *Russell Chin*, *Amer Alshekhlee*, *Hafiz Khan*, *Sami Khella*, *Timothy Cunningham*

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P05.047 Efficacy and Safety of Tapentadol ER for Diabetic Peripheral Neuropathic Pain: Results of a Randomized-Withdrawal, Double-Blind, Placebo-Controlled Phase III Study Mila Etropolski, Douglas Shapiro, Akiko Okamoto, Christine Rauschkolb-Loeffler, Juergen Haeussler

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P05.049 Neuropathy in a Population with Inflammatory Bowel Disease in Olmstead County, Minnesota *Juan Figueroa*, *Edward Loftus*, *P. James B. Dyck*, *Christopher Klein*

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P05.054 Chemotherapy-Related Polyneuropathy Effect on Quality of Life in Patients with Lymphoma Byung-Jo Kim, S. Charles Cho, Hak-Jae Roh, Yuen So

P05.055 Pain Contributes to Motor Symptoms in Carpal Tunnel Syndrome Stefano Tamburin, Carlo Cacciatori, Silvia Marani, Antonio Fiaschi, Giampietro Zanette

P05.056 Pregabalin Is Effective in the Treatment of Posttraumatic Peripheral Neuropathic Pain Robert van Seventer, Flemming Bach, Cory Toth, Michael Serpell, Ian McKenzie, Jane Temple, T. Kevin Murphy

P05.057 The Distribution of Lesions among 281 Neuralgic Amyotrophy Patients *Mark Ferrante, Asa Wilbourn*

P05.058 The Demographic Features of Neuralgic Amyotrophy *Mark Ferrante, Asa Wilbourn*

P05.059 Predictors of Neuropathy after Lung Transplantation *Victoria Lawson, Laura Voth, Susan Moffat-Bruce, David Nunley, Patrick Ross, Staci Carter, Amy Pope-Harman*

P05.060 Self-Mutilation in a Patient with Mitochondrial Disease *Semra Saygi, Füsun Alehan, Beril Talim*

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P05.062 Response of Periodic Limb Movements While Awake (PLMW) to Intra-Operative Pallidal Stimulation: Case Report and Video *Bryan Klassen*, *Virgilio Evidente*, *Mark Lyons*

P05.063 Greater Improvements across Quality of Life Domains Following Unilateral Deep Brain Stimulation Surgery in the GPi as Compared to the STN: Results from a Randomized, Controlled Trial in Parkinson Disease Laura Zahodne, Michael Okun, Kelly Foote, Hubert Fernandez, Ramon Rodriguez, Lindsey Kirsch-Darrow, Samuel Wu, Dawn Bowers

P05.064 A Controlled Study of the Long-Term Cognitive Outcome of Bilateral Subthalamic Nucleus Deep Brain Stimulation Amy Williams, Gladys Arzola, Adriana Strutt, Richard Simpson, Joseph Jankovic, Michele York

P05.065 Longitudinal Change in Apathy Following Deep Brain Stimulation for Parkinson's Disease Lindsey Kirsch-Darrow, Michael Marsiske, Michael Okun, Kelly Foote, Dawn Bowers

P05.066 Resonance in Subthalamo-Cortical Circuits in Parkinson's Disease Alexandre Eusebio, Alek Pogosyan, Shouyan Wang, Bruno Averbeck, Louise Doyle Gaynor, Stéphanie Cantiniaux, Tatiana Witjas, Patricia Limousin, Jean-Philippe Azulay, Peter Brown

P05.067 Differential Effects of 5 Hz and 1 Hz Premotor Repetitive Transcranial Magnetic Stimulation (rTMS) on Cortical Excitability and Physical Fatigability in PD Jau-Shin Lou, Diana Dimitrova, Grace Arnold, Heather Belding, John Nutt, Byung Park

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P05.070 Weight Changes Associated with Unilateral STN DBS and Advanced PD Harrison Walker, Michael Lyerly, Eric Lee, Natividad Stover, Gary Cutter, Barton Guthrie, Ray Watts

P05.071 Weight Change Following Deep Brain Stimulation for Movement Disorders Roy Strowd III, Michael Cartwright, Leah Passmore, Thomas Ellis, Stephen Tatter, Mustafa Siddiqui

P05.072 Study of Orthostatic Regulation in Patients with Parkinson's Disease Receiving Deep Brain Stimulation Laura Wu, Jyhgong Gabriel Hou, Eugene Lai

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P05.078 Assessment of Phenytoin Use for In-Hospital Seizures at an Academic Medical Center *Madeline Fields, Jacqueline French, Shani Zitter, Ashish Joshi, Daniel Labovitz*

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P05.090 The Effects of Conversion from Enzyme-Inducing Anticonvulsants to Topiramate on Serum Lipids and C-Reactive Protein Scott Mintzer, Christopher Skidmore, Sara Rankin, Michael Sperling

P05.091 Differential Effects of Rufinamide in Adults with Partial Onset Seizures as a Function of Concomitant Antiepileptic Drug Therapy: A Post-Hoc Analysis Martin Brodie, Honglan Li, Wenquan Wang, Milind Narurkar, Sharon Richardson

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P05.108 Emergency Department Misdiagnosis of Cerebrovascular Events in the Era of Modern Neuroimaging: A Systematic Review David Newman-Toker, Karen Robinson, Jonathan Edlow

P05.109 Incidence of Stroke and Stroke Subtypes in a Multi-Ethnic Population. Results from Stroke among Hispanic and African-American Regional Populations (SHARP) Study M. Fareed Suri, Gabriela Vazquez, Shafiuddin Ahmed, Adnan Qureshi

P05.110 Stroke in Young, Asian Women; Risk Factors, Sub Types, Presentation and Outcome Moahhamd Wasay, Subash Kaul, N. Ramani, Padma Gunaratne, Bindu Menon, Ahmed Khalifa, Niphon Poungvarin, Mohammad Saadatnia, Robert Gan, Alper Dai, Man Mehndiratta

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P05.118 Antithrombotic Medication Utilization and Relationship to Outcomes among Patients with Carotid Dissection in United States Yousef Mohammad, M. Fareed Suri, Muhammad Zeeshan Memon, Adnan Qureshi

P05.119 Informal Advice Can Influence How and When TIA Patients Present for Medical Assessment Dulka Manawadu, David Collas

P05.120 Association of ABCD2 Score with the Presence of Steno-Occlusive Disease among Patients with Transient Ischemic Attacks Douglas Valenta, Gabriela Vazquez, Gustavo Rodriguez, Kamakshi Lakshminarayan, M. Fareed Suri, Adnan Qureshi

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P05.122 Cognitive Impairment in Multiple Sclerosis Early after the Second Episode Does Not Predict Disability Five Years Later Bruno Brochet, Melissa Bonnet, Aurélie Ruet, Jean Christophe Ouallet, Mathilde Deloire

P05.123 A Retrospective Analysis in Patients with Relapsing-Remitting Multiple Sclerosis – Results of the Data Collection in Multiple Sclerosis "TYPIC" Mathias Maurer, Petra Schicklmaier, Gabriele Niemczyk, Stefan Schwab

P05.124 Long-Term Effect of Interferon-Beta on Disease Severity in Relapsing-Remitting Multiple Sclerosis Patients *Liliana Patrucco, Juan Rojas, Edgardo Cristiano*

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P05.126 Long-Term Effects of Interferon Beta-1a Dose on Relapse Rate in Relapsing-Remitting Multiple Sclerosis: Results from a Post-Hoc Analysis of PRISMS Study Data Douglas Jeffery, Victor Rivera

P05.127 Association between Multiple Sclerosis and Candida Species: Evidence from a Case-Control Study Julián Benito-León, Diana Pisa, Patricia Calleja, Ruth Alonso, María Diaz-Sánchez, M. L. Borbolla, M. Algora, Luis Carrasco

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P05.132 A Clinical Retrospective Report on Mitoxantrone Treatment in Active Multiple Sclerosis Patients *Stanley Hum, Yves Lapierre*

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POSTER SESSION V

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- P05.135 Effect of Natalizumab on Relapse Outcomes in Patients with Relapsing MS Who Experience MRI Activity during Treatment David Bates, Emmanuel Bartholome, Amy Pace, Robert Hyde, Christophe Hotermans
- **P05.136** Treatment with Oral Fingolimod (FTY720), 0.5 or 1.25 mg, for 14 Days Has No Effect on Airway Resistance *Robert Schmouder,* Cherrie Liu, Olivier David, Nan Wang
- P05.137 Improvement in Qualityof-Life Outcomes with Natalizumab in Multiple Sclerosis Patients with Highly Active Disease Bernd Kieseier, Norman Putzki, David Bates, Michael Hutchinson, Amy Pace, Robert Hyde
- P05.138 Improved Quality of Life in Patients with Relapsing-Remitting Multiple Sclerosis on Long-Term Intramuscular Interferon Beta-1a: A 15-Year Study Bianca Weinstock-Guttman, Robert Bermel, Dennis Bourdette, Pamela Foulds, Phil You, Richard Rudick
- P05.139 Comparing Patient-Reported and Physician-Reported EDSS Scores in Patients from ASSURANCE Bianca Weinstock-Guttman, Robert Bermel, Dennis Bourdette, Pamela Foulds, Phil You, Richard Rudick
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- P05.141 Acute and Chronic Response to Levodopa in Diffuse Lewy Body Disease (DLB) Claudio Lucetti, Chiara Logi, Paolo Del Dotto, Caterina Berti, Roberto Ceravolo, Cristina Dolciotti, Filippo Baldacci, Giuseppe Rossi, Ubaldo Bonuccelli
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- P05.145 Factors Influencing Quality of Life and Coping Processes of Patients with Multiple Sclerosis: Baseline Data of an International, Observational Study Carlo Pozzilli, Carolin Miltenburger, Oliver Gunther, Joerg Bugge, Ugo Ecari
- P05.146 Which Is the Best Indication to Early Treat with Interferon β the Clinically Isolated Syndromes Based on the Clinical Onset? A Cochrane Meta-Analysis Marinella Clerico, Fabrizio Faggiano, Jacqueline Palace, Maria Tintore-Subirana, Luca Durelli
- P05.147 Extensive Erosive Dermatitis Associated with Hypereosinophilia under Natalizumab Treatment Helene Zephir, Olivier Carpentier, Olivier Outteryck, Arnaud Lacour, Didier Ferriby, Patrick Vermersch
- P05.148 Immunomodulatory Drug Treatment in Multiple Sclerosis: Effect on Survival David Orion, Joab Chapman, Mark Dolev, Rakefet Tsabari, Anat Achiron
- P05.149 Development of a New Semantic Category Assessment Instrument in the Global/Local Processing: Preliminary Data of Multiple Sclerosis Subjects Teresa Ambrosio, Maria Esmeralda Quartuccio, Claudio Gasperini, Massimiliano Prencipe, Ada Francia
- **P05.150** The Effect of Disease-Modifying Therapy on Disability Status in a Longitudinal Retrospective Analysis of a Multiple Sclerosis Center Database *Michael Wells, Stephen Kirzinger, Gary Cobbs*
- P05.151 Cognitive Impairment and Mental Fatigue in Multiple Sclerosis and Myasthenia Gravis Serkan Ozakbas, Berril Donmez Colakoglu, Esra Coskuner Poyraz, Billur Celik, Muhtesem Gedizlioglu, Egemen Idiman
- **P05.152** Use of MRI in Clinical Decision-Making in Multiple Sclerosis Hallie Kendis, D. Lynn, Anne Cross, Benjamin Greenberg, Michael Racke
- P05.153 Health Care Utilization and Cost Comparison of Patients with Multiple Sclerosis Treated with Natalizumab or Interferon Beta 1a SC: A Propensity Score Matched Analysis Beth Nordstrom, Kathy Fraeman, Contessa Fincher, Dennis Meletiche
- P05.154 Long-Term Improvement in the Disability of Worsening MS Patients with Plasma Exchange: Results of a 25-Year Follow-up Study Bhupendra Khatri, Michael McQuillen, Sergey Tarima, Mary Dukic, John Kramer

P05.155 Clinical Course in Multiple Sclerosis Patients Presenting with a History of Progressive Disease *Krupa* Pandey, Colleen Farrell, Christine Hannigan, Tracy DeAngelis, Stephen Krieger, Aaron Miller, Fred Lublin

Multiple Sclerosis: Visual Outcomes

- P05.156 Correlation between N-acteylaspartate (NAA) Levels and RNFL Thickness Measures in a Large Multiple Sclerosis (MS) Cohort Ari Green, Radhika Srinivasan, Sarah Nelson, Darin Okuda, Douglas Goodin, Stephen Hauser, Daniel Pelletier
- P05.157 Diffusion Tensor and Magnetization Transfer MRI of the Human Optic Nerve In Vivo Correlates with Retinal Nerve Fiber Layer Thickness in Multiple Sclerosis Seth Smith, Zoe Williams, Daniel Reich, John Ratchford, Sheena Farrell, Eliza Gordon-Lipkin, Peter van Zijl, Neil Miller. Peter Calabresi
- P05.158 Associations between Retinal Nerve Fiber Layer Abnormalities and Neurologists' Assessments of Optic Disc Pallor and Afferent Pupillary Defects Deanna Cettomai, Girish Hiremath, John Ratchford, Arun Venkatesan, Benjamin Greenberg, Carlos Pardo-Villamizar, Douglas Kerr, Justin McArthur, Peter Calabresi
- P05.159 Low-Contrast Letter Acuity Scores Correlate Better with Severity of Multiple Sclerosis Girish Hiremath, John Ratchford, Christina Warner, Peter Calabresi
- P05.160 Evidence for Axonal Loss and Prominent Color Vision Deficits in Children with Multiple Sclerosis or Clinically Isolated Syndrome Kendall Nash, Sara Teasdale, Dorothee Chabas, Jonathan Strober, Emmanuelle Waubant, Ari Green
- P05.161 Retinal Nerve Fibre Layer Thickness and Optic Nerve Lesions in Acute Monosymptomatic Optic Neuritis Klaus Kallenbach, Dan Fuglø, Helle Simonsen, Birgit Sander, Henrik Larsson, Michael Larsen, Jette Frederiksen
- P05.162 A Comparison of Cirrus vs. Stratus Optical Coherence Tomography for Measuring Retinal Changes Christina Warner, Girish Hiremath, Stephanie Syc, Sheena Farrell, Amy Conger, Teresa Frohman, Esther Bisker, Laura Balcer, Elliot Frohman, Peter Calabresi
- **P05.163** Reproducibility of Cirrus Optical Coherence Tomography (OCT) in Multiple Sclerosis Stephanie Syc, Christina Warner, Girish Hiremath, Sheena Farrell, Laura Balcer, Elliot Frohman. Peter Calabresi

- P05.164 Reproducibility of Serial Optical Coherence Tomography without Pharmacologic Pupillary Dilatation Salim Abboud, Robert Bermel, Diane Ivancic, Tammy Skaramagas, Jeffrey Cohen
- P05.165 Adverse Impact of Visual Comorbidities on Visual Disability in MS Ruth-Ann Marrie, Gary Cutter, Tuula Tyry, Denise Campagnolo, Timothy Vollmer
- P05.166 Visual Quality of Life and Its Correlates for Patients with Multiple Sclerosis Ben Newman Wright, Arnold Wilkins, Yannis Zoukos, Thomas Thomaides

Aging and Dementia: Clinical I

- P05.167 Roles of Education and Medial Temporal Atrophy in the Diagnosis of Amnestic MCI and Mild Dementia James Mortimer, Amy Borenstein, David Loewenstein, Elizabeth Potter, Jason Appel, Maria Greig, Yougui Wu, Ashok Raj, Elizabeth Schofield, Ranjan Duara
- P05.168 Time Course of Diagnostic Features of Lewy Body Disease Glenn Smith, Bradley Boeve, Shane Pankratz, Kelly Jacobson, Jeremiah Aakre, Ferman Tanis
- P05.169 The ADAS-cog's Performance as a Measure – Lessons from the ADNI Study: Part 2 – Evaluation Using Modern Psychometric Methods Stefan Cano, Holly Posner, Paul Aisen, Ola Selnes, Yaakov Stern, Ronald Thomas, Michael Weiner, John Zajicek, Scott Zeger, Jeremy Hobart
- P05.170 A Phase III, Placebo-Controlled, Double-Blind, Randomized Trial Assessing the Effect of Tramiprosate on Hippocampus Volume Change in Patients with Mildto-Moderate Alzheimer's Disease (The Alphase Study) Serge Gauthier, Paul Aisen, Steven Ferris, Denis Garceau, Daniel Saumier, Anh Duong, John Sampalis
- P05.171 How Well Does the ADAS-cog Measure the Spectrum of Alzheimer's Disease Severity? An Item Response Theory Analysis Jared Benge, Steve Balsis, Lisa Geraci, Paul Massman, Rachelle Doody
- P05.172 Long-Term Cognitive Impairment, MRI Findings and History of Coronary Artery Bypass Grafting Surgery (CABG) Ranjan Duara, Warren Barker, Nisha Bhatia, Elizabeth Potter, Jason Appel, Qian Shen, Ashok Raj, Michael Malek-Ahmadi, Yougui Wu, Elizabeth Schofield, Maria Greig, David Loewenstein

POSTER SESSION V

P05.173 White Matter
Hyperintensities Are Associated
with Impaired Attention and Gait
in Normally Functioning Elderly
Subjects Melissa Murray, Matthew
Senjem, John Hollman, Maria Shiung,
Stephen Weigand, Dennis Dickson,
Ronald Petersen, Clifford Jack

P05.174 Screening for REM Sleep Behavior Disorder in Patients with Cognitive Impairment and/or Parkinsonism: Updated Validation Data on the Mayo Sleep Questionnaire Bradley Boeve, Jennifer Molano, Tanis Ferman, Glenn Smith, Siong-Chi Lin, Kevin Bieniek, Wael Haidar, Maja Tippmann-Peikert, David Knopman, Neill Graff-Radford, Vernon Pankratz, Yonas Geda, Ronald Petersen, Michael Silber

P05.175 Two Distinct Variants of Right Temporal Frontotemporal Lobar Degeneration Keith Josephs, Jennifer Whitwell, David Knopman, Bradley Boeve, Joseph Parisi, Dennis Dickson, Robert Ivnik, Glenn Smith, Clifford Jack, Ronald Petersen

P05.176 Mild Cognitive Impairment +/- Subsequent Dementia Associated with Underlying Lewy Body Disease Jennifer Molano, Bradley Boeve, Tanis Ferman, Glenn Smith, Joseph Parisi, Dennis Dickson, David Knopman, Neill Graff-Radford, Yonas Geda, Robert Ivnik, John Lucas, Ronald Petersen

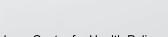
Looking to the Future...

AAN Center for Health Policy

Guidelines, Practice, and Advocacy Open House

"Digital Demos" Presentation
Technology Solutions That You Can Afford

Monday, April 27, 2009 3:00 p.m.-5:30 p.m. Sheraton Ballroom



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- NEW! Attend the "Digital Demos" presentation, where your fellow neurologist colleagues will present low-cost, easy-to-implement electronic office solutions that can help move your practice into the 21st century and take advantage of Medicare PQRI bonuses.
- View guideline and practice poster presentations, talk to guideline authors, and take home free copies of practice tools, coding resources, and tips on how to improve your practice.
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INTEGRATED NEUROSCIENCE SESSION: ADVANCES IN HEADACH

Wednesday, April 29 / 2:00 p.m.-6:00 p.m.

Coordinators: David Dodick, MD and Peter Goadsby, MD, PhD

Platform Session / 2:00 p.m.-3:30 p.m. / Room 3AB

IN4-1.001

Migraine Symptoms in Middle-Age Predict Brain Infarcts in Late-Life: A 25-Year Longitudinal Population-Based MRI Study Ann Scher, Anna Ghambaryan, Sigurdur Sigurdsson, Larus Gudmundsson, Gudny Eiriksdottir, Thor Aspelund, Mark van Buchem, Vilmundur Gudnason, Lenore Launer

2:15 p.m.

MRI with Intrathecal Gadolinium To Detect a Cerebrospinal Fluid Leak: Results of a Prospective Open Label Single Centre Observational Cohort Ludo Vanopdenbosch, Jan Casselman

2:30 p.m.

IN4-1.003 Interictal Sensitization in Migraine Todd Schwedt, Robert Gereau IV, Missy Krauss, Evan Kharasch

2:45 p.m.

IN4-1.002

IN4-1.004 Clinical and Neuroimaging Evidence of Interictal Cerebellar Dysfunction in FHM 2 Daniela Grimaldi, Caterina Tonon, Sabina Cevoli, Giulia Pierangeli, Emil Malucelli, Giovanni Rizzo, Rossana Terlizzi, Elisa Sancisi, Stefano Zanigni, Stefano Soriani, Pasquale Montagna, Bruno Barbiroli, Raffaele Lodi, Pietro Cortelli

3:00 p.m.

IN4-1.005

Transcranial Magnetic Stimulation for the Treatment of Migraine Aura Philip Holland, Carol Schembri, Joe Fredrick, Peter Goadsby

3:15 p.m.

IN4-1.006

Clinical Profile of the Novel Oral **CGRP Receptor Antagonist** Telcagepant for the Acute Treatment of Migraine in Two Phase III Randomized Placebo-Controlled Trials Tony Ho, Michel Ferrari, David Dodick, Robert Shapiro, Hans-Christopher Diener, Sylvia Lucas, Vince Galet, James Kost, Xiaoyin Fan, Heather Leibensperger, Samar Froman, Kaiyin Fei, Christopher Assaid, Christopher Lines, Hille Koppen, Paul Winner, Kathryn Connor

Poster Session / 3:30 p.m.-4:30 p.m. / Room 3AB

IN4-2.001 Single Nucleotide Polymorphisms of the Serotonin Transporter Gene in Migraine Bettina Bayerer, Hans-Christopher Diener, Volker Limmroth

IN4-2.002 Aura Does Not Predict Right-to-Left Shunt in Patients with Chronic Migraine Ashley Kim, William Young, Tanner Van Dell, Raya Terry, Stephen Silberstein, Anthony Guarino, Stephanie Nahas

IN4-2.003 Auditory Hallucinations in Adults with Migraine Sara Tarshish, Matthew Robbins, Brian Grosberg

IN4-2.004 Gray Matter Decrease in Patients with Trigeminal Neuralgia Mark Obermann, Daniel Müller, Thomas Zwarg, Elke Gizewski, Rea Rodriguez-Racke, Hans-Christoph Diener, Arne May, Zaza Katsarava

IN4-2.005 Occipital Nerve Stimulation (ONS) for Treatment of Intractable Chronic Migraine (ICM): Three-Month Results from the ONSTIM Feasibility Study Joel Saper, Peter Goadsby, David Dodick, Stephen Silberstein

IN4-2.006 Ictal Brain 5-HT1A Receptor Binding in Migraineurs Genevieve Demarquay, Amelie Lothe, Jean-Pierre Royet, Nicolas Costes, Gerard Mick, François Mauguiere, Philippe Ryvlin

IN4-2.007 Cerebral Venous Sinuses Diameter Variation in Response to Lumbar Puncture in Idiopathic Intracranial Hypertension Anat Horev, Gal Ifergane, İtzik Wirguin, Ilan Shelef

IN4-2.008 Refractory Chronic Cluster Headache Treated by Deep Brain Stimulation: A French Multicentric Randomized Placebo-Controlled Double-Blind Trial Michel Lanteri-Minet, Denys Fontaine, Nelly Fabre, Gilles Géraud, Serge Blond, Christian Lucas, François Dubois, Patrick Mertens, Malou Navez, Yves Lazorthes

IN4-2.009 Hemicrania Continua and Unilateral Chronic Migraine Indometacin Negative: A Clinical Comparison Study Elisabetta Cittadini, Peter Goadsby

IN4-2.010 New Daily Persistent Headache in the Pediatric Population Eric Kung, Stewart Tepper, Alan Rapoport, Fred Sheftell, Marcelo Bigal

Presentation of the Harold Wolff-John Graham Award: An Award for Headache/Facial Pain Research / 4:30 p.m. / Room 3AB

Sponsored by the American Academy of Neurology and endowed by Endo Pharmaceuticals.

Recipient:

Mark Obermann, MD

Essen, Germany

Invited Speaker Session* / 4:45 p.m. - 6:00 p.m. / Room 3AB

4:45 p.m.-5:05 p.m. The Origin of Migraine Pain Rami Burstein, PhD

Migraine Aura: Recent Developments and Mechanistic Understanding Andrew Charles, MD 5:05 p.m.-5:25 p.m.

5:25 p.m.-5:45 p.m. The Migraine Pipeline: An Update Peter Goadsby, MD, PhD

Panel Discussion 5:45 p.m.-6:00 p.m.

S21 Multiple Sclerosis: Clinical Trials

Room 6B

2:00 p.m. Presentation of the John Dystel Prize for Multiple Sclerosis Research

Presented by the American Academy of Neurology and the National Multiple Sclerosis Society and made possible through a special contribution from the John Dystel Multiple Sclerosis Research Fund at the National Multiple Sclerosis Society.

Recipient: David Miller, FRCP London, United Kingdom

S21.003 2:30 p.m. Efficacy and Safety of Rituximab in Patients with Primary Progressive Multiple Sclerosis (PPMS): Results of a Randomized Double-Blind Placebo-Controlled Multicenter Trial Kathleen Hawker, Paul O'Connor. Mark Freedman, Peter Calabresi, Jack Antel, Jack Simon, Stephen Hauser, Emmanuelle Waubant, Timothy Vollmer, Hillel Panitch, Zhang Jiameng, Peter Chin, Craig

Smith

2:45 p.m. S21.004 Oral Fingolimod (FTY720) Versus Interferon Beta-1a in Relapsing-Remitting Multiple Sclerosis: Results from a Phase III Study (TRANSFORMS) Jeffrey Cohen, Jean Pelletier, Ludwig Kappos, Xavier Montalban, Hans-Peter Hartung. Giancarlo Comi, Bhupendra Khatri, Frederik Barkhof, Tracy Stites, James Jin, Stacy Wu, Shreeram Aradhye, TRANSFORMS Study Group

3:00 p.m. S21.005
The CombiRx Cohort at
Baseline with Clinical and
MRI Differences by Diagnostic
Criteria Fred Lublin, Stacey
Cofield, Gary Cutter, Robin
Conwit, Ponnada Narayana,
Flavia Nelson, Jerry Wolinsky

3:15 p.m. S21.006
A Single Center, Randomized,
Double-Blinded, PlaceboControlled Crossover Pilot
Study of the Effects of
American Ginseng on Multiple
Sclerosis Fatigue Edward
Kim, Jesus Lovera, Laura
Schaben, Dennis Bourdette,
Ruth Whitham

S22 Aging and Dementia: Genetics

Room 6C

2:00 p.m. Presentation of the Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases

Sponsored by the American Academy of Neurology, the AAN Foundation, and funded through the philanthropy of the Potamkin Family.

Recipients: Robert Vassar, PhD Chicago, IL Michael Wolfe, PhD Boston, MA Berislav Zlokovic, MD, PhD Rochester, NY

2:30 p.m. S22.003
Genetic Variability in
Cholesteryl Ester Transfer
Protein (CETP) Reduces the
Risk of Incident Dementia:
Results from the Einstein
Aging Study (EAS) Amy
Sanders, Cuiling Wang, Mindy
Katz, Laurie Ozelius, Nir
Barzilai, Carol Derby, Richard
Lipton

2:45 p.m. S22.004
Variations in the Progranulin
Gene Affect Global Gene
Expression in Frontotemporal
Lobar Degeneration Alice
Chen-Plotkin, Felix Geser,
Joshua Plotkin, Christopher
Clark, Linda Kwong, Wuxing
Yuan, Murray Grossman,
Vivianna Van Deerlin, John
Trojanowski, Virginia Lee

3:00 p.m. S22.00
Clinical Heterogeneity in a
Chromosome 9 Linked FTDALS Family Adam Boxer,
Rosa Rademakers, Bradley
Boeve, Howard Feldman,
Matthew Baker, Dean Foti,
Eric McDade, Jennifer
Molano, Anna Karydas,
Richard Crook, Jill Goldman,
Pheth Sengdy, William
Seeley, Stephen DeArmond,
Bruce Miller, Ian Mackenzie

3:15 p.m. S22.006
X-Linked Corticobasal
Degeneration and tau
Deposition in a Family with
Severe Autism and Mutation
in the SLC9A6 Gene James
Garbern, Manuela Neumann,
John Trojanowski, Virginia
Lee, Charles Schwartz,
Gerald Feldman, William
Kupsky, Anders Sima

S23 Parkinson's Disease: Epidemiology

Room 6A

2:00 p.m. S23.001
Cumulative Exposure to
Lead and Risk of Parkinson's
Disease Marc Weisskopf,
Jennifer Weuve, Huiling Nie,
Marie-Helene Saint-Hilaire,
Lewis Sudarsky, David Simon,
Bonnie Hersh, Joel Schwartz,
Robert Wright, Robert

Feldman, Howard Hu

2:15 p.m. \$23.002
Role of Endogenous and
Exogenous Hormone
Exposure on the Risk of
Parkinson Disease: Results
from the Women's Health
Initiative Observational
Study Rachel SaundersPullman, Carol Derby, Nanette
Santoro, Susan Bressman,
Brian Chiu, Richard Lipton,
Sylvia Wassertheil-Smoller

2:30 p.m. S23.003
Levodopa-Associated
Upregulation of Methylmalonic
Acid Levels Correlate with
Severity of Peripheral
Neuropathy in Patients
with Idiopathic Parkinson's
Disease Kim Brithaupt,
George Francis, Oksana
Suchowersky, Douglas
Zochodne, Cory Toth

2:45 p.m. S23.004
Predictors of Depression
in Early Parkinson's
Disease Ergun Uc, Michael
McDermott, Daniel Weintraub,
Laura Marsh, John Growdon,
Kelvin Chou, Peggy Auinger,
Karen Marder, Parkinson
Study Group

3:00 p.m. S23.005 α-Synuclein (SNCA) Genotype Modifies the Association between Head Injury and Parkinson's Disease (PD) Samuel Goldman, Freya Kamel, Grace Bhudhikanok, Monica Korell, Lori Sterling, Jane Hoppin, David Umbach, G. Ross, Dale Sandler, Aaron Blair, J. Langston, Caroline Tanner

3:15 p.m. \$23.006 WITHDRAWN

S24 Stroke Epidemiology I

Room 608/609

2:00 p.m. Presentation of the Founders Award

Sponsored by the American Academy of Neurology Alliance.

Recipient:

Kazuma Nagakawa, MD

San Francisco, CA

S24.001 Transfer Function Analysis of Dynamic Cerebral Autoregulation in Non-Traumatic Intracerebral Hemorrhage *Kazuma* Nakagawa, Jorge Serrador, Farzaneh Sorond

2:15 p.m. S24.002
Stroke Incidence Is
Decreasing in Whites, but
Stable in Blacks: A Preliminary
Population-Based Estimate
of Temporal Trends in Stroke
Incidence Dawn Kleindorfer,
Kathleen Alwell, Jane
Khoury, Charles Moomaw,
Daniel Woo, Opeolu Adeoye,
Matthew Flaherty, Pooja
Khatri, Simona Ferioli, Joseph
Broderick. Brett Kissela

2:30 p.m. S24.003
Sex Differences in Functional
Outcomes after Ischemic
Stroke: The Role of Ischemic
Lesion Volume, Age, NIHSS
and Pre Stroke Modified
Rankin Scale Scores Gisele
Silva, Fabricio Lima, Erica
Camargo, Elkan Halpern,
Michael Lev, Wade Smith,
Karen Furie

2:45 p.m. \$24.004 Are Memory Impairment and Depressive Symptoms Independent Predictors of Incident Stroke? *M. Glymour*

3:00 p.m. S24.008
Preoperative Statin Use
Does Not Reduce Stroke
and Encephalopathy after
Coronary Artery Bypass
Grafting Matthew Koenig,
Maura Grega, Maryanne
Bailey, Luu Pham, Scott
Zeger, William Baumgartner,
Guy McKhann

3:15 p.m. S24.006
Very Long-Term Survival
and Vascular Risk in
Patients with a Previous
Young Stroke Frank-Erik
De Leeuw, Renate Arntz,
Noortje Maaijwee, Henny
Schoonderwaldt, Lucille
Dorresteijn

S25 Muscular Dystrophies

Room 606/607

2:00 p.m. S25.001

Muscle Pain and

Myoglobinuria Are Common
in Patients with FKRP

Mutations Katherine

Mathews, Carrie Stephan,

Karla Laubenthal, Steven

Moore

2:15 p.m. S25.002 Pulmonary Function Characteristics of 255 Boys with Becker and Duchenne Muscular Dystrophy by Age Groups, Ambulatory Status and Steroid Use: Baseline Data from the CINRG Longitudinal Study Project Richard Abresch, Craig McDonald, Erik Henricson, Jav Han, Robert Leshner, Diana Escolar, Eric Hoffman, Avital Cnaan, Adrienne Arrieta. Fenamina Hu, Angela Zimmerman, Tina Duong, Jill Mayhew, Julaine Florence

2:30 p.m. S25.003
Combining Stem Cells
and Exon Skipping and
Approach To Treat Muscular
Dystrophies Mirella Meregalli,
Andrea Farini, Marzia
Belicchi, Rachid Benchaouir,
Giuseppe D'Antona, Daniele
Parolini, Simona Maciotta,
Paola Razini, Roberto
Bottinelli, Luis Garcia, Nereo
Bresolin, Yvan Torrente

2:45 p.m. S25.004
Phenotypes of Myofibrillar and Reducing Body Myopathies
Due to Mutations in Four anda-Half LIM Protein 1 (FHL1)
Gene Catarina Quinzii,
Sherien Shalaby, Arthur
Hays, Kurenai Tanji, Yukiko
Hayashi, Tatsuro Izumi,
Utako Takechi, Christopher
Min, Ichizo Nishino, Eduardo
Bonilla, Michio Hirano

3:00 p.m. S25.005
Redefining Clinical Phenotype
in a Large Cohort of Italian
Non-Dystrophic Myotonic
Patients Valeria Sansone,
Sabrina Lucchiari, Alice
Zanolini, Serena Pagliarani,
Barbara Fossati, Marta
Panzeri, Stefania Corti,
Francesca Magri, Nereo
Bresolin, Giacomo Comi,
Giovanni Meola

3:15 p.m. S25.006
Recognizing Novel Features of
Dysferlinopathies Facilitating
Diagnosis Xiomara Rosales,
Julie Gastier-Foster, Jerry
Mendell

S26 Epilepsy: Co-Morbidities. Epidemiology, and **Health Outcomes**

Room 611/612

2:00 p.m. Presentation of the Dreifuss-Penry Epilepsy Award

Sponsored by the American Academy of Neurology and endowed by members of the AAN Epilepsy Section; Abbott Laboratories, Inc.; Cephalon, Inc.; Cyberonics, Inc.; Elan Pharmaceuticals, Inc.; GlaxoSmithKline; Novartis Pharmaceuticals; Ortho-McNeil Neurologics; Pfizer Inc; Shire US, Inc; and UCB Pharma.

Recipient: Michael Wong, MD, PhD St. Louis, MO

2:15 p.m. S26.002

Depression and Health Outcomes in Epilepsy: A Randomized Trial Frank Gilliam, Kevin Black, Jewell Carter, Victoria Vahle, Alison Randall, Yvette Sheline, Wei-Yann Tsai, Patrick Lustman

2:30 p.m. S26 003

Prevalence of Epilepsy as a Co-Morbidity of Neurological Disorders in Nursing Home Residents Angela Birnbaum, Ilo Leppik, Susan Harms, Shuzhen Li, Lynn Eberly

2:45 p.m. S26.004

The Indirect Cost Burden of Epilepsy in the United States Howard Birnbaum, Jasmina Ivanova, Yohanne Kidolezi, Sue Caleo

3:00 p.m. S26.005 Incidence of Injury and Cost

of Care for Patients Seeking **Emergent Care for Epilepsy** in a United States Managed Care Setting Woodie Zachry III, Quynhchau Doan, Brien Smith, Jerry Clewell, Jenny Griffith

S26.006 3:15 p.m.

Psychogenic Nonepileptic Seizures and Psychogenic Movement Disorders: Are They the Same Patients? Jennifer Hopp, Molly Price, Karen Anderson, Ann Gruber-Baldini, Jingkun Zhu, Whitney Hammers, Allan Krumholz, Lisa Shulman

S27 Peripheral Nerve II

Room 605/610

S27.001 2:00 p.m. Neuroprotective Effects of Erythropoietin in Preclinical

Models of Autoimmune Neuropathy Gang Zhang. Helmar Lehmann, Kazim Sheikh

2:15 p.m. S27.002

Metabolic Syndrome in Small Fiber Sensory Neuropathy Lan Zhou. Joshua Sperling

2:30 p.m. S27.003

Outcomes and Electrodiagnostic Testing of Sensory-Predominant Polyradiculoneuropathy in Pork Processing Workers; Improvement over Time Jennifer Tracy, Daniel Lachance, Jane Norell, JaNean Engelstad, P. James Dvck

2:45 p.m. S27 004

Association of Metformin, Upregulation of Methylmalonic Acid Levels and Clinically Worsened Diabetic Peripheral Neuropathy Daryl Wile, Cory Toth

3:00 p.m. S27.005

Prevalence. Correlates and Impact of Neuropathic Pain in HIV Infection: The CHARTER Study Ronald Ellis, Debralee Rosario, David Clifford, Justin McArthur, David Simpson, Terry Alexander, Benjamin Gelman, Ann Collier, Christina Marra, Beau Ances, Igor Grant

3:15 p.m. S27 006

Infliximab Associated Motor Neuropathy Typically Has Monophasic Improving Course with Drug Discontinuation Steven Kosa, Christopher Klein

S28 Behavioral Neurology I

Room 602/603

2:00 p.m. Presentation of the Norman Geschwind Prize in **Behavioral Neurology**

Sponsored by the American Academy of Neurology and the AAN Behavioral Neurology Section and endowed through Dr. Geschwnd's family, friends, and colleagues; Pfizer Inc; and the Society for Behavioral and Cognitive Neurology.

Bradley Schlaggar, MD, PhD St. Louis, MO

2:15 p.m. S28 002

Executive Dysfunction in Parkinson's Disease Is More Closely Associated with Cortical Cholinergic Than with Nigrostriatal Dopaminergic Denervation Vikas Kotagal, Martijn Muller, Robert Koeppe, Kirk Frey, Roger Albin, Nicolaas Bohnen

2:30 p.m. S28.003

Never Resting Brain: Simultaneous Representation of Two Alpha Related Processes in Humans Eti Ben-Simon, Ilana Podlipsky, Andrey Zhdanov, Talma Hendler

2:45 p.m. S28.004

Double Dissociation in the Anatomy of Disinhibition and Executive Functioning Casey Krueger, Victor Laluz, Howard Rosen, Bruce Miller, Joel Kramer

3:00 p.m.

