

# 2026 Abstracts of Distinction

Distinction is awarded to the top-rated abstract in each topic category. The 25 abstracts below have been selected for the merit of distinction based on the quality of study and interest to the neurologic community.

## Aging, Dementia, and Behavioral Neurology

### **S1 - New Perspectives on Alzheimer's Therapeutics, Sunday, April 19, 2:48 p.m.–3:00 p.m. CT**

Inhibition of Amyloid- $\beta$  and  $\alpha$ -Synuclein Oligomer-Induced NLRP3 Inflammasome Activation by NDGA in Microglia: A Promising Anti-inflammatory Strategy for Neurodegeneration

Anh Hoang, Sneha Padmanaban, Anand Rane, Julie K. Andersen, Shankar J. Chinta

## Autoimmune Neurology

### **S16 - Autoimmune Neurology: Immune Profiling and Antibody Detection, Monday, April 20, 1:12 p.m.–1:24 p.m. CT**

Autoantibody Profiling of Paraneoplastic Neurological Syndrome Sera Reveals ERVK7-IgG as a Germ Cell Tumor Associated Biomarker

Haidara Kherbek, M Bakri Hammami, Andrew Knight, Brian Costello, Silvana DeLorenzo, Bradley Leibovich, John Cheville, Yong Guo, Jessica Sagen, Janet Olson, Alicia Algeciras-Schimmich, Sean Pittcock, John Mills, Surendra Dasari, Divyanshu Dubey

## Autonomic Disorders

### **P10 - Poster Session 10, Wednesday, April 22, 8:00 a.m.–9:00 a.m. CT**

Glial Fibrillary Acidic Protein in Multiple System Atrophy

Wolfgang Singer, Ann Schmeichel, Pinaki Misra, Shannen Griffiths, Jennifer Anderson, David Sletten, Tonette Gehrking, Jade Gehrking, Prashanthi Vemuri, Phillip Low

## Cerebrovascular Disease and Interventional Neurology

### **S31 - Stroke Risk Factors, Outcomes, and Prevention, Tuesday, April 21, 3:30 p.m.–3:42 p.m. CT**

COPE: Chain-of-thought Prediction Engine for Open-source Large Language Model Based Stroke Outcome Prediction from Clinical Notes

Yongkai Liu, Helena Feng, Bin Jiang, Max Wintermark, David Liebeskind, Michael Moseley, Maarten Lansberg, Gregory Albers, Jeremy Heit, Greg Zaharchuk

## Child Neurology and Developmental Neurology

### **S24 - State of the Art Diagnostics in Child Neurology, Tuesday, April 21, 1:00 p.m.–1:12 p.m. CT**

Multomic Dissection of Large Exome-sequenced Chiari I Malformation Cohort Reveals Convergent PI3K–AKT–mTOR and Chromatin Remodeling Pathways

Garrett Allington, Evan Dennis, Kedous Mekbib, Qiang Li, Kristopher Kahle

## Education, Research, and Methodology

### **S27 - Research and Innovations in Neurology Education, Tuesday, April 21, 1:00 p.m.–1:12 p.m. CT**

Building a Community of Neurology Practice: An Exploration of the Transition from Noon Conference to a Flipped-Classroom Academic Half-day Model

Casey Albin, Harry Sutherland, Keenan Davis, Iram Zaman, Abdelrahman Elfaham, Ashhar Ali

### **Epilepsy/Clinical Neurophysiology (EEG)**

#### **S29 - Epilepsy: Basic Science and Mechanisms, Tuesday, April 21, 3:30 p.m.–3:42 p.m. CT**

Paired Regional Electrophysiologic Mapping and Single-Nucleus RNA Sequencing in Focal Epilepsies Reveal Distinct Cellular and Molecular Characteristics in the Seizure Focus and Penumbra

Ashwin Viswanathan, Molly Murch, Abby Brand, Julia Furnari, Archana Yadav, Nathaniel Rolfe, Clara Stucke, Aayushi Mahajan, Juncheng Li, Osama Al-Dalahmah, Jeffrey Bruce, Brian Gill, Brett Youngerman, Neil Feldstein, Guy McKhann, Peter Canoll, Catherine Schevon, Vilas Menon, Melodie Winawer

### **General Neurology**

#### **P2 - Poster Session 2, Sunday, April 19, 11:45 a.m.–12:45 p.m. CT**

Diagnostic Yield of Rapid Whole Genome Sequencing in Hospitalized Adults with Unexplained Neurological Manifestations

Manouchehr Amanat, Michel Toledano, Lisa Schimmenti, Pavel Pichurin, David Deyle, Ethylin Jabs, Radhika Dhamija

### **Global Health and Neuroepidemiology**

#### **S4 - Hot Topics in Global Health and Neuroepidemiology, Sunday, April 19, 1:24 p.m.–1:36 p.m. CT**

A Human-centered Design Approach to Implementing Community-based Stroke Rehabilitation Services in Lusaka Zambia

Shuait Nair, Malya Sahu, Allison Kuehn, Diwell Mwansa, Emmanuel Mukambo, Madalitso Nthere, Michael Kinkata, William Tembo, Tamia Banda, Theresa Shankanga, Laura Beres, Deanna Saylor

### **Headache**

#### **S23 - Hot Topics in Headache Medicine, Tuesday, April 21, 2:36 p.m.–2:48 p.m. CT**

Global Burden of Headache Disorders in Older Adults (Aged  $\geq 55$  Years) from 1990-2021: An Analysis of Epidemiology, Trends, and Socioeconomic Disparities

Ayesha Sohail, Vionita Valeriana, Wei Wang

### **History of Neurology**

#### **S35 - History of Neurology, Wednesday, April 22, 11:39 a.m.–11:51 a.m. CT**

Karl Kleist: The Forgotten Architect of the Human Connectome

Ayush Tripathy, Shreya Tripathy

### **Infectious Disease**

#### **S9 - Neuroinfectious Disease: Associations and Outcomes, Sunday, April 19, 3:30 p.m.–3:42 p.m. CT**

Clinical and Post-acute Features of Powassan Virus Encephalitis in a High-volume Northeastern Hospital System

George Harrold, Erik Klontz, Karan Singh, Isaac Solomon, Jacob Lemieux, Shibani Mukerji, John Branda

### **Movement Disorders**

#### **PL5 - Clinical Trials Plenary Session, Tuesday, April 21, 9:15 a.m.–9:30 a.m. CT**

Maintenance of Response and Durability of Effect with Ulixacaltamide in Essential Tremor: Topline Phase 3 Results from Essential3 Study 2 (Randomized Withdrawal Study)

Jill Farmer, Salima Brillman, Alexander Shtilbans, Monique Giroux, Melanie Fridley, Kimberly Crimin, Minao Tang, Taylor Crush, Claudio