The Contributions of the Visual Word Form Area to Skilled Reading Steven Rapcsak, Esther Kim, Maya Henry, Sarah Andersen, Pélagie Beeson

3:15 p.m. S28.006

Diffusion Tensor-Based Tractography of Language Networks in Semantic Dementia Federica Agosta. Roland Henry, Raffaella Migliaccio, John Neuhaus, Bruce Miller, Nina Dronkers, Simona Brambati. Massimo Filippi, Stephen Wilson, Jennifer Ogar, Maria Luisa Gorno-Tempini

S29 Neurogenetics

Room 613/614

2:00 p.m. S29.001 Nerve Excitability

Measurements Can Distingush Genetic Channelopathies in the Episodic Ataxias Susan Tomlinson, S. Tan, Dimitri Kullmann, David Burke, Michael Hanna, Hugh Bostock

S29.002 2:15 p.m.

NT-3 Gene Therapy Improves Peripheral Nerve Pathology and Function in Mouse Model for Charcot-Marie-Tooth (CMT) Neuropathy Zarife Sahenk, Jerry Mendell, Chris Edwards, Brian Kaspar, K. Clark

2:30 p.m. S29.003

Effects of SCA14-Related PKC□ Mutations on Protein Function and Aggregation Dong-Hui Chen, Wendy Raskind, Jeannie Nguyen, YunLin Zheng, Randall Woltier, Gwenn Garden, John Wolff, Nishi Gill, Catherine Morgan, Thomas Bird

2:45 p.m. S29.004

Cerebellar Ataxia and Elevated Cerebrospinal Free Sialic Acid Fanny Mochel, Frédéric Sedel, Adeline Vanderver, Udo Engelke, Bing-Zhi Yang, Bart Smits, Frans Verheijen, François Seguin, Alexis Brice, Marie Vanier, Marjan Huizing, Raphael Schiffmann, Alexandra Durr, Ron Wevers

3:00 p.m. S29.005

KIF1B, the First Neuronally Expressed Gene Associated with Multiple Sclerosis Ilse Hoppenbrouwers, Yurii Aulchenko, Sriram Ramagopalan, Linda Broer, Naghmeh Jafari, Jan Hillert, Jenny Link, Wangko Lundström, Dessa Sadovnick, Dirk Goossens, Christine van Broeckhoven, Jurgen Del-Favero, George Ebers, Ben Oostra, Cornelia van Duijn, Rogier Hintzen

3:15 p.m. S29 006

Outcome after Two Years of Enzyme Replacement Therapy (ERT) in 29 Patients with Late-Onset Type II Glycogenosis (GSDII) Sabrina Ravaglia, Arrigo Moglia, Miriam Rossi, Alfredo Costa, Miriam Rigoldi, Bruno Bembi, Cesare Danesino

S30 Neurologic Manifestations of **Systemic Disease**

Room 604

2:00 p.m.

S30.001 Guillain-Barre Syndrome after Vaccination with Gardasil in United States. A Report from the CDC/FDA Vaccine Adverse Event Reporting System Peter Michas-Martin, Nataliya Krivitskaya, Hafiz Khan, Abu Nasar, Adnan Qureshi, Nizar Souayah

2:15 p.m. S30.002

Positron Emission Tomography Enhances Cancer Detection in Patients with Paraneoplastic Neurological Disease Andrew McKeon, Metha Apiwattinakul, Vanda Lennon, Daniel Lachance, Brian Mullan, J. Ahlskog, Bahram Mokri, Jeffrey Britton, Bradley Boeve, Daniel Drubach, Sean Pittock

2:30 p.m. S30.003

Identification of Antibodies Against Brain Antigens in Sera of Patients with Neuropsychiatric Systemic Lupus Erythematosus Akio Kimura, Takeo Sakurai, Megumi Yamada, Yuichi Hayashi, Yuji Tanaka, Isao Hozumi, Takashi Inuduka

2:45 p.m. S30 004

Nationwide Cross-Sectional Study of Multiple System Atrophy (MSA) in Japan JAMSAC, Yaeko Ichikawa, Yasuo Nakahara, Yoshio Momose, Jun Goto, Shoji Tsuji

3:00 p.m. S30.005

Silent Cerebral Infarcts Are Not Associated with Magnetic Resonance Imaging-Defined Intracranial Vasculopathy or with Elevated Transcranial Doppler Measurements in Children with Sickle Cell Anemia Mathula Thangarajh, Dana Fuchs, Robert McKinstry, Michael Noetzel, James Casella, Bruce Vendt, Bruce Barton, Michael DeBaun

3:15 p.m. S30.006 Autoimmune Disorders

Associated with Carbon Monoxide Poisoning Michael Dobbs, Joseph Berger, Sidney Houff

S31 Multiple Sclerosis: Imaging I

Room 6B

3:45 p.m. S31.001
7-Tesla MRI Improves the Detection of Cortical Lesions in Multiple Sclerosis Emma Tallantyre, Paul Morgan, Jennifer Dixon, Ali Al-Radaideh, Matthew Brookes, Nikos Evangelou, Peter Morris

4:00 p.m. S31.002 In Vivo Evidence of Glutamate Toxicity in MS: A Longitudinal Spectroscopy Study Daniel Pelletier, John Kornak, Bill Chu, Darin Okuda, Sarah Nelson, Radhika Srinivasan

4:15 p.m. S31.003
A Novel MRI Sequence, the Fast Gray Matter Acquisition T1 Inversion Recovery (FGATIR), Is Superior to Fluid Attenuated Inversion Recovery (FLAIR) for the Resolution of White Matter Lesions (WMLs) Intsham Haq, Atchar Sudhyadhom, Nelson Hwynn, Frank Bova, Kelly Foote, Michael Okun

4:30 p.m. S31.004
Brain Atrophy Predicts
Disability Progression in
Multiple Sclerosis Elizabeth
Fisher, Jar-Chi Lee, Richard
Rudick

4:45 p.m. \$31.005 Flattening of Cerebral Cortex in Multiple Sclerosis: Potential Marker of Early White Matter Injury Martin Kavec, Danielle Balériaux, Mathieu Vokaer S32 Aging and Dementia: Treatment

Room 6C

3:45 p.m. S32.001
Risk Factors and Clinical
Course Associated
with Vasogenic Edema
in a Phase II Trial of
Bapineuzumab Reisa
Sperling, Stephen Salloway,
Nick Fox, Jerome Barackos,
Kristen Morris, Gordon
Francis, Ronald Black,
Michael Grundman,
Bapineuzemab 201 Clinical
Trial Investigators

4:00 p.m. \$32.002
Cognitive and Functional
Outcomes from a Phase II
Trial of Bapineuzumab in
Mild to Moderate Alzheimer's
Disease Stephen Salloway,
Reisa Sperling, Keith Gregg,
Ronald Black, Michael
Grundman

4:15 p.m. S32.003
A Phase III, Placebo-Controlled, Double-Blind, Randomized Trial of Tramiprosate in the Clinical Management of Patients with Mild-to-Moderate Alzheimer's Disease (the Alphase Study) Paul Aisen, Serge Gauthier, Steven Ferris, Denis Garceau, Daniel Saumier, Anh Duong, John Sampalis

4:30 p.m. S32.004
The ADAS-cog's Performance as a Measure – Lessons from the ADNI Study: Part 1 – Evaluation Using Traditional Psychometric Methods Holly Posner, Stefan Cano, Paul Aisen, Ola Selnes, Yaakov Stern, Ronald Thomas, Michael Weiner, John Zajicek, Scott Zeger, Jeremy Hobart

4:45 p.m. S32.005
Safety Profile of
Bapineuzumab in a Phase
II Trial of Mild-to-Moderate
Alzheimer's Disease
(AD) Lawrence Honig, Sid
Gilman, Kristen Morris,
Ronald Black, Michael
Grundman, Gordon Francis

S33 Movement Disorders: Dystonia

Room 6A

3:45 p.m. S33.001
Impaired Dopaminergic
Neurotransmission
in Hereditary Torsion
Dystonia Martin Niethammer,
Maren Carbon-Correll,
Shichun Peng, Deborah
Raymond, Vijay Dhawan,
Yilong Ma, Tom Chaly, Susan
Bressman, David Eidelberg

4:00 p.m. S33.002
Long-Term Outcome
Predictors of Pallidal DBS
in Patients with Primary
Dystonia: The Role of Age
and Disease Duration loannis
Isaias, Jens Volkmann,
Andreas Kupsch, Ron
Alterman, Jill Ostrem, Philip
Starr. Michele Tagliati

4:15 p.m. S33.003 Minimum Incidence of Primary Spasmodic Dysphonia Raymond Lo, Caroline Tanner, Zhuqin Gu, Kathleen Albers. Amethyst Leimpeter, Robin Fross, Kathleen Comyns, Grace Liang, Allan Bernstein, Jeff Klingman, Samuel Goldman, Laurie Ozelius, Connie Marras. Susan Bressman. Cynthia Comella, Neil Risch, Lorene Nelson, Christy Ludlow, Brenna McGee. Stephen Van Den Eeden

4:30 p.m. \$33.004
High-Throughput Mutational
Analysis of TOR1A in Primary
Dystonia Mark LeDoux,
Jianfeng Xiao, Robert
Bastian, Joel Perlmutter,
Brad Racette, Samer Tabbal,
Morvarid Karimi, Randal
Paniello, Andrew Blitzer,
Sat Dev Batish, Zbigniew
Wszolek, Ryan Uitti, Peter
Hedera, David Simon, Daniel
Tarsy, Daniel Truong, Karen
Frei, Ronald Pfeiffer, Suzhen
Gong, Yu Zhao

4:45 p.m. \$33.005 Pediatric Safety Experience with MYOBLOC® William Birmingham, Edgar Salazar-Grueso

S34 Stroke Epidemiology II

Room 608/609

3:45 p.m. S34.001
Left Ventricular Systolic
Dysfunction and the Risk of
Stroke in the Cardiovascular
Health Study Salvador CruzFlores, Ellen O'Meara, Aninda
Acharya, Paisith Piriyawat,
John Gottdiener, Richard
Kronmal, David Lefkowitz, W.
T. Longstreth, Robert Hart

4:00 p.m. S34.002
Accounting for Do-Not-Resuscitate Orders
and Withdrawal of Care
in Prognostic Models
for Intraparenchymal
Hemorrhage Thanh Ton,
David Tirschwell, Kyra
Becker, Claire Creutzfeld, W.
T. Longstreth, Jr.

4:15 p.m. S34.003
Diastolic and Not Systolic
Blood Pressure Is
Associated with Subclinical
Cerebrovascular Damage:
The Northern Manhattan
Study Justin Marcus, Hannah
Gardener, Mitsuhiro Yoshita,
Joanna Guzman, Mitchell
Elkind, Ralph Sacco, Charles
DeCarli, Clinton Wright

4:30 p.m. S34.004
Antihypertensive Agent
Utilization Patterns after
Stroke: Analysis of a
Nationwide Sample Nerses
Sanossian, Ling Zheng, Gene
Sung, Bruce Ovbiagele

4:45 p.m. \$34.005 Relationship between Alcohol Consumption and Functional Outcomes from Stroke Pamela Rist, J. Michael Gaziano, Tobias Kurth

S35 Anterior Horn: SMA and Kennedy's Disease

Room 606/607

S35.001 3:45 p.m. Phase II Trial of Leuprorelin Acetate in Patients with Spinal and Bulbar Muscular Atrophy Haruhiko Banno, Masahisa Katsuno. Keisuke Suzuki, Yu Takeuchi, Motoshi Kawashima, Noriaki Suga, Motoko Takamori, Mizuki Ito, Tomohiko Nakamura, Koji Matsuo, Shinichi Yamada, Yumiko Oki, Hiroaki Adachi, Makoto Minamiyama, Masahiro Waza, Naoki Atsuta, Hirohisa Watanabe, Yasushi Fujimoto, Tsutomu Nakashima, Fumiaki Tanaka, Manabu Doyu, Gen Sobue

4:00 p.m. S35.002 Motoneurons Transplantation with Pharmacological Therapy To Promote Axonal Elongation Improves the Phenotype of a Model of Spinal Muscular Atrophy with Respiratory Distress Type 1 (SMARD1) Stefania Corti, Monica Nizzardo, Martina Nardini, Chiara Donadoni, Roberto Del Bo, Dimitra Papadimitriou, Federica Locatelli, Nicoletta Mezzina, Nereo Bresolin, Giacomo Comi

4:15 p.m. S35.003
Mitochondrial Dysfunction in a Neural Cell Model of Spinal Muscular Atrophy Gyula Acsadi, Xingli Li, Icksoo Lee, Alena Pecinova, Alan Dombkowski, Maik Hüttemann, Graham Parker

4:30 p.m. S35.004
Safety and Pharmacokinetics
(PK) of TRO19622 in Spinal
Muscular Atrophy (SMA)
Children and Adults Brigitte
Estournet, Brigitte Chabrol,
Jean-Marie Cuisset, Claude
Cances, Nathalie Strub
Wourgaft, Valérie Cuvier,
Firas Bassissi, Thierry Bordet,
Rebecca Pruss, Jean-Louis
Abitbol

4:45 p.m. S35.005
Confirming Androgen
Blockage as a Treatment for
Kennedy's Disease Bernardo
Cacho, Guillermo GarciaRamos, Bruno Estañol,
Horacio Senties

S36 Interventional Neurology

Room 611/612

3:45 p.m. S36.001
Angiographic Effects of
Oversized Neuroform™
Stent Placement Thomas
Wolfe, Sindhu Srivatsal,
Syed Hussain, Mouhammed
Kabbani, Osama Zaidat

4:00 p.m. \$36.002
Preliminary Experience
with the Use of IntraArterial Tenecteplase for
Acute Ischemic Stroke
Treatment Qaisar Shah,
Muhammad Zeeshan Memon,
Gabriela Vazquez, Adnan
Qureshi

4:15 p.m. \$36.003
Safety and Efficacy of Second
Coil Embolization for Remnant
Intracranial Aneursym
after Initial Endovascular
Therapy Dhruvil Pandya,
John Lynch, Brian-Fred
Fitzsimmons, Prem Kandiah,
Thomas Wolfe, Syed Hussain,
Osama Zaidat

4:30 p.m. S36.004
Paradoxical Responses to
Combined Intravenous and
Intra-Arterial Therapy Versus
Endovascular Therapy Alone
in Patients with Acute ICA or
MCA Ischemic Stroke Vivek
Misra, Andrew Barreto,
Rohan Arora, Miriam Morales,
Shuichi Suzuki, Edwin
Cacayorin, Peng Chen, Nicole
Gonzales, James Grotta,
Sean Savitz

4:45 p.m. S36.005
Compliant Versus Non-Compliant Balloons
for Endovascular
Treatment of Vasospasm
after Subarachnoid
Hemorrhage Nauman
Tariq, Muhammad Qureshi,
M. Fareed Suri, Gabriela
Vazquez, Jefferson Miley,
Ramachandra Tummala,
Adnan Qureshi

S37 Peripheral Nerve III

Room 605/610

3:45 p.m. S37.001
Females with CharcotMarie-Tooth Disease Type
1X Display Two Distinct
Phenotypes Emily Hyman,
Stephanie Sottile, Sindhu
Ramchandren, Michael Shy,
Carly Siskind

4:00 p.m. \$37.002 Characterization of Dermal Myelinated Nerve Fibers in Patients with CMT1A Mario Saporta, Istvan Katona, Michael Shy, Jun Li

4:15 p.m. S37.003

A Novel Form of Severe
Childhood Autosomal
Recessive Sensory
Neuropathy Associated with
Optic Atrophy and Deafness
Maps to Chromosome
8q24.22-Term Myriam Srour,
Michael Shevell, Bernard
Brais

4:30 p.m. \$37.004
Cellular Characterization
of MPZ Mutations
Causing Different Clinical
Phenotypes Yi-Chung Lee,
Bing-Wen Soong

4:45 p.m. S37.005
Peripheral Nerve Size
in Polyneuropathies and
Normals: An Ultrasound
Study Craig Zaidman,
Muhammad Al-Lozi, Alan
Pestronk

S38 Behavioral Neurology II

Room 602/603

3:45 p.m. S38.001
Is Ischemia in Broca's
Area Associated with
Broca's Aphasia More
Reliably in Acute or Chronic
Stroke? Elisa Ochfeld,
Lauren Cloutman, Melissa
Newhart, Cameron Davis,
Argye Hillis

4:00 p.m. \$38.002 Dissociable Music and Language: A Case Study of a Semantic Dementia Patient with Preserved Musical Abilities Jessica Weinstein, Phyllis Koenig, Murray Grossman

4:15 p.m. S38.003
Speech Errors in Progressive
Nonfluent Aphasia Sharon
Ash, Corey McMillan, Delani
Gunawardena, Peachie
Moore, Christi Farag, Alea
Kahn, Lauren Richmond,
Brianna Morgan, Murray
Grossman

4:30 p.m. S38.004
Impairment in Decoding EyeRegion Emotional Content
in Mesial Temporal Lobe
Epilepsy Gaetano Cantalupo,
Francesca Benuzzi, Guido
Rubboli, Carlo Tassinari,
Paolo Nichelli, Stefano Meletti

4:45 p.m. S38.005 rTMS Treatment of Refractory Depression: Stimulus Laterality Effect Exceeds rTMS Effect Stephen Nadeau, Nicola Ricciuti, Herbert Ward, Jing Cheng, Dawn Bowers, William Triggs

S39 Multiple Sclerosis: Immunology II

Room 613/614

3:45 p.m. S39.001 Prion Protein Is a Key Regulator of T Cell Activation, Differentiation, and Survival Wei Hu, Stefan Nessler. Bernhard Hemmer. Todd Eagar, Lawrence Kane, Rutger Leliveld, Andreas Muller-Schiffmann, Anne Gocke, Amy Lovett-Racke, Li-Hong Ben, Rehana Hussain, Andreas Breil, Jeffrey Elliott, Paul Carson, Petra Cravens, Mahendra Singh, Benjamin Petsch, Lothar Stitz, Michael Racke, Carsten Korth, Olaf Stuve

4:00 p.m. S39.002
Characterization of Signal
Transduction Pathways
Involved in Glatiramer
Acetate (GA, Copolymer-1,
Copaxone®)-Induced
Type II Monocyte
Differentiation Nicolas
Molnarfi, Thomas
Prodhomme, Martin Weber,
Scott Zamvil

4:15 p.m. S39.003
The Central Nervous System as an Effector Site of Secretory Immunity in Multiple Sclerosis Dorothee Chabas, Danielle Seilhean, Flore Rozenberg, Tarek Sharshar, Seiji Nishino, Bertrand Fontaine, Olivier Lyon-Caen, Emmanuel Mignot, Canh Quan

4:30 p.m. S39.004
Gender Differences in
Immunomodulatory Effects
of 1,25 Dihydroxyvitamin D3
in Nultiple Sclerosis Jorge
Correale, María Ysrraelit,
María Gaitán

4:45 p.m. S39.005
Anti-Aquaporin-4 Antibody
Production from Peripheral
B Cells in Neuromyelitis
Optica Chihiro Suzuki,
Ichiro Nakashima, Toshiyuki
Takahashi, Amit Bar-Or,
Yasuto Itoyama, Kazuo
Fujihara

S40 History of Neurology

Room 604

3:45 p.m. Presentation of the Lawrence C. McHenry Award: An Award for the History of Neurology

Sponsored by the American Academy of Neurology.

Recipient
T. Jock Murray, OC, MD,
FRCPC
Halifax, NS, Canada
S40.001 Dr. Samuel
Johnson's Stroke Thomas
Murray, Sultan Darvesh

4:15 p.m. S40.003 Boothby's Films Showing the Efficacy of Glycine in Myasthenia Gravis *Christopher Boes, Brian Crum*

4:30 p.m. \$40.004 Electrotherapy for Pellagra *Douglas Lanska*

4:45 p.m. \$40.005 Charcot and Vibratory Therapy for Neurological Diseases *Christopher Goetz*

POSTER SESSION VI

Headache III

P06.001 Global Prevalence of Chronic Migraine: Results of an Internet-Based Survey Sepideh Varon, Manasee Shah, Ariane Kawata, Teresa Wilcox, Aubrey Manack

P06.002 Comparison of Sociodemographic Characteristics of Persons with Chronic Migraine (CM) Versus Episodic Migraine (EM) Globally Ariane Kawata, Manasee Shah, Teresa Wilcox, Aubrey Manack, Sepideh Varon

P06.003 Probable Migraineurs' Ability To Function and Productivity: Comparing a Single-Tablet of Sumatriptan and Naproxen Sodium (SumaRT/Nap) to Placebo Richard Lipton, Dennis Riff, Sylvia Lucas, Susan McDonald, Jonathan White, Michael Runken

P06.004 Comparing Medication Satisfaction among Probable Migraineurs: Prior Treatment Versus Single Tablet Sumatriptan and Naproxen Sodium (SumaRT/Nap) Versus Placebo Sheena Aurora, Jan Brandes, Nathan Bennett, Jonathan White, Frederick Derosier, Michael Runken

P06.005 Cost of Healthcare
Utilization for Chronic Migraine and
Episodic Migraine: Results from the
American Migraine Prevalence and
Prevention (AMPP) Study Richard
Lipton, Aubrey Manack, Dawn Buse,
Evelyn Chiao, Daniel Serrano, Michael
Reed, Catherine Turkel

P06.006 Investigation of the Role of mGluR5 Inhibition in Migraine: A Proof of Concept Study of ADX10059 in Acute Treatment of Migraine Peter Goadsby, Charlotte Keywood

P06.007 Clinical Hallmarks of Scopolamine-Induced Migraine *Ken Ikeda*, *Yuji Kawase*, *Takanori Takazawa*, *Yasuo Iwasaki*

P06.008 Rizatriptan Combined with Caffeine for Acute Migraine *Frederick Freitag, Seymour Diamond*

P06.009 Migraine Medication Utilization Patterns among Current Triptan Users Bozena Katic, Marcelo Bigal, Wendy Golden, X. Henry Hu

P06.010 Low Dose-Topiramate-Induced Acute Bilateral Reversible Glaucoma: A Case Report Carlo Lovati, Daniela Galimberti, Claudio Mariani

Interventional Neurology II

P06.011 Stent without Concomitant Coil Embolization for Anterior Circulation Cerebral Aneurysms Abraham Kuruvilla, Chethan Venkatasubba Rao, Sunil Manjila, Anthony Lee, John Steele, Murali Guthikonda, Andrew Xavier P06.012 Covered Stent in the Treatment of Internal Carotid Arterio-Venous Fistulae Chethan Venkatasubba Rao, Charles Braun, John Steele, Amit Kansara, Maggie Jones, Ambooj Tiwari, Andrew Xavier

P06.013 Safety and Efficacy of Anticoagulation with Bivalirudin in Neuro-Endovascular Procedures Muhammad Zeeshan Memon, Alexandros Georgiadis, Gabriela Vazquez, Qaisar Shah, M. Fareed Suri, Adnan Qureshi

P06.014 Postmortem Histopathology of a Specifically Designed Intracranial Stent Syed Hussain, Thomas Wolfe, Osama Zaidat

P06.015 Algorithm of Surgical Revascularization of the Brain in Patients with Multiple Occlusive Lesions of Brachiocephal Arteries Sergey Skrylev, Vladimir Shchipakin, Alexandr Koshcheev, Sergey Protsky

P06.016 Angioplasty for Acute Worsening of Vessel Stenosis with Pediatric Moyamoya Syndrome *Lisa El Hakam, John Volpi, Michel Mawad, Gary Clark*

P06.017 Incidence and Longitudinal Follow-Up of Cerebral Aneurysms in Pediatric Brain Tumor Patients Muhammad Taqi, Kathleen Helton, Frederick Boop, Thomas Merchant, Brannon Morris

P06.018 TCD Monitoring of Intracranial Stenting: A Proposed Technique and Examples of Utility John Volpi, Zsolt Garami, Richard Klucznik, Orlando Diaz-Daza

P06.019 Peri-Procedural Complications during Endovascular Treatment of Intracranial Aneurysms Managed by Interventional Neurologists Mahmoud Rayes, Khaled Junaid, Ambooj Tiwari, Amit Kansara, Osama Zaidat, Andrew Xavier

P06.020 Safety of Treatment of More Multiple Aneurysms in the Same Session Mahmoud Rayes, Amit Kansara, Ambooj Tiwari, Chethan Rao, Murali Guthikonda, Andrew Xavier

P06.021 Selection for Endovascular Acute Stroke Therapy by MR Imaging Dileep Yavagal, Elka Wiley, Abizer Rodriguez, Hamad Farhat, Sammy Elhammady, Mohammed Ali Aziz-Sultan, Gustavo Ortiz

P06.022 The Pattern of Neurological Deficits in the Baseline NIHSS Exam Predict the Likelihood of Finding High-Risk Lesions on Echocardiography Enrique Leira, Brian Ludwig, Mahmut Gurol, James Torner, Harold Adams, Jr.

P06.023 Racial Differences in Response to Endovascular Thrombolysis in Patients with Acute Ischemic Stroke Vivek Misra, Andrew Barreto, Rohan Arora, Miriam Morales, Shuichi Suzuki, Edwin Cacayorin, Peng Chen, Nicole Gonzales, James Grotta, Sean Savitz

P06.024 Outcomes of Patients with Bridging Therapy after Administration of Intravenous Tissue Plasminogen Activator in Patients with Severe Ischemic Stroke *Islam Tafish, Ameer Hassan, Vahid Tohidi, Jawad Kirmani*

P06.025 Initial Experience with Penumbra System in Interventional Management of Acute Stroke Ashish Nanda, Kristine Blackham, Jason Wilson, Daniel Hsu, Jeffrey Sunshine, Robert Tarr

P06.026 Routine Combined Intravenous and Intraarterial Thrombolysis in Acute Stroke Patients with Arterial Occlusion Mikael Mazighi, Jean Michel Serfaty, Julien Labreuche, Elena Meseguer, Philippa Lavallee, Lucie Cabrejo, Tarik Slaoui, Isabelle Klein, Jean-Pierre Laissy, Pierre Amarenco

P06.027 Safety of Stent Supported Intracranial Revascularization in the Setting of Acute Ischemic Stroke Ambooj Tiwari, Amit Kansara, Mahmoud Rayes, Chethan Rao, Andrew Xavier, Maggie Jones

P06.028 Predictors of Recanalization and Outcome of Multimodal Endovascular Therapy for Acute Ischemic Stroke: Early Treatment Versus Modality Akram Shhadeh, Avik Sarkar, Ameer Hassan, Bahareh Hassanzadeh, Vahid Tohidi, Steven Hoover, Jawad Kirmani

P06.029 Safety and Efficacy of Intraarterial Thrombolytic Infusion beyond Six Hours. A Multicenter Experience Jawairia Memon, Jefferson Miley, Gustavo Rodriguez, Ramachandra Tummala, Adnan Oureshi

P06.030 Changes in NIH Stroke Scale with IV, IA, and Combined Thrombolysis for Acute Ischemic Stroke *Don Smith, Chris Fanale*

Cerebrovascular Disease: Clinical Aspects

P06.031 Cardiovascular Risk Profile and Neuroimages of Vertebrobasilar Dolichoectasia in Japan *Ken Ikeda, Yasuo Iwasaki*

P06.032 Foix-Chavany-Marie Syndrome: Case Presentations of Biopercular Syndrome with Review of the Literature *Chut Sombutmai, Scott Silliman* P06.033 Diagnosing Infective Endocarditis in the Thrombolytic Window of Acute Ischemic Stroke: A Retrospective Case Series from the University of Utah Stroke Database Kevin Walker, Jacinda Sampson, Jodi Olsen, Elaine Skalabrin

P06.034 Susac Syndrome; Vasculopathy of Retinal, Cochlear and Cerebral Arteries *Nilufer Kale*, *Murat Icen*, *Jale Agaoglu*, *Isil Yazici*, *Muzaffer Ozturk*, *Osman Tanik*

P06.035 Anterior Spinal Artery Syndrome as Complication of Coronary Angiography Georg Pilz, Peter Wipfler, Olaf Schwarte, Christoph Sulzer, Stephan Golaszewski, Gunther Ladurner, Joerg Kraus

P06.036 High Serum Lipoprotein(a) Level as a Potential Predictive Factor for Polyvascular Disease Pamela Song, Suk-Jae Kim, Jin-Myoung Seok, Byung-Su Kim, Woo-Sub Hwang, Oh-Young Bang, Chin-Sang Chung, Kwang-Ho Lee, Gyeong-Moon Kim

P06.037 Imbalance in Distribution of Subjects Recruited Per Center and Risk of Negative Outcomes in Acute Stroke Trials Nauman Tariq, M. Fareed Suri, Gabriela Vazquez, Jill Novitzke, Adnan Qureshi

P06.038 Proper Control of Vascular Risk Factors Delays the Development of Mild Cognitive Impairment Maria Zurru, Alberto Aleman, Jesica Bekerman, Claudia Alonzo, Marcelo Schapira, Javier Benchimol, Luis Camera, Gabriel Waisman, Edgardo Cristiano

P06.039 Differences in the Vascular Risk Factors and In-Hospital Mortality of Patients with Carotid and Vertebral Dissection – Results from the Nationwide Inpatient Survey Gustavo Rodriguez, Alberto Maud, Jefferson Miley, Mustapha Ezzeddine, Gabriela Vazquez, Adnan Qureshi

P06.040 Cocaine Induced Vasculitis: An Unusual MRI Presentation Zeenat Jaisani, Cornelia Mihai, Jitendra Sharma, Sarabjit Atwal, Fredrick Munschauer

Clinical Stroke Case Reports

P06.041 A Case of Pseudostroke in an Hereditary Angioedema Isabelle Bonnaud, Violaine Rouaud, Severine Debiais, Maud Pallix, Jean Philippe Cottier, Claire Farber, Bertrand De Toffol

P06.042 Nocturnal Blood Pressure Patterns in the Acute Stroke Period Independently Predict Six-Month Incidence of Mortality and Vascular Events Deidre De Silva, Fung-Peng Woon, Christopher Chen, Hui-Meng Chang, Choon-Meng Ting, Meng-Cheong Wong

- P06.043 Clinical Features
 Distinguishing Hemorrhagic and
 Ischemic Stroke in the First Two
 Hours after Onset Nerses Sanossian,
 Sidney Starkman, Scott Hamilton,
 David Liebeskind, Latisha Ali, Lucas
 Restrepo, Gene Sung, Robin Conwit,
 Jeffrey Saver
- **P06.044** Cruciate Paralysis Caused by Anterior Spinal Artery Stroke: A Case Report Ryan Punambolam, Philip Teal, Manraj Heran
- P06.045 Relationships among Coronary, Extra- and Intracranial Atherosclerosis, and Small Vessel Disease: Analysis in Patients Receiving Coronary Artery Bypass Graft Surgery Eun-Jae Lee, Jae-Won Lee, Dong-Wha Kang
- P06.046 Multiple Organ Dysfunction Syndrome after Severe Ischemic Stroke: 100 Autopsy-Based Cases Michael Piradov, Tatyana Gulevskaja, Elena Gnedovskaya, Julia Ryabinkina, Vladimir Morgunov
- P06.047 Antiplatelet-Related Subdural Hematoma: Clinical Characteristics and Outcome Murali Krishna Jagaralapudi, Deepak Kurhade, Amitav Rath, Syed Ameer Paspala, T. V. R. Murthy, Amrit Saxena
- P06.048 Limb-Shaking Transient Ischemic Attack. A Report of Five Patients and Review of 48 Cases Marisol Ferrúa, Andrea Pisarevsky, Patricia Riccio, Francisco Klein, Roberto Rotta Escalante, Luciano Sposato
- **P06.049** Millard-Gubler Syndrome Associated with a Thrombosed Basilar Artery Aneurysm *Aashish Patel, Brian Silver*
- P06.050 Cerebral Venous Thrombosis in Young, Asian Women; Risk Factors, Presentation and Outcome Mohammad Wasay, Subash Kaul, Padma Gunaratne, Bindu Menon, Niphon Poungvarin, Abdul Malik, Suneel Kumar, Shahzad Ahmed, Ahmed Khalifa, Mohammad Saadatnia
- Child Neurology: Epidemiology and Clinical Features
- **P06.051** An Update on the Epidemiology and Etiology of Pediatric Stroke Nassim Zecavati, Rani Singh, Jennifer Pettiford, Steven Weinstein, Jessica Carpenter
- P06.052 Cardiac Asystole An Unusual Manifestation of Sandifer's Syndrome Presenting as Seizure Exacerbation Kayalvizhi Vijayakumar, Prab Prabhakar

- **P06.053** Charcot-Marie-Tooth Neuropathy (CMT) Type 2A2 in Children: A Retrospective Case Series Lakshmi Beeravolu, Susan Iannaccone, Steven Sparagana
- P06.054 Expected Transaminase Levels in Muscular Dystrophy with Chronically Elevated Creatine Kinase Erika Hedderick, Carmen Coombs, Richard Thompson, Thomas Crawford
- **P06.055** Optic Nerve Head Morphology in Perinatal Onset Static Encephalopathy *Deepta Ghate, Sachin Kedar, V. Vedanarayanan, Nils Mungan, Ching Chen, James Corbett*
- P06.056 Determinants of Ambulation in Children with Spastic Quadriplegic Cerebral Palsy: A Population-Based Study Elisabeth Simard-Tremblay, Michael Shevell
- P06.057 Duration of Epilepsy during Infancy Correlates with Impaired Cognitive Development Martina Vendrame, Andreas Alexopoulos, Katrina Boyer, Matt Gregas, Elaine Wyllie, Frances Jensen, Tobias Loddenkemper
- P06.058 Determinants of Relapse Rate in Children with Multiple Sclerosis Jennifer Li, Sandra Magalhaes, David Callen, Manohar Shroff, Melissa McGowan, Brenda Banwell
- P06.059 Visual Motor and Perceptual Abnormalities in Children with Demyelinating Disorders E. Ann Yeh, Susan Bennett, Linda Shriber, Deepti Vaidya, Rachael Heim, Murali Ramanathan, Bianca Weinstock-Guttman
- **P06.060** Predicting Neurological Development in Preterm Infants from Multiple Pregnancies by the General Movements Method *Omer Bar-Yosef, Monika Marbacher, Jacob Kuint, Lidia Gabis*
- Aging and Dementia: Clinical II
- P06.061 Verbal Episodic Memory Deficits in Semantic Dementia Lauren Richmond, Brianna Morgan, Rachel Goldmann Gross, David Libon, William Hu, Alea Khan, Peachie Moore, Murray Grossman
- P06.062 Interhemispheric
 Differences in Animate Knowledge
 among Patients with Semantic
 Dementia Mario Mendez, Sarah
 Kremen, Ronald Saul
- P06.063 Effects of Memantine on Language and Functional Communication in Patients with Moderate to Severe Alzheimer's Disease: A Pooled Analysis Judith Saxton, Michael Tocco, Robert Hofbauer, Stephen Graham

- P06.064 Memantine Versus Donepezil in Mild to Moderate Alzheimer's Disease. A Randomized Trial with Magnetic Resonance Spectroscopy Pedro Modrego, Nicolas Fayed, Jose Errea, Consuelo Rios, Miguel Pina, Manuel Sarasa
- P06.065 Accurate Identification of Patients with Probable AD Using the Synchronous Neural Interaction Test Todd Verdoorn, Michael Cassano, Apostolos Georgopoulos, Scott Lewis, J. McCarten, Laura Hemmy, Richard Golden, Donald Rojas, Leslie Moldauer, David Arciniegas
- P06.066 Differential Impact of Apathy and Depression in the Development of Dementia in Mild Cognitive Impairment Patients Barbara Vicini Chilovi, Luca Rozzini, Marta Zaffira Conti, Marina Zanetti, Alessandro Padovani
- **P06.067** Longitudinal Measure of IVIG Treatment Effect in Patients with Alzheimer's and Lewy Body Disease *William Shankle, Junko Hara*
- P06.068 Clinicopathological Characteristics of Pure Hippocampal Sclerosis Dementia and Hippocampal Sclerosis with Alzheimer's Disease Eric McDade, Keith Josephs, Joseph Parisi, Dennis Dickson, Robert Ivnik, Bradley Boeve, David Knopman, Ronald Petersen
- P06.069 Autopsy-Proven
 Progressive Supranuclear Palsy
 Presenting as Mild Cognitive
 Impairment Eric McDade, Bradley
 Boeve, Joseph Parisi, Gregory Jicha,
 Dennis Dickson, David Knopman,
 Keith Josephs, Ronald Petersen
- **P06.070** Prosodic Comprehension in Frontotemporal Degeneration *Lauren Richmond, Brianna Morgan, Alea Khan, Rachel Gross, William Hu, Murray Grossman*
- P06.071 Alzheimer Disease and Frontotemporal Lobar Degeneration Presenting as Logopenic Progressive Aphasia Clinical, Imaging, and Neuropathologic Analysis William Hu, Corey McMillan, David Libon, Virginia Lee, John Trojanowski, Murray Grossman
- P06.072 Retrospective Summary of the Clinical and Research Criteria for Mild Cognitive Impairment (MCI) Anil Nair, Jami Johnsen, Brandon Gavett, Angela Jefferson, Robert Green, Robert Stern
- P06.073 Obsessive-Compulsive Symptoms in Neurodegenerative Disease Katya Rascovsky, Michael Wilson, Bruce Miller, William Seeley

- P06.074 Disease Modifying Effect of Dimebon in Alzheimer's Disease: Results from a 12-Month Study of Dimebon and a Six-Month Open-Label Period Analyzed Using a Staggered Start Approach and a Natural-History Staggered Start (NHSS) Approach Suzanne Hendrix, Bryan Selby, Lynn Seely, Jeffrey Cummings
- P06.075 Direct Comparison of Recruitment Efforts Targeted at Primary Care Physicians Versus the Community at Large for Participation in Alzheimer's Disease Clinical Research Studies Sarah Carr, Roberta Davis, Gregory Cooper, Frederick Schmitt, William Markesbery, Deborah Danner, Gregory Jicha
- P06.076 Speed on Cognitive Tests Is Associated with Relative Ventricular Enlargement in Normal Pressure Hydrocephalus Kathryn Sepelyak, Jennifer Heidler-Gary, Cameron Davis, Melissa Newhart, Argye Hillis
- P06.077 Modifiable Risk Factors for Mild Cognitive Impairment and Dementia Are Increased in Rural Appalachian Compared to Urban Research Subjects *Gregory Jicha*, Sarah Carr, Stephanie Freeman, Rob Sprang, William Markesbery
- P06.078 Survival in Progressive Supranuclear Palsy (PSP) and Frontotemporal Dementia (FTD) with Tau Pathology Wan Zheng Chiu, Laura Donker Kaat, Harro Seelaar, Agnita Boon, Wouter Kamphorst, John van Swieten
- P06.079 Impact of Donepezil Therapy on Function in Relation to MMSE in Patients with Alzheimer's Disease Serge Gauthier, Oscar Lopez, Elias Schwam, Gunhild Waldemar, Roy Jones, David Wilkinson, Richard Zhang, Rachel Schindler
- **P06.080** Neuropsychological Features of Early Dementia with Lewy Bodies *Paul Shelton*
- Muscle Disease/Neuromuscular Junction: Clinical Issues
- **P06.081** Successful Treatment of Stiff Person Syndrome with Sequential Use of Tacrolimus Shunya Nakane, Yoshiko Kawabata, Ryo Urushihara, Masafumi Harada, Ryuji Kaji
- P06.082 Arteriovenous Fistula Venous Access for Long-Term Outpatient Plasma Exchange for Neuromuscular Disorders Farhan Ahmed, Karthik Vamanan, Mazen Dimachkie, Mamatha Pasnoor, April McVey, Faisal Raja, Laura Herbelin, Janine Klingele, Sheri Copeland, Richard Barohn

POSTER SESSION VI

P06.083 Predictors of Clinical
Outcome in Thymectomy in
Patients with Myasthenia Gravis

– Postoperative Myasthenic Crisis
Is the Potential Predictor of Poor
Outcome Tai-Seung Nam, Seung-Han
Lee, Joon-Tae Kim, Seong-Min Choi,
Man-Seok Park, Byeong-Chae Kim,
Myeong-Kyu Kim, Ki-Hyun Cho

P06.084 Carriers of Mutations in Calpain Genes May Increase the Risk of HyperCKemia in Mitochondrial Disease Patients Genevieve Langley, Lauren Hyams, John Shoffner, Douglas Stuart

P06.085 Clinical and Laboratory Features of a Single Family with Mutations in the POLG1 and ANT1 (SLC25A4) Genes Lauren Hyams, Genevieve Langley, John Shoffner

P06.086 Diplopia and Eyelid Ptosis Responsive to Pyridostigmine in a Patient with Hereditary Demyelinating Peripheral Neuropathy *John Khoury, Eduardo De Sousa*

Muscular Dystrophy: Clinical and Basic Studies

P06.087 Reduced Necrosis and Inflammatory Change in Muscle of SJL/J Mice by Blocking TNFa Function with Etanercept Hiroshi Nemoto, Shingo Konno, Hideki Sugimoto, Nobuatsu Nomoto, Hiroshi Nakazora, Mayumi Murata, Toshiki Fujioka

P06.088 Erythropoietin Application in mdx Mice – A Pilot Trial Alzira Carvalho, Michelle Ugollini, Augusto Santomauro, Jr., Leticia Oliveira, Victor Lioi, Rosangela Dos Santos, Lucas Ferreira, Maria Nunes, Maria Helena Carvalho, Szulim Zyngier, David Feder

P06.089 Cell Therapy for Muscular Dystrophy: CD34 Negative Muscle Derived Cells Present High Myogenic and No Adipogenic Potential Sabrina Sacconi, Didier Pisani, Noemi Clement, Claude Dechesne, Christian Dani, Claude Desnuelle

P06.090 Cystatin C Permits Assessment of Renal Glomerular Filtration Independent of Muscle Mass in Duchenne Muscular Dystrophy (DMD) Susan Gailey, Cheryl Wall, Laurence Viollet, David Thornton, Jerry Mendell

P06.091 Expanding the Phenotypic and Genotypic Spectrum of FHL1-Related X-Linked Scapuloperoneal Myopathy Dong-Hui Chen, Wendy Raskind, Tiffany Vu, YunLin Zheng, Mark Matsushita, John Wolff, Hillary Lipe, Thomas Bird

P06.092 LGMD 2I in Twin Brothers: Response to Prednisone *Peter Karachunski, Marcia Margolis, Joline Dalton, John Day* P06.093 Oral Protein
Supplementation Improves Protein
Metabolism after Acute Exercise in
Patients with Fascio-Scapulo-Humeral
Muscular Dystrophy Mette Cathrine
Orngreen, Nicolai Preisler, Grete
Andersen, Tina Jeppesen, Gerrit Van
Hall, John Vissing

P06.094 Partial Response of Dysferlinopathy Patients to Low Dose Dantrolene Sodium Treatment *Itzik Wirguin*

P06.095 Shaping the Phenotypes of Dysferlin Myopathies According to a Clinical and Muscle Imaging Follow-Up Isabel Illa, Jaume Llauger, Ricard Rojas-Garcia, Jordi Diaz-Manera, Eugenia Martinez-Hernandez, Noemi De Luna, Eduard Gallardo, Celedonio Marquez, Ana Fernandez, Carmen Paradas

P06.096 Creatine Kinase Elevation: Evaluation of Pediatric Population Sebastien Perreault, Ala Birca, Dominique Piper, France Gauvin, Michel Vanasse

Duchenne's Muscular Dystrophy: Clinical and Translational Studies

P06.097 Behavioral Outcomes of a CINRG Multi-Center, Double-Blind, Controlled Study Comparing High Weekly Versus Low Daily Dose Prednisone Therapy in Boys with Duchenne Muscular Dystrophy Yaron Fridman, Adrienne Arrieta, Fengming Hu, Lauren Hache, Jason Weimer, Hoda Abdel-Hamid, Diana Escolar, Avital Cnaan, Paula Clemens

P06.098 A Comparison of the Six-Minute Walk Test to Commonly Used Outcome Measures in Duchenne Muscular Dystrophy Erik Henricson, Cassie Spalding, Craig McDonald, Richard Abresch, Jay Han, Alina Nicorici, Leone Atkinson, Allen Reha, Gary Elfring, Langdon Miller

P06.099 Volumeteric Radial and Tibial Bone Mineral Density in Boys with Duchenne Muscular Dystrophy Wendy King, John Landoll, Velimir Matkovic, John Kissel

P06.100 Newborn Screening (NBS) in Duchenne Muscular Dystrophy: A Practical, Comprehensive and Affordable Approach Roula Al-Dahhak, Susan Gailey, Kandice Roush, Lauren Schueller, Joni Beauman, Heather Lilly, Sharon Linard, Ram Chandrasekar, Diane Dunn, Deborah Cragun, Christopher Shilling, Patrick Wall, Nancy Leslie, Natalie Street, Robert Weiss, Jerry Mendell

P06.101 Sonoporation of Human Biceps Muscle as Preparation for Plasmid-Based Dystrophin Gene Transfer Maria Molnar, Renald Gilbert, Aniko Gal, George Karpati

P06.102 Characterization of DMD Mutations in Novel Dog Models of Dystrophinopathy *Kevin Flanigan*, *Aaron Larsen*, *Laura Taylor*, *Janet Bogan*, *Daniel Bogan*, *Joe Kornegay*

P06.103 Abundance of Circulating Progenitors with Myo-Endothelial Potential Correlates with a Mild Phenotype in Patients Affected by Duchenne Muscular Dystrophy Marzia Belicchi, Andrea Farini, Mirella Meregalli, Daniele Parolini, Paola Razini, Raffaella Lopa, Laura Porretti, Simona Maciotta, Claire Navarro, Giulio Cossu, Nereo Bresolin. Yvan Torrente

P06.104 An Immortalized Fibroblast Model for Exon-Skipping Studies in Duchenne Muscular Dystrophy (DMD) Ling Zhao, Gillian Butler-Browne, Vincent Mouly, Kamel Mamchaoui, Steve Wilton, Kevin Flanigan

P06.105 Reduction of TGF Beta 1 Using an Oral TNF Alpha Inhibitor in mdx Dystrophic Mice Leonardo Brito, Lucas Saad, Vinicius Oliveira, Eduardo Barros, Rosangela Dos Santos, Lucas Ferreira, Maria Helena Carvalho, Maria Nunes, Szulim Zyngier, Alzira Carvalho, Feder David

P06.106 High-Resolution, Three-Dimensional, In Vivo Bioimaging of Perivascular Stem Cell Homing *Chad Markert, Jennifer Cann, Martin Childers*

Anterior Horn: Clinical and Neurophysiological

P06.107 "Dropped Head Syndrome" in Amyotrophic Lateral Sclerosis Masahiro Uemura, Takayoshi Shimohata, Kaori Yanagawa, Masatoyo Nishizawa

P06.108 Does Taste Perception Change with ALS? Elias Abou-Zeid, Linda Bartoshuk, Deborah Fewell, Stacy Rudnicki, Cathy Pelletier

P06.109 The Outcome and Effect of Pregnancy and Delivery in Women with Spinal Musclar Atrophy *Bakri Elsheikh, Kameron Teal, Xiaoli Zhang, John Kissel*

P06.110 The Pros and Cons of Scoliosis Surgery in Patients with Spinal Muscular Atrophy Megan Montgomery, Jacqueline Montes, Benjamin Koo, Jonathan Marra, Vanessa Battista, Sally Dunaway, Douglas Sproule, Andrei Constantinescu, Darryl De Vivo, Petra Kaufmann

P06.111 German and UK TREAT-NMD Patient Registries for Spinal Muscular Atrophy: Natural History and Clinical Care Sarah Baumeister, Zsuzsana Foeldvari, Brigitta von Rekowski, Maggie Walter, Hanns Lochmüller P06.112 Functional Loss of Spinal Alpha Motor Neurons and Its Correlation with Clinical Scales and Quality of Life (QOL) Measures in Amyotrophic Lateral Sclerosis (ALS) Keisuke Arasaki, Mizuho Sumiya, Ryosuke Ushijima, Akira Hyodo

P06.113 Measuring Electrical Impedance of Muscle with a Dedicated System Seward Rutkove, Andrew Tarulli, Muyiwa Ogunnika, Hongshen Ma, Joel Dawson, Patricia Fogerson

P06.114 Electrical Impedance Myography (EIM) in the SOD1 g93a Mouse *Patricia Fogerson, Seward Rutkove*

P06.115 Lack of Consensus in the Serologic Evaluation of Patients with Amyotrophic Lateral Sclerosis *John Novak, Stephen Kolb, Steven Nash, John Kissel*

P06.116 Cervical Anterior Horn Cell Loss from Subdural Hygroma – A Late Sequela of Spontaneous CSF Leak Temenuzhka Mihaylova, Andrew Biondo, Imad Zak, Richard Lewis

Anterior Horn: ALS: Clinical Features and Management

P06.117 Validating a Brief Screen for Cognitive Impairment in ALS Lauren Elman, Sharon Xie, David Libon, William Hu, Alea Khan, Brianna Morgan, Lauren Richmond, Rachel Gross, Leo McCluskey, Murray Grossman

P06.118 Executive Function and Frontotemporal Degeneration in ALS and ALS-FTD *Catherine Lomen-Hoerth, Jennifer Murphy, Roland Henry*

P06.119 Executive Impairment and Prefrontal Disease in Non-Demented Amyotrophic Lateral Sclerosis David Libon, Rachel Gross, William Hu, Leo McCluskey, Lauren Elman, Murray Grossman

P06.120 Retrospective Study of Depression in Amyotrophic Lateral Sclerosis Nazem Atassi, Kerrie Nelson, Yuvika Paliwal, Merit Cudkowicz

P06.121 Results of the Non-Invasive Ventilatory (NIPPV) Arm of the PEG-NIV Pilot Study Terry Heiman-Patterson, Carlayne Jackson, Michael Sherman, Sara Feldman, Melonie Mitchell, Yvonne Rollins, Ashok Verma, Jeremy Shefner, Stephen Scelsa, Daniel Newman, Marta Mendiondo, Edward Kasarskis

- P06.122 Positive Airway Titration Studies Result in Improvements in Daytime Sleepiness in Patients with Amyotrophic Lateral Sclerosis Aparajitha Verma, Stanley Appel, Joan Appel, Ericka Simpson, Milvia Pleitez, Mario Gonzalez, Amit Verma
- **P06.123** Effects of NIPPV on the Prognosis of ALS Patients with Respiratory Onset *Guillaume Gautier, Annie Verschueren, Armelle Monnier, Shahram Attarian, Jean Pouget*
- P06.124 Blood Lipid Levels Are Related to Respiratory Function in ALS Adriano Chio, Gabriele Mora, Andrea Calvo, Antonio Ilardi, Cristina Moglia, Enrico Cavallo, Stefania Cammarosano, Roberto Mutani
- P06.125 Assessing Fall Risk in ALS Using the Timed Up and Go Test Jacqueline Montes, Bin Cheng, Elizabeth Kelvin, Howard Andrews, Carolyn Doorish, Kate Bednarz, Julaine Florence, Hiroshi Mitsumoto, Paul Gordon
- P06.126 Postural Orientation Impairment Leading to Falls and Balance Deficit Early in the Course of Amyotrophic Lateral Sclerosis (ALS) Mohammed Sanjak, Kerry Duffy, Elena Bravver, Benjamin Brooks

Multiple Sclerosis: Therapeutics I

- P06.127 Efficacy and Safety of Natalizumab in the STRATA Study Paul O'Connor, Chris Polman, Andrew Goodman, Ludwig Kappos, Fred Lublin, Richard Rudick, Stephanie Jurgensen, Dominick Paes, Nisha Lucas, Michael Panzara
- P06.128 Oral Fingolimod (FTY720) Shows Sustained Low Rates of Clinical and MRI Disease Activity in Patients with Relapsing Multiple Sclerosis: Four-Year Results from a Phase II Extension Xavier Montalban, Paul O'Connor, Jack Antel, Giancarlo Comi, Ernst-Wilhelm Radue, Ana De Vera, Harald Pohlmann, Göril Karlsson, Ludwig Kappos, FTY720D2201 Study Group
- P06.129 Phase 1 Studies
 Demonstrate That PEGylated
 Interferon Beta-1a Is Safe, Well
 Tolerated, and Pharmacologically
 Active in Healthy Volunteers Gudarz
 Davar, Sandra Richman, Stacy
 Hitchman, Gabrielle Glick, Meena
 Subramanyam, Xiao Hu, Ivan
 Nestorov, Shifang Liu, Ying Zhu,
 Michael A. Panzara
- P06.130 Oral Masitinib in Patients with Primary Progressive or Secondary Progressive Multiple Sclerosis Patrick Vermersch, Rabah Benrabah, Nicolas Schmidt, Hélène Zephir, Pierre Chen, Cyrille Vongsouthi, Alain Moussy, Olivier Hermine

- P06.131 Sustained Improvement in Physical Disability with Natalizumab in Patients with Relapsing Multiple Sclerosis Fredrick Munschauer, Gavin Giovannoni, Fred Lublin, Paul O'Connor, J. Phillips, Chris Polman, Amy Pace, Richard Kim, Michael Panzara
- P06.132 TERMS Trial T-Cell Vaccination Secondary Analysis of Clinical and Immunologic Outcomes in Relapsing-Remitting Multiple Sclerosis Patients Edward Fox, Clyde Markowitz, Stanley Cohan, Daniel Wynn, Donna Rill, Mary Riser, Jim Williams
- P06.133 Safety and Tolerability, but Lack of Efficacy of Tolperisone (AV650) in Multiple Sclerosis Patients with Spasticity: A Double-Blind, Placebo-Controlled, Randomized Trial of Tolperisone Administered Orally Three Times a Day Robert Elfont, Lin He, Raymond Chavez, Kenneth Chahine, Jennifer Bahr-Davidson, Kirk Johnson, Drew Jones, Glenn Morrison
- P06.134 Efficacy of Natalizumab in Multiple Sclerosis Patients with High Disease Activity: A Danish Nationwide Study Annette Oturai, Nils Koch-Henriksen, Thor Petersen, Poul Erik Jensen, Finn Sellebjerg, Per Sorensen
- P06.135 Time to First Treatment with Disease-Modifying Drugs in Newly Diagnosed Patients with Multiple Sclerosis Dennis Meletiche, Chris Kozma, Michael Dickson
- P06.136 High Doses Immunosuppression Anteceded by Rescue of Hematopoietic Stem Cells and Followed by Its Intravenous Infusion (HDI-SCI) for Devic's Disease Treatment Amilton Barreira, Doralina Brum, Antonio Santos, Carlos Guerreiro Tostes, Ana-Beatriz Stracieri, Maria-Carolina Oliveira, Dannielle Godoi, Daniela Moraes, Marina Coutinho, Wilson Marques, Jr., Júlio Voltarelli
- P06.137 CHAMPIONS Extension Study: 10-Year Follow-Up after a Clinically Isolated Syndrome (CIS) in High Risk Patients Revere Kinkel, Jean Tanner, Jack Simon, Paul O'Connor, Craig Kollman
- P06.138 Physician Disease-Modifying Therapy Decisions for Patients Registered with the New York State Multiple Sclerosis Consortium (NYSMSC) Barbara Teter, Cornelia Mihai, Stephanie Wasch, Brian Apatoff, Patricia Coyle, Susan Gauthier, Andrew Goodman, Malcolm Gottesman, Carl Granger, Joseph Herbert, Richard Holub, Burk Jubelt, Ilya Kister, Lauren Krupp, Michael Lenihan, Fred Lublin, Aaron Miller, Fredrick Munschauer, Allan Perel, David Snyder, Mark Tullman, Robert Zivadinov, Bianca Weinstock-Guttman

- P06.139 BNP as a Predictor of Mitoxantrone Induced Cardiotoxicity in Multiple Sclerosis Patients Neeta Garg, Kevin Kane, Joan Armagost, Bianca Weinstock-Guttman
- P06.140 Pharmacokinetic and Pharmacodynamic Profile of PEGylated Interferon Beta-1a in Healthy Volunteers: Results from Two Phase I Clinical Studies *Xiao Hu, Meena Subramanyam, Michaela Lerner, Larisa Miller, Ivan Nestorov, Gudarz Davar*
- P06.141 Randomized, Prospective, Rater-Blinded, Four-Year Pilot Study To Compare the Effect of Daily Versus Every Other Day Glatiramer Acetate 20 mg Subcutaneous Injections in RRMS Christina Caon, Alexandros Tselis, Wendy Ching, Moeein Din, Imad Zak, Zahid Latif, Fen Bao, Samia Ragheb, Alan Hudson, Omar Khan
- P06.142 Autoimmune Hemolytic Anemia under Treatment with Natalizumab Olivier Outteryck, Arnaud Lacour, Helene Zephir, Didier Ferriby, Patrick Vermersch
- P06.143 Natalizumab Significantly Improved Relapses and MRI Outcomes in African American Patients with Relapsing Multiple Sclerosis Bruce Cree, William Stuart, Carlo Tornatore, Douglas Jeffery, Amy Pace, Choon Cha
- P06.144 Neutralizing Antibodies during Treatment with Interferon Beta-1b in 1745 Patients with Relapsing-Remitting Multiple Sclerosis Douglas Goodin, Paul O'Connor, Hans Hartung, Ludwig Kappos, Barry Arnason, Giancarlo Comi, Stuart Cook, Massimo Filippi, Douglas Jeffery, Timon Bogumil, Rupert Sandbrink, Karola Beckmann, Francis Boatena. Christoph Pohl
- **P06.145** Alemtuzumab Induces a Sustained Reduction in Disability in Patients with Relapsing-Remitting Multiple Sclerosis *Alasdair Coles, CAMMS223 Study Group*
- **P06.146** MS Center Experience of Use of Rituximab in Secondary-Progressive Multiple Sclerosis Carolina Ionete, Biliana Beretich, Peter Riskind

Treatment of Parkinson's Disease

P06.147 Population-Pharmacokinetic Analysis of Pramipexole Extended-Release in Patients with Parkinson's Disease Chantaratsamon Dansirikul, Robert Hauser, Alexander Staab, Thorsten Lehr, Sebastian Haertter

- P06.148 North American Subgroup Analysis of the FIRST-STEP Trial of Levodopa/Carbidopa/Entacapone and Levodopa/Carbidopa in Patients with Early Parkinson's Disease Dee Silver, Kevin McCague, Monique Somogyi, Robert Hauser
- P06.149 Anti-Parkinsonian Medication Use in Parkinson Disease in a Community-Based Elderly Cohort (Cardiovascular Health Study) Samay Jain, Thanh Ton, Robert Boudreau, Stephanie Studenski, Shannon Rhodes, Will Longstreth, Elsa Strotmever, Anne Newman
- **P06.150** Double-Blind Evaluation of Maintenance of Efficacy of Pramipexole Extended-Release in Early Parkinson's Disease Laurence Salin, Robert Hauser, Juergen Koester
- P06.151 An Open-Label Extension Study To Determine the Safety of Pimavanserin in Patients with Parkinson's Disease and Psychosis Roger Mills, Ann Johnson, Hilde Williams, Daun Bahr, Stephen Revell
- P06.152 Overnight Switching from Immediate- to Extended-Release Pramipexole in Early Parkinson's Disease Olivier Rascol, Paolo Barone, Catherine Debove Debieuvre, Robert Hauser, Yoshikuni Mizuno, Werner Poewe, Laurence Salin, Anthony Schapira, Mandy Sohr
- P06.153 Effects of Immediate
 Versus Delayed Switch from
 Levodopa/Carbidopa to Levodopa/
 Carbidopa/Entacapone on Motor
 Function and Quality of Life in Patients
 with Parkinson's Disease with End-ofDose Wearing Off Mark Lew, Monique
 Somogyi, Kevin McCague, Mickie
 Welsh
- P06.154 Rasagiline 1 mg/Day Provides Benefits in the Progression of Non-Motor Symptoms in Patients with Early Parkinson's Disease Wemer Poewe, Robert Hauser
- **P06.155** A Clinical Pharmacology Study To Determine the Selective and Non-Selective Doses of the Monoamine Oxidase Type B (MAO-B) Inhibitor, Rasagiline *Tamar Goren, Liat Adar, Nissim Sasson*
- P06.156 Long-Term Safety and Tolerability of Transdermal Rotigotine in Patients with Advanced Parkinson's Disease Werner Poewe, Olivier Rascol, Niall Quinn, Eduardo Tolosa, Wolfgang Oertel, Nir Giladi, Babak Boroojerdi

Parkinson's Disease: Quality of Life Issues

P06.157 Factors Predicting Activities of Daily Living in Parkinson's Disease Jeffrey Olech, Glenn Stebbins, Cynthia Comella

POSTER SESSION VI

P06.158 Does Age Make a Difference in Caregiver Strain? Comparison of Young Versus Older Spouses in Early-Stage Parkinson's Disease (PD) Julie Carter, Karen Lyons, Barbara Stewart, Patricia Archbold

P06.159 Depression and Lateral Onset Parkinson's Disease: Differential Effects on Working Memory Paul Foster, Valeria Drago, Frank Skidmore, Gregory Crucian, Kenneth Heilman

P06.160 Relationship between Autonomic Dysfunction and Depression in Parkinson's Disease Chengjie Mao, Kangping Xiong, Weidong Hu, Yanbo Cheng, Juping Chen, Guoxiu Ke, Chunfeng Liu

P06.161 Depression and Drug Induced Parkinsonism as Presymptomatic Features of Parkinson Disease Kohsuke Fukuhara, Yoshio Tsuboi, Hirosato Inoue, Tatsuo Yamada

P06.162 The Non Motor Staging of Parkinson's Disease: Results from an International Study K. Ray Chaudhuri, Pablo Martinez-Martin, Rosalie Sherman, Yogini Naidu, Per Odin, Kapil Sethi, W. Ondo, Fabrizio Stocchi, Anthony Schapira, PD Non Motor Group

P06.163 Independence, Postural Stability and Staging of Parkinson Disease – Expectations from a Survival Analysis Barbara Jasinska-Myga, John Putzke, Zbigniew Wszolek, Ryan Uitti

P06.164 A Study of Cognitive Fatigue Joshua Proemsey, Benzi Kluger, Rajasimhan Rajagovindan, Mingzhou Ding, Frank Skidmore, Michael Okun, Kenneth Heilman

P06.165 The Temporal Relationship between Day Napping and Night Sleep Duration and Parkinson's Disease Honglei Chen, Jianjun Gao, Xuemei Huang, Yikyung Park, Aaron Blair, Albert Hollenbeck, Arthur Schatzkin

P06.166 Ability To Work in Parkinson Disease – Estimated Time and Predictors Barbara Jasinska-Myga, John Putzke, Zbigniew Wszolek, Ryan Uitti

P06.167 Morning Injections of Interferon-Beta Decrease Flu-Like Syndrome of Patients with Multiple Sclerosis Yann Nadjar, Emilie Coutelas, Pauline Proteau, Fabienne Panzer, Daniele Paquet, Claude Saint-Val, Alain Creange

Sleep Disorders

P06.168 Sleep Disturbances in Caregivers of Children with Epilepsy Winfred Wu, Alcibiades Rodriguez

P06.169 Sleep Complaints in a Large Cohort of Patients with Amyotrophic Lateral Sclerosis Aparajitha Verma, Stanley Appel, Mario Gonzalez, Joan Appel, Ericka Simpson, Milvia Pleitez, Amit Verma

P06.170 REM Sleep Behavior Disorder May Precede PD, DLB or MSA by up to Half a Century Daniel Claassen, Keith Josephs, J. Ahlskog, Glenn Smith, Michael Silber, Maja Tippmann-Peikert, Bradley Boeve

P06.171 Reverse Sleep Misperception in the Elderly *Heidi Roth, Bradley Vaughn*

P06.172 HLA Status and Sleep Symptoms in a Control Population Mari Viola-Saltzman, Nathaniel Watson, Thanh Ton, Thomas Koepsell, Vivian Gersuk, W. T. Longstreth P06.173 Sleep Abnormalities in Stiff Person Syndrome and Stiff Leg Syndrome: A Further Evidence of a Dysfunction of GABA-ergic Inhibitory System Anna Rosati, Luigi Bongiovanni, Maria Benedetti, Marika Vianello, Bruno Giometto, Alessandro Padovani

P06.174 Does Narcolepsy Symptom Severity Vary According to HLA-DQB1*0602 Allele Status? Nathaniel Watson, Thanh Ton, Thomas Koepsell, Mari Viola-Saltzman, Vivian Gersuk, W. T. Longstreth

P06.175 Does Daytime or Nocturnal Hypoxemia Contribute to the Subsequent Development of Cognitive Impairment in Patients with Multiple System Atrophy? Kunio Kawamura, Takayoshi Shimohata, Hideaki Nakayama, Masahiko Tomita, Tetsutaro Ozawa, Masatoyo Nishizawa

P06.176 Gender Effect in Patients with REM Sleep Behavior Disorder Associated with Multiple System Atrophy Compared with Parkinson's Disease and Dementia with Lewy Bodies Junger Tang, Bradley Boeve, Maja Tippmann-Peikert, Michael Silber



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Poster Session VII

7:00 a.m.-10:00 a.m.

Frontiers in Clinical Neuroscience Plenary Session

9:00 a.m.-11:00 a.m.

Washington State Convention and Trade Center, Exhibit Hall 4A

This session focuses on translational research related to clinical issues of importance. Four physician-scientists outline their recent research findings, along with the clinical implications.



Moderator: John W. Griffin, MD, Chair, Lecture Awards Subcommittee



"Modulating Putative Depression Circuits Using Deep Brain Stimulation"

Helen S. Mayberg, MD Emory University School of Medicine Atlanta. GA



"Mechanisms of Fragile X Syndrome and Associated Disorders"

Stephen T. Warren, PhD Emory University School of Medicine Atlanta, GA



"Toward Therapies for Polyglutamine Diseases"

Henry L. Paulson, MD, PhD, FAAN University of Michigan Ann Arbor. MI



"Seeking the Causes of Parkinson's Disease" Caroline M. Tanner, MD, PhD, FAAN Parkinson's Institute Sunnyvale, CA

Exhibits

11:30 a.m.-4:00 p.m.

Complimentary luncheon

12:00 p.m.-2:00 p.m.

Exhibit Halls 4B-4F

See the latest in pharmaceutical products, medical equipment, publications, and products to assist with practice management, teaching methods, and research activities.

Poster Session VIII

11:30 p.m.-2:30 p.m.

Poster Session IX

4:00 p.m.-7:00 p.m.

Scientific Topic Highlights Programs

6:00 p.m.-8:00 p.m.

The highlights programs provide an overview of the best research in select neurologic topics from more than 2,000 scientific poster and platform presentations. Details on topics and moderators are available on the Annual Meeting website at www.aan.com/go/am/science/highlights.

6:00 p.m.-7:00 p.m.

Cerebrovascular Disease, Critical Care/Emergency Neurology/Trauma, and Interventional Neurology

Room 2B

Dementia/Behavioral Neurology

Room 6C

Epilepsy/EEG

Room 613/614

Movement Disorders

Room 6A

Neuromuscular, EMG, and Autonomic Disorders

Room 605/610

7:00 p.m.-8:00 p.m.

Combined Scientific Topic Highlights: Child Neurology, Ethics, Pain and Palliative Care, Infections, Neuroepidemiology, and Neurooncology

Room 604

Clinical Practice

Room 3AB

Multiple Sclerosis

Room 6B

Epilepsy

P07.001 Early Predictors of Intractable Epilepsy in Turkish Children: A Single Center Experience Füsun Alehan, Semra Saygi

P07.002 Sudden Unexpected Near Death in Epilepsy (SUNDEP): Malignant Ventricular Arrhythmia from a Partial Seizure Patricio Espinosa, Jong Lee, Usha Tedrow, Edward Bromfield, Barbara Dworetzky

P07.003 Levetiracetam Extended Release: Population Dose–Response Modeling in Adults with Partial-Onset Seizures Rik Schoemaker, Eric Snoeck, Armel Stockis, Christian Otoul, Maria Laura Sargentini-Maier

P07.004 Meta-Analysis of Levetiracetam Used in Status Epilepticus *David Gloss*

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- P07.142 One Year Follow-Up Results from a Phase II Trial of the BHT-3009 DNA Vaccine for Multiple Sclerosis Hideki Garren, Joanne Quan, William Robinson, Paul Utz, Lawrence Steinman
- **P07.143** Two Annual Cycles of Alemtuzumab Yield Durable Treatment Response 24 Months after Last Dose Sibyl Wray, CAMMS223 Study Group
- P07.144 High Bioavailability and Long Half-Life of Oral Fingolimod (FTY720), an Investigational Treatment for Multiple Sclerosis Alan Slade, Robert Schmouder, John Kovarik, Hans-Peter Gschwind, Olivier David
- P07.145 Efficacy of a New Formulation of Subcutaneous Interferon Beta-1a in Patients with Relapsing-Remitting Multiple Sclerosis: 16-Week Results from a Double-Blind, Placebo-Controlled Study *Nicola De Stefano*
- **P07.146** 4-Aminopyridine as a Treatment for Intractable Eructation: The First Case Report *Daniel Kantor*
- P07.147 Alemtuzumab Immunotherapy of Treatment-Refractory Multiple Sclerosis Samuel Hunter, Heli Hunter, Janet Brown, Leiah Eby
- **P07.148** Efficacy and Tolerability of Pramipexole in Multiple Sclerosis: Treatment for "Rubral Tremor" Related José-Luis Rodríguez-Valdez, Aurelio Mendez-Dominguez

- P07.149 Long-Term Efficacy and Safety of Intense Immunosuppression as First-Line Therapy in Clinically Active Relapsing MS: A New Treatment Algorithm Jai Perumal, Stephanie Hreha, Christina Caon, Fen Bao, Ramya Penmesta, Imad Zak, Alexandros Tselis, Omar Khan
- P07.150 Pharmacokinetic Study of Lipoic Acid in Multiple Sclerosis: Comparing Mice and Human Pharmacokinetic Parameters Vijayshree Yadav, Dennis Koop, Gail Marracci, Lauren Stuber, Lilia Alvarez, Ganesh Cherala, Myrna Munar, Lynne Shinto, Dennis Bourdette
- P07.151 Efficacy and Safety of Natalizumab in Multiple Sclerosis Patients Pretreated with Immunomodulatory and Immunosuppressive Drugs Ulrich Mueller, Claudia Pagenkopf, Stiliani Asimiadou, Judith Haas
- P07.152 Pregbalin for Treating Paroxysmal Painful Symptoms in Multiple Sclerosis: An Open Label Study Claudio Solaro, Margit Boehmker, Paolo Tanganelli
- P07.153 Treating MS Relapses at Home. The Combined Experience of Four French Regional MS Networks (LORSEP, RBN-SEP, SEP-AUvergne and SINDEFI-SEP) for 807 Patients Gilles Defer, Marc Debouverie, Valérie Jaillon-Rivière, Frédéric Taithe, Dora Liban, Alexandra Moutereau, Pierre Clavelou, Alain Créange
- P07.154 Modifying Therapies Used in Severe First Idiopathic Acute Inflammatory Events within the Central Nervous System Sara El Alaoui, Jean-Christophe Ouallet, Bruno Brochet
- P07.155 Mycophenolate Mofetil in Multiple Sclerosis: A Retrospective Study Laure Michel, Jean-Claude Ongagna, David Axel Laplaud, Mary Fleury, Frederic Blanc, Jerome De Seze, Sandrine Wiertlewski

Anterior Horn: Therapeutics

- P07.156 Moderate Intensity Resistance Training Does Not Significantly Alter Disease Progression in a Representative Group of ALS Patients Max Lowden, Helen Stephens, Zachary Simmons, Kevin Scott
- P07.157 Safety Profile of Lithium Treatment in Patients with ALS: A Prospective Open-Label and Off-Label Cohort Studies Jinsy Andrews, I. Chen, Aamir Hussain, Gabriella Harrington-Moroney, Kate Bednarz, Daniel Bell, Judith Rabkin, Jin Choi, Daniel MacGowan, Stephen Scelsa, Hiroshi Mitsumoto

- **P07.158** Is Lithium Therapy Safe for ALS Patients? *William Camu, Nicolas Pageot, Raoul Juntas Morales*
- P07.159 Retrograde Viral Delivery of GDNF and IGF1 Prevents the Development of Late Weakness (Post-Polio Syndrome) in a Mouse Model Burk Jubelt, Iulia Movileanu, Karen Straube-West, George Christophi, Paul Massa, Agnes Jani-Acsadi, Gyula Acsadi
- P07.160 Minocycline and Verapamil Reduce Riluzole's Effectiveness in a Preclinical Model System of Mechanisms of Sporadic Amyotrophic Lateral Sclerosis (ALS) Pathogenesis Richelle Hemendinger, Edward Armstrong III, Benjamin Brooks
- P07.161 A Phase I-II Multicenter Study on G-CSF in ALS: Clinical and Hematological Results Cristina Moglia, Andrea Calvo, Gabriele Mora, Claudia Caponnetto, Gabriele Siciliano, Mario Sabatelli, Vincenzo La Bella, Vincenzo Silani, Massimo Corbo, Gianluigi Mancardi, Pietro Attilio Tonali, Roberto Mutani, Corrado Tarella. Adriano Chio
- P07.162 Autologous Stem Cells Transplantation in Amyotrophic Lateral Sclerosis: A Phase I Clinical Trial Letizia Mazzini, Ivana Ferrero, Lucia Testa, Katia Mareschi, Vincenzo Luparello, Massimo Miglioretti, Alessandro Stecco, Gaia Donata Oggioni, Francesco Monaco, Franca Fagioli
- P07.163 Safety and Short-Term Effects of Umbilical Cord Mesenchymal Stem Cell Therapy in Amyotrophic Lateral Sclerosis: Review of Chinese Data S. Charles Cho, Hans Katzberg, Byung-Jo Kim, Hak Jae Roh, Yuen So
- P07.164 A Double-Blind, Placebo-Controlled, Randomized Trial of Growth Hormone as Add-On Therapy to Riluzole in Patients with Amyotrophic Lateral Sclerosis: Preliminary MRS, Hormonal, and Population Analysis Francesco Saccà, Mario Quarantelli, Carlo Rinaldi, Tecla Tucci, Raffaele Piro, Barbara Carotenuto, Angela Marsili, Vincenzo Palma, Vincenzo Bresciamorra, Arturo Brunetti, Giuseppe De Michele, Alessandro Filla, Marco Salvatore
- P07.165 Pontobulbar Palsy with Deafness (Brown-Vialetto-Van Laere Syndrome): Treatment and Prognosis in Ten Patients Saeed Bohlega, Mohammed Al-Muhaizea, Issa Al-Sharoqi

Peripheral Nerve V

P07.166 Different Pathologic Features in Neurofilament Light Chain (NEFL) Pro22 Mutation in Charcot-Marie-Tooth Disease Ji Soo Shin, Sooyeoun You, Sun Young Cho, Su Jin Hwang, Kee-Duk Park, Kyoung-Gyu Choi, Byung-Ok Choi

P07.167 WITHDRAWN

P07.168 Sequence Analysis of the α-Crystallin Type Heat Shock Protein Gene Family in Motor Neuropathy Patients Elizabeth Renard, Pamela Snyder, Amy Bartlett, Scott Sutton, Shuping Gu, Victoria Lawson, Thomas Prior, Stephen Kolb

P07.169 CIDP Induced by TNF-α Antagonists in Rheumatoid Arthritis *J. Douglas Miles, Keivan Basiri, Bashar Katirji, Amer Alshekhlee*

P07.170 Concomitance of an Inherited and an Acquired Demyelinating Neuropathy in a Young Girl Wilson Marques, Juliana Secchin, Carolina Funayama, Silmara Gouvea, Vanessa Marques, Patricia Bastos, Charles Lourenço, Amilton Barreira

P07.171 De Novo Amyloid Deposits and Induced Polyneuropathy in FAP Domino Liver Recipients David Adams, Catherine Lacroix, Teresa Antonini, Pierre Lozeron, Christian Denier, Stephane Epelbaum, Frederique Blandin, Vincent Karam, Daniel Azoulay, Rene Adam, Denis Castaing, Didier Samuel

P07.172 Parent-of-Origin Effect on Penetrance in Transthyretin Related Familial Amyloid Polyneuropathy Violaine Plante-Bordeneuve, Bernard Bonaiti, Flora Alarcon, Catherine Bonaiti-Pellie

P07.173 CMT2A2 with Upper Motor Neuron Signs in a Patient with a Novel De Novo Mutation in MFN2 Senda Ajroud-Driss, Faisal Fecto, Kaouther Ajroud, Yi Yang, Sandra Donkervoort, Nailah Siddique, Teepu Siddique P07.174 The Clinical Spectrum of X-Linked Charcot-Marie-Tooth Disease in Childhood Eppie Yiu, Nimeshan Geevasingha, Garth Nicholson, Elizabeth Fagan, Robert Ouvrier, Monique Ryan

P07.175 Novel Giant
Axonal Neuropathy Mutation
C→A146{Ala49Glu} Mimicking
Chronic Immune Demyelinating
Polyradiculoneuropathy Juan
Figueroa, Nancy Kuntz, Peter Dyck,
JaNean Engelstad, Christopher Klein



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POSTER SESSION VIII

Anterior Horn: Basic Science

P08.001 Acetylcholinesterase Is Overexpressed in ALS Mice and Antisense Inhibition Prolongs Survival Marc Gotkine, Leah Rozenstein, Tama Evron, Ofira Einstein, Oded Abramsky, Zohar Argov, Hermona Soreq, Hanna Rosenmann

P08.002 Autophagic Alteration in the Spinal Cord Motor Neurons of ALS Mice: Possible Link to Selective Motor Neuron Degeneration *Xiaojie Zhang, Liang Li, Qian Wang, Shen Chen, Weidong Le*

P08.003 CD4+ T Cells Protect Motoneurons by Inducing Alternatively Activated (M2) Microglia in a Mouse Model of ALS Jenny Henkel, David Beers, Weihua Zhao, Stanley Appel

P08.004 Effective Suppression of Spasticity in Baclofen Tolerant Rats after Spinal or Systemic Treatment with the Selective AMPA Receptor Antagonist Tezampanel Masakatsu Oshiro, Michael Hefferan, Osamu Kakinohana, Martin Marsala

P08.005 An Investigation of SOD1 Behaviour in Amyotrophic Lateral Sclerosis James Stevens, Virginie Bros-Facer, William Hendriks, Jan van Minnen, Linda Greensmith, Joanne Martin, Giampietro Schiavo, Elizabeth Fisher

P08.006 Passive Immunization Using Monoclonal Antibodies Specific for Mutant SOD1 Delayed Mortality in ALS G93A Mutant SOD1 Mice Francois Gros-Louis, Daryl Bosco, Nicolas Dupre, Scott Brady, Robert Brown, Jean-Pierre Julien

P08.007 Higher Molecular Weight Species of SQSTM1/p62 Accumulate in Protein Aggregates in a Mouse Model of Amyotrophic Lateral Sclerosis Faisal Fecto, Ronggen Fu, Hong Zhai, Han-Xiang Deng, Teepu Siddique

P08.008 Rat Brain Mitochondrial Calcium Retention Capacity (CRC) Exceeds Total Brain Calcium While Rat Spinal Cord CRC Is 90 Percent Less Than the Available Total Spinal Cord Calcium Alexander Panov, Nataliya Kubalik, Richelle Hemendinger, Benjamin Rix Brooks

P08.009 Genetic and Cellular Studies of the Hereditary Spastic Paraplegia Gene REEP1 Jia Huang, Gladys Montenegro, Tine Deconinck, Justin Price, Margaret Pericak-Vance, Gaofeng Wang, Peter De Jonghe, Stephan Zuchner

P08.010 Histopathologic Changes of the Enteric Nervous System in ALS Terry Heiman-Pattersoon, Steven Ryder, Preetha Muthasamy, Luisa Rojas, Christos Katsetos

Peripheral Nerve VI

P08.011 Retrospective Analysis of Response to Medical Treatment of Peripheral Neuropathy Symptoms in Clinical Practice Todd Levine, Madison Levine, Anna Cordova, Nicole Hank, Richard Gerkin, David Saperstein

P08.012 Anterior Lobe and Cerebellar Atrophy in Sensory Neuron Diseases Alfredo Damasceno, Marcondes Franca, Jr., Anamarli Nucci, Fernando Cendes

P08.013 Distinct Pattern of Amyloid Deposition in Gelsolin Amyloidosis *Wolfgang Singer, Jennifer Tracy, Christopher Klein*

P08.014 Low Dose Pyridoxine and Reversible Neurotoxicity *John Romine*

Pediatric Multiple Sclerosis

P08.015 Multimodal Determinants of Multiple Sclerosis Outcome in Children with Central Nervous System Demyelination Brenda Banwell, Ruth-Ann Marrie, Douglas Arnold, Dessa Sadovnick, Rezwan Ghassemi, Heather Hanwell, Sridar Narayanan, Raymond Tellier, Amit Bar-Or

P08.016 Viral Seroprevalence among Canadian Children Presenting with Acquired Demyelination of the Central Nervous System Jean Marie Ahorro, Brenda Banwell, Raymond Tellier, Melissa McGowan, Sandra Magalhaes, Douglas Arnold, Dessa Sadovnick, Amit Bar-Or

P08.017 Cognitive and Psychological Functioning in Pediatric-Onset Multiple Sclerosis Mary Putnam, Ellen Braaten, Ellen O'Donnell, Mark Gorman, Tanuja Chitnis

P08.018 Spinal MRI in Pediatric Multiple Sclerosis *Monica Makhija*, *Helen Branson, Manohar Shroff*, *Sandra Magalhaes, Brenda Banwell*

P08.019 Relationship between Age of Onset and Duration and Neurocognitive Status in Pediatric MS Joy Parrish, Eluen Yeh, Lisa Jackson, Bianca Weinstock-Guttman, Ralph Benedict

P08.020 Use of Plasmapheresis in Pediatric Demyelinating Disease Jayne Ness, Dorothee Chabas, Emmanuelle Waubant, Eluen Yeh, Nancy Kuntz, Sibyl Wray, Bianca Weinstock-Guttman, NMSS Network of Pediatric MS Centers of Excellence

P08.021 White Matter Tract Based DTI Analysis in Pediatric Multiple Sclerosis *Mellekate Vishwas, Tanuja Chitnis, Rudolph Pienaar, Brian Healy, Ellen Grant*

P08.022 Depression in Pediatric MS Patients Correlates with Increased Disease Severity and Selective Neuropsychological Deficits Joseph Ackerson, Samuel Rubin, Khurram Bashir, Pallavi Ghosh, Sarah Dowdy, Yolanda Harris, John Rinker, Jayne Ness

P08.023 Daclizumab Add-On Therapy for Pediatric Multiple Sclerosis Patients Failing Interferon *Mark Gorman, Annika Berger, Charles Guttmann, Tanuja Chitnis*

P08.024 Cerebrospinal Fluid Characteristics of Acquired Demyelinating Syndromes of the Central Nervous System in Children *Gregory Aaen, Sandra Magalhaes, Melissa McGowan, Douglas Arnold, Amit Bar-Or, Dessa Sadovnick, Brenda Banwell*

P08.025 Regional and Tract Based DTI Analysis of Normal Appearing White Matter in Pediatric Multiple Sclerosis Mellekate Vishwas, Ellen Grant, Rudolph Pienaar, Brian Healy, Tanuja Chitnis

Multiple Sclerosis: Genetics and Epidemiology

P08.026 Melanocortin Receptor-1 Gene Polymorphisms and Multiple Sclerosis Outcome Roby Abraham, Richard Strange, Vythilingam Raveendran, Sud Ramachandran, Clive Hawkins

P08.027 Temporal Variation of Onset of Relapses in Multiple Sclerosis: Results from the Northern and Southern Hemispheres in the MSBase Registry Orla Gray, Damien Jolley, Cees Zwanikken, Maria Trojano, Francois Grand-Maison, Pierre Duquette, Pierre Grammond, Roberto Bergamaschi, Giorgio Giuliani, Ruja Taffi, R. M. M. Hupperts, Thor Petersen, Cavit Boz, Edite Rio, Vincent Van Pesch, Etienne Roullet, Jeannette Lechner-Scott, Guillermo Izquierdo, Edgardo Cristiano, Dieter Poehlau, Marcela Fiol, Walter Arruda, Norma Deri. Shlomo Flechter. Mark Paine, Aldo Savino, Michelle Rutherford, Helmut Butzkueven

P08.028 Threefold Increase in Migraine in MS Patients Compared to Age- and Gender-Matched Population Controls Ilya Kister, Ana Belen Caminero Rodriguez, Teshamae Monteith, Amani Soliman, Jennifer Fromm, Joshua Bacon, Richard Lipton, Joseph Herbert

P08.029 Progranulin Genetic
Variability in a Population of 239
Patients with Primary Progressive
Multiple Sclerosis Chiara Fenoglio,
Filippo Martinelli Boneschi, Daniela
Galimberti, Diego Scalabrini, Federica
Esposito, Milena De Riz, Laura
Piccio, Robert Naismith, Becky Parks,
Cristoforo Comi, Anna Pietroboni,
Mirko Piola, Eliana Venturelli,
Francesca Cortini, Chiara Villa, Maria
Serpente, Francesco Monaco, Nereo
Bresolin, Anne Cross

P08.030 Challenging the Role of Chromosome X Inactivation in Multiple Sclerosis Pathogenesis Nicolas Couturier, Pierre-Antoine Gouraud, Pierre Antoinne Gourraud, Céline Rabadeux, Laurie Parmentier, Florence Bucciarelli, Isabelle Rebeix, Claire Gout, Renato Colamarino, Florent Borgel, Serge Mrejen, Philippe Cabre, Christine Lebrun Frenay, Jacqueline Yaouanq, Patrick Hautecoeur, Marc Debouverie, Gilles Edan, Michel Clanet, Bertrand Fontaine, David Brassat

P08.031 HLA-DRB1*-DQB1* and Multiple Sclerosis in Argentina *Liliana Patrucco, Julián Larriba, Juan Rojas, María Redal, Pablo Argibay, Edgardo Cristiano*

P08.032 Gender Differences in Disease and Therapy Management in MS: Evidence from a Community Health Survey *Anna Vlahiotis, Emily Cox, Thomas Burroughs*

P08.033 Demographic and Clinic Characteristics of Patients Treated with Tysabri in the Real Situation of Prescription Compared with AFFIRM Study Olivier Outteryck, Jean-Claude Ongagna, Helene Zephir, Marie Fleury, Arnaud Lacour, Frédéric Blanc, Patrick Vermersch, Jerome De Seze

P08.034 Unusual Presentation of Multiple Sclerosis in Four Caucasian Patients Carrying a Mutation in the MEFV Gene Tania Kümpfel, Lisa Gerdes, Reinhard Hohlfeld, Peter Lohse

P08.035 Prevalence of Dysphagia in Multiple Sclerosis: An Italian Multicenter Study Claudio Solaro, Cristina Rezzani, Roberto Bergamaschi, Dymus Group

P08.036 Epidemiology and Current Treatment Trends of Multiple Sclerosis in Pakistan Abdul Malik, Farrukh Khan, Khurram Siddiqui

P08.037 Sexual Dysfunction in Multiple Sclerosis: Gender Basis Differences Billur Celik, Esra Coskuner Poyraz, Ayhan Bingol, Serkan Ozakbas, Egemen Idiman

P08.038 High Frequency of Impaired Glucose Tolerance and Diabetes in Patients with Progressive Multiple Sclerosis Alain Creange, Antoine Guequen

POSTER SESSION VIII

P08.039 The Clinical and Immunological Comparison of Limited Disseminated Demyelinating Diseases and Conventional Multiple Sclerosis Egemen Idiman, Serkan Ozakbas, Ozan Sagut, Turan Poyraz, Derya Kaya, Serap Tufan

P08.040 CD24 Polymorphism and Multiple Sclerosis Sergio Gonzalez, Juan Rojas, Maria Redal, Liliana Patrucco, Jorge Correale, Edgardo Cristiano, Pablo Argibay

P08.041 The Prevalence of Multiple Sclerosis in the Italian Province of Frosinone Valentina Durastanti, Antonio Cortese, Simone Di Rezze, Annalisa Maraone, Enrico Millefiorini

Multiple Sclerosis: Animal Models

P08.042 Prophylactic and Therapeutic Treatment with IFNlambda, a Novel Type III Interferon, Has Potent Efficacy in a Relapsing-Remitting EAE Model Pallavur Sivakumar, Katherine Lewis, Shannon Okada, Kristen Bontadelli, Kei Kim, Monica Anderson, Kim Waggie, Sean Doyle

P08.043 HSP70 Overexpression in Oligodendrocytes Enhance EAE *Anna Jurewicz, Grazyna Galazka, Bozena Szymanska, George Kollias, Krzysztof Selmaj*

P08.044 Nicotinic Attenuation of Central Nervous System Inflammation and Autoimmunity Fu-Dong Shi, Wen-Hua Piao, Yen-Ping Kuo, Denise Campagnolo, Timothy Vollmer, Ronald Lukas

P08.045 Alteration of B Cell Cytokine and Growth Factors in Experimental Autoimmune Encephalomyelitis by Glatiramer Acetate Sakhina Begum-Haque, Alok Sharma, Islam Fayed, Javier Ochoa-Repáraz, Tim Lentini, Daniel Mielcarz, Azizul Haque, Lloyd Kasper

P08.046 Recombinant Invariant Chains Induce Different Responses in CNS-Specific Effector and Regulatory T Cell Populations *Felix Bischof, Christian Lange, Hong Doster, Hubert Kalbacher, Arthur Melms*

P08.047 Fingolimod Enhances Myelin Basic Protein Expression and Modulates Cytokine Production Following an Interferon-gamma Mediated Insult in the Whole Brain Aggregate Cell Culture System Samuel Jackson, David Baker, Gavin Giovannoni

P08.048 Histopathology of the Murine Cuprizone Model for Multiple Sclerosis (MS) Stig Wergeland, Øivind Torkildsen, Kjell-Morten Myhr, Sverre Jarl Mørk, Lars Bø **P08.049** MRI Detectable Spinal Cord Atrophy Correlates with Disability in a Murine Model of Multiple Sclerosis Istvan Pirko, Yi Chen, Anne Lohrey, Aaron Johnson

P08.050 p75NTR-Knockout Mice Feature Increased Axonal Vulnerability in Experimental Autoimmune Encephalomyelitis Stefan Nessler, Christine Stadelmann, Tobias Dallenga, Alwina Bittner, Wolfgang Jäger, Wolfgang Oertel, Norbert Sommer, Carsten Möller, Bernhard Hemmer

P08.051 Laquinimod Inhibits MOG-Induced Experimental Autoimmune Encephalomyelitis (EAE) in CD4+CD25+ Regulatory T-Cell Depleted Mice Nora Tarcic, Emanuel Raymond, Joel Kaye

P08.052 Thalamic T2 Hypointensity Correlates with Disability in a Murine Model of Multiple Sclerosis *Istvan Pirko, Aaron Johnson, Anne Lohrey, Yi Chen, Jun Ying*

P08.053 Repetitive Pertussis Toxin Promotes Development of Regulatory T Cells and Prevents Central Nervous System Autoimmune Disease Martin Weber, Mahdia Benkhoucha, Klaus Lehmann-Horn, Cynthia Rundle, Michel Chofflon, Scott Zamvil, Patrice Lalive

P08.054 Dimethyl Fumarate (BG00012) Inhibits Astrogliosis in Rodent EAE Models Sarah Ryan, Sha Mi, Kyungmin Hahm, Yi Luo, Matvey Lukashev

P08.055 The Therapeutic Effect of Pertussis Toxin Administered Intracerebroventricularly in an Animal Model of Experimental Autoimmune Encephalomyelitis Jiong Shi, Jianglong Tu, Hao-jie Lin, Stephen Coons

P08.056 Reduced Adult Neurogenesis and Altered Emotional Behaviors in Autoimmune-Prone BAFF Transgenic Mice Rosalia Crupi, Marco Cambiaghi, Giuseppe Vita, Linda Spatz, Eitan Friedman, Fortunato Battaglia

P08.057 Visualization of Encephalitogenic Effector T Cells during Fingolimod (FTY720) Treatment of Experimental Autoimmune Encephalomyelitis Using In Vivo 2-Photon Imaging Ingo Bartholomäus, Christian Schläger, Volker Brinkmann, Hartmut Wekerle, Alexander Flügel

P08.058 Ingested (oral) ACTH (Adreno-Cortico-Trophic Hormone/ Corticotrophin) Inhibits Acute EAE Staley Brod, Zach Hood

Epilepsy: Basic Science and Clinical Neurophysiology

P08.059 Acute and Long-Term Effects of Lacosamide in an Animal Model of Status Epilepticus Lucie Suchomelova, Jerome Niquet, Kerry Thompson, Roger Baldwin, Thomas Stoehr, Claude Wasterlain

P08.060 The Mammalian Target of Rapamycin (mTOR) Signaling Pathway Mediates Epileptogenesis in the Kainate Model of Temporal Lobe Epilepsy Ling-Hui Zeng, Nicholas Rensing, Michael Wong

P08.061 Persistent vs. Non-Persistent Group I mGluR-Induced Network Activity: Implications for Epileptogenesis *Michaelangelo* Fuortes, Lisa Merlin

P08.062 Calcium Channels Contribute to a Prolonged Depolarization in the Bag Cell Neurons of Aplysia californica Alan Tam, Neil Magoski

P08.063 Relationship of Peripheral Autonomic Nerve Activity and Limbic Cortical Seizures *Isaac Naggar, Mark Stewart*

P08.064 Intracranial EEG Seizure – Onset Patterns and Surgical Outcomes in Patients with Refractory Epilepsy *Tarek Zakaria, Terrence Lagerlund, Elson So, Gregory Worrell*

P08.065 Repeating EEG-Video Monitoring: Why and with What Results? *Juan Muniz, Selim Benbadis*

P08.066 Gelastic Seizures and the Anteriomesial Frontal Lobe: A Case Report *Kanjana Unnwongse, Tim Wehner, Nancy Foldvary-Schaefer*

P08.067 Musicogenic Epilepsy with Independent Bilateral Temporal Seizures Dina Amrom, Eva Andermann, Benjamin Zifkin, François Dubeau. Frederick Andermann

P08.068 Do Atmospheric Pressure Changes Influence Seizure Occurrence in the Epilepsy Monitoring Unit? Michael Doherty, Wonsuk Kim, Clover Youn, Alan Haltiner, John Miller, John Oakley

Aging and Dementia: Clinical III

P08.069 Memantine Treatment in Patients with Alzheimer's Disease: Neuropsychological Results from an Open-Label, Multi-Center Brain Imaging Trial Judith Saxton, Robert Hofbauer, Stephen Graham, Sung Yun Yu, Shaoyi Li, Hai-An Hsu, James Perhach

P08.070 Relevance of Computerized Cognitive Assessment to Functional Disability in a Mildly Impaired Elderly Cohort *Ely Simon, Deena Simon, Tzvi Dwolatzky, David Tanne, Felicia Goldstein, Doniger Glen*

P08.071 Mattis Dementia Rating Scale Distinguishes between Parkinson's Disease with Mild Cognitive Impairment (PD-MCI) and Amnestic-Mild Cognitive Impairment (A-MCI) Evelyne Matteau, Leonie Jean, Martine Simard, Nicolas Dupre

P08.072 First Symptoms in Pathologically Confirmed Corticobasal Degeneration, Progressive Supranuclear Palsy, and Frontotemporal Dementia with Motor Neuron Disease Michael Rosenbloom, Suzee Lee, Shenly Glenn, Alvin Chan, Caroline Racine, Bruce Miller

P08.073 Hippocampal Sclerosis Co-Existing with Parkinson's Disease Dementia Marwan Sabbagh, Aleksandra Obradov, Charles Adler, Holly Shill, Lucia Sue, Donald Connor, John Caviness, Linda Vedders, Thomas Beach

P08.074 Clinical Improvements in Cognitive Function with 3D Video Gameplay Joshua Cosman, Brendon Honick, Joan Severson, Monica Severson, Steven Anderson, Matthew Rizzo

P08.075 Telemedicine-Based Validation of the National Alzheimer's Coordinating Center Uniform Data Set in Normal Cognition, Mild Cognitive Impairment, and Dementia Gregory Jicha, Sarah Carr, Stephanie Freeman, Rob Sprang, William Markesbery

P08.076 Cerebrospinal Fluid Vitamin D Binding Protein Declines with Age Joseph Quinn, Jeffrey Kaye, Nathaniel McCoy, Susanne Crane, Amie Peterson, Thomas Montine, John Breitner

P08.077 Extended-Release
Memantine (28 mg, Once Daily)
Improves Verbal Fluency and
Behavior in Patients with Moderate to
Severe Alzheimer's Disease: Results
of a Multinational, Double-Blind,
Placebo-Controlled Trial George
Grossberg, Facundo Manes, Ricardo
Allegri, Luis Miguel Gutierrez Robledo,
Sergio Gloger, Lei Xie, Daniel Jia,
James Perhach, Stephen Graham

P08.078 Clinical Overlap between Creutzfeldt-Jakob Disease and Dementia with Lewy Bodies Julie Thai, Aissa Haman, David Johnson, Stephen DeArmond, Michael Geschwind, Bruce Miller

Aging and Dementia: Basic Science/Genetics

P08.079 Dimebon Induces Neurite Outgrowth with Hippocampal, Spinal, and Cortical Neurons Sebastian Bernales, Marcelo Chacon, Rodrigo Alarcon, Javier Guerrero, Andrew Protter

- P08.080 PIN1 as New Target To Protect Synaptic Function in Alzheimer's Disease Richard Tsai, Carol Lippa, Andrea Rosso, Yuesong Gong
- P08.081 Presenilin 2 Modulates Microglial Activation In Vitro Suman Jayadev, Amanda Case, Luke Seaburg, Anand Kaul, Huy Nguyen, Gwenn Garden
- P08.082 Functional Validation Strategy for a Pilot Genome Scan of Alzheimer's Disease Neuropathology Suggests a Role for SEMA5A Philip De Jager, Joshua Shulman, Patricia Kramer, Mel Feany, David Bennett
- P08.083 rs5848 Variant Influences GRN mRNA Levels in Brain and Peripheral Mononuclear Cells from Patients with Alzheimer's Disease Daniela Galimberti, Chiara Fenoglio, Francesca Cortini, John Kauwe, Carlos Cruchaga, Eliana Venturelli, Diego Scalabrini, Chiara Villa, Maria Serpente, Kevin Mayo, Laura Piccio, Francesca Clerici, Diego Albani, Claudio Mariani, Gianluigi Forloni, Nereo Bresolin, Alison Goate, Elio Scarpini
- P08.084 Diagnosis of Frontotemporal Lobar Degeneration Due to Progranulin Gene Mutations: Usefulness of Serum and Cerebrospinal Fluid Progranulin Dosage Alessandro Padovani, Silvana Archetti, Antonella Alberici, Chiara Agosti, Barbara Bigni, Marta Bianchi, Maria Ferrari, Monica Di Luca. Barbara Borroni
- P08.085 GAB2 Gene Polymorphism in Italian Patients with Alzheimer's Disease Benedetta Nacmias, Andrea Tedde, Silvia Bagnoli, Elena Cellini, Biancamaria Guarnieri, Silvia Piacentini. Sandro Sorbi
- **P08.086** A Polymorphism in ASPM Is Associated with Alzheimer Disease and Brain Size *Deniz Erten-Lyons, Shannon McWeeney, Beth Wilmot, Patricia Kramer, Jeffrey Kaye*
- P08.087 APOE Gene
 Polymorphisms and Frontotemporal
 Dementia: A Meta-Analysis Elisa
 Rubino, Innocenzo Rainero,
 Margherita Ferrero, Giovanna Vaula,
 Salvatore Gentile, Walter Valfre',
 Paola De Martino, Elisa Negro,
 Lorenzo Pinessi
- P08.088 Lipoprotein Profile and Interaction with Paraoxonase1 (PON1) and APOE Polymorphisms in Alzheimer's Disease Annachiara Cagnin, Alberta Leon, Daniela Vianello, Mario Ermani, Silvia Favaretto, Maurizio Dalle Carbonare, Davide Colavito, Alberto Zambon

Genetics and Parkinson's Disease

- P08.089 No Mutations in TARDBP, the Gene Encoding TDP-43, in UK Familial and Sporadic Parkinson's Disease Cases Karen Morrison, Nick Owen, Alistair Lewthwaite, Emily Goodall, Sohraab Yadav, Georgina Williams
- P08.090 Differential Effects of PINK1 Nonsense and Missense Mutations on Mitochondrial Function and Morphology Anne Grünewald, Matthew Gegg, Jan-Willem Taanman, Rosalind King, Christine Klein, Anthony Schapira
- P08.091 Prevalence of FMR1 Gray Zone Alleles Is Increased in Female Patients with Parkinsonism Deborah Hall, Katherine Howard, Tim Byers, Gary Zerbe, Wenting Zhang, Flora Tassone, Paul Hagerman, Maureen Leehey
- P08.092 Nigrostriatal Dopaminergic Functioning in Hereditary Parkinsonism Associated with PINK1 Mutations Ruediger Hilker, Carsten Eggers, Johann Hagenah, Alexander Schmidt, Norbert Brueggemann, Vera Tadic, Johannes Klein, Lena Kertelge, Joyce van der Vegt, Katja Lohmann, Ferdinand Binkofski, Detlev von Cramon, Hartwig Siebner, Gereon Fink, Christine Klein
- P08.093 The Increased Risk of Parkinson's Disease in Non-Smokers Is Dependent on Catecholo-Methyltransferase (COMT) Genotype Carolyn Orr, Timothy Lesnick, Mariza De Andrade, Julie Cunningham, Demetrius Maraganore
- P08.094 PARK Locus and Related Genes, Environmental Exposures, and Parkinson's Disease (PD) Sun Ju Chung, Sarah J. Lincoln, Matthew J. Farrer, Julie M. Cunningham, Sebastian M. Armasu, Timothy G. Lesnick, Mariza De Andrade, Walter A. Rocca, Demetrius M. Maraganore
- P08.095 Demographic and Clinical Characteristics of LRRK2 G2019S Carriers in Early Onset PD Roy Alcalay, Lorraine Clark, Helen Mejia-Santana, Ming Tang, Llency Rosado, Elan Louis, Cynthia Comella, Amy Colcher, Danna Jennings, Martha Nance, Susan Bressman, William Scott. Caroline Tanner. Susan Mickel. Howard Andrews, Cheryl Waters, Stanley Fahn, Barbara Ross, Lucien Cote. Steven Frucht. Michael Rezak. Blair Ford, Kevin Novak, Joseph Friedman, Ronald Pfeiffer, Laura Marsh, Elise Caccappolo, Bradley Hiner, Andrew Siderowf, Ruth Ottman. Karen Marder

- P08.096 Heterozygous ATP13A2 Mutations Associated with Dopaminergic Dysfunction Norbert Brüggemann, Alexander Schmidt, Maria Behrens, Alfredo Ramirez, Joyce van der Vegt, Ana Djarmati, Hartwig Siebner, Ferdinand Binkofski, Manfred Bähre, Johann Hagenah, Christine Klein
- P08.097 Non-Motor Symptoms in Genetic Forms of Parkinson Disease Meike Kasten, Lena Kertelge, Norbert Bruggemann, Johann Hagenah, Alexander Schmidt, Vera Tadic, Susanne Steinlechner, Maria Isabel Behrens, Alfredo Ramirez, Heiner Raspe, Rebekka Lencer, Christine Klein

Anterior Horn: Genetics

- **P08.098** Selective Association of ALS-Linked Mutant SOD1 with HuR and TIAR in VEGF Destabilization and Down-Regulation *Liang Lu, Lei Zheng, Shin Oh, Peter King*
- P08.099 Association of the H63D Polymorphism in HFE with ALS in a Population of US Veterans Lydia Kwee, Kelli Allen, Valerie Loiacono, Catherine Stanwyck, Heidi Munger, Michael Hauser, Eugene Oddone, Silke Schmidt
- P08.100 Loss of Heterozygosity Mapping in Irish Sporadic ALS Patients David Lynch, Kim Caulfield, Simon Cronin, Daniel Bradley, Orla Hardiman
- P08.101 Phenocopies in SOD1 Positive Familial Amyotrophic Lateral Sclerosis: Implications for Genetic Counseling and Research. From Case Report to Full Investigation Sandra Donkervoort, Nailah Siddique, Erik Pioro, Teepu Siddique
- P08.102 TARDBP Genotyping in Patients with Familial and Sporadic ALS: Identification of Two Novel Mutations Roberto Del Bo, Stefania Corti, Michela Ranieri, Serena Ghezzi, Domenico Santoro, Isabella Ghione, Massimo Pandolfo, Gianni Sorarù, Chiara Briani, Michelangelo Mancuso, Gabriele Siciliano, Nereo Bresolin, Giacomo Comi
- P08.103 High Frequency of TARDBP Gene Mutations in Italian Patients with Amyotrophic Lateral Sclerosis (ALS) Vincenzo Silani, Lucia Corrado, Antonia Ratti, Cinzia Gellera, Emanuele Buratti, Barbara Castellotti, Yari Carlomagno, Nicola Ticozzi, Letizia Mazzini, Lucia Testa, Franco Taroni, Francisco Baralle, Sandra D'Alfonso
- P08.104 High Resolution Melting (HRM) Analysis for Mutation Screening of the Cu/Zn Superoxide Dismutase 1 (SOD1) Gene Chizuru Akimoto, Mitsuya Morita, Imaharu Nakano

- **P08.105** SOD1 Mutations in Familial Amyotrophic Lateral Sclerosis Discordant D90A Genotype in Affected Twins *Karen Morrison, Yin Dong*
- **P08.106** Exclusion of Glycyl-tRNA Synthetase (GARS) Gene Mutations in Hirayama Disease Sergiu Blumen, Vivian Drory, Menachem Sadeh, Baruch El-Ad, Lev Goldfarb
- P08.107 Gene Screening in a French-Canadian Family with Primary Lateral Sclerosis and Identification of a New Family with the Same Phenotype Veronique Belzil, Paul Valdmanis, Guy Rouleau, Nicolas Duore

Neurogenetics and Gene Therapy II

- **P08.108** Brain Involvements Due to MFN2 Mutations Sooyeoun You, Ki-Duk Park, Kyung-Gyu Choi, Byung-Ok Choi
- P08.109 BDNF Val66Met
 Polymorphism and Brain Volumes
 in Multiple Sclerosis: A Relationship
 Still Debated Daria Dinacci, Antonio
 Russo, Alessandro Tessitore, Maria
 Laura De Bonis, Luigi Lavorgna,
 Orietta Picconi, Rosaria Sacco,
 Simona Bonavita, Antonio Gallo,
 Giovanna Servillo, Marco Comerci,
 Patrizia Galletti, Bruno Alfano,
 Gioacchino Tedeschi
- P08.110 AAV-Follistatin Gene
 Therapy Targeting Neuromuscular
 Diseases with Weakness and Atrophy
 of the Quadriceps Muscle Janaiah
 Kota, Chrystal Montgomery, Amy
 Eagle, Danielle Tucker, Chalonda
 Handy, Amanda Haidet, Louise
 Rodino-Klapac, Kim Shontz, Yiran
 Davis, Zachary Van Wagoner,
 Christopher Shilling, Walter Therlfall,
 Steven Weisbrode, Paul Janssen,
 K. Reed Clark, Zarife Sahenk, Jerry
 Mendell, Brian Kaspar
- P08.111 Spastic Paraplegia, Optic Atrophy, and Neuropathy (SPOAN): New Observations, Locus Refinement, and Exclusion of Candidate Genes Fernando Kok, Lucia Ines Macedo-Souza, Santos Silvana, Simone Amorim, Luciana Licinio, Zodja Graciani, Paulo Otto, Mayana Zatz
- P08.112 Targeting the Nrf2 Pathway in Huntington's Disease: Therapeutic Efficacy of Dimethyl Fumarate in the R6/2 Mouse Model Gisa Ellrichmann, De-Hyung Lee, Carsten Saft, Ralf Gold, Ralf Linker
- P08.113 Variation in the Alpha-Synuclein Gene, Independent of REP1, Modifies Risk for Parkinson's Disease Ignacio Mata, Ali Samii, Stewart Factor, Donald Higgins, Alida Griffith, John Roberts, Hojoong Kim, Pinky Agarwal, Dora Yearout, Carolyn Hutter, Karen Edwards, Denise Kay, Haydeh Payami, Cyrus Zabetian

POSTER SESSION VIII

- P08.114 Common Variation in the LRRK2 Gene Is a Risk Factor for Parkinson's Disease Ignacio Mata, Harvey Checkoway, Carolyn Hutter, Ali Samii, Alida Griffith, John Roberts, Hojoong Kim, Pinky Agarwal, Dora Yearout, Federico Farin, Karen Edwards, Cyrus Zabetian
- P08.115 Genotype-Phenotype Correlation in a Transgenic Mouse Model of Machado-Joseph Disease Anabela Silva-Fernandes, Maria do Carmo Costa, Sara Duarte-Silva, Cristina Costa, Pedro Oliveira, Patrícia Maciel
- P08.116 Region-Specific Changes in the Expression of Hsp70 in the Central Nervous System of a Transgenic Mouse Model of Machado-Joseph Disease Teresa Cruto, Andreia Teixeira-Castro, Anabela Silva-Fernandes, Maria do Carmo Costa, Sara Duarte-Silva, Patrícia Maciel

P08.117 WITHDRAWN

- P08.118 Restoration of Normal Function by Combinational Gene Replacement Using Follistatin and Micro-Dystrophin in Mdx Mice Louise Rodino-Klapac, Paul Janssen, Kim Shontz, Amy Eagle, Chrystal Montgomery, K. Reed Clark, Jerry Mendell, Brian Kaspar
- **P08.119** Targeting the Expression of Transthyretin by the Choroid Plexus *Richard Smith, Merrill Benson, Gene Hung, Brett Monia, Barbara Kluve-Beckerman*
- P08.120 Abnormal Glutamate Neurotransmission (GNT) in Adults with Ornithine Transcarbamylase Deficiency (OTCD) Brian Ross, Andrea Gropman, Napapon Sailasuta, Kent Harris, Osama Abulseoud

Child Neurology: Genetics

- P08.121 Molecular Genetic Studies in Indian Patients with Megalencephalic Leukodystrophy Pallavi Shukla, Neerja Gupta, Manju Ghosh, Raju Sharma, Madhulika Kabra, Veena Kalra
- P08.122 A New Sporadic Point Mutation in the ATP6 of the Mitochondrial DNA (mtDNA) in Leigh Disease Genevieve Langley, Lauren Hyams, Francis Dimario, John Shoffner

- P08.123 Classic Pelizaeus-Merzbacher Disease in a Girl with an Unbalanced Chromosomal Translocation and Functional Duplication of the PLP1 Gene Eppie Yiu, Sandra Farrell, Teesta Soman
- P08.124 Clinical Characterization and Mapping of the Locus for a New Form of Childhood-Onset Leukodystrophy Genevieve Bernard, Isabelle Thiffault, Martine Tetreault, Marie-Emmanuelle Dilenge, Guillaume Sebire, Serge Melancon, Michel Sylvain, Pierre Langevin, Jean-Pierre Bouchard, Bernard Brais
- P08.125 Genetic Basis of Unidentifiable Arcuate Fasciculus in Children with Developmental Delay Senthil Sundaram, Harry Chugani, A. H. M. Huq
- P08.126 Mutations in PEX10 Are a Cause of Autosomal Recessive Spinocerebellar Ataxia Luc Régal, Merel Ebberink, Ronald Wanders, Hans Waterham, Linda De Meirleir, Jaak Jaeken, Rudy Van Coster, Maarten Schrooten, Nathalie Goemans
- **P08.127** "Dropped Head Syndrome" in a Child Due to a Lamin A/C Mutation *Edward Smith*
- **P08.128** Comparative Genomic Hybridization (CGH) in the Diagnosis of Malformations of Cerebral Development *Frances Roberts, Adeline Vanderver, Andrea Gropman*
- P08.129 Familial Degenerative Encephalopathy with Intracranial Calcification and Metaphyseal Dysplasia Margaret Timmons, James Garbern, Pamela Robey, Andrew Singleton, Dena Hernandez, G. David Roodman, Ira Zaltz, Steven Mumm, William Wilcox, Kenneth Fischbeck, Roscoe Brady, Melanie Knight
- **P08.130** MUTFLOW: A Mutation Discovery Workflow *Senthil Sundaram, Zhen Sun, Otto Muzik, Shiyong Lu, A. H. M. Huq*

Translational Research in Stroke

- P08.131 Changes in Hemocoagulation in Stroke Patients and Healthy Volunteers after a One-Hour Continuous Ultrasound Monitoring Using a Diagnostic 2-4 MHz Transcranial Probe Roman Herzig, David Skoloudik, Tána Fadrná, Michal Bar, Ondrej Zapletal, Jan Blatn, Katerina Langová, Petr Kanovský
- P08.132 Autophagy in Human Umbilical Vein Endothelial Cells Involved in Atherosclerosis:Degradation of Ox-LDL Yanlin Zhang, Yongjun Cao, Yaping Yang, Ruixia Li, Tong Tong, Huihui Liu, Chunfeng Liu

P08.133 WITHDRAWN

- P08.134 Melatonin Neuroprotection during Focal Cerebral Ischemia Pankhil Shah, Santiago Ortega-Gutierrez, Jane Madden, Joaquin Garcia, Michel Torbey
- P08.135 Clot Aspiration Plus Intrastriatal Administration of a Self-Assembling Peptide in a Rat Model of Intracerebral Hemorrhage Yan-Hua Sang, Yu-Xiang Liang, Rutledge Ellis-Behnke, Kwok-Fai So, Raymond Cheung
- P08.136 ATP-Sensitive Potassium (KATP) Channel Blockers Do Not Reverse the Neuroprotective Effect of a Ketogenic Diet in an Animal Model of Posthypoxic Myoclonus Kwok-Keung Tai, Lisa Pham, Daniel Truong
- P08.137 Cysteine-Sparing Notch3 Mutation in a Patient with Migraines and Extensive White Matter Abnormalities Eric Edgar, Kurt Lindsay, Karen Dellinger, Helmi Lutsep
- P08.138 The Effect of Serum ADMA Levels on Infarct Volume and Prognosis in Patients with Acute Ischemic Stroke Fatma Saglam, Yahya Celik, Hakan Karadag, Kemal Balci, Talip Asil
- P08.139 Validation of a One-Dimensional Model of the Arterial Cerebral Circulation Using Ultrasound Fabienne Perren, Philippe Reymond, Daniel Rüfenacht, Nikoalos Stergiopulos
- P08.140 Microalbuminuria in the Acute Phase of Ischemic Stroke and TIA Severine Debiais, Isabelle Bonnaud, Ken Hagenauer, Denis Saudeau, Bertrand De Toffol, Jean Michel Halimi

Stroke: Bench to Bedside

- P08.141 Hyperglycemia May Be Associated with Edema Progression in Acute Intracerebral Hemorrhage Mustapha Ezzeddine, Nauman Tariq, Gabriela Vazquez, Steve Cordina, Alexandros Georgiadis, Adnan Qureshi
- **P08.142** Apocynin Decreases Consequences of Nitric Oxide Synthase Uncoupling in Experimental Neonatal Hypoxia-Ischemia *Roderic* Fabian, Thomas Kent
- P08.143 Changes in Protein Levels of Phosphorylated Akt and GSK 3 Beta May Not Contribute to the Protection of Lithium Against Focal Ischemia in Rats Tetsuya Takahashi, Hanfeng Zhan, Heng Zhao, Gary Steinberg

- **P08.144** Delayed Postconditioning Protects Against Focal Ischemic Brain Injury in Rats *Heng Zhao, Chuancheng Ren, Xuwen Gao, Gang Niu, Zhimin Yan, Xiaoyuan Chen*
- P08.145 Plasma Myeloperoxidase in Acute Brain Ischemia and High-Grade Carotid Stenosis David Orion, Philipp von Landenberg, Yvonne Schwammenthal, Rakefet Tsabari, Roseline Schwartz, Oleg Merzeliak, Joab Chapman, David Tanne
- P08.146 Pinoline: A Novel Neuroprotective Theraphy in Focal Cerebral Ischemia Santiago Ortega-Gutierrez, Pankhil Shah, Jane Madden, Joaquin Garcia, Michel Torbey
- P08.147 ASIC2 Protein Is Required for Pressure-Induced Constriction in Mouse Middle Cerebral Artery and Prevention of Cerebral Edema Kim Gannon, Lauren VanLandingham, Elizabeth Mckey, Rumbi Chiposi, Heather Drummond
- P08.148 Hypoxia/Hypoglycemia Modulates Thrombin-Induced Release of Pro-Inflammatory Cytokines and Chemokines from Cultured Human Astrocytes Jonathan Weinstein, Sarah Swarts, Richard Lee, Thomas Moeller
- P08.149 Caspase 3-Dependent Proteolytic Cleavage of TDP-43 in a Model of Transient Middle Cerebral Artery Occlusion Masato Kanazawa, Akiyoshi Kakita, Hironaka Igarashi, Tetsuya Takahashi, Hitoshi Takahashi, Masatoyo Nishizawa, Tsutomu Nakada, Takayoshi Shimohata
- P08.150 Metabolic Syndrome and CO2 Cerebral Vasomotor Reactivity Sotirios Giannopoulos, Bernadette Boden-Albala, Emmanuel Carrera, Margaret Doyle, Thania Perez, Randolph Marshall

Interventional Neurology III

- **P08.151** Prevalence of Vertebrobasilar System Abnormality in Patient with Vertigo *Fritz Usman, Fitri Illahude-Sumantri, Hermanto Swatan, Suwito Pantoro, Edward Yuwono*
- P08.152 Clinical Outcome of Patients with Posterior Circulation Stroke Secondary to Bilateral Vertebral Artery Occlusion *M. Fareed* Suri, Nauman Tariq, Qaisar Shah, Adnan Qureshi
- P08.153 Neuroprotective Effect of Near-Infrared Light Emitting Treatment in Stroke Santiago Ortega-Gutierrez, Pankhil Shah, Ellen Buchmann, Michele Henry, Michel Torbey, Harry Whelan
- **P08.154** Endovascular Treatment of Carotid Artery Stenosis by Stent Implantation *Detlef Claus, Peter Huppert*

POSTER SESSION VIII

P08.155 How Common Is Vertebral Artery Origin Stenosis in Hospitalized Patients Admitted with Ischemic Stroke? CT Angiography Study Aparna Komatineni, Junaid Kalia, Sindhu Srivatsal, Mouhammad Kabbani, Thomas Wolfe, Syed Hussain, Osama Zaidat

Neural Repair/Rehabilitation II

- P08.156 Accelerated Locomotor Recovery after Augmented Stroke Rehabilitation Megumi Hatakenaka, Ichiro Miyai, Masahito Mihara, Hajime Yagura, Noriaki Hattori, Takehiko Yanagihara
- P08.157 Validation of Neuroprotective Efficacy of Progesterone and Curcumine on Subacute Phase Changes Induced by Partial Global Cerebral Ischemia in Mice Model Amitava Chakrabarti, Ajay Prakash, Debashish Hota, Ashis Pathak, Uma Saikia
- P08.158 The Effects of Noradrenergic Stimulation on the Motor System of Stroke Patients *Ling* Wang, Christian Grefkes, Svenja Diekhoff, Anne Rehme, Gereon Fink
- **P08.159** Differential Effects of Proton Pump Inhibitors on Functional Recovery Following Stroke *Leonardo Lopez, Rolf Martin, Michael Reding*

- P08.160 Results of a Phase I/IIa Prospective, Multicenter Clinical Trial To Assess the Safety and Efficacy of Cethrin in Adult Subjects with Acute Spinal Cord Injury (SCI) Mark Hurtt, Susan Flint
- P08.161 Reduced Peroxisomal Proliferator Activator Receptor Gamma Co-Activator Alpha PGC-1alpha Levels in Hemiparetic Stroke Thigh Muscle May Be Reversed by Treadmill Exercise Charlene Hafer-Macko, Frederick Ivey, Alice Ryan
- **P08.162** Effect of Multiple Sclerosis Treatments on Growth of Neural Progenitor Cells In Vitro *Nara Chhua, Violaine Harris, Saud Sadiq*
- P08.163 Extensive Demyelinating Lesions: Clinical and MRI, Predictive and Evolutive Factors Carole Roué-Jagot, Irène Coman, Damien Galanaud, Rana Assouad, Olivier Gout, Olivier Lyon-Caen, Ayman Tourbah
- **P08.164** Occurrence of Fatigue More Than 20 Years after Recovery from Guillain-Barre Syndrome *Vivian Drory*

- P08.165 Locomotor Training May Improve Cognitive Performance in Persons with Multiple Sclerosis Barbara Giesser, Elise Herlihy, Prudence Plummer-D'Amato, Michele West, Seth Thomas, Amy Budovitch, Natalia Pokras, Melinda Guttry, Jean-Philippe Regnaux, Rhonda Voskuhl, Stefan Gold, Bruce Dobkin
- P08.166 Management of Refractory Orthostatic Hypotension in the First Month Following Acute Spinal Cord Injury Evgeny Sidorov, Andrea Townson, Marcel Dvorak, Brian Kwon, John Steeves, Andrei Krassioukov
- P08.167 Pantoprazole Treatment Is Associated with More Rapid Recovery Following Ischemic and Hemorrhagic Stroke, Spinal Cord Injury, Traumatic Brain Injury and Other Types of CNS Injury Rolf Martin
- **P08.168** ICF-CY as a Roadmap for Projecting and Programming Rehabilitation in a Neuropediatric Hospital Unit *Andrea Martinuzzi, Annamaria Salghetti, Silvana Betto*
- P08.169 Development of a Gravity Neutral Orthotic To Improve Arm Function in Severely Disabled Children with Spinal Muscular Atrophy (SMA) Jacqueline Montes, Viktor Gamarnik, Benjamin Koo, Jonathan Marra, Sally Dunaway, Megan Montgomery, Jessica O'Hagen, Keith Yeager, Nancy Strauss, Darryl De Vivo, Elisa Konofagou, Barclay Morrison, Petra Kaufmann

- P08.170 Visualizing Axonal Integrity Following Neonatal Spinal Cord Injury Using Diffusion Tensor Imaging MRI Daniel Becker, Yun Qu, Quinlan Sievers, John McDonald
- **P08.171** Improving Sleep: Initial Treatment of OIF/OEF Veterans with Blast-Induced Mild TBI Robert Ruff, Suzanne Ruff, Xiao-Feng Wang
- P08.172 Ocular Pressure
 Test Shows Subtle Autonomic
 Cardiovascular Dysfunction in Patients
 with Mild Traumatic Brain Injury Max
 Hilz, Felix Aurnhammer, Stefan
 Anders, Harald Marthol, Paulina
 Blaszczynska, Tim Schroeder, Anja
 Rossmeissl, Steven Flanagan
- **P08.173** Bruxism/Trismus Treated with Botulinum Toxin-A in a Severe Head Injury Patient *Harry Koslowski*
- P08.174 Impairment in Communicative Effectiveness in Parkinson's Disease Emily Plowman-Prine, Stephenie Pollock, Michael Okun, Christine Sapienza, John Rosenbek
- P08.175 Animal Model of Corticobulbar and Corticospinal Dysfunction in Parkinson's Disease Emily Plowman-Prine, Nagheme Thomas, Stephen Fowler, Christine Sapienza, Jeffrey Kleim

SCIENTIFIC SESSIONS

S41 Multiple Sclerosis: Clinical Outcomes

Room 6B

1:30 p.m. S41.001 A Clinical-MRI Composite Score Predictive of Longer Term Outcome in RRMS *Gary Cutter, Maria Pia Sormani, Jack Simon, Richard Rudick*

1:45 p.m. \$41.002 Falls in Multiple Sclerosis: Prevalance and Risk Factors Patricia Matsuda, Alyssa Bamer, Anne Shumway-Cook, Shana Johnson, George Kraft, Dagmar Amtmann

2:00 p.m. \$41.003 Quantitative Sensorimotor Measures in a Heterogeneous Multiple Sclerosis Cohort Scott Newsome, Kathleen Zackowski, Peter Calabresi

2:15 p.m. S41.004
Clinically Meaningful Change
in Cognitive Function
as Confirmed by Work
Disability Sarah Morrow, Allison
Drake, Bianca WeinstockGuttman, Fredrick Munschauer,
Ralph Benedict

2:30 p.m. S41.005
Cognitive Impairment Predicts
the Clinical Conversion to
Multiple Sclerosis in Patients
with Clinically Isolated
Syndromes Valentina Zipoli,
Benedetta Goretti, Emilio
Portaccio, Maria Pia Amato

2:45 p.m. S41.006
Urometric Profile in a MS
Population: Relation between
Subjective and Objective
Measures of Bladder
Dysfunction Shalom Haggiag,
Giovanni Bolla, Claudio
Gasperini, Simonetta Galgani

3:00 p.m. S41.007
Incidental Multiple Sclerosis
like Lesions in Asymptomatic
Patients; Analysis of 864
Consecutive MRI at a Tertiary
Care Hospital in Karachi,
Pakistan Farhan Rizvi,
Mohammad Wasay, Muhammad
Azeemuddin, Adnan Yousuf,
Sten Fredrikson

3:15 p.m. S41.008
Follow-Up of 70 Patients with
Subclinical Multiple Sclerosis:
What Can We Learn from
MRI and CSF on Clinical
Conversion Profile? Christine
Lebrun Frenay, Caroline Bensa,
Sandrine Wiertlevski, Marc
Debouverie, David Brassat,
Jean Pelletier, Ayman Tourbah,
Bruno Brochet, Pierre Labauge,
Jerome De Seze, Frederic
Berthier, Pierre Clavelou

S42 Aging and Dementia: Biology or Predictor

Room 6C

1:30 p.m. S42.001

Aβ Conformer Reactivity of IgG
Antibodies Contained in Normal
Plasma Brian O'Nuallain,
Luis Acero, Helen McWilliams
Koeppen, Alan Solomon,
Hans Peter Schwarz, Alfred
Weber, Hartmut Ehrlich, Angela
Williams

1:45 p.m. \$42.002 Reduced Serum Progranulin in GRN Mutation Carriers *Ging-Yuek Hsiung, Alice Fok, Howard Feldman, Rosa Rademakers, Ian Mackenzie*

2:00 p.m. \$42.003 Stability of MCI Diagnoses over Time in a Population-Based Cohort: The Mayo Clinic Study of Aging Ronald Petersen, David Knopman, Vernon Pankratz, Rosebud Roberts, Bradley Boeve, Walter Rocca

2:15 p.m. S42.004
The Cortical Signature
of Alzheimer's Disease
(AD) Is Detectable in
Asymptomatic Older Adults
and Is Useful for Prediction of
Dementia Bradford Dickerson,
Akram Bakkour, Ronald Killiany,
Marilyn Albert, Reisa Sperling,
Bradley Hyman, Deborah
Blacker

2:30 p.m. \$42.005 Whole Brain MTR25% a Valuable Outcome Measure in Prion Disease Therapeutic Trials Durrenajaf Siddique, Steve Wroe, Harpreet Hyare, Thomas Webb, Rebecca Macfarlane, John Collinge, Sarah Walker, Tarek Yousry, John Thornton

2:45 p.m. S42.006
An Oculomotor Biomarker of
Tau Pathology in FTLD Adam
Boxer, Siobhan Garbutt, William
Seeley, Joanna Hellmuth, Aria
Jafari, Stephen DeArmond,
Stephen Lisberger, Bruce Miller

3:00 p.m. \$42.007 TDP-43 Immunohistochemistry in Neurofilament Inclusion Body Disease (NIBD) *Keith Josephs, Joseph Parisi, Gary Pearl, Rodney McComb, Dennis Dickson*

3:15 p.m. S42.008
Coated-Platelet Levels and
Progression to Alzheimer
Disease in Patients with
Amnestic Mild Cognitive
Impairment Calin Prodan,
Elliott Ross, Julie Stoner, Linda
Cowan, Andrea Vincent, George
Dale

S43 Evaluation and Treatment of Parkinson's Disease

Room 6A

1:30 p.m. S43.001 The ADAGIO Study: Secondary and Additional Endpoints *C* Warren Olanow, Olivier Rascol

1:45 p.m. \$43.002 Training Program for the Unified Dyskinesia Rating Scale Christopher Goetz, Glenn Stebbins, John Nutt, Teresa Chmura

2:00 p.m. \$43.003 Double-Blind Evaluation of Pramipexole Extended-Release (ER) in Early Parkinson's Disease Robert Hauser, Laurence Salin, Juergen Koester

2:15 p.m. \$43.004
Pramipexole Ameliorates
Depression in Parkinson's
Disease: A Randomized
Double-Blind Versus Placebo
Trial Paolo Barone, Werner
Poewe, Dan Massey, Catherine
Debove Debieuvre

2:30 p.m. \$43.005
The PREPARED Study: An
Assessment of Symptom
Control in Patients with
Advanced Parkinson's Disease
Receiving Treatment with
Adjunctive Ropinirole Prolonged
Release or Ropinirole
Immediate Release Fabrizio
Stocchi, Luigi Giorgi, Brian
Hunter, Anthony Schapira

2:45 p.m. \$43.006
Transcranial Direct Current
Stimulation for the Treatment
of Parkinson's Disease: A
Randomized, Double-Blind,
Sham-Controlled Study David
Benninger, Mikhail Lomarev,
Grisel Lopez, Eric Wassermann,
Elaine Considine, Mark Hallett

3:00 p.m. \$43.007 Temporal Characteristics of Dyskinesia Emerging during Long-Term Levodopa (LD) Therapy in Parkinson's Disease (PD) John Nutt, Kathryn Chung

3:15 p.m. \$43.008 Longitudinal Assessment of a Clinically Meaningful Difference in the UPDRS Lisa Shulman, Ann Gruber-Baldini, Karen Anderson, Paul Fishman, Stephen Reich, William Weiner

S44 Stroke Imaging

Room 608/609

1:30 p.m. S44.001
Robust Leptomeningeal Collaterals on Computed Tomography
Angiography Correlate with Improved Outcome in Patients with Proximal Middle Cerebral Artery Occlusion Fabricio Lima, Karen Furie, Gisele Silva, Michael Lev, Erica Camargo, Hakan Ay, Aneesh Singhal, Gordon Harris, David Greer, Elkan Halpern, Walter Koroshetz, Wade Smith, Raul Nogueira

1:45 p.m. S44.002
Determinants of White Matter
Hyperintensity Volume in Patients
with Acute Ischemic Stroke Natalia
Rost, Shruti Sonni, Rosana
Rahman, Allison Kanakis, Christi
Butler, Efi Massasa, Lisa Cloonan,
Aaron Gilson, Pilar Delgado,
Yuchiao Chang, Angela Besanger,
Gisele Silva, Jonathan Rosand,
Karen Furie

2:00 p.m. \$44.003

Neuroinflammation Extends the Brain Tissue at Risk to Areas of Preserved Perfusion: A Combined [11C]PK11195- and [18F]FDG-PET Study Michael Schroeter, Maria Dennin, Maureen Walberer, Heiko Backes, Bernd Neumaier, Gereon Fink, Rudolf Graf

2:15 p.m. S44.004
Cerebral White Matter Lesions Are
Associated with the Risk of Stroke
but Not with Other Vascular Events.
The 3C-Dijon Study Carole Dufouil,
Jean-Francois Buyck, Bernard
Mazoyer, Pierre Ducimetière,
Annick Alperovitch, MarieGermaine Bousser, Tobias Kurth,
Christophe Tzourio

2:30 p.m. \$44.005
The Extent of White Matter
Hyperintensities on Early MRI
Is Independently Associated
with Long-Term Outcomes in
Patients with Anterior Circulation
Infarcts Mahmut Gurol, Patricia
Davis, Enrique Leira, Christopher
Streib, Harold Adams

2:45 p.m. S44.006
Longitudinal Changes in
Neuropsychological Function and
Brain Structure among Cognitively
Intact Individuals with Vascular Risk
Factors Lara Heflin, Ling Zheng,
Wendy Mack, Jonathan Gooblar,
Dan Mungas, Bruce Reed, Michael
Weiner, Helena Chui, Joel Kramer

3:00 p.m. \$44.007
Collateral Vessels on CTA Predict
Outcome in Acute Ischemic
Stroke Matthew Maas, Michael
Lev, Hakan Ay, Aneesh Singhal,
David Greer, Wade Smith, Gordon
Harris, Elkan Halpern, Walter
Koroshetz, Karen Furie

3:15 p.m. S44.008
Effect of Carotid Stenosis on the
Prognostic Value of Admission
Blood Pressure in Patients with
Acute Ischemic Stroke Maurizio
Paciaroni, Giancarlo Agnelli,
Valeria Caso, Francesco Corea,
Walter Ageno, Andrea Alberti,
Alessia Lanari, Sara Micheli, Luca
Bertolani, Michele Venti, Francesco
Palmerini, Sergio Biagini, Giancarlo
Comi, Antonia Billeci, Paolo Previdi,
Giorgio Silvestrellii

S45 Anterior Horn: Clinical and Translational Research

Room 606/607

1:30 p.m. S45.001
Plasma Levels of
Phosphorylated Axonal Form of
Neurofilament Heavy Subunit
(pNF-H) Are Increased in the
G93A SOD1 Mouse and in
ALS Patients; Evaluation of
Plasma pNF-H as a Potential
ALS Biomarker Kevin Boylan,
Cui Yang, Julia Crook, Karen
Overstreet, Michael Heckman,
David Borchelt. Gerry Shaw

1:45 p.m. S45.002 Computational SNP Analysis Suggests That Polymorphisms in TDP-43 Affect Potassium Channel Function in ALS Jean-Luc Mougeot, Benjamin Brooks

2:00 p.m. S45.003
In Vivo Measurement of the Elastic Properties of the Skin as a Biomarker for Amyotrophic Lateral Sclerosis Harvey Arbesman, Julian Mackay-Wiggan, Xinhua Liu, Howard Andrews, Marian Arbesman, Jinsy Andrews, Rebecca Marcus, Ariel Hoch, Carol Coppola, Gabriela Harrington-Moroney, Ming Feng, Fidel Martinez, David Bickers, Hiroshi Mitsumoto

2:15 p.m. S45.004
Tobacco Smoke and the Risk of
Amyotrophic Lateral Sclerosis
in a Large European Cohort
Study Valentina Gallo, Paolo
Vineis, Lefkos Middleton

2:30 p.m. S45.005
Single Chain Variable Fragment
Antibodies (scFvs) Against
Superoxide Dismutase
Type-1 (SOD1): Reagents
for Investigations of the
Pathogenesis of Amyotrophic
Lateral Sclerosis (ALS)
and for Potential Use as a
Treatment Raymond Roos,
Ghanashyam Ghadge, John
Pavlovic, Andrew Kromer, Brian
Kay

2:45 p.m. S45.006 Abnormal Exon Splicing in Sporadic Amyotrophic Lateral Sclerosis (SALS) Motor Neurons Stuart Rabin, Hugo Kim, Young Kim, Brad Stone, John Ravits

3:00 p.m. S45.007
ALS-Dementia in a Large
Population of Patients with
ALS and FTD Leo McCluskey,
Lauren Elman, David Libon,
William Hu, Sharon Xie, Alea
Khan, Brianna Morgan, Lauren
Richmond, Rachel Gross,
Murray Grossman

3:15 p.m. S45.008
Elevated Serum Ferritin Level
Correlate with Faster Disease
Course in ALS Muddasir
Qureshi, Merit Cudkowicz,
David Schoenfeld, Yuvika
Paliwal, Kerrie Nelson, Jack
Rogers, Robert Brown, Jr.

S46 Headache: Basic and Clinical Science

Room 611/612

1:30 p.m. S46.001
PhosphatidylcholineSpecific Phospholipase C
Activity in Cerebrospinal
Fluid Correlates with the
Number of Comorbidities
of Migraine Alfred Fonteh,
Rainbow Chung, Tara Sharma,
Robert Cowan, Michael
Harrington

1:45 p.m. S46.002 Association of Benign Recurrent Vertigo and Migraine – 208 Cases Yoon-Hee Cha, Hane Lee, Lauren Sininger-Santell, Robert Baloh

2:00 p.m. S46.003
A Consecutive Series of Ten
Cases of New Daily Persistent
Headache: Clinical Presentation
and Morphology of the Venous
System Anne Donnet, Olivier
Levrier

2:15 p.m. S46.004
Prevalence of Migraine in
Abdominal Obesity throughout
the Adult Life-Cycle: NHANES
1999-2004 B. Peterlin, Andrea
Rosso, Alan Rapoport, Ann
Scher

2:30 p.m. S46.005 C-Reactive Protein and Body Mass Index: Correlations with Migraine Severity and Treatment Response John Rothrock, Diane Andress-Rothrock, Silvia Weibelt

2:45 p.m. S46.006
Responsiveness of Exploding,
Imploding, and Ocular-Type
Migraine Headaches to
Botulinum Toxin Type-B as
a Prophylactic Agent Maria
Alvarez, Patrick Grogan

3:00 p.m. S46.007
Pharmacokinetics and Overall
Exposure of Sumatriptan after
Administration of a Fixed Dose
Single Tablet of Sumatriptan
and Naproxen Sodium Followed
by Sumatriptan SC Injection
Two Hours Later Alienor
Berges, Christine Walls, Shelly
Lener, Susan McDonald

3:15 p.m. S46.008
The Serum Levels of
Proangiogenic Factors in
Migraineurs during Interictal
Period Slawomir Michalak,
Danuta Wegrzyn, Krystyna
Osztynowicz, Wojciech
Kozubski

S47 Multiple Sclerosis: Immunology III

Room 605/610

1:30 p.m. S47.001
Targeting CNS-Autoimmunity and -Repair Using the Secretory Leukocyte Protease Inhibitor (SLPI) Andre Mueller, Jacqueline Dinzey, Xiomara Pedré, Andreas Steinbrecher, Saud Sadiq

1:45 p.m. S47.002
Inhibition of GAPDH Activity and Induction of Neuronal Apoptosis and Axonal Degeneration by Antibodies Present in the Cerebrospinal Fluid and Brain Tissue of Patients with Multiple Sclerosis Yufen Qin, Johanna Kolln, Yiping Zhang, Stanley van den Noort, Gaby Thai, Michael Demetriou, Neal Hermanowicz

2:00 p.m. \$47.003
The Immunomodulator
Fingolimod (FTY720) Increases
Myelin Production Following
Demyelination of Organotypic
Cerebellar Slices Veronique
Miron, Peter Darlington, Samuel
Ludwin, Andrew Jarjour,
Timothy Kennedy, Jack Antel

2:15 p.m. S47.004
Fish Diet Prevents
Demyelination, Clinical
Symptoms and MRI Activity in
the Cuprizone Model *@ivind*Torkildsen, Linn Anne Brunborg,
Frits Thorsen, Anne Marita
Milde, Sverre Jarl Mørk, Martin
Stangel, Kjell-Morten Myhr,
Lars Bø

2:30 p.m. \$47.005
Capacity of Human Fetal
Oligodendrocyte Progenitors
To Differentiate and Ensheath
Axons in Response to Growth
Factors QiaoLing Cui, Gabiella
Fragoso, Veronique Miron,
Guillermina Almazan, Jack Antel

2:45 p.m. S47.006
Whole Genome Analysis
of the Effect of Interferonbeta Treatment on Different
Peripheral Blood Cell
Populations in Multiple Sclerosis
Patients Xiao-song Zhao,
Yuhong Yang, Michael Racke,
Laurie Davis

3:00 p.m. \$47.007 Role of 15-oxysterols in Neuroinflammation Mauricio Farez, Francisco Quintana, Antonio Iglesias, Claudia Lucchinetti, Guillermo Izquierdo, Miguel Lucas, Howard Weiner

3:15 p.m. \$47.00
The Effect of Laquinimod
on Lymphocyte VLA-4
Properties under Shear Flow
Conditions Liat Hayardeny,
Sara Feigelson, Valentin
Grabovsky, Joel Kaye, Rotem
Keshet, Guy Cinamon, Ronen
Alon

S48 Neuroepidemiology/ Health Services Research

Room 602/603

1:30 p.m. Presentation of the Bruce S. Schoenberg International Award in Neuroepidemiology

Endowed by GlaxoSmithKline, Inc.

Recipient:

Edgard-Brice Ngoungou, PhD

Libreville, Gabon

S48.001 Relationship between Cerebral Malaria and Sequelar Epilepsy in Tropical Regions *Edgard-Brice Ngoungou*, *PhD*

2:00 p.m. S48.003
Age Disparities in Stroke
Care Delivery and Quality
of Care Gustavo Saposnik,
Sandra Black, Antoine Hakim,
Jiming Fang, Jack Tu, Moira
Kapral

2:15 p.m. \$48.004
The Duration and Amount of
Cigarette Smoking in Relation
to Parkinson's Disease Honglei
Chen, Xuemei Huang, Yikyung
Park, David Umbach, Aaron
Blair, Albert Hollenbeck, Arthur
Schatzkin

2:30 p.m. S48.005
Predictors of Functional
Improvement after the First
Three Months Following
Ischemic Stroke Yousef
Mohammad, Steve Cordina,
Gabriela Vazquez, Kamakshi
Lakshminarayan, M. Fareed
Suri, Adnan Qureshi

2:45 p.m. S48.006
Usage of Pharmacological
Treatments for Alzheimer's
Disease: Associations of
Race and Demographic
Variables Alan Lerner, Santiago
Hernandez, Kathleen Smyth,
McKee McClendon

3:00 p.m. S48.007
The National Institute of
Neurological Disorders and
Stroke Clinical Research
Collaboration: Connecting
Research to Communities
by Expanding Research
Access Anne Lindblad, Carolyn
Burke, Marian Emr, Joanne
Odenkirchen, Brandy Fureman

3:15 p.m. S48.008
Measuring Health-Related
Quality of Life (HRQL) in
Neurology Clinical Research:
Neuro-QOL Item Banks and
Disease Targeted Scales David
Cella, Claudia Scala-Moy,
Deborah Miller, Amy Peterman,
Richard Gershon, David
Victorson, Cindy Nowinski,
Seung Choi, Jin-Shei Lai, Rita
Bode, Anthony Reder

S49 Stroke Prevention and Outcomes

Room 613/614

1:30 p.m. \$49.001 Severity of Leukoaraiosis Predicts Clinical Outcome after Ischemic Stroke Ethem Arsava, Rosanna Rahman, Jonathan Rosand, Jie Lu, Eric Smith, Natalia Rost, Aneesh Singhal, Michael Lev, Karen Furie, Walter Koroshetz, A. Gregory Sorensen, Hakan Ay

1:45 p.m. \$49.002
Retinl Vascular Caliber and
Extracranial Carotid Disease in
Patients with Acute Ischemic
Stroke: The Multicentre Retinal
Stroke (MCRS) Study Deidre
De Silva, Fung Peng Woon,
Erica Liu, Richard Lindley, TienYin Wong, Meng-Cheong Wong

2:00 p.m. S49.003
Comparing Indicators of Quality of Stroke Care: The Initial Step for a Worldwide Effort Luciano Sposato, Moira Kapral, Jiming Fang, Osvaldo Fustinoni, Gustavo Saposnik

2:15 p.m. S49.004
Albuminuria and the Risk
of Incident Stroke and
Stroke Subtypes in Older
Adults Participating in the
Cardiovascular Health Study
(CHS) Maria Aguilar, Ellen
O'Meara, Stephen Seliger, W. T.
Longstreth, Robert Hart, Pablo
Pergola, Michael Shlipak, Ronit
Katz, Mark Sarnak, Dena Rifkin

2:30 p.m. \$49.005 Safety Outcomes from the PROTECT Carotid Artery Stenting Multi-Center Study Seemant Chaturvedi, William Gray, Jon Matsumura

2:45 p.m. S49.006
Stroke Risk Perception in an
Urban, Multiethnic Stroke
and TIA Cohort: The SWIFT
Study Bernadette BodenAlbala, Megan Moran, Margaret
Doyle, Thania Perez, Laura
Evensen, Myunghee Paik

3:00 p.m. S49.007
Functional MRI in the
Assessment of Cerebral
Vasomotor Reactivity after
Extracranial-Intracranial Bypass
for Internal Carotid Artery
Occlusion Petr Hluštík, Roman
Herzig, Miroslav Vaverka, Josef
Machac, Stanislav Burval,
Ivanka Vlachová, Michal Král,
Andrea Bártková, Jan Mareš,
Petr Kanovský

3:15 p.m. S49.008
Single Nucleotide
Polymorphisms That Influence
Lipid Metabolism and Carotid
Plaque Danielle Marie Yanuck,
Ashley Beecham, Hannah
Gardener, Susan Slifer, Liyong
Wang, Susan Blanton, Ralph
Sacco, Suh-Hang Hank Juo,
Tatjana Rundek

S50 Child Neurology: Diagnosis and Treatment

Room 604

1:30 p.m. S50.001
The Establishment of an Expanded Simultaneous Swift Diagnosing System for Mitochondrial DNA Pathological Mutations Yutaka Nishigaki, Hitomi Ueno, Hiroko Hosoya, Michio Hirano, Masashi Tanaka

1:45 p.m. S50.002 Reversible Cerebral Insult in Protein Energy Malnutrition Mohamed El-Gengaihy, Magdy El-Ghamrawy, Yosria El-Taweel, Rasha Fahmy, Ahmed El-Gengaihy

2:00 p.m. S50.003 Fever and Regression in Autistic Spectrum Disorder Patients with Mitochondrial Disease John Shoffner

2:15 p.m. S50.004
Growth Charts for Rett
Syndrome: Birth to 18 Years of
Age Daniel Tarquinio, Kathleen
Motil, Wei Hou, Daniel Glaze,
Steven Skinner, Jeffrey Neul,
Fran Annese, Judy Barrish,
Suzanne Geerts, Jane Lane,
Alan Percy

2:30 p.m. S50.005
Efficacy and Safety of
Aripiprazole for the Treatment
of Irritability Associated with
Autistic Disorder in Children
and Adolescents (6–17 Years):
Results from Two EightWeek, Randomized, DoubleBlind, Placebo-Controlled
Trials Donald Lewis, Randall
Owen, Deidra Couch, Ronald
Marcus, George Manos, William
Carson, Robert McQuade, Dan

2:45 p.m. S50.006
Breakthrough Disease
in Pediatric MS Patients:
A Pediatric Network
Experience E. Ann Yeh, Jayne
Ness, Dorothee Chabas, Anita
Belman, Bianca WeinstockGuttman, Emmanuelle
Waubant, Lauren Krupp,
NMSS Network of Pediatric MS
Centers of Excellence

3:00 p.m. \$50.007
Neuropsychological Benefits of Computerized Cognitive Rehabilitation Training in Ugandan Children Surviving Cerebral Malaria and Children with HIV Michael Boivin, Paul Bangirana, Rachelle Busman, Sujal Parikh, Robert Opika-Opoka, Noeline Nakasujja, Margaret Nakakeeto, Chandy John, Bruno Giordani

3:15 p.m. S50.008
Atypical Neural Circuits for Language in Autistic Patients
Using fMRI and DTI Amy
Newhouse, Grace Lai, William
Millar, Harry Schneider,
Johanna Schwarzenberger, Ted
Yanagihara, Joy Hirsch

INTEGRATED NEUROSCIENCE SESSION: THE CIRCADIAN AND HOMEOSTATIC CONTROL OF SLEEP

Thursday, April 30 / 2:00 p.m.-6:00 p.m.

Coordinators: Michael Silber, MB, CHB, FAAN and Phyllis C. Zee, MD, PhD

Invited Speaker Session* / 2:00 p.m.-3:30 p.m. / Room 3AB

2:00 p.m.-2:05 p.m. Introduction

2:05 p.m.-2:30 p.m. Circadian Rhythms: Central Nervous System and Beyond Phyllis C. Zee, MD, PhD

2:30 p.m.-2:55 p.m. Novel Insights from Genetics and Molecular Characterization of the Human Clock Louis Ptacek, MD, FAAN

2:55 p.m.-3:20 p.m. Homeostatic Regulation of Sleep Michael Silber, MB, CHB, FAAN

3:20 p.m.-3:30 p.m. Question and Answer Period

Poster Session / 3:30 p.m.-4:30 p.m. / Room 3AB

IN5-1.001 Chicken or Egg: Analysis of the Association between Headache and Sleep Disorders *Timothy Quast, Kimbra Kenney, Rachel Massey, William Campbell*

IN5-1.002 Armodafinil Sustains Wakefulness throughout the Day in Patients with Excessive Sleepiness Associated with Narcolepsy Russell Rosenberg, John Harsh, James Walsh, Ronghua Yang, Gregory Rippon, Thomas Roth

IN5-1.003 The Underlying Sleep Disorder of Fibromyalgia and Chronic Fatigue Syndrome Have Narcoleptiform Characteristics: Results of Sleep Studies and HLA Markers A. Robert Spitzer, Melissa Broadman

IN5-1.004 CSF Hypocretine-1 Concentrations Correlate with the Level of Fatigue in Multiple Sclerosis Patients Konrad Rejdak, Ewa Papuc, Witold Cholewiński, Zbigniew Stelmasiak IN5-1.005 Decreased Sleep Efficiency and Increased Daytime Somnolence in Parkinson's Disease Subjects with Hallucinations Jennifer Goldman, Glenn Stebbins, Mary Kwasny, Cynthia Comella

IN5-1.006 Circadian Rhythms in the Vegetative State *Tristán Bekinschtein, Diego Golombek, Sergio Simonetta, Martin Coleman, Facundo Manes*

IN5-1.007 Preliminary Observations of Weather-Related Ambient Atmospheric Pressure Changes on Sleep-Disordered Breathing *Michael Doherty, Clover Youn, Alan Haltiner, Nathaniel Watson*

IN5-1.008 A Case Study of Fatal Insomnia (FI) with Clinical, Laboratory, and Genetic Findings Jin Jun Luo, Ming He, Rima Alkasem, Allan Truant, Qingzhong Kong, Wen-Quan Zou, Pierluigi Gambetti

IN5-1.009 Resolution of Amenorrhea and Postmenopausal State after CPAP Therapy for Obstructive Sleep Apnea: Case Report *Nicolas Saikali, Bijal Mehta, Daniel Rifkin*

IN5-1.010 Restless Arms Syndrome Walter Arruda, Renato Munhoz, Helio Teive

Platform Session / 4:30 p.m.-6:00 p.m. / Room 3AB

:30 p.m. IN5-2.001

The Sleeping Brain's Influence on Verbal Memory: Boosting Resistance to Interference Jeffrey Ellenbogen, Justin Hulbert, Robert Stickgold

4:45 p.m. IN5-2.002

Melanopsin-Containing Retinal Ganglion Cells and Circadian Phototransduction Are Spared by Neurodegeneration in Mitochondrial Optic Neuropathies Chiara La Morgia, Fred Ross-Cisneros, Alfredo Sadun, Kevin Tozer, Jens Hannibal, Elisa Sancisi, Alessandra Munarini, Vilma Mantovani, Piero Barboni, Gaetano Cantalupo, Solange Salomao, Milton Moraes, Milton Moraes-Filho, Adriana Berezovsky, Rubens Belfort, Jr., Pasquale Montagna, Valerio Carelli

5:00 p.m.

Circadian Control of Neural Excitability in an Animal Model of Temporal Lobe Epilepsy Sachin Talathi, Dong-Uk Hwang, William Ditto, Paul Carney

5:15 p.m. IN5-2.004

Early Pathology in Sleep Studies of Patients with Familial Creutzfeldt-Jakob Disease *Gili Givaty, Dalia* Shechter-Amir, Oren Cohen, Blatt Ilan, Isak Prohovnik, Joab Chapman

5:30 p.m.

IN5-2.003

REM Behavior Disorder Associated with SOD1 Familial ALS Sandra Donkervoort, Lisa Wolfe, Nailah Siddique, Senda Ajroud-Driss, Jennifer Armstrong, Brandon Lu, Robert Sufit, Teepu Siddique

5:45 p.m.

IN5-2 005

Clinical Presentation and Acute Treatment of Electrical Status Epilepticus in Sleep and Sleep Potentiated Spikes Yaman Eksioglu, Emir Tas, Masanori Takeoka, Dean Sarco, Alexander Rotenberg, Sanjeev Kothare, Frank Duffy, Frances Jensen, Blaise Bourgeois, Tobias Loddenkemper

IN5-2 006

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President's Reception

AAN Press

Celebration for Research Neuro Idol Stage

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2AC.004 Botulinum Toxins: Practical Issues and Clinical Uses for Neurologists
2PW.001 Clinical Usefulness of Botulinum Toxin and Treatment of Dystonia
7TP.003 Movement Disorders Therapy
7FC.006 Movement Disorders
Corporate Therapeutic Update

American Board of Psychiatry and Neurology (ABPN)

Exhibit Guide

Door Drop Insert Exhibit Guide

Astrazeneca

Door Drop Insert (2)

Bayer Healthcare Pharmaceuticals, Inc.

Exhibit Guide Corporate Therapeutic Update Banner Marketing

Biogen Idec

7FC.001 Update on Multiple Sclerosis 8AC.001 Diagnostic Dilemmas in Multiple Sclerosis 1KP.001 Hot Topics in Multiple Sclerosis Carpet Marketing Door Drop Bag Sponsor 4/28 Exhibit Guide

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Corporate Therapeutic Update

Eli Lilly and Company

3DS.008 Neuropathic Pain:
Diagnostic Strategies and
Treatment Controversies
7BS.004 Attention Deficit Hyperactivity
Disorder Across the Lifespan
Celebration for Research Gold Level
Run/Walk for Brain Research

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7BS.005 Interventional Therapy for Acute Ischemic Stroke

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7TP.002 Headache Therapy

Medtronic

8AC.005 Deep Brain Stimulation

Merz Pharmaceuticals, Inc.

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Ortho-McNeil Neurologics, Inc.

Abstracts on CD

Ovation Pharmaceuticals, Inc.

Corporate Therapeutic Update Door Drop Insert Exhibit Guide

Pfizer Inc.

Corporate Therapeutic Update Door Drop Insert

Practical Neurology / Avondale Medical Publishers

Exhibit Guide

Questcor Pharmaceuticals, Inc.

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Shire

8BS.008 Antiepileptic Medication

TEVA Neuroscience

7TP.001 Multiple Sclerosis Therapy Celebration for Research Main Stage Door Drop Bag Sponsor 4/27 Door Drop Insert (2) Residents and Fellows Career Forum and Reception

UCB, Inc.

7TP.003 Movement Disorders Therapy 2BS.006 Critical Care Epilepsy/EEG Celebration for Research Neurobowl® Stage Resident Scholarship Fund

Current as of 2/26/09



S51 Multiple Sclerosis: Imaging II

Room 6B

3:45 p.m. S51.001

Axial and Radial Diffusivity as MR Biomarkers of Axonal and Myelin Injury in Ex-Vivo Multiple Sclerosis Cervical Spinal Cords Eric Klawiter, Kathryn Trinkaus, Hsiao-Fang Liang, Shu-Wei Sun, Matthew Budde, Robert Naismith, Robert Schmidt, Sheng-Kwei Song, Anne Cross, Tammie Benzinger

4:00 p.m. S51.002
Quantitative Assessment
of Brain Iron by R2*
Relaxometry in Patients with
Clinically Isolated Syndrome
or Relapsing-Remitting
Multiple Sclerosis Michael
Khalil, Christian Enzinger,
Christian Langkammer, Maria
Tscherner, Mirja WallnerBlazek, Margit Jehna, Stefan
Ropele, Siegrid Fuchs, Franz
Fazekas

4:15 p.m. S51.003
Children with Acute
Demyelinating Syndromes
Exhibit Age-Dependent
Slowing of Brain Growth
Compared to Healthy
Children Rezwan Ghassemi,
Sridar Narayanan, Vladimir
Fonov, Zografos Caramanos,
Paul Giacomini, Simon
Francis, Donald Collins, Amit
Bar-Or, Dessa Sadovnick,
Brenda Banwell, Douglas
Arnold

4:30 p.m. S51.004
T2 and T1 Lesion
Volume as Predictors
of Neuropsychological
Impairment in Children
and Adolescents with
MS Christine Till, Rezwan
Ghassemi, Emily Ursell,
Douglas Arnold, Sridar
Narayanan, John Sled,
Brenda Banwell

4:45 p.m. S51.005
Cognitive Compensation
Failure in RRMS
Patients Melissa Bonnet,
Michele Allard, Bixente
Dilharreguy, Mathilde Deloire,
Vincent Dousset, Klaus Petry,
Bruno Brochet

S52 Aging and Dementia: Imaging

Room 6C

3:45 p.m. S52.001
Age-Associated Leukoaraiosis and Cortical Cholinergic
Deafferentation Nicolaas
Bohnen, Martijn Müller,
Hiroto Kuwabara, Gregory
Constantine, Stephanie
Studenski

4:00 p.m. S52.002
Longitudinal RestingState fMRI Reveals
Progressive Disrupted
Functional Connectivity in
Alzheimer's Disease Jessica
Damoiseaux, Katherine
Keller, Vinod Menon, Michael
Greicius

4:15 p.m. S52.003
The Volume of the Anterior
Corpus Callosum and T1
White Matter Hypointensities
Independently Contribute
to Age-Related Declines
in Verbal Processing
Speed Reva Wilheim, Sandra
Hale, Victor Laluz, Kari Haws,
Stephen Wilson, Stephen
Hauser, Bruce Miller, Joel
Kramer. Caroline Racine

4:30 p.m. S52.004
Caudate Nucleus Volumes in LADIS: A Pilot Study of Longitudinal Volumetric Change in a Cohort with Leukoaraiosis Jeffrey Looi, Gabriela Spulber, Per Julin, Leif Svensson, Olof Lindberg, Lisa Botes, Lars-Olof Wahlund

4:45 p.m. S52.005
Executive Dysfunction in Frontotemporal Dementia Is Related to Abnormalities in Frontal White Matter Tracts Maria Carmela Tartaglia, Yu Zhang, Caroline Racine, John Neuhaus, Linda Chao, Joel Kramer, Howard Rosen, Bruce Miller, Michael Weiner

S53 Pathogenesis of Parkinson's Disease

Room 6A

3:45 p.m. S53.001
Neuropathologic Findings in Parkinson's Disease with Mild Cognitive Impairment Charles Adler, Donald Connor, John Caviness, Marwan Sabbagh, Holly Shill, Linda Vedders, Lucia Sue, Thomas Beach

4:00 p.m. S53.002

Validation of Diagnostic
Serum Biomarkers for
Parkinson's Disease Katerina
Markopoulou, Jennifer
Bryson, Bruce Chase, Silvia
Quintero, Efthimios Dardiotis,
Persa Kountra, Alexandros
Papadimitriou, Georgios
Hatjigeorgiou, Essam Sheta

4:15 p.m. S53.003
Biological Effects of the PINK1 P209A Mutation: Implications in Parkinson's Disease Pathogenesis MingJen Lee, Ruey-Meei Wu, Tzeng-Ruei Lee, Jinyuan Wang, Wen-Mei Fu

4:30 p.m. \$53.004 Alpha-Synuclein Triggers Microglial Activation and Adaptive Immunity in a Mouse Model of Parkinson Disease David Standaert, Shaji Theodore, Shuwen Cao, Pamela McLean

4:45 p.m. S53.005
Rapamycin Protects Against
Rotenone-Induced Apoptosis
through Autophagy Induction
in SH-SY5Y Cells Tianhong
Pan, Wenjie Xie, Pawan
Rawal, Joseph Jankovic,
Weidong Le

S54 Hemorrhagic Stroke

Room 608/609

3:45 p.m. S54.001
Effect of Systolic Blood
Pressure Treatment
on Perihematomal
Edema. Results from the
Antihypertensive Treatment of
Acute Cerebral Hemorrhage
(ATACH) Study Adnan
Qureshi, ATACH Investigators

4:00 p.m. \$54.002 Antihypertensive Treatment of Acute Cerebral Hemorrhage (ATACH): Final Results Adnan Qureshi, ATACH Investigators

4:15 p.m. S54.003
Pessimism in
Intraparenchymal
Hemorrhage Prognosis
Models Claire Creutzfeldt,
Kyra Becker, Sandeep Khot,
Thomas McPharlin, Thanh
Ton, W. Longstreth, David
Tirschwell

4:30 p.m. S54.004
Risk of Hemorrhagic Stroke among Obstructive Sleep
Apnea Sufferers Syed
Ahmed, Naser Abdelhadi,
Bazi Ahmed, Ahmed Omar,
Mohammad Yousuf, Yousef
Mohammad

4:45 p.m. S54.005
Timing of Computed
Tomographic Imaging and
Its Impact on Prediction of
Symptomatic Vasospasm after
Aneurysmal Subarachnoid
Hemorrhage Stefan Dupont,
Eelco Wijdicks, Giuseppe
Lanzino, Robert Brown,
Alejandro Rabinstein

S55 Myasthenic and Mitochondrial Disorders

Room 606/607

3:45 p.m. S55.001 Long-Term Experience with Mycophenolate Mofetil (MMF) in Myasthenia Gravis (MG): Retrospective Analysis of 103 Patients Michael Hehir, Ted Burns, Joshua Alpers, Mark Conaway, Michael Sawa, Donald Sanders

4:00 p.m. S55.002
Ocular Myasthenia Gravis:
Treatment Successes and
Failures in Patients with
Long-Term Follow-up Mark
Kupersmith

4:15 p.m. S55.003
Clinical Features of Slow
Channel Congenital
Myasthenic Syndrome
(SCCMS) Daniel Lashley,
Georgina Burke, David
Beeson, Jacqueline Palace

4:30 p.m. S55.004
Transcriptional Factor T-bet
Determines the Susceptibility
to Experimental Myasthenia
Gravis Ruolan Liu, Denise
Campagnolo, Xue-Feng
Bai, Carlos Dayao, Timothy
Vollmer, Fu-Dong Shi

4:45 p.m. S55.005
Levator Palpebrae Biopsy Has
Higher Diagnostic Yield Than
Other Muscle Biopsy Sites for
Chronic Progressive External
Ophthalmoplegia Gerald
Pfeffer, Vincent Wong,
Michelle Mezei

S56 Epilepsy: Genetics and Therapy

Room 611/612

3:45 p.m. \$56.001 Postsurgical Remission of Comorbid Presurgical Psychiatric Disorders Following an Anterotemporal Lobectomy *Andres Kanner, Richard Byrne*

4:00 p.m. S56.002 Hemispherectomies in Adult Epilepsy Surgery Patients Ngoc Minh Le, Tobias Loddenkemper, Andreas Alexopoulos, Lara Jehi, William Bingaman

4:15 p.m. S56.003
Association of Polymorphisms in ATP-Binding Cassette
Family Gene (ABCB1) with
Corpora Amylacea Deposition in Mesial Temporal Lobe
Epilepsy with Hippocampal
Sclerosis Abhijit Das, Anila
Mathew, Venkataraman
Radhakrishnan, Moinak
Banerjee, Kurupath
Radhakrishnan

4:30 p.m. S56.004
Determination of Tolerability,
Safety, and Efficacy of
Perampanel, a Selective
AMPA Receptor Antagonist,
as Adjunctive Therapy in
Subjects with Refractory
Partial Seizures Gregory
Krauss, Victor Biton, Jack
Klapper, Michael Bar, Ivan
Rektor, Nerija VaicieneMagistris, Algimantas
Skaringa, Aive Liigant, Dinesh
Kumar, David Squillacote

4:45 p.m. S56.005
ApoE ε4 Shorten the
Silent Interval of Mesial
Temporal Lobe Epilepsy
with Hippocampal
Sclerosis Marcelo Kauffman,
Damian Consalvo, Dolores
Gonzalez Moron, Virginia
Pujol, Patricia Solis, Silvia
Oddo, Carolina Lomlomdjian,
Silvia Kochen

S57 Neuro-Ophthalmology and Neuro-Otology

Room 605/610

3:45 p.m. S57.001
Horizontal Head Impulse
Test Detects Gentamicin
Vestibulotoxicity G. Halmagyi,
Konrad Weber, Swee
Aw, Michael Todd, Leigh
McGarvie, Ian Curthoys

4:00 p.m. S57.002 Skew Deviation Predicts Brainstem Involvement in the Acute Vestibular Syndrome Jorge Kattah, David Newman-Toker, Arun Talkad

4:15 p.m. S57.003
Visual Pathways
Functional and Structural
Abnormalities in Patients
with Leber Hereditary Optic
Neuropathy Valeria Barcella,
Maria Rocca, Stefani BianchiMarzoli, Iacopo Milesi,
Melissa Petrolini, Lisa Melzi,
Andrea Falini, Giancarlo
Comi. Massimo Filippi

4:30 p.m. S57.004 Clinical and Ocular Imaging Characteristics of Eyes with Visual Loss over Time in Multiple Sclerosis Esther Bisker, Sally Chang, David Long, Lauren Talman, Amy Conger, Girish Hiremath, Teresa Frohman, Michael Loquidice, Steven Galetta, Clyde Markowitz, Dina Jacobs, Yang Dai, Gui-Shuang Ying, Maureen Maguire, Elliot Frohman, Peter Calabresi, Laura Balcer

4:45 p.m. S57.005
Artificial Hemianopic
Scotomata in Normal
Subjects Reveal Disorders
of Visual Search in Patients
with Unilateral Occipital
Stroke Wolfgang Heide, Björn
Machner, Andreas Sprenger,
Christoph Helmchen, Detlef
Kömpf

S58 Critical Care

Room 602/603

3:45 p.m. S58.001
Platelet Activity Is Related to ICH Volume Size Andrew Naidech, Rajeev Garg, Storm Liebling, Matthew Walker, Sarice Bassin, Bernard Bendok, Richard Bernstein, H. Hunt Batjer, Mark Alberts, Thomas Bleck

4:00 p.m. S58.002
Frontal White Matter
Vulnerability to Carbon
Monoxide Poisoning
Demonstrated by Diffusion
Tensor Imaging on 3.0T
System Kenshi Terajima,
Hironaka Igarashi, Yuhei
Takado, Koichiro Okamoto,
Kohei Akazawa, Masatoyo
Nishizawa. Tsutomu Nakada

4:15 p.m. S58.003
Iron Accumulation in the Deep Gray Matter of Patients with Mild Traumatic Brain Injury: A Magnetic Field Correlation Study Matilde Inglese, Jens Jensen, Yulin Ge, James Babb, Laura Miles, Joseph Reaume. Robert Grossman

4:30 p.m. S58.004
Cost-Effectiveness Analysis of Hemicraniectomy Versus Conservative Treatment in Malignant Infarction of the Middle Cerebral Artery Alberto Maud, Gabriela Vazquez, Robert Taylor, Adnan Qureshi, David Anderson, Mustapha Ezzeddine

4:45 p.m. S58.005
Long-Term Cognitive
Outcomes in Patients
Surviving Cardiac
Resuscitation Daniel
Claassen, Eelco Wijdicks,
Edward Manno, Bradley
Boeve, Alejandro Rabinstein

S59 Neural Repair and Neurorehabilitation

Room 613/614

3:45 p.m. Presentation of the S. Weir Mitchell Award

Sponsored by the American Academy of Neurology Alliance. Recipient:

Recipient: Sashank Prasad, MD Philadelphia, PA

4:00 p.m. S59.002 Improvement in Aphasia from First-Time Stroke Follows Proportional Recovery Ronald Lazar, Brandon Minzer, Daniel Antoniello, Joanne Festa, John Krakauer, Randolph Marshall

4:15 p.m. S59.003 Impact of Voice Guidance and Emotional Prosody on Cortical Activation during Finger Movement in Stroke Patients Petr Hluštík, Jaroslav Opavský, Michal Mayer, Dagmar Tomisová, Ana Solodkin, Steven Small, Roman Herzig, Pavel Otruba, Martin Köcher, Petr Kanovský

4:30 p.m. S59.004
New Insights into Repair in MS: A Longitudinal Spinal Cord Spectroscopy and Atrophy Study Olga Ciccarelli, Dan Altmann, Mary McLean, Claudia Wheeler-Kingshott, Kelly Wimpey, David Miller, Alan Thompson

4:45 p.m. S59.005
Outcomes of Patients with
Spinal Epidural Metastases
(SEM) Based upon ASIA
Scores Ingrid Park, Robert
Ruff

S60 Autonomic Disorders

Room 604

3:45 p.m. S60.001 A Novel Technique for Peripheral Nerve Fiber Imaging Ningshan Wang, Christopher Gibbons, Roy Freeman

4:00 p.m. \$60.002

Antibody-Mediated
Impairment of Synaptic
Transmission and
Homeostatic Plasticity
in Experimental
Autoimmune Autonomic
Ganglionopathy Steven
Vernino, Phillip Low, Zhengbei
Wang

4:15 p.m. S60.003
Orthostatic Challenge
Reveals Subtle Sympathetic
Cardiac Dysfunction in
Patients with Mild Traumatic
Brain Injury Max Hilz, Stefan
Anders, Felix Aurnhammer,
Harald Marthol, Rositsa
Baltadhzieva, Tim Schroeder,
Anja Rossmeissl, Steven
Flanagan

4:30 p.m. S60.004
Olfactory Dysfunction in
Pure Autonomic Failure:
Implications for the
Pathogenesis of Lewy Body
Diseases David Goldstein,
LaToya Sewell

4:45 p.m. S60.005 A New Noninvasive Method To Assess Adrenergic Baroreflex Sensitivity Wolfgang Singer, Phillip Low

Huntington's Disease and Other Hyperkinetic Disorders

P09.001 Changes in Mini Mental Status Examination over Time in Huntington's Disease *Kathleen Shannon, Bryan Bernard, Glenn Stebbins*

P09.002 The Written and Oral Administration of the Symbol Digit Modality Test in Huntington Disease Octavian Adam, Sharon Halton, Giovanni Mostile, Joseph Jankovic

P09.003 Postural Limits of Stability in Presymptomatic and Symptomatic Huntington's Disease Eva Pirogovsky, Danielle Salomonczyk, Robert Panzera, Jody Goldstein, Trinh Luu, Oz Rico, Mark Jacobson, Guerry Peavy, Jody Corey-Bloom, Roger Simmons, Paul Gilbert

P09.004 Postural Control in Preclinical Huntington's Disease Danielle Salomonczyk, Robert Panzera, Eva Pirogovsky, Jody Goldstein, Trinh Luu, Oz Rico, Mark Jacobson, Guerry Peavy, Jody Corey-Bloom, Roger Simmons, Paul Gilbert

P09.005 Depression in Huntington Disease – An Under-Recognized and Under-Treated Condition Aleksandar Videnovic, Wenqing Fan, Jeana Jaglin, Bryan Bernard, Kathleen Shannon

P09.006 Longitudinal Changes in Dopaminergic Function and Regional Mechanism in Preclinical Huntington's Disease Matthew Bussa, Kathleen Poston, Chengke Tang, Andrew Feigin, Yilong Ma, Mark Guttman, Jane Paulsen, Vijay Dhawan, David Eidelberg

P09.007 Longitudinal Diffusion Tensor Imaging in Huntington's Disease *Ali Samii, Kurt Weaver, Todd Richards, Elizabeth Aylward*

P09.008 Puromycin-Sensitive Aminopeptidase (PSA) Reduces Aggregation Caused by Expanded Huntingtin in Cultured Cells and Is Induced in Brains of a Mouse Model of Huntington's Disease Raphael Hourez, Alfred Goldberg

P09.009 Bilateral Globus
Pallidus Deep Brain Stimulation for
Huntington's Disease: Outcome in
Eight Patients Victoria GonzalezMartinez, Laura Cif, Brigitte Biolsi, Igor
Maldonado, Xavier Vasques, Hassan
El Fertit, Michel Zanca, Philippe
Coubes

P09.010 Post-Ictal Improvement of a Lance-Adams Syndrome *Claire Ewenczyk, Emmanuelle Apartis, Marie Vidailhet, Michel Baulac, Vincent Navarro*

Neuroepidemiology/Health Services Research: Multiple Sclerosis and Movement Disorders

P09.011 Prospective Study of Infection with Epstein-Barr Virus and Risk of Developing Multiple Sclerosis Alberto Ascherio, Kassandra Munger, Eilis O'Reilly, Kerstin Falk, Lynn Levin

P09.012 Smoking, Genes and Risk for Parkinson's Disease *Zhuqin Gu, Caroline Tanner, Piu Chan*

P09.013 The Effect of Cigarette Smoking on Survival in Parkinson's Disease Stephen Van Den Eeden, Kathleen Albers, Lorene Nelson, Raymond Lo, Amethyst Leimpeter, Charles Quesenberry, Allan Bernstein, Valerie McGuire, Caroline Tanner

P09.014 Development of an Algorithm To Identify Parkinson's Disease in the Cardiovascular Health Study Thanh Ton, Samay Jain, Robert Boudreau, Evan Thacker, Elsa Strotmeyer, Shannon Rhodes, Anne Newman, W. T. Longstreth, Harvey Checkoway

P09.015 Incidence of Multiple Sclerosis, Myasthenia Gravis and Guillain-Barré Syndrome in Argentina Juan Rojas, Diego Giunta, Liliana Patrucco, Carla Stefani, Barbara Rosso, Marcelo Rugiero, Edgardo Cristiano

P09.016 Prospective Non-Motor Symptoms Evaluation of a Cohort with Parkinson's Disease and Other Parkinsonian Disorders. The PRIAMO Study Carlo Colosimo, PRIAMO Study Group

P09.017 The Frequency (Prevalence Rate) of Multiple Sclerosis in Iraq: A Retrospective Study *Fizel Al-Himyari*

P09.018 Population-Based Study of Baseline Ethanol Consumption and Risk of Incident Essential Tremor *Elan Louis, Julian Benito-Leon, Felix Bermejo*

P09.019 Time to Initiation of Disease-Modifying Therapy for Multiple Sclerosis Patients in a Commercial Managed Care Population Jay Margolis, Barbara Johnson, Robert Fowler, Nikita Mody-Patel, Manoj Malhotra

P09.020 Mellen Center Care
On-Line, a Randomized, Trial of
a Telemedicine Intervention To
Improve Patient Self-Management:
Study Design and Subject Baseline
Characteristics Deborah Miller, Shirley
Moore, Robert Fox, Atreja Ashish,
Maria Stadler, Jar-Chi Lee, Alex Fu,
Welf Saupe, Swati Chakraborty,
Richard Rudick

Neuroepidemiology/Health Services Research: Stroke

P09.021 Physician Perception of Acute Stroke Care in a Mexican Community *Carlos Cantu, Jennifer Majersik, Brisa Sanchez, Lewis Morgenstern*

P09.022 Impact of International Subarachnoid Aneurysm Trial Results on Treatment of Ruptured Intracranial Aneurysms in United States Gabriela Vazquez, Adnan Qureshi, M. Fareed Suri, Ramachandra Tummala, Mustapha Ezzeddine

P09.023 Cost-Effectiveness Analysis of Protected Carotid Artery Versus Endarterectomy in High Surgical Risk Patients Alberto Maud, Gabriela Vázquez, Kamakshi Lakshminarayan, David Anderson, Adnan Qureshi

P09.024 Current State of Neurohospitalist Practice David Likosky, Lucas Restrepo, Scott Shulman, W. Freeman

P09.025 Utilization of Intravenous Tissue Plasminogen Activator in Acute Ischemic Stroke: Exploratory Analysis of Demographic and Risk Factors Anand Vaishnav, Stephen Browning, Heather Bush, David Mannino

P09.026 Secondary Prevention of Stroke after Transient Ischemic Attack – Results from the Minnesota Stroke Registry Haralabos Zacharatos, James Peacock, Brad Krier, Albert Tsai, Alexandros Georgiadis, Kamakshi Lakshminarayan

Neuroepidemiology/Health Services Research

P09.027 Clinical Utility of Head CT for Dizziness in the Emergency Department *Kevin Kerber, Lisa* Schweigler, Brady West, A. Fendrick, Lewis Morgenstern

P09.028 High Prevalence and Geographical Variation of Myasthenia Gravis in an Italian Area Cristina Montomoli, Antonietta Citterio, Rita Cioccale, Carla Pruzzi, Eleonora Tavazzi, Cesare Fratti, Giovanni Piccolo

P09.029 The NIH Toolbox: An Instrument for Assessment of Neurological and Behavioral Function Thomas Bleck, Richard Gershon, Cindy Nowinski, David Cella, Richard Havlik, Molly Wagster, Hugh Hendrie, Nathan Fox

P09.030 Tracheostomy in ALS: A 10-Year Population-Based Study in Italy Adriano Chio, Gabriele Mora, Andrea Calvo, Letizia Mazzini, Edo Bottacchi, Roberto Mutani P09.031 Tumors Preceding ALS Onset and ALS: Results from a Case-Control Study Marco D'Amelio, Eleonora Marchese, Paolo Aridon, Marianna Lo Re, Paolo Ragonese, Valeria Terruso, Vincenzo La Bella, Giovanni Savettieri

P09.032 'NEUROLINK': Improving Access to the Neurology Service in a Dublin Hospital Using Telemedicine Elijah Chaila, El Fatih Ali, Niall Tubridy

P09.033 Analysis of Healthcare Costs in a Large Cohort of Patients with Myasthenia Gravis Lakevia Hall, Ronald Peeples, Jr., Jason Cooper, Donald Taylor, Jr., Andrew Krueger, Donald Sanders

P09.034 Occupational Exposures and the Risk of Amyotrophic Lateral Sclerosis (ALS) Fang Fang, Patricia Quinlan, Weimin Ye, Marie Barber, David Umbach, Dale Sandler, Freya Kamel

P09.035 Accessibility of Neurological Care and Epidemiology of Neurological Disease in Ghana, West Africa Augustina Charway, Ralph Ametepi

P09.036 Brain Networks Identified by Partial Least Square Modeling Are Associated with Gait Instability in the Oldes Old Caterina Rosano, Yang Mei, Howard Aizenstein, Anne Newman, Jennifer Brach, Robert Boudreau

Epidemiology of Parkinson's Disease

P09.037 A Prospective Nested Case-Control Study of Organochlorine Exposures and Risk of Parkinson Disease Marc Weisskopf, Eilis O'Reilly, Larisa Altshul, Paul Knekt, Alberto Ascherio

P09.038 Anemia Preceding Parkinson's Disease: A Case-Control Study Rodolfo Savica, Justin Carlin, Brandon Grossardt, James Bower, Demetrius Maraganore, Walter Rocca

P09.039 A 15-Year Population-Based Longitudinal Study of Incidence of Parkinson's Disease (PD) and Parkinsonian Syndromes (PS) in an Elderly French Population (PAQUID) Florian Perez, Catherine Helmer, Sophie Auriacombe, Jean-François Dartigues, François Tison

P09.040 Survival among Veterans with Parkinson's Disease Sheng-Han Kuo, Suzanne Moore, Donna White, Eugene Lai

P09.041 Racial Differences in Expectations Regarding Movement (ERM) *Nabila Dahodwala, Jason Karlawish, Cynthia Zubritsky, David Mandel*

- **P09.042** Correlations of Serum Uric Acid Levels with Parkinson's Disease Symptom Severity *Jyhgong Gabriel* Hou, Eugene Lai
- P09.043 Dopamine Antagonist Prescribing Practices to Persons with Parkinson's Disease (PD) Amie Peterson, Marsha Andrews, Joseph Quinn, John Nutt
- P09.044 Nutrient Intake in Parkinson's Disease (PD) Compared to Age-Matched Controls *Marian* Evatt, Gautam Hebbar, Meghan Quirk, Thomas Ziegler
- P09.045 Subcortical Brain Atrophy and Mild Cognitive Impairment in Early Parkinson Disease. A Case-Control Study Turi Dalaker, Robert Zivadinov, Deepa Ramasamy, Mona Beyer, Guido Alves, Kolbjorn Bronnick, Ole-Bjorn Tysnes, Dag Aarsland, Jan Larsen
- **P09.046** Ethnic Variation and Geographic Distribution of Parkinson Disease in the United States *Allison Wright Willis, Bradley Evanoff, Brad Racette*

Anterior Horn: Epidemiology

- **P09.047** Juvenile-Onset Distal Hereditary Motor Neuropathy Associated with Sensorineural Hearing Loss *W. Arnold, Victoria Lawson, John Kissel, Stephen Kolb*
- P09.048 The Natural History of Progressive Bulbar Palsy Chafic Karam, Andreas Deik, Amir Hussein, Biggya Sapkota, Weiyi Gao, Patricia Friedman, Theresa Imperato, Joel Bernor, Daniel MacGowan, Stephen Scelsa
- **P09.049** Retrospective Cohort Study of Hyperlipidemia and Diabetes Mellitus with Disease Outcomes in Amyotrophic Lateral Sclerosis *Ericka Simpson, Stanley Appel*
- P09.050 Differences in Initial Symptoms between Amyotrophic Lateral Sclerosis (ALS) and Primary Lateral Sclerosis (PLS) in a Referral Centre Gabriel Rodriguez, Gisella Gargiulo Monachelli, Maria Gonzalez Deniselle, Alejandro De Nicola, Roberto Sica
- P09.051 Building Web-Based Management Platform for Clinical Trials Networks in Neurology: Case Study in ALS Alexander Sherman, Karen Wallace, Francesca Belouin, Marianne Kearney, Merit Cudkowicz
- P09.052 Possible Role of Familial, Environmental and Occupational Risk Factors in Development of Amyotrophic Lateral Sclerosis: A Case-Control Study Kamalesh Das, Gouranga Mondal, Kalyan Bhattachryaa, Arindam Chakorborty

- **P09.053** Smoking and the Risk of Amyotrophic Lateral Sclerosis: A Systematic Review and Meta-Analysis Alvaro Alonso, Giancarlo Logroscino, Miguel Heman
- **P09.054** Smoking Is a Probable Risk Factor for ALS: An Evidence-Based Update (2003-2008) *Carmel Armon*
- P09.055 Autosomal Dominant Motor Neuron Disease and Vermian Ataxia in a North American Family Christian Wider, Pamela Desaro, Jessica Young, Rosa Rademakers, Zbigniew Wszolek, Kevin Boylan
- P09.056 Use of Capture-Recapture Methods To Estimate Amyotrophic Lateral Sclerosis Prevalence in Georgia Michael Wittie, Sharon Usher, Kevin Ward, Oleg Muravov, Wendy Kaye, Michael Benatar

Epilepsy: Epidemiology, Genetics, and Imaging

- P09.057 WITHDRAWN
- P09.058 Specialist Care Patterns among Patients with Epilepsy in Rural Communities Angelia Paschal, Kore Liow, Suzanne Hawley, Elizabeth Ablah, Dale Hesdorffer, Craig Molgaard, Mary Warren, David Thurman, W. Allen Hauser
- **P09.059** Do Hippocampal FDG-PET Asymmetries Predict Post-Temporal Lobectomy Verbal Memory Dysfunction? *Beth Leeman, Catherine Leveroni, Keith Johnson*
- P09.060 Cortical and Subcortical Contributions to Seizure Onset in Medication-Refractory Absence Seizures: EEG/fMRI Study Jerzy Szaflarski, Thomas Hirschauer, Mark Difrancesco, Michael Privitera, Jean Gotman, Scott Holland
- **P09.061** Predicting Epilepsy and Seizures from Vascular Risk Factors among Elderly Patients *Amir Arain*, *Pradumna Singh, Yanna Song, Lily Wang, Van Cain, Zahid Samad, Baqar Husaini*
- P09.062 Clinical Correlates of White Matter Structural Integrity in Patients with Medically Refractory Epilepsy Amit Verma, Mario Dulay, Christof Karmonik, Zhong Xue, Hani Haykal, Robert Grossman

- P09.063 Gene Expression Profile in Familial and Sporadic Forms of Mesial Temporal Lobe Epilepsy Claudia Maurer-Morelli, Cristiane Rocha, Romênia Domingues, Helder Tedeschi, Evandro De Oliveira, Fernando Cendes, Iscia Lopes-Cendes
- **P09.064** Radiographic Findings in Convulsive and Non-Convulsive Partial Status Epilepticus *Pue Farooque, Jyoti Pillai*
- P09.065 An Efficient and Robust Method for the Fractional Anisotropy Analysis of White Matter Tracts Based on Automated Template Matching in Talairach Space Christof Karmonik, Mario Dulay, Amit Verma, Michele York, Robert Grossman
- P09.066 Material Specific Memory Impairment Is Associated with Unilateral Cingulum Bundle Structural Integrity in Intractable Temporal Lobe Epilepsy Mario Dulay, Amit Verma, Cristof Karmonik, Zhong Xue, Adriana Strutt, Michele York, Hani Haykal, Robert Grossman

Stroke Epidemiology

- **P09.067** Prevalence of Asymptomatic Intracranial Atherosclerosis in a Multi-Ethnic Population Alexandros Georgiadis, M. Fareed Suri, Adnan Qureshi
- P09.068 Acute Stroke Care Capacity and Services in the Northwest United States, 2008: A Needs Assessment by the Northwest Regional Stroke Network (NWRSN) Wendy Shultis, Chara Chamie, Robert Graff, Cherish Hart, Palina Louangketh, Jessica Grennan, Michael McNamara, Nicholas Okon, David Tirschwell
- P09.069 Nationwide Factors Associated with Inadequate Blood Pressure Reduction among Stroke Survivors Sharmineh Shams, Bruce Ovbiagele, Nerses Sanossian
- **P09.070** Treatment of Dyslipidemia after Stroke: Analysis of a Nationwide Sample *Nerses Sanossian, Ling Zheng, Gene Sung, Bruce Ovbiagele*
- P09.071 Modifiable Behavioral Risk Factors in Stroke Survivors: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study David Brenner, Rich Zweifler, Camilo Gomez, Monika Safford, Brett Kissela, Deborah Levine, David Rhodes, George Howard, Bruce Coull, Virginia Howard, Leslie McClure
- **P09.072** Hospital Charges for Stroke Admissions Attributable to Racial Disparities in South Carolina during 2002-2006 Wuwei Feng, Paul Nietert, Robert Adams

- **P09.073** Low Incidence of Stroke in Takayasu Arteritis. Long-Term Clinical Follow-Up Aurelio Mendez, Enrique Diaz, Ma. Cristina Castañon, Manuel Riuz
- P09.074 Ethnicity Is Not an Independent Predictor of Outcome after Treatment for Acute Ischemic Stroke Sheryl Martin-Schild, Karen Albright, Miriam Morales, James Grotta, Sean Savitz
- P09.075 Trends in Hospitalization Rate, Hospital Case Fatality and Length of Stay for Stroke in Galicia (Spain), 1997-2007 Manuel Seijo-Martinez, Javier Paz-Esquete, Ramon Ares Rico, Angeles Bouzas Rodriguez
- **P09.076** Risk Factors Associated with Falling among Retirees with History of Stroke *Afshin Divani*, *Gabriela Vazquez*, *Marjan Asadollahi*, *Andreas Luft*
- P09.077 Urine Toxicology Screening and Outcomes in an Urban Stroke Population Patricia Garcia, Nawaf Murshed, Sean Logan, Melissa Straub, Anita Sinha, Patricia Penstone, Angelos Katramados, Panayiotis Mitsias, Andrew Russman, Daniel Morris, Brian Silver
- **P09.078** Increased US Utilization of Thrombolysis in the Treatment of Stroke *Richard Dubinsky*. Sue Lai
- P09.079 Glycosylated Hemoglobin Levels Correlate with Large- and Small-Artery Subtypes of Ischemic Stroke Neil Chawla, Arthur Yule, Amytis Towfighi
- P09.080 Traumatic and Spontaneous Carotid and Vertebral Artery Dissection: A Level I Trauma Care Experience Paul Eugene Lleva, Charles Shyu, Hoang Lai, Michael Tenner, Donald Risucci, Brij Singh-Ahluwalia, Jin Li
- **P09.081** Quality of Acute Ischemic Stroke Care among Senior Citizens. Results from the Argentinian Stroke Registry (ReNACer) *Luciano Sposato*, *Osvaldo Fustinoni*, *Gustavo Saposnik*
- P09.082 Racial Differences in Stroke Characteristics: A Retrospective Cohort and Imaging Study Kasey Gildersleeve, Jennifer Heidler-Gary, Melissa Newhart, Cameron Davis, Vijay Kannan, Lauren Cloutman, Argye Hillis
- P09.083 Are Education and Socioeconomic Status Risk Factors for Mortality in Patients with Stroke and Transient Ischemic Attacks? Data from the NEDICES Study Group Antonio Martinez-Salio, Rocio Trincado, Cilia Rodriguez Rodriguez, Daniel Goyo-Ibarra, Julian Benito-León, Felix Bermejo-Pareja

POSTER SESSION IX

P09.084 Gender Differences in Blood Gene Expression during Ischemic Stroke Peter Adamczyk, Huichun Xu, Yingfan Tian, Yang Tang, DaZhi Liu, Bradley Ander, Jane Khoury, Jeff Gregg, Arthur Pancioli, Edward Jauch, Kenneth Wagner, Piero Verro, Boryana Stamova, Lisa Lit, Achal Achrol, Xinhua Zhan, Isaac Liao, Glen Jickling, Renee Turner, William Young, Joseph Broderick, Frank Sharp

P09.085 CADASIL: First Observation in Russia and Report of a New Mutation in the Notch3 Gene Sergei Illarioshkin, Pyotr Slominsky, Sergey Klyushnikov, Marina Tanashyan, Alla Sakharova, Dmitry Kandyba, Nikolay Zhulev

P09.086 CADASIL: Clinical Presentation in an Adolescent and Review of the Literature *Catalina Cleves, Neil Friedman, A. David Rothner*

Muscle Disease/Neuromuscular Junction: Epidemiology and Population Studies

P09.087 Myopathies in the Elderly: A Hospital-Based Study *Andoni Echaniz-Laguna, Michel Mohr, Christine Tranchant*

P09.088 What Is the True Incidence and Prevalence of Myasthenia Gravis? A Systematic Review of Myasthenia Gravis Epidemiology Aisling Fitzpatrick, Chris Cardwell, Peter McCarron, John McConville

P09.089 Nationwide Epidemiological Survey of Myasthenia Gravis in Japan Hiroyuki Murai, Natsumi Yamashita, Yoshiko Nomura, Hiroaki Yoshikawa, Makoto Watanabe, Junichi Kira

P09.090 Frequency of False Positive Muscle Acetylcholine Receptor (AChR) Antibody Testing in Serological Evaluation for Neurological Autoimmunity Metha Apiwattanakul, Andrew McKeon, Vanda Lennon, Sean Pittock

P09.091 Quality of Life in Myasthenia Gravis Reza Seyedsadjadi, Bernadette Lipscomb, John Weinman, Michael Rose, Donald Sanders, Muscle Study Group

P09.092 A Cooperative International Neuromuscular Research Group (CINRG) Study of the Relationship between Impairment, Activity Limitation, Participation and Quality of Life in Persons with Confirmed Dystrophinopathies: Methods and Baseline Characteristics Erik Henricson, Craig McDonald, Richard Abresch, Jay Han, Robert Leshner, Eric Hoffman, Diana Escolar, Avital Cnaan, Fengming Hu, Angela Zimmerman, Tina Duong, Jill Mayhew, Julaine Florence, Adrienne Arrieta

P09.093 Nondystrophic Myotonias: Measuring Quality of Life in a Longitudinal Natural History Study Shannon Venance, Kori LaDonna, Emma Matthews, Yunxia Wang, Brian Bundy, Richard Barohn, CINCH Investigators

P09.094 Mitochondrial Disease in Adult and Pediatric Patients with Fatigue and Myalgias John Shoffner, Lauren Hyams, Genevieve Langley

P09.095 Registry of Outcome Measures (ROM) for Neuromuscular Trials Joanne Auld, Reza Seyedsadjadi, Michael Rose, TREAT-NMD

Multiple Sclerosis: Immunology II

P09.096 Regulatory NK Cells Mediate the Decreased Th17 Responses Associated with Abrogated New Disease Activity in MS Patients Treated with Bone Marrow Transplantation Peter Darlington, Jean-Sebastien Doucet, Tarik Touil, Hania Kebir, Denis Gaucher, Lama Fawaz, Joumana Zeidan, Jacqueline Chen, Farzaneh Jalili, Dominique Gauchat, Marjorie Bowman, Jack Antel, Doug Arnold, Mark Freedman, Harold Atkins, Rafick Sekaly, Remi Cheynier, Alexandre Prat, Amit Bar-Or, Canadian BMT Study Group

P09.097 Predictive Biomarkers of Clinical Response to Glatiramer Acetate (GA) Therapy in Multiple Sclerosis (MS) Reuben Valenzuela, Michael Kaufman, Priscilla Russo, Mary Anne Picone, June Halper, Kathy Costello, Yaritza Rosario, Konstantin Balashov, Kouichi Ito, Suhayl Jalbut

P09.098 Glatiramer Acetate-Induced Human Type II Monocytes Influence Differentiation of Naïve T Cells Collin Spencer, Martin Weber, Thomas Prod'homme, Nicolas Molnarfi, Scott Zamvil

P09.099 Multiple Sclerosis (MS): IFNβ-1b Induces Expression of Immunoinhibitory Immunoglobulin-Like Transcript 3 (ILT3) on Myeloid Cells Mark Jensen, David White, Rachel Yanowitch, Barry Arnason

P09.100 Impaired CD4+ T Effector: T Regulatory Cell Conversion in Relapsing Multiple Sclerosis: Reversal by Treatment with Glatiramer Acetate Lloyd Kasper, Alan Bergeron, Randolph Noelle, Jacqueline Channon

P09.101 Helminth Antigens
Modulate Immune Responses in
Multiple Sclerosis Patients by TLR2Dependent Mechanisms Jorge
Correale, Farez Mauricio

P09.102 Assessment of a Possible Bioenergetic Marker of Cellular Immunocompetence in MS-Patients Undergoing Immunotherapy: Longitudinal Analyses Aiden Haghikia, Derek Pappas, Bartosz Pula, Susan Goelz, Dominic Paes, Ralf Gold, Sergio Baranzini, Andrew Chan

P09.103 Pilot Study To Measure ATP Expression in Lymphocytes of MS Patients Undergoing Various Therapies Using the Cylex™ ImmuKnow® Assay Samia Khoury, Howard Weiner, Xiaojun You, Susan Goelz, Leonid Gorelik

P09.104 T Cell Activation and Th2 Cytokine Secretion Correlate with Disease Activity in Multiple Sclerosis Patients Treated with Glatiramer Acetate Finn Sellebjerg, Martin Krakauer, Dan Hesse, Henrik Lund, Helle Sondergaard, Per Sorensen

P09.105 Cellular Expression of Genes Involved in Cladribine Metabolism Catherine Salvat, Marie-Laure Curchod, Emmanuel Guedj, Virginie Debailleul, John Challier, Bruno Laugel, Jerome Wojcik, Robert Weissert

P09.106 Autoantibodies to GAD and Cell Surface Determinants in Stiff Person Syndrome Thashi Chang, Philippa Pettingill, Haris Alexopoulos, Leslie Jacobson, Peter Brown, Angela Vincent

P09.107 Luteolin and Interferon-β Modulate Immune Response(s) in Peripheral Blood Mononuclear Cells from Multiple Sclerosis Patients Zohara Sternberg, Kailash Chadha, Alicia Lieberman, Allison Drake, David Hojnacki, Bianca Weinstock-Guttman, Frederick Munschauer

P09.108 Multiple Sclerosis:
Glatiramer Acetate Differentially
Regulates Monocytic Production
of IL-1b and IL-1 Receptor
Antagonist Danielle Burger, Nicolas
Molnarfi, Martin Weber, Karim Brandt,
Lyssia Gruaz, Michel Chofflon, Scott
Zamvil, Patrice Lalive

P09.109 Granzyme B Mediates T Cell-Induced Neurotoxicity through Cytoskeletal Disruption in Human Cortical Neurons *Yohannes Haile, Dion Pasichnyk, Katia Simmen, Chris Bleackley, Fabrizio Giuliani*

P09.110 Low Production and Defective Regulation of Neurotrophins mRNA in Immune Cells of Patients with RR-MS Natali Urshansky, Karin Fainberg-Mausner, Firas Fahoum, Arnon Karni P09.111 A Reverted Expression of Inflammation-Related Genes during Pregnancy Correlate with Decreased Disease Activity in Multiple Sclerosis: The GEXPRIMS Studty Francesca Gilli, Paola Valentino, Nicole Navone, Alessia Di Sapio, Francesca Sperli, Marco Capobianco, Simona Malucchi, Fabiana Marmetto, Antonio Bertolotto

P09.112 MBP-Specific Th17
Lymphocytes Selectively Increase
during MS Relapses. A Multicenter
Longitudinal Study Luca Durelli,
Laura Conti, Marinella Clerico, Daniela
Boselli, Giulia Contessa, Paolo
Ripellino, Delon Lapuma, Antonio
Uccelli, Mauro Zaffaroni, Paola
Cavalla, Luciano Rinaldi, Cristoforo
Comi. Francesco Novelli

P09.113 The Cytopathic Viral Effect (CPE) Assay in Sera of Naive Patients with Relapsing-Remitting Multiple Sclerosis Andres Villa, Cristina Videla, Julianna Leoni, Orlando Garcea

P09.114 Dimethyl Fumarate (BG00012) Inhibits Macrophage Inflammatory Activity In Vivo and In Vitro Pradeep Bista, Weike Zeng, Sarah Ryan, Normand Allaire, Yi Luo, Kyungmin Hahm, Matvey Lukashev

Aging and Dementia: Epidemiology

P09.115 A Dietary Pattern Protective Against Alzheimer's Disease (AD) Yian Gu, Jeri Nieves, Yaakov Stern, Nicole Schupf, Jose Luchsinger, Nikolaos Scarmeas

P09.116 Physical Activity (PA) and Longevity in Alzheimer's Disease (AD) Nikolaos Scarmeas, Stephanie Cosentino, Yaakov Stern, Nicole Schupf, Jose Luchsinger

P09.117 Smoking in Midlife and Increased Risk of Alzheimer's Disease Rachel Whitmer, Minna Rusanen, Miia Kivipelto, Charles Quesenberry, Jr.

P09.118 Body Mass Index and Cognitive Systems in Older Black and White Persons Zoe Arvanitakis, Sue Leurgans, David Bennett, Lisa Barnes

P09.119 Biomarker Screening for Alzheimer's Disease: The Impact of Sensitivity and Specificity Parameters Kristin Kahle-Wrobleski, Eric Siemers, Christopher Callahan, Eric Sarpong, Nicolas Furiak, Timothy Klein, Robert Klein

P09.120 Correlates and Cognitive Decline Associated with White Matter Lesions Progression in the Elderly. The 3C-Dijon Study Ophélia Godin, Pauline Maillard, Fabrice Crivello, Annick Alperovitch, Bernard Mazoyer, Christophe Tzourio, Carole Dufouil

POSTER SESSION IX

- P09.121 Behavioral Disturbances in the Very Old with and without Dementia: The Monzino 80-Plus Population-Based Study Giancarlo Logroscino, Mauro Tettamanti, Maria Teresa Garri, Alessandro Nobili, Emma Riva, Pietro Tiraboschi, Ugo Lucca
- P09.122 Lewy Body Dementia: The Caregiver Experience of Clinical Care James Galvin, John Duda, Daniel Kaufer, Carol Lippa, Angela Taylor, Steven Zarit
- P09.123 Low Walking Speed Is Associated with Increased Mortality and the Risk of Incident Dementia in Well-Functioning Elderly: The Three-City Study Julien Dumurgier, Alexis Elbaz, Beatrice Tavernier, Annick Alperovitch, Christophe Tzourio
- P09.124 Untreated Hypertension Is a Risk Factor for Senile Dementia. Data from the NEDICES Cohort Study Felix Bermejo-Pareja, Julian Benito-Leon, Rocio Trincado, Cilia Rodriguez Rodriguez, Saturio Vega, Agustin Gomez de la Camara
- P09.125 Long-Term Use of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) Is Associated with Decreased Risk of All-Cause Dementia in the Oldest-Old: Results from The 90+ Study Maria Corrada, Adar Kravitz, Claudia Kawas
- P09.126 Retinal Abnormalities and Cognitive Decline – The ARIC Study Suzanne Lesage, Thomas Mosley, Tien Wong, David Knopman, Ronald Klein, Josef Coresh, Richey Sharrett
- P09.127 Late-Life Orthostatic Hypotension and the Incidence of Clinical Alzheimer's Disease Helen Petrovitch, Robert Abbott, G. Webster Ross, Kamal Masaki, Lon White
- P09.128 Metabolic Syndrome, Inflammation, and Mild Cognitive Impairment Subtypes in Elderly Persons: The Mayo Clinic Study of Aging Rosebud Roberts, Yonas Geda, David Knopman, Bradley Boeve, Ruth Cha, Vernon Pankratz, Walter Rocca, Ronald Petersen
- P09.129 Compliance and Persistence of Oral Cholinesterase Inhibitors in Patients with Alzheimer's Disease Nikita Mody-Patel, Francis Vekeman, François Laliberté, Kristijan Kahler, Patrick Lefebvre, Mei Duh
- P09.130 Factors Associated with Nursing Home Placement in Alzheimer's Disease Trent McLaughlin, Peter Neumann, Eldon Spackman, Lisa Mucha, Eddie Jones, Loretto Lacey, Christopher Leibman, Yaakov Stern

- P09.131 Age at Onset and Pre-Morbid IQ Influence Early Progression Rates in AD Rachelle Doody, Wen Chan, Valory Pavlik, Paul Massman, Eveleen Darby, Susan Rountree, Kinga Szigeti
- P09.132 Chronic Kidney Disease Is an Independent Risk Factor of Cerebral Atrophy Yusuke Yakushiji, Hirotsu Tatsumi, Makoto Eriguchi, Tomoyuki Noguchi, Satomi Yakushiji, Yusuke Nanri, Junko Nakajima, Masanori Nishiyama, Koichi Node
- **P09.133** The Geographic Distribution of Alzheimer's Disease Mortality: Overlap with the US Stroke Belt *M. Glymour, Anna Kosheleva*
- P09.134 Clinical Dementia Is More Highly Associated with Braak Tangle Stage Than NIA-Reagan Criteria in the Oldest-Old Dan Berlau, Maria Corrada, Claudia Kawas
- P09.135 Late-Life Systolic Blood Pressure and the Incidence of Alzheimer's Disease Robert Abbott, Helen Petrovitch, George Ross, Kamal Masaki, Lon White
- P09.136 Praying at Mid-Life Is Associated with Decreased Risk of Cognitive Decline in Women: A Door-to-Door Survey Rivka Inzelberg, Magdalena Massarwa, Amin Abuful, Edna Schechtman, Rosa Strugatsky, Robert Friedland
- P09.137 Prediction of Medial Temporal Atrophy Scores in Cognitively Normal Subjects in the Florida ADRC Amy Borenstein, James Mortimer, Yougui Wu, Elizabeth Schofield, David Loewenstein, Elizabeth Potter, Jason Appel, Ashok Raj, Maria Greig, Ranjan Duara
- P09.138 Refusal and Passive Lossto-Follow-Up in the NIA Alzheimer's Disease Program Uniform Data Set Leslie Phillips, Thomas Koepsell, Walter Kukull
- P09.139 A Population-Based Survey on Cognitive Performance in Sicily. Cognitive Impairment Is Modified in Women by Fertile Life Characteristics Paolo Ragonese, Paolo Aridon, Marco D'Amelio, Maria Mazzola, Giuseppe Salemi, Giovanni Savettieri
- P09.140 Hypertension Increases the Probability of Alzheimer's Disease and of Being Cognitively Impaired Not Demented in Wadi Ara Villages: A Door-to-Door Population Study Rivka Inzelberg, Magdalena Massarwa, Edna Schechtman, Amin Abuful, Rosa Strugatsky, Simon Israeli-Korn, Shiri Avni, Lindsay Farrer, Robert Friedland
- **P09.141** Death in Newly Diagnosed Dementia Laura Hemmy, Michael Kuskowski, Susan Rottunda, John McCarten

- P09.142 Motor Vehicle Crashes, Moving Violations, and Driving Cessation in Early Alzheimer's Disease Jeffrey Dawson, Elizabeth Dastrup, Ergun Uc, Steven Anderson, Matthew Rizzo
- P09.143 Clinical and Neuropathological Features of Atypical FTLD-U Salvatore Spina, Rose Richardson, Jill Murrell, Pietro Pietrini, Eric Wassermann, Jordan Grafman, Bernardino Ghetti

Behavioral Neurology II

- P09.144 What's in a Naming Error? Maggi Budd, Kathleen Kortte, Lauren Cloutman, Melissa Newhart, Rebecca Gottesman, Cameron Davis, Jennifer Heidler-Gary, Argye Hillis
- P09.145 What Causes Non-Fluent Speech in Progressive Non-Fluent Aphasia? Delani Gunawardena, Corey McMillan, Sharon Ash, William Hu, Rachel Goldmann Gross, Murray Grossman
- P09.146 Apraxia of Speech Localizes to the Inferior Frontal Gyrus Jesia Hasan, Judith Robillard Shultz, Denise Klein, Ron Postuma
- P09.147 Memantine and Constraint-Induced Aphasia Therapy in Chronic Post-Stroke Aphasia: A Randomized Controlled Trial with an Open-Label Extension Phase Marcelo Berthier, Cristina Green, Pablo Lara, Carolina Higueras, Miguel Barbancho, Guadalupe Dávila, Friedemann Pulvermuller
- P09.148 Contributors to Naming Impairment in Corticobasal Syndrome Rachel Gross, David Libon, Peachie Moore, Lauren Richmond, Brianna Morgan, Alea Khan, Corey McMillan, William Hu, Murray Grossman
- P09.149 Novel Throwing
 Sign Discriminates Patients
 with Progressive Supranuclear
 Palsy Adolfo Minguez-Castellanos,
 Cristóbal Carnero-Pardo, Francisco
 Escamilla-Sevilla, Carmen SáezZea, Laura Montiel-Navarro, Beatriz
 Espejo-Martínez, María José PérezNavarro, Ángel Ortega-Moreno
- **P09.150** Progressive Logopenic Aphasia Versus Progressive Non-Fluent Aphasia: Clinical Differences and Progression *Mario Mendez, Sarah Kremen, Ronald Saul*
- P09.151 Cognitive and Neural Correlates of Written Language Impairment in Progressive Aphasia Steven Rapcsak, Maya Henry, Pélagie Beeson, Bryan Woodruff, Richard Caselli
- P09.152 Autonomic Nervous System and Aphasia Yutaka Tanaka, Martin Albert, Koji Fujita, Chieko Nonaka, Masao Miyazaki, Eriko Yokoyama

- P09.153 The Neuroanatomical Localization of Graphemic Buffer Deficits in Spelling Lauren Cloutman, Leila Gingis, Melissa Newhart, Cameron Davis, Jennifer Heidler-Gary, Argye Hillis
- P09.154 Non-Fluent Speech in Non-Fluent Progressive Aphasia and Logopenic Progressive Aphasia Delani Gunawardena, Corey McMillan, Sharon Ash, William Hu, Rachel Goldmann Gross, Murray Grossman
- P09.155 Constructional Apraxia in Multiple Sclerosis Manuela De Stefano, Raffaella Migliaccio, Daniela Buonanno, Gioacchino Tedeschi, Ugo Nocentini, Patrizia Montella
- P09.156 Analysis of Spelling and Written Grammar in Primary Progressive Aphasia Variants Maralyssa Bann, Melissa Newhart, Cameron Davis, Jennifer Heidler-Gary, Argye Hillis
- P09.157 Disruption of Grapheme-to-Phoneme Correspondence Mapping during Single Word Reading in Patients with Epilepsy: Implications for Models of Reading *Kerry Ledoux*, Dana Boatman, Barry Gordon
- **P09.158** Recurrent Epileptic Wernicke Aphasia *Kinshuk Sahaya*, *Upinder Dhand, Chetan Soni, Munish Goyal, Pradeep Sahota*
- P09.159 Clinical Dementia Rating for Primary Progressive Aphasia (CDR-ppa) Cecilia Serrano, Carol Dillon, Diego Sarasola, Leonardo Bartoloni, Paulo Caramelli, Fernando Taragano, Ricardo Nitrini, Ricardo Allegri
- **P09.160** Using Category Fluency Data To Create Phylogenetic Trees of Cognitive-Phenotypes Alan Lerner, Jason Messer, Taruna Singh, James Leverenz, Cyrus Zabetian, Peter Thomas, Wojbor Wocyzynski
- **P09.161** Neuropsychiatric Symptoms in Primary Progressive Aphasia *Cecilia Serrano, Carol Dillon, Galeno Rojas, Fernando Taragano, Ricardo Allegri*
- **P09.162** Impaired Processing of Narratives in Parkinson's Disease Rachel Gross, Christine Farag, Murray Grossman
- P09.163 Clinical and Survival Profiles of Patients with Frontotemporal Dementia and Motor Neuron Disease William Hu, Harro Seelaar, Keith Josephs, David Knopman, Bradley Boeve, Daniel Drubach, Eric Sorenson, Leo McCluskey, Lauren Elman, Helenius Schelhaas, Joseph Parisi, Benno Kuester, Virginia Lee, John Trojanowski, Ronald Petersen, John Van Swieten, Murray Grossman

POSTER SESSION IX

P09.164 Insensitive to Hierarchy: ALS and FTD Display Overlapping Executive Impairment *Christine* Farag, Leo McCluskey, Lauren Elman, Rachel Goldmann Gross, Michael Bonner, Murray Grossman

P09.165 "Frontal" Behavior: A Set of Factors, a Hierarchy of Symptoms, or Both? Lesley Fellows, Lois Finch, Ami Tsuchida, Tahir Shaikh, Dalia Rotstein

P09.166 Executive Function and Instrumental Activities of Daily Living in Aging and Alzheimer's Disease Gad Marshall, Dorene Rentz, Meghan Frey, Joseph Locascio, Keith Johnson, Reisa Sperling **P09.167** Comparison of Delayed Recall Tasks in a Memory Clinic *Kimberly Hook, Glen Finney*

P09.168 Clinical Diagnosis of Frontotemporal Dementia: Caveat Emptor Winnie Pao, Dennis Dickson, Neill Graff-Radford

P09.169 Quantitative and Qualitative Differences in Visual Confrontation Naming in Parkinson's Disease with and without Dementia and Alzheimer's Disease Alexander Tröster, Julie Fields, April McTaggart, Rebecca Williams, Daniel Kaufer

P09.170 Factors Contributing to Quantifier Comprehension in Corticobasal Syndrome *Brianna* Morgan, Lauren Richmond, Alea Khan, Robin Clark, Corey McMillan, Rachel Goldmann Gross, Murray Grossman

P09.171 Computerized Visual Field Defects in Posterior Cortical Atrophy Shawn Smyth, Christopher Filley, Phillip Boyer, Victoria Pelak **P09.172** Alien Limb Syndrome in a Left-Handed Individual *Daniel Antoniello*, *Svetlana Zaydman*, *Morris Scantlebury*, *Shirin Issa*, *Steven Sparr*

P09.173 Validation of the Cognitive Linguistic Quick Test with the Frontal Assessment Battery in PD Sotirios Parashos, Catherine Wielinski, Cordelia Erickson-Davis, Sarah Lenarz



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Future of Neuroscience Conference: New Genetics: The Future of Neurology

9:00 a.m.-5:00 p.m.

Hyatt Amphitheater

This interactive day-long program focuses on new genetics, and will feature poster sessions, platform presentations, a series of case vignettes and several invited lectures 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.

WELCOME AND INTRODUCTION Jeffery M. Vance, MD, PhD

9:55 a.m.

HISTORY OF GENETICS

Kenneth H. Fischbeck, MD, FAAN

10:30 a.m.

GENETICS 101: CLINICAL Thomas B. Bird, MD, FAAN

11:05 a.m.

GENETICS 101: TECHNICAL/ TOYS

Stephen Zuchner, MD

11:05 a.m.

BREAK AND POSTERS

SC01.001 **OAS1 GENOTYPE PREDICTS** RESPONSE TO BETA INTERFERON THERAPY IN RELAPSING MULTIPLE **SCLEROSIS**

Roisin Lonergan, Margaret O'Brien, Lisa Costelloe, Jean Fletcher, Cliona O'Farrelly, Killian O'Rourke, Michael Hutchinson, Niall Tubridy

11:40 a.m.

SC01.002

NOVEL GENETIC ANIMAL MODELS OF AUTISM: MOLECULAR MECHANISMS TO THERAPEUTIC TARGETS

Craig Powell, Jacqueline Blundell, Katsuhiko Tabuchi, Jing Zhou, Chang Kwon, Mark Etherton, Robert Hammer, Xinran Liu, Luis Parada, Thomas Sudhof

11:55 a.m.

EPIGENETICS

Massimo Pandolfo, MD

12:30 p.m.

LUNCHEON AND POSTERS

1:30 p.m.

REGULATORY SYSTEMS

Derek Dykxhoorn, PhD

2:05 p.m.

SC01.003 **IDENTICAL ASSOCIATION** WITH DEPRESSION IN BOTH ALZHEIMER AND PARKINSON **DISEASE**

Michael Slifer, Jeffery Vance, Gary Beecham, Gaofeng Wang, Paul Gallins, Patrice Whithead, William Scott, Eden Martin, Jonathan Haines, Margaret Pericak-Vance

REVERSAL OF MYOTONIA AND SPLICING DEFECTS BY ANTISENSE OLIGOMERS IN A TRANSGENIC MOUSE MODEL OF MYOTONIC DYSTROPHY TYPE 1 (DM1)

Thurman Wheeler, Krzysztof Sobczak, John Lueck, Robert Osborne, Xiaoyan Lin, Robert Dirksen, Charles Thornton

2:35 p.m.

COMPLEX GENETICS: MULTIPLE **SCLEROSIS**

Jonathan Haines, MD

3:10 p.m. **BREAK**

3:30 p.m.

COMPLEX GENETICS: AUTISM Margaret A. Pericak-Vance, PhD

4:05 p.m.

PERSONALIZED MEDICINE

Jeffery M. Vance, MD, PhD

QUESTIONS AND ANSWERS

NEW GENETICS: THE FUTURE OF NEUROLOGY POSTERS

SC02.001 Aβ42 Trimer Gal 4-UAS Gene Vaccine with the Gene Gun To Prevent Alzheimer's Disease Roger Rosenberg, Bao-xi Qu, Doris Lambracht-Washington, Min Fu

SC02.002 Inhibition of Parkin or PINK1 Expression in SH-SY5Y Dopaminergic Cells Increases SH-SY5Y Sensitivity to Paraquat Induced Cytotoxicity Loren Ornelas, Stefan Pulst, Duong Huynh

SC02.003 Uptake and Outcome of Genetic Testing among Participants of the DuchenneConnect Registry Vanessa Rangel Miller, Giovanna Spinella, Ken Loud, W. Andrew Faucett, Madhuri Hegde, Pat **Furlong**

SC02.004 Family History of Melanoma and Parkinson's Disease Risk Xiang Gao, Kelly Simon, Jiali Han, Michael Schwarzschild, Alberto Ascherio

SC02.005 Genetic Studies on the NNIPPS Cohort: A New Tau Sub-Haplotype in Progressive Supranuclear Palsy Michael Parkinson, Ammar Al-Chalabi, Peter Leigh, Gilbert Bensimon, Albert Ludolph, Yves Agid, Nick Wood, Karen Morrison, Alexandra Durr, Alexis Brice

SC02.006 Transvascular Delivery of siRNAs into the Rat Brain Rafael Marchesini, Vinicius Pascoal, Tiago Pereira, Rovilson Gilioli, Iscia Lopes-Cendes

SC02.007 A Human Trial of **HSV-Mediated Gene Transfer for** the Treatment of Chronic Pain David Fink, Darren Wolfe, James Wechuck, David Krisky, Marina

SC02.008 Candidate Gene Associations and Epistatic Interactions in Cerebrovascular Disease on MRI: The Atherosclerosis Risk in Communities (ARIC) Study Myriam Fornage, Dean Shibata, David Knopman, Mark Meeks. Diane Catellier, Laura Coker, Eric Boerwinkle, Thomas Mosley

SC02.009 Gene Expression Levels as Endophenotypes in Genome-Wide Association Studies To Identify Susceptibility Variants for Late-Onset Alzheimer's Disease Nilufer Ertekin-Taner, Fanggeng Zou, Minerva Carrasquillo, Vernon Pankratz, Olivia Belbin, Kevin Morgan, Samantha Wilcox, Li Ma, Louise Walker, Naomi Kouri, Linda Younkin, Samuel Younkin, Curtis Younkin, Gina Bisceglio, Julia Crook, Dennis Dickson, Ronald Petersen, Neill Graff-Radford, Steven Younkin

SC02.010 Meta-Analysis of Genome Scans and Replication Identify CD6, ICSBP1, and TNFRSF1A as Novel Multiple Sclerosis Susceptibility Loci Philip De Jager, Paul De Bakker, Joanne Wang, International MS Genetics Consortium, Alastair Compston, Stephen Sawcer, Stephen Hauser, David Hafler, Jorge Oksenberg

Scientific Program Highlights Plenary Session



5:15 p.m.-6:15 p.m.

Washington State Convention and Trade Center, Exhibit Hall 4A

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

This plenary reviews the most critical new research from more than 2,000 studies presented throughout the 2009 Scientific Program. Education Programs will end at 5:00 p.m. Friday, allowing time for meeting participants to attend this session.

INTEGRATED NEUROSCIENCE SESSION: TRAUMATIC BRAIN INJURY

Friday, May 1 / 1:00 p.m.-5:00 p.m.

Coordinators: Jeffery Bazarian, MD and Geoffrey Ling, MD, FAAN

Invited Speaker Session* / 1:00 p.m.-2:30 p.m. / Room 3AB

1:00 p.m.-1:20 p.m. Emerging Issues of Moderate to Severe Traumatic Brain Injury Geoffrey Manley, MD, PhD

1:20 p.m.-1:40 p.m. Neuroimaging of Traumatic Brain Injury Alisa D. Gean, MD

1:40 p.m.-2:00 p.m. Emerging Issues of Concussive and Mild Traumatic Brain Injury James P. Kelly, MD, FAAN

2:00 p.m.-2:20 p.m. Traumatic Brain Injury of Modern War Michael Jaffee, MD

2:20 p.m.-2:30 p.m. Questions and Answers

Poster Session / 2:30 p.m.-3:30 p.m. / Room 3AB

IN6-1.001 The Critical Role of β 1-Integrin and Its Interaction with the Centrosome in Astrocyte Wound Healing *Marie-Pierre Thibeault-Eybalin*, *Salvatore Carbonetto*, *Paul Holland*, *Huashan Peng*, *Yen May Opg*

IN6-1.002 Subtypes of Post-Traumatic Epilepsy: Clinical, Electrophysiologic, and Imaging Features Nasreen Sayed, Puneet Gupta, Mark Agostini, Paul Van Ness, Ramon Diaz-Arrastia

IN6-1.003 Post Traumatic Epilepsy and Anti-Epileptic Drug Therapy *Jyoti Pillai, Shruti Badhwar, Lindsay Pharmer, Andi Rosso* IN6-1.004 Subtypes of Traumatic Brain Injury in Children: Usefulness of CT Measures Victoria Pan, Katrina Vandebruinhorst, Caryn Harper, Carol Moore, Pieter Vos, Ramon Diaz-Arrastia

IN6-1.005 Diffusion Tensor Imaging in Traumatic Axonal Injury: Evolution of Fractional Anisotropy Measures over the First Six Months after Injury Tricia Teoh, Leandra Uribe, Khamid Bakhadirov, Carlos Marquez De La Plata, Carol Moore, Caryn Harper, Michael Devous, Christopher Madden, Ramon Diaz-Arrastia

IN6-1.006 The Use of Advanced MR Imaging Methods in Traumatic Brain Injury: Development of Imaging Biomarkers for Improving Diagnosis, Outcome Prediction and Treatment Randall Benson, Ramtilak Gattu, Zhifeng Kou, E. Haacke

IN6-1.007 Treatment Outcomes of Chronic Post-Traumatic Headaches in U.S. Soldiers with Mild Head Injury *Jay Erickson*

IN6-1.008 Incidence and Clinical Features of Autonomic Dysfunction in a Military Severe Traumatic Brain Injury Population William Allred, Louis French, Xiao-Feng Wang, Ronald Riechers IN6-1.009 Head Injury Is Associated with Alzheimer Dementia and Neuropathologic Lesions in the Honolulu-Asia Aging Study Lon White, Helen Petrovitch, G. Ross, Kamal Masaki. Robert Abbott

IN6-1.010 Development of Tailored Outcomes Measures for Traumatic Brain Injury and Spinal Cord Injury David Tulsky, Pamela Kisala, David Victorson, Noelle Carlozzi, David Cella

Platform Session / 3:30 p.m.-5:00 p.m. / Room 3AB

3:30 p.m. IN6-2.001

Challenges and New Directions in the Rehabilitation of Executive Functioning: Theory, Application and Pilot Study Results *Tatjana Novakovic-Agopian, Anthony Chen, Scott Rome*

3:45 p.m. IN6-2.002

Prevalence of Subclinical Seizures with Continuous EEG Monitoring Dawn Eliashiv, Eugene Tsimerinov, Jeffrey Chung

4:00 p.m.

Electroencephalography as a Screening Test for Boxers Anthony Alessi, Jeffrey Kutcher, Stephanie Alessi

4:15 p.m. IN6-2.00

The Post-Acute Impact of Mild Traumatic Brain Injury on Memory: An fMRI Study Pieter Vos, Maja Stulemeijer, Sieberen van der Werf, Gert van Dijk, Mark Rijpkema, Guillen Fernandez

4:30 p.m.

IN6-2.003

Post-Traumatic Headaches after Mild Head Injury in U.S. Soldiers Returning from Iraq or Afghanistan *Brett* Theeler, Frederick Flynn, Jay Erickson

4:45 p.m.

IN6-2.005

Headaches among Veterans of Operations Iraqi Freedom and Enduring Freedom with Mild Traumatic Brain Injury Caused by Exposures to Explosions Robert Ruff, Suzanne Ruff, Xiao-Feng Wang

IN6-2.006



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The AAN is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education (CME) for physicians.

CME: American Medical Association Physician's Recognition Award™

The AAN designates select Annual Meeting activities for a specific number of AMA PRA Category 1 Credit™ hours towards the American Medical Association Physician's Recognition Award. (See individual program description for specific number of credits per program.) Physicians should only claim credit commensurate with the extent of their participation in the activity.

CME: Education Program

AMA PRA Category 1 Credits are awarded for courses, seminars, workshops, luncheons, and kick-off programs. (See individual program description for specific number of credits per program). Confirmation of CME credits earned at the 2009 Annual Meeting will be sent to attendees approximately four to six weeks after the Annual Meeting.

CME: Scientific Program

AMA PRA Category 1 Credits are awarded on a one-credit-per hour basis for platform, plenary, and specific portions of poster sessions. To earn CME credit, attendees must participate in the program and complete a 2009 CME Credit Request Form available through the AAN Website. In order to receive Category 1 CME Credit for scientific programs, Annual Meeting registration must be validated and the 2009 CME Credit Request Form must be submitted. Category 2 Credit is self-reported.

Disclaimers/ Disclosures

Education/Scientific Disclaimer

The primary purpose of the Annual Meeting is to offer education and scientific programs to attendees. Information presented—as well as publications, technologies, products, and/or services discussed—is intended to inform attendees about the knowledge, techniques, and experience of physicians willing to share that information with colleagues. A diversity of opinions exists in the medical field and the views of Annual Meeting physician participants do not represent those of the AAN or constitute endorsement by the AAN. The AAN disclaims any and all liability for all claims that may result from the use of information, publications, products, and/or services discussed at the Annual Meeting.

Disclosure of Commercial Relationships

According to AAN and ACCME policies, Annual Meeting presenters must disclose any significant financial or other relationship with industry. All presenters must sign an AAN Letter of Agreement stating explicitly they understand and will adhere to AAN and ACCME policies that require full disclosure of commercial relationships, unlabeled use of products, and identification of data sources. Full disclosure of presenters' commercial relationships will be included in individual program materials. This policy is intended to provide attendees with information about faculty commercial relationships in order for attendees to evaluate material discussed during an education activity.

Unlabeled Use Disclosure

The AAN requires all Annual Meeting presenters to disclose if a product is not labeled for the use being discussed or if the product is still investigational. Unlabeled use disclosures will be included in individual program materials.

Education Grants

Some Annual Meeting education and scientific programs are supported in part by education grants from the AAN's industry supporters. Support acknowledgment statements are included in the individual program descriptions and materials. Although industry support is received, all programs are developed and implemented solely by the AAN Education Committee and its Annual Meeting Subcommittee, the Science Committee and its Scientific Program Subcommittee, and AAN staff. Industry supporters must sign an AAN Letter of Agreement stating they will not influence the faculty or directors and agreeing to no direct control or input. The AAN uses grant funds to support and enhance existing, as well as new, education programs.

Services

Child Care Information

A variety of child care options is available in Seattle. Check with the concierge at your hotel on or before your arrival to make your arrangements.

Shuttle Service

Complimentary shuttle bus service will be provided between designated official AAN hotels and the convention center. Schedules will be available at the Washington State Convention and Trade Center and will also be posted in each hotel lobby.

Route A

- · Westin Seattle
- Hotel Max (will use Westin stop)
- Sixth Avenue Inn (will use Westin stop)
- Mayflower Park Hotel
- Red Lion Hotel on 5th Avenue

Route B

- · The Arctic Hotel
- · Renaissance Seattle Hotel
- · Crowne Plaza Hotel Seattle
- Hilton Seattle (will use Crowne Plaza stop)

- Fairmont Olympic Hotel
- Executive Hotel Pacific (will use Fairmont stop)
- W Hotel (will use Fairmont stop)

Route C

- · Ramada Seattle Downtown
- Holiday Inn Seattle Center
- · Homewood Suites by Hilton
- · Hampton Inn and Suites
- · Pan Pacific

Walking Distance Hotels

- · Sheraton Seattle Hotel
- · Grand Hyatt Seattle
- · Paramount Hotel
- · Homewood Suites by Hilton
- · Hyatt at Olive 8
- · Hotel Roosevelt

Sponsored by AAN Enterprises, Inc. and Lippincott Williams and Wilkins/Wolters Kluwer.

Internet and Message Center

The AAN strives to offer the latest in technological products and services designed to make communicating between the office, colleagues, or family easier while attending the 61st Annual Meeting. The Internet Center provides attendees with computer workstations, printers, and Internet access. Check email, enter course or session notes, or search the AAN website. Enhancements to the Message Center allow faster access to messages and the ability to search for other attendees by name, company, or networking topics of interest.

Wireless Connection

Wireless Internet connections will be available in all public areas of the Washington State Convention and Trade Center.

Sponsored by Neurology®, the official journal of the AAN.

Business Center

The Washington State Convention and Trade Center has a business center that offers extensive administrative and office services, including copy machines, faxes, and shipping services. The business center is located on Level 2.

First Aid Station

A wheelchair-accessible First Aid station is located on Level 4 of the Washington State Convention and Trade Center. The station is staffed by licensed medical professionals and fully equipped with supplies, including automatic external defibrillators (AED). A private area for infant nursing is also available. The station is operational throughout the duration of the Annual Meeting.

Guidelines

Photography and Recording of Programs

The AAN strictly prohibits all unauthorized photography (flash, digital, or otherwise), audio and/or videotaping during the Annual Meeting. Equipment will be confiscated.

Consent to Use of Photographic Images

Registration and attendance at, or participation in, AAN/AAN Professional Association meetings and other related activities constitutes attendee's authorization to AAN's use and distribution (both now and in the future) of the attendee's image or voice in photographs, video recordings, electronic reproductions, and audio recordings of the events and activities

Cell Phones

The AAN requests that attendees turn cellular phones and pagers to vibrate mode upon entering all Annual Meeting programs.

Language

The official language of the Annual Meeting is English. No simultaneous translation is available.

No Smoking

The Washington State Convention and Trade Center is a nonsmoking facility. For the health and comfort of everyone, smoking is prohibited at Annual Meeting functions, which include all education and scientific activities and social functions.

Press Room

Only authorized media may use the Press Room at the Annual Meeting. Journalists must check in at the Press Room and provide proper credentials. Media guidelines, press releases, and other materials will be provided. For more information, contact Angela Babb at ababb@aan.com or (651) 695-2789.

Volunteer Opportinities

Education and Scientific Program Monitors

Monitors are needed for all education program offerings and platform sessions to distribute and collect evaluation materials and assist directors, faculty, session co-chairs, and staff as required. The AAN will waive all monitors' Annual Meeting registration and program fees as well as grant CME credit for the monitored program. Space is available on a first-come, first-served basis. For an application form or more information, contact Kyle Krause at kkrause@aan.com or (651) 695-2733.

EMG Skills Workshop Volunteers

Volunteers are needed to participate in the EMG Clinical Skills Workshop on Monday, April 27, and Friday, May 1. Skills workshop subjects will receive a waived meeting registration and workshop fee as well as payment of \$40 per noninvasive session and \$60 per invasive session. Space is available on a first-come, first-served basis. For more information, contact Naomi Reeves at nreeves@aan.com or (651) 695-2814.

Weather/Attire

The climate in Seattle in early spring is generally cool and damp. In April, temperatures usually range from 42 degrees to 70 degrees Fahrenheit. It can be quite wet, so a waterproof coat and umbrella are a good idea, as are layered clothing and a good jacket. The AAN promotes business casual attire for the duration of the Annual Meeting. Consider bringing a light jacket or sweater to Annual Meeting activities since meeting room temperatures and personal comfort levels vary.

ANNUAL MEETING REGISTRATION

Online Registration

Enjoy the convenience and efficiency of registering online at www.aan.com/abstractreg.

Early Registration Deadline: March 20, 2009

Register early to avoid increased general registration and Education Program fees. Any registrations received after March 20, 2009, will not be processed. After March 20, 2009, registration is available on-site only. On-site registration opens at 8:00 a.m. on Saturday, April 25, 2009, at the Washington State Convention and Trade Center.

US and Canadian registrants who submit their registration form before March 20, 2009, will receive Annual Meeting name badges and Education Program tickets by mail.

Fees

General Registration Fee

The general registration fee is mandatory for all registrants and is determined by AAN member type.

AAN Member Types Include:

Medical Student/PhD Candidate Members: Medical Students and PhD candidates who are members of the AAN are not required to pay the general registration fee and pay non-neurologist rates for Education Programs.

Junior Members: Non-neurologist rates are for Junior (resident, fellow, post-doctoral graduate) members of the AAN. Physicians in training who are not Junior members must pay nonmember rates.

Business Administrator, Research Scientist, Non-Neurologist Clinician Members: These members pay non-neurologist member rates.

Fellow, Active, Associate, Honorary, and Senior Members: AAN members must pay their current year's dues to register at neurologist member rates. Honorary and Senior members are not required to pay the general registration fee.

Special Membership Considerations

Nonmembers: Become an AAN member and receive significant discounts on Annual Meeting registration and Education Program fees. For an AAN membership application, contact AAN Member Services at (800) 879-1960 or (651) 695-2717.

Medical Student/PhD Candidate nonmembers: To be eligible for the student rate as a nonmember, a student ID card or a letter from a professor must be submitted. The general Annual Meeting registration fee will be waived but nonmember rates must be paid for all Education Programs. For an AAN membership application, contact AAN Member Services at (800) 879-1960 or (651) 695- 2717 (international).

Underserved Countries

If you are from one of the following countries, you are entitled to receive your general registration fee waived and access to lower cost hotels. To register online, enter an Invitation Code of "unmbr" if you are an AAN member or "unnon" if you are not an AAN member. The countries are: Afghanistan, Bangladesh, Benin, Bolivia, Burkina Faso, Burundi, Cambodia, Cameroon, Central African Rep., Chad, Comoros, Congo Dem. Rep., Congo

Rep., Cote d'Ivoire, Eritrea, Ethiopia, Gambia, Ghana, Guinea, Guinea- Bissau, Guyana, Haiti, Honduras, Kenya, Korea Dem. Rep. North, Kyrgyz Rep., Lao PDR, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Nicaragua, Niger, Nigeria, Pakistan, Papua New Guinea, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, Sudan, Tajikistan, Tanzania, Togo, Uganda, Uzbekistan, Vietnam, Yemen Rep., Zambia, and Zimbabwe.

Support Research, Buy a Brain

Purchase a "brain" and help ensure the future of neurology and support clinical research training fellowships. For each \$5 donation, you will receive a colorful brain certificate to which you can add your name or the name of someone you are honoring. Donate now on the registration form to support research in neurology!

AAN Foundation Wine Tasting and Auction

Sample some of the finest wines in the Pacific Northwest and enjoy an array of food, music, and fun at this exclusive event on Wednesday, April 29. Bid on exciting silent and live auction prizes including wine, entertainment, and gifts. Proceeds benefit the AAN Foundation Research Program. Tickets are \$100 per guest. Register today!

Scientific Program Presenters

All platform and poster presenters must submit a registration form and pay the applicable registration fee. Note that on-site fees are significantly higher. Registration by March 20, 2009, is encouraged.

Education Programs

There is a fee for each selected offering within the Education Program. Enrollment is limited. Registration by March 20, 2009, is encouraged.

Syllabi on CD / Webcast-on-Demand

If you place an order for Syllabi on CD before March 20, 2009, you recieve a discounted price of \$99 for members and \$149 for nonmembers. The 2009 Annual Meeting Practice CD are available for \$39. Price includes sales tax. Members and nonmembers can purchase access to the AAN online library Webcast-on-Demand if purchasing the Syllabi on CD at a reduced rate.

AAN Junior members may purchase the 2009 Annual Meeting Syllabi on CD at a discounted pre-meeting rate of \$49. This rate is only available to AAN Junior members (one copy per Junior member). Note: The discounted rate is only available until March 20, 2009.

Celebration for Research; Neurobowl®, Neuro Idol, Josh Blue on Main Stage, Neuro Hop, and more!

Each registered meeting attendee will receive one free ticket to these celebration events. Guest tickets are \$50 each. See page 22.

American Academy of Neurology & American Academy of Neurology Foundation Awards Luncheon

Join the leaders of the AAN, the Science Committee, and the Lecture Awards Subcommittee in honoring recipients of the 2009 Scientific Awards Program on April 29, 2009. A limited number of seats are available for \$50. Junior and Medical Student members may attend this event at no cost, but must obtain a ticket through registration. Microsoft Co-Founder and well-known philanthropist Paul G. Allen is the recipient of the 2009 Public Leadership in Neurology Award.

What's Free with Your Badge?

Every Annual Meeting attendee has free access to a variety of programs and events, including:

- · Scientific Platform and Poster Sessions
- · Plenary Sessions
- Celebration for Research: Neurobowl, Neuro Idol, Josh Blue on Main Stage, and Neuro Hop
- · Advocacy Events
- · Guidelines, Practice, and Advocacy Open House
- · All Colloquiums
- · Exhibits (guest passes are available for purchase)
- · Resident Activities
- · Scientific Topic Highlights
- · Corporate Therapeutic Updates

Group Registration Deadline: March 6

Group registrations are those in which 10 or more individuals' fees are paid for with one check or credit card. No administrative fee is charged to register a group as long as housing is secured through the AAN's official housing company, Convention Management Resources (CMR). Groups that have not secured housing through CMR can still register as a group; however, a \$1,000 administrative fee will be charged. Contact CMR's Group Registration at (800) 676-4226 (US/Canada) or (415) 979-2283 (international) to receive special registration instructions. See page 110 for housing information.

Download Your Syllabi

Obtaining your Education Program syllabi is quicker and easier than ever. All registered attendees will be able to download the full syllabi for selected programs. Syllabi can be downloaded starting in April. All registered attendees will receive an email notification in April. You can also pick up a printed copy on-site at the room where your course is located. Program syllabi will be available 30 minutes prior to the start in the program's room.

Exhibits Only

To view the exhibits without registering for the Annual Meeting, a single-day pass is available at on-site registration for \$100 per day.

Changes in Education Programs

Select education programs carefully. An administrative fee of \$20 will be charged for each program change or cancellation. To assure correct mailing of your name badge and tickets, changes must be submitted in writing and received no later than March 20, 2009. After that date, changes must be made on-site and will be charged an administrative fee of \$30 for each program change or cancellation.

Canceled or Closed Programs

Education programs may be canceled or closed due to capacity or insufficient enrollment. If any selections are canceled or closed and payment was made by credit card, the amount charged will include only the available programs. If paid by check, a full refund will be issued for affected programs. Allow four to six weeks after the Annual Meeting for processing refunds.

CANCELLATIONS/REFUNDS OF REGISTRATION

Until March 20, 2009...... Full refund

March 21–April 17, 2009...... Refund less \$50 administrative fee

After April 17, 2009...... No refund

All cancellations must be submitted in writing to aan2009reg@cmrus.com or faxed to (414) 979-2260.

No-shows will not receive a refund.

Name substitutions are not permitted.

No refunds will be processed for amounts of \$20 or less.

Programs are subject to cancellation if enrollment is insufficient. In the event of cancellation, registration for the cancelled course will be fully refunded.

The AAN is not responsible for airfare, hotel, or other costs incurred by participants in the event of program or registration cancellation.

Special Needs Deadline: April 10

The Washington State Convention and Trade Center and the AAN are in compliance with the Americans with Disabilities Act and strive to accommodate all visitors. Information booths, designated parking, and assisted listening devices are available. If you require special accommodation to attend the Annual Meeting, contact Franziska Schwarz no later than April 10, 2009, at fschwarz@aan.com or (651) 695-2807.

Note: Kosher meals can be provided at any breakfast, lunch, or dinner seminar and should be arranged no later than March 20, 2009, by contacting Franziska Schwarz at (651) 695-2807.

There is a \$25 surcharge per meal. On-site requests cannot be accommodated.

The deadline for early registration is March 20, 2009. After this date, you must register on-site. Register quickly and easily at www.aan.com/abstractreg

Step 1: Personal Information

Remove the mailing label on the back of this book and affix it to the Personal Information box on the registration form. If the information on the label is incorrect, make corrections on the label or in the space provided.

Note: It is important that this information be current. A confirmation letter will be emailed or faxed. Name badge, tickets, and CME transcripts will be mailed to the address provided.

Indicate your Primary Focus of Practice: Aging/Dementia, Behavioral Neurology, Cerebrovascular Disease, Chronic Pain, CNS Infectious Disease, Critical Care, EEG, EMG, Epilepsy, General Neurology, Headache, Interventional Neurology, Movement Disorders, Neuro-oncology, Neuro-ophthalmology, Neuropharmacology, Neurorehabilitation, Sleep Disorders, Spine Related Conditions, Worker's Compensation, or currently not in practice.

Step 2: Education Program

Shade the boxes corresponding to the Education Program numbers for which you wish to register.

Step 3: Fees

Box A: General Registration Fee: Select the appropriate fee. All attendees and Scientific Program presenters are required to pay this fee. See page 106 for fee inclusion details.

Box B: Education Program Fees: Calculate the total fees using the Education Program Fee Schedule.

Box C: Virtual Annual Meeting (optional): Select a Syllabi on CD, Webcast-on-Demand, and/or Practice CD. Price includes applicable sales tax. If you do not pick up your CD at the AAN Store during the Annual Meeting, there will be an additional \$15 shipping and handling charge.

Box D: Additional Activities (optional): Select a guest ticket for the Celebration for Research and the AAN/AAN Foundation Awards Luncheon, Wine Tasting and Auction, Run/Walk for Brain Research, and Buy a Brain. Check box to select a ticket to the Awards Luncheon.

TOTAL: Enter the total of your selected fees.

Step 4: Payment

Indicate method of payment. Full payment in US funds must accompany your registration form. Include credit card information or enclose a check made payable to the **American Academy of Neurology**. Note: Government credit cards are not accepted for advance registration, as they cannot be processed without the actual credit card. Government credit cards may be used on-site.

Deadline: March 20

Registrations will be processed according to the date of receipt. Registrations received after March 20, 2009, will not be processed. After March 20, 2009, you must register on-site. On-site registration opens Saturday, April 25, 2009, at 8:00 a.m., at the Washington State Convention and Trade Center.

Questions

US/Canada: (800) 676-4226 International: (415) 979-2283 Email: aan2009reg@cmrus.com

Education Program Fee Schedule

Use this table to calculate the fees for the number of registered programs. Tally the number of each type of program. Multiply the amount by the fee for your membership type. Transfer the total amount to Box B on the registration form.

Note: Do not use this schedule for on-site registration. Neurologist member and nonmember fees increase \$20.00 per program on-site.

Program Type:	Non-Neurologist Member: (Junior, Research Scientist, Non-neurologist Clinician Business Administrators, Students)	Neurologist Member (Honorary, Senior, Fellow, Active, Associate)	: Nonmember:
AC/PC (Half-Day Course)	x \$45 =	x \$105 =	_x \$130 =
AS (After-Dinner Seminar)	x \$75 =	x \$105 =	_x \$140 =
BS (Breakfast Seminar)	x \$70 =	x \$90 =	_x \$115 =
CS (Case Studies Program)	x \$80 =	x \$110 =	_x \$145 =
CL (Coding Lunch)	x \$70 =	x \$90 =	_x \$115 =
DS (Dinner Seminar)	x \$110 =	x \$155 =	_x \$175 =
EP* (Directors Conference)	x \$125 =	x \$250 =	_x \$375 =
FC (Full-Day Course)	x \$90 =	x \$205 =	_x \$255 =
KP (Kick-Off Program)	x \$55 =	x \$80 =	_x \$100 =
LS (Luncheon Seminar)	x \$70 =	x \$90 =	_x \$115 =
PW (PM Skills Workshop)	x \$180 =	x \$230 =	_x \$305 =
SC** (Science Conference)	x \$100 =	x \$150 =	_x \$200 =
SW (Skills Workshop)	x \$350 =	x \$455 =	_x \$605 =
TP (Therapy Program)	x \$20 =	x \$40 =	_x \$50 =
Total Program fees (Enter in Box B on Registration Form):		

^{*}If you are attending the Clerkship and Program Directors' Conference (1EP.001) only and no other Annual Meeting events, the cost increases \$50.

^{**} If you are attending the Future of Neuroscience Conference (7SC.001) only, and no other Annual Meeting events, the cost increases \$70 (\$170 on-site) and includes Thursday and Friday Scientific events. Medical students and PhD candidates may attend at no charge but MUST register and receive a ticket.

AAN 61ST ANNUAL MEETING REGISTRATION FORM / DEADLINE: MARCH 20, 2009

1. Personal Information / One form per registrant

AAN ID Number		Primary Focus of	Practice
TV II I I I I I I I I I I I I I I I I I		Trimary 1 dodd or	1 100000
Name (last, first, middle) and de	gree (MD, DO, Phi	D, RN)	
Address			
City/State		ZIP/Postal Code	
Telephone		Fax	
Email			
3. Fees			
BOX A: General Registrat	ion Fee Before March 20	After March 20	
Student	\$0	\$0	
Non-Neurologist Member (Junior, Business Administrator, Non-Neurologist Clinician, Research Scientist)	\$70	\$100	
Neurologist Member (Active, Associate, Fellow)	\$190	\$305	
Neurologist Member (Senior, Honorary)	\$0	\$0	
Nonmember	\$445	\$645	
BOX B: Education Progra Calculated in program fee sch		i	
BOX C: Virtual Annual Me Syllabi on CD	eting		
Junior member (limit 1)	\$49	\$169	
Member	\$99	\$169	
Nonmember	\$149	\$199	
Webcast-On-Demand (with p	ourchase of Syllabi	on CD)	
Junior member	\$49	\$99	
Member	\$99	\$149	
Nonmember	\$149	\$199	
Webcast-On-Demand (if Not	purchasing the Sy	llabi on CD)	
Junior member	\$69	\$119	
Member	\$119	\$169	
Nonmember	\$169	\$219	
Practice CD	\$39	\$39	
BOX D: Additional Opport Celebration for Research Go (one free ticket per registrant)	uest Tickets	hat apply) \$50 ea.	
Run/Walk for Brain Researc		\$25 ea.	
AAN and AAN Foundation A (Junior Members and Student		\$50 ea.	
Wine Tasting and Auction		\$100 ea.	
Support Research, Buy a Br	rain (enter donation	n amount)	
TOTAL Registrations received after	March 20, 2009, v	vill not be process	ed.
4. Payment	.,,		
□ Check/Money Order Payme able to American Academy o			
to checks returned for insuffic	cient funds.		ner's Club

	able	to Ame	rican	,	leuro	accompany registration logy (US funds only). Ands.		, ,
				Master Card		American Express		Diner's Club
Ca	rd n	umber:						
						nment credit cards. e amount determined by th	ne AA	N as registration fees.

2. Education Program

There is a fee for each selected Education Program. Calculate the total in the Education Program Fee Schedule on page 108 and enter in Box B in the Fees section. To register for a program, shade the box.

_		3		
Saturday, Apr	<u>ril 25, 2009</u> □ 1PC.002	□ 1KP.	004 🗆	1KP.008
□ 1AC.001 □	☐ 1KP.001	☐ 1KP.	005 🗆	1KP.009
	☐ 1KP.002 ☐ 1KP.003	☐ 1KP.		
Sunday, April	26, 2009			
	2AC.004	□ 2CL. □ 2LS.		2DS.004
□ 2BS.003 □	☐ 2AC.005 ☐ 2FC.001	☐ 2PC.	001 🗆	2DS.005 2DS.006
	☐ 2FC.002 ☐ 2FC.003	☐ 2PC. ☐ 2PC.		2DS.007
□ 2BS.006 □	☐ 2FC.004 ☐ 2FC.005	☐ 2PC. ☐ 2PC.		
□ 2AC.001 □	☐ 2FC.006	□ 2DS.	001	
	☐ 2FC.007 ☐ 2PW.001*	☐ 2DS. ☐ 2DS.		
Monday, Apri	127, 2009	* Mus	t also registe	r for 2AC.004
	☐ 3AC.005 ☐ 3AC.006	☐ 3PC. ☐ 3PC.		3DS.008 3AS.001
□ 3BS.003 □	☐ 3FC.001	□ 3PC.	004	3AS.002
	☐ 3FC.002 ☐ 3FC.003	☐ 3PC.☐ 3PC.		3AS.003 3AS.004
	☐ 3FC.004 ☐ 3FC.005	☐ 3DS. ☐ 3DS.		3AS.005 3AS.006
□ 3BS.008 □	□ 3SW.001	□ 3DS.	.003	3AS.007
□ 3AC.002 □	☐ 3CL.001 ☐ 3CL.002	☐ 3DS. ☐ 3DS.	.005	3AS.008
	☐ 3CL.003 ☐ 3PC.001	☐ 3DS. ☐ 3DS.		
Tuesday, Apr	il 28, 2009			
	☐ 4BS.004	☐ 4PC.		4PC.004
	□ 4LS.001 □ 4LS.002	☐ 4PC. ☐ 4PC.		4PC.005
Wednesday,	April 29, 20	09		
	□ 5LS.001 □ 5PC.001	☐ 5PC. ☐ 5PC.		5CS.003 5CS.004
□ 5BS.003 □	☐ 5PC.002	□ 5CS.	.001	303.004
	□ 5PC.003 ril 30, 2000	□ 5CS.	.002	
Thursday, Ap	<u>111 30, 2009</u> □ 6LS.001	☐ 6PC.	.004 🗆	6CS.001
□ 6BS.002 □	☐ 6PC.001	☐ 6TP.	001 🗆	6CS.002
	☐ 6PC.002 ☐ 6PC.003	☐ 6TP.0		6CS.003 6CS.004
Friday, May 1	, 2009			
	7AC.002	☐ 7FC.		7SW.001
□ 7BS.003 □	☐ 7AC.003 ☐ 7AC.004	☐ 7FC. ☐ 7SC.	.001	7TP.001 7TP.002
	☐ 7AC.005 ☐ 7AC.006	☐ 7CL. ☐ 7CL.		7TP.003
□ 7BS.006 □	☐ 7FC.001 ☐ 7FC.002	☐ 7PC. ☐ 7PC.	.001	
□ 7BS.008 □	☐ 7FC.003	□ 7PC.	.003	
□ 7AC.001 □ Saturday, Ma	□ 7FC.004 v 2 2009	□ 7PC.	.UU4	
	<u>y 2, 2003</u> □ 8BS.005	□ 8AC.	.001 🗆	8AC.005
□ 8BS.002 □	□ 8BS.006	□ 8AC.	.002	8AC.006
	□ 8BS.007 □ 8BS.008	□ 8AC. □ 8AC.		8AC.007 8AC.008

REGISTER: Online: www.aan.com/abstractreg / Fax: (415) 979-2260 Mail: AAN Registration / CMR 33 New Montgomery, Suite 1420 / San Francisco, CA 94105

QUESTIONS: aan2009reg@cmrus.com (800) 676-4226 US/Canada / (415) 979-2283 International

HOTEL RESERVATIONS

Hotel Reservations

Take advantage of the AAN's special hotel rates to make your trip more affordable. Annual Meeting hotel accommodations are processed by Convention Management Resources (CMR).

AAN Online Hotel Reservations

www.aan.com/abstractreg

The AAN makes it easy and convenient to book your hotel rooms for the 61st Annual Meeting. Booking online allows you to:

- · Take advantage of the AAN's special hotel rates
- · View room descriptions, photos, and availability
- · Access maps of hotel proximity to Annual Meeting locations

Mail, Fax, or Telephone Reservations

All correspondence, questions, and inquiries should be directed to CMR at:

Mail:

AAN Housing c/o CMR
33 New Montgomery, Suite 1420
San Francisco, CA 94105
email: aan2009housing@cmrus.com

Fax:

Credit card reservations only (415) 979-2260

Phone:

Credit card reservations only US/Canada (800) 676-4226 International (415) 979-2283

Hours:

Monday-Friday 6:00 a.m.-6:00 p.m. (PST)

www.aan.com/go/reg

Deposits

- All hotels require a credit card guarantee or a check deposit of \$300 per room and \$500 per suite. Deposits will be credited towards your first night's room and tax.
- No hotel reservation will be processed without a credit card guarantee or a deposit.
- Deposits are refundable up to seven days prior to arrival, after which there will be no refunds.
- Credit cards will be charged for one night's room and tax if you fail to arrive on the confirmed date of arrival or if you fail to cancel your reservation at least seven days prior to arrival.

Changes and Cancellations

- You will receive your hotel confirmation from CMR. This is the only confirmation you will receive.
- Contact CMR if your housing confirmation is not received within one week of mailing.
- Please check your arrival and departure dates carefully.
 Note: Some hotels may charge a penalty for changes made to your departure date after you have checked in.
- After March 20, 2009, you may still submit your hotel form to CMR. After this date, however, rooms are subject to availability.

Group Accommodations

Blocks of 10 or more sleeping rooms are considered a group. Fax your written request to (415) 979-2260, or email to aan2009housing@cmrus.com, and you will be contacted by an AAN Housing Consultant.

Additional Tax/Assessments

- Rates do not include the 15.60% hotel tax.
- An \$8 per night assessment fee is included to cover the expense of the convention center.

RESERVATION DEADLINE: MARCH 20, 2009 / MEETING DATES: APRIL 25-MAY 2, 2009

1. Confirmation to: Please type or print clearly. One form by mail, fax, or email.	m per registrant. Confirmations sent	5. Special Requests: Special Needs:
by mail, lax, or email.		□ Smoking room □ Nonsmoking room
Name (last, middle, first)		. Note: Special requests are forwarded to the hotels for their consideration and are subject to availability.
Company name		·
Mailing address		6. Occupants: List all occupants, giving primary occupant first:
City/State/Zip	Country	1
Telephone		2
Fax		3
Email		. 4
International attendees indicate cou	ntry/city code:	7. Payment: All AAN hotel reservations must be guaranteed with a credit card or check
2. Hotel Preference: Please indicate your choice (list ten Hotel rooms assigned on a first-com		deposit of \$300 per room, \$500 per suite. No hotel reservations will be processed without a guarantee. Cancellation deadline is seven days prior to arrival date. Late cancellations subject to forfeit of room deposit or one night's room plus tax charge.
1	6	□ Check enclosed; Check no
2	7	Payable to: Convention Management Resources
3	8	□ Visa □ MasterCard □ American Express □ Diner's Club
4	9	Card number:
		Expiration date:
5	_ 10	Cardholder's name:
		Signature:
3. Accommodations:		To register online visit www.aan.com/amrapreg
☐ Single: 1 person, 1 bed	□ Double: 2 people, 1 bed	
□ Double/Double: 2 people, 2 beds		By mail: AAN Housing/CMR
☐ Quad: 4 people, 2 beds	☐ Suite: 1 bedroom	33 New Montgomery, Suite 1420
☐ Suite: 2 bedrooms		San Francisco, CA 94105
Note: Suites are available on a lin a suite will be contacted by an AA	nited basis. All persons requesting AN Housing Consultant.	By email: aan2009housing@cmrus.com
4. Arrivals and Depar	rtures:	By phone: Credit card reservations only
-		US/Canada (800) 676-4226
Day and date of departure:		International (415) 979-2283
		By fax: Credit card reservations only (415) 979-2260
Note: Some hotels may charge a parter check-in.	penalty for departure date changes	(=10) 010-2200
		Hours:
		Monday–Friday 6:00 a.m.–6:00 p.m. (PST)

TRAVEL INFORMATION

General Information

Book your travel now to Seattle and take advantage of special airline discounts available to meeting attendees and their companions.

Airport

Seattle is served by the Seattle/Tacoma International Airport, which is located approximately 16 miles from the downtown area.

Reservations and Discounts

Carlson Wagonlit Travel

Carlson Wagonlit Travel has been selected as the official travel agency for the Annual Meeting. As the world's second-largest travel management company, Carlson Wagonlit Travel provides quality service and exceptional value. For discounted airline tickets to the Annual Meeting and all of your pre- or post-meeting vacation plans including tours, event tickets, car rental, and more, contact Carlson Wagonlit Travel at:

Phone: (866) 978-1071

Email: aanparticipants@carlsonwagonlit.com

Hours: Monday-Friday, 7:30 a.m.-5:00 p.m. CST Closed

weekends and holidays

A \$24 domestic/\$52 international per ticket service charge will be assessed.

Direct Through Airlines

You may also call your preferred airline directly and receive a 5- to 10- percent discount off regularly published fares. You must reference the AAN Annual Meeting and provide the appropriate airline discount codes listed below.

Airline	Discount Codes	Phone Number
Northwest	NM2PV	(800) 328-1111
United	585DH	(800) 521-4041
Discounts are sul	hiect to availability—boo	ok well in advance

Normal mileage and status upgrades apply for all airline programs.

Travel Updates

For travel information updates, visit the AAN Annual Meeting website at www.aan.com/am.

AAN ALLIANCE TOUR REGISTRATION

Tours Available in the Seattle Area

The AAN Alliance offers a variety of tours during the AAN's 61st Annual Meeting in Seattle. Tours are open to all Annual Meeting attendees, their families, and guests. Tours are sponsored by the AAN Alliance and operated by the Seattle Hospitality tour company. Reservations for all tours are available by advance registration only and must be received by March 25, 2009, to guarantee space.

To register, contact Seattle Hospitality Services:

Jani Lauvrak Lee 1000 Dexter Ave N Suite 502

Seattle, WA 98109 Fax: (206) 623-2540

When registering, keep the following in mind:

- Credit card, check, and money order payments will be accepted until March 25, 2009. Registrations will be accepted based on availability.
- · Advance registration is required.
- All tour buses depart from and return to the Washington State Convention and Trade Center. Please arrive 15 minutes prior to departure.
- A jacket and comfortable walking shoes are recommended for all tours.

Tour Information

Sunday, April 26

9:00 a.m.-1:00 p.m. Seattle City Highlights Tour

Monday, April 27

10:00 a.m.-3:00 p.m. Best of Seattle Tour

Tuesday, April 28

9:00 a.m.–1:00 p.m. Eastside Highlights Tour

Wednesday, April 29

11:30 a.m.–3:30 p.m. Seattle's Great Outdoors Tour

Thursday, April 30

9:00 a.m.-1:00 p.m. Seattle City Highlights Tour

Friday, May 1

10:00 a.m.–2:30 p.m. Boeing Plant and Aviation Tour

Visit www.aan.com/go/about/alliance for more details.

AAN staff contact Donna Honeyman dhoneyman@aan.com phone: (651) 695-2713 fax: (651) 361-4813

OPPORTUNITIES FOR STUDENTS, RESIDENTS, AND FELLOWS

To help build careers in neurology, the AAN 61st Annual Meeting offers a variety of opportunities to students, residents, and fellows. Annual Meeting registration for students, residents, and fellows includes scientific platform and poster sessions, Plenary Sessions, Colloquiums, Awards Luncheon, Celebration for Research, and Exhibits. Medical students and residents also receive a reduced rate for Education Programs. Medical and graduate students and PhD candidates who present a student ID card or are AAN members receive free admission to the Annual Meeting. See page 106 for registration rates for residents and fellows.

Basic Science Resident Curriculum

The resident neuroscience initiative is a concept to develop a three year basic science curriculum for residents at the Annual Meeting. The curriculum is intended to help neurology residents prepare for requirements from the Neurology Review Committee (NRC), Part I of the Neurology Boards, and the Resident In-Service Training Examination (RITE). Topics over the three year cycle are neuroanatomy, neurophysiology, neuropathology, neuropharmacology, genetics, and development. Programming will be held as two half-day courses on the first Saturday of the Annual Meeting. This year's topics are:

1AC.001 Resident Basic Science I: Neurogenetics

1PC.001 Resident Basic Science II: Neurometabolic Disorders

Residents and Fellows Luncheon

Sunday, April 26 / 12:00 p.m.-2:00 p.m.

This luncheon honors Annual Meeting Resident Scholarship recipients. The Consortium of Neurology Residents and Fellows Business Meeting is incorporated into the luncheon. Elections will be conducted for the new chair-elect position and activities for involvement within the AAN will be highlighted. Free and open to all registered residents and fellows; however, RSVP is required. To secure a seat, RSVP to Cheryl Alementi at *calementi@aan.com* by March 3, 2009.

Celebration for Research: Neurobowl®, Neuro Idol, Josh Blue on Main Stage, and Neuro Hop

Sunday, April 26 / 6:30 p.m.-10:30 p.m.

See page 22 for details.

Residents and Fellows Career Forum and Reception

Monday, April 27 / 6:30 p.m.-9:00 p.m.

Learn how to search for a fellowship, how program directors select fellows, and how a fellowship could benefit your career. Find out how to start a career in academics/research and private practice. Socialize with other residents and fellows as well as representatives from various neurology programs and learn about potential positions from headhunters. Advertisers in AAN DendriteTM Careers in Neurology will also be on hand to discuss job opportunities.

NEW International Component Posters

Programs that feature an international element will have the opportunity to showcase their programs. Free and open to all meeting registrants. See page 26 for more information.

American Board of Psychiatry and Neurology Resident Informational Session

Monday, April 27 / 5:00 p.m.-6:30 p.m.

Meet members of the American Board of Psychiatry and Neurology (ABPN). The panel will discuss all aspects of the neurology boards and what is expected from candidates. Free and open to all meeting registrants.

SIGN Meeting and Reception

Monday, April 27 / 5:30 p.m.-6:30 p.m.

Student and faculty representatives from existing Student Interest Groups in Neurology (SIGN) chapters and those interested in starting chapters will gather for presentations and discussions. This is free and open to all medical students.

American Academy of Neurology and American Academy of Neurology Foundation Awards Luncheon

Wednesday, April 29 / 12:00 p.m.–1:30 p.m. Sheraton Grand Ballroom AD

Join AAN leaders as they honor the recipients of the 2009 AAN Awards. From enterprising high school students to world renowned researchers, this program recognizes some of the top accomplishments in neuroscience research. See page 53 for more information.

Resident/Medical Student Rush Line

Check in at the Special Registration Services Booth each morning for tickets to available courses for that day. Two tickets will be held for each course, available on a first-come, first-served basis. Eligible participants are limited to one free course per day, two free courses for the week unless there are unclaimed tickets ten minutes prior to a course starting. The program is available for half-day and full-day courses, case-study programs, and kick-off and therapy programs. Seminars, workshops, and luncheons are not included.

Opportunities to Save Money: Education and Scientific Program Monitors, EMG Workshop Volunteers (see page 105). Discount for Syllabi on CD if ordered before Annual Meeting (see page 106).

EXHIBITOR LISTING

The AAN would like to acknowledge the following exhibitors' participation in the 61st Annual Meeting, Exhibit Hours / Monday, April 27, 5:00 p.m.–7:00 p.m. / Tuesday, April 28, 11:30 a.m.–5:00 p.m. / Wednesday, April 29, 11:30 a.m.–5:00 p.m. / Thursday, April 30, 11:30 a.m.–4:00 p.m.

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(901) 381-7400

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American Association of Neuromuscular and Electrodiagnostic Medicine (507) 288-0100

American Board of Psychiatry &

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American Epilepsy Society (860) 586-7505

American Parkinson Disease

Association (718) 981-8001

American Stroke Association, Division of the American Heart

Association (214) 706-1882

Applied Neuro Tech (714) 771-4502

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(520) 529-2000

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National Ataxia Foundation (763) 553-0020

National Headache Foundation (888) 643-5552

National Institute of Neurological Disorders and Stroke (NINDS) (301) 496-5751

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Cheryl Alementi Administrator, Education

Bridget Farley

Manager, Exhibits and Corporate Relations

Sarah Glover

Specialist, Conference Management

Julie Grenas

Senior Specialist, Education Programming

Andy Halverson

Promotions Project Manager, Research,

Education and Development

Kevin Heinz

Senior Manager, Education and Science

Terry Heinz

Administrator, Grants and Research

Erin Jackson

Senior Administrator, Scientific Programs

Kvle Krause

Administrator, Science

Valerie Mendoza

Manager, Conference Management

Tina Novack

Senior Administrator, Center for Research,

Education and Development

Lucy Persaud

Program Manager, Education

Nancy Poechmann

Program Manager, Education

Julie Ratzloff

Manager, Convention Planning

Naomi Reeves

Administrator, Programming and Logistics

Franziska Schwarz

Senior Administrator, Conference Management

Lori Strachota

Program Manager, Conference Management

Kristyn Timmers

Administrator, Grants and Research

Wendy Vokaty

Specialist, Research, Education and

Development

OFFICES AND HOURS OF OPERATIONS*

AAN Alliance Booth and Registra WSCC West Lobby (6th floor)		Housing Desk WSCC South Lobby (4th floor)	
Saturday, April 25 – Friday, May 1	8:30 a.m.–4:00 p.m.	Saturday, April 25–Thursday, April 30 Friday, May 1	
AAN Foundation Booth		•	·
WSCC East Lobby (6th floor)		Lost and Found	
Saturday, April 25–Friday, May 1	8:00 a m –6:00 p m	WSCC Registration South Lobb	y (4th floor)
Saturday, May 2	-	(see hours under Registration)	,
AAN Information Booth		Meeting Administration Office	
WSCC South Galleria (4th floor)		WSCC Room 601	
Saturday, April 25,	8:00 a.m.–7:00 p.m.	Saturday, April 25	8:00 a.m.–6:30 p.m
Sunday, April 26–Friday, May 1		Sunday, April 26	6:00 a.m6:30 p.m
Saturday, May 2	6:30 a.m1:00 p.m.	Monday, April 27	
		Tuesday, April 28	
The AAN Store		Wednesday, April 29–Friday, May 1	
WSCC South Lobby (4th floor)		Saturday, May 2	6:00 a.m.–1:00 p.m
Saturday, April 25	8:00 a.m.–7:00 p.m.		
Sunday, April 26-Friday, May 1		Sheraton Meeting Administration	on Office
Saturday, May 2	8:00 a.m.–1:00 p.m.	SHE Room Spruce	
		Saturday, April 25	
Bookbag Distribution		Sunday, April 26	•
WSCC Room 657 (6th floor)		Monday, April 27	•
Saturday, April 25–Sunday, April 26	8:00 a m =7:00 n m	Tuesday, April 28 Wednesday, April 29	
Monday, April 27–Thursday, April 30		Thursday, April 30	
Friday, May 1	· · · · · · · · · · · · · · · · · · ·	mursuay, April 50	6:00 p.m.–7:30 p.m
		Friday, May 1	
BrainPAC Booth		Saturday, May 2	
WSCC South Lobby (4th floor)			
Saturday, April 25–Friday, May 1	8:00 a m =6:00 n m	Grand Hyatt Meeting Administr	ation Office
Saturday, May 2		HYT Room Favorita	
		Saturday, April 25	
Coat and Baggage Check		Sunday, April 26	
WSCC Room 202 (2 nd floor)		Monday, April 27Tuesday, April 30	
Saturday, April 25,		Friday, May 1	
Sunday, April 26–Monday, April 27		Saturday , May 2	
Tuesday, April 28	6:00 a.m.–8:00 p.m.		
Wednesday, April 29–	0.00 40.00	Membership	
Thursday, April 30 Friday, May 1		WSCC South Lobby (4th floor)	
Saturday, May 2	•	Saturday, April 25	0.00 7.00
Catal day, may 2	1.00 p.m.	Sunday, April 26—Friday, May 1	
Center for Health Policy Booth		Saturday, May 2	
WSCC South Lobby (4th floor)		,, <u>-</u>	0.00 0
Saturday, April 25–Friday, May 1	8·00 a m _6·00 n m		
Saturday, April 25–Friday, May 1 Saturday, May 2			
Exhibitor Registration			
WSCC South Lobby (4th floor)			

Sunday, April 26-Wednesday, April 29.......6:30 a.m.-6:30 p.m. Thursday, April 306:30 a.m.-12:00 p.m.

Neurology Community Information 4th Floor, Exhibit Hall

Press Room WSCC Room 309/310

Saturday, April 25–Sunday, April 26	8:00 a.m.–6:00 p.m.
Monday, April 27-Thursday, April 30	7:30 a.m.–6:00 p.m.
Friday, May 1	8:00 a.m12:00 p.m.

Registration

WSCC South Lobby (4th floor)	
Saturday, April 25-Sunday, April 26	8:00 a.m7:00 p.m.
Monday, April 27-Thursday, April 30	6:30 a.m6:30 p.m.
Friday, May 1	6:30 a.m9:00 a.m.

Speaker Ready Room WSCC 618/619/620

Saturday, April 25	8:00 a.m.–6:30 p.m.
Sunday, April 26	. 6:00 a.m.–6:30 p.m.
Monday, April 27	6:00 a.m.–8:00 p.m.
Tuesday, April 28	6:00 a.m.–6:00 p.m.
Wednesday, April 29-Friday, May 1	6:00 a.m.–7:30 p.m.
Friday, May 1	8:00 a.m.–7:30 p.m.
Saturday, May 2	6:00 a.m1:00 p.m.

Sheraton Speaker Ready Room SHE Douglas

Saturday, April 25	8:00 a.m.–6:30 p.m.
Sunday, April 26	6:00 a.m.–6:30 p.m.
Monday, April 27	6:00 a.m6:30 p.m.
Tuesday, April 28	6:00 a.m.–5:30 p.m.
Wednesday, April 29	6:00 a.m.–8:30 a.m.
Thursday, April 30	6:00 a.m.–8:30 a.m. and
	6:00 p.m.–7:30 p.m.
Friday, May 1	6:00 a.m.–5:30 p.m.
Saturday, May 2	8:00 a.m.–1:00 p.m.

Grand Hyatt Speaker Ready Room HTY Portland A

Saturday, April 25	8:00 a.m5:30 p.m.
Sunday, April 26	8:00 a.m6:30 p.m.
Monday, April 27	8:00 a.m8:00 p.m.
Tuesday, April 28-Thursday, April 30	1:00 p.m.–6:30 p.m.
Friday, May 1	8:00 a.m7:30 p.m.
Saturday, May 2	closed

Internet and Message Center International Meeting Place (3rd floor)

Saturday, April 25	8:00 a.m7:00 p.m.
Sunday, April 26-Friday, May 1	6:30 a.m.–7:00 p.m.
Saturday, May 2	6:30 a.m.–1:00 p.m.

NOTES:

IMPORTANT ANNUAL MEETING INFORMATION

Registration and Hotel Reservation Deadline: March 20, 2009

Registration and Hotel and Travel Reservations: www.aan.com/am

Registration and Hotel

Mail:

AAN Registration and Housing c/o CMR 33 New Montgomery, Suite 1420 San Francisco, CA 94105

Fax:

Credit card reservations only (415) 979-2260

Phone:

Credit card reservations only US/Canada (800) 676-4226 International (415) 979-2283

Email:

Registration: aan2009reg@cmrus.com Housing: aan2009housing@cmrus.com

Hours:

Monday-Friday

6:00 a.m.-6:00 p.m. Pacific Standard Time

Travel

Airline Reservations:

Carlson Wagonlit Travel

Phone:

(877) 317-0006

Fax:

(866) 914-2817

Email:

aanparticipants@carlsonwagonlit.com

Hours:

Monday–Friday, 7:30 a.m.–5:00 p.m. CST Closed weekends and holidays

Suggest an Education Program for Upcoming Meetings

2010 Annual Meeting: Toronto

The AAN invites you to submit an Education Program suggestion for the 62nd Annual Meeting, April 10 through April 17, 2010, in Toronto. Proposals for new programs are due by May 8, 2009.

Submit a proposal via the Annual Meeting website at www.aan.com/am.

For questions or more information on the Annual Meeting Education Program, contact Naomi Reeves at *nreeves@aan.com* or (651) 695-2814.



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REGISTER EARLY

The deadline for registering without incurring increased general registration and Education Program fees is March 20, 2009. Registrations received after March 20, 2009, will not be processed and will need to be handled on-site beginning at 8:00 a.m. on Saturday, April 25, 2009, at the Washington State Convention and Trade Center.

Visit the Annual Meeting Online

Visit the AAN Annual Meeting website at www.aan.com/am to:

- Register for the Annual Meeting
- · Make travel and hotel arrangements
- Search the Education Program
- · Learn more about special events
- Submit abstracts
- Apply for awards

Upcoming Annual Meeting Dates

2010: TorontoApril 10–April 17

2011: Honolulu April 9–April 16

2012: New Orleans April 21–April 28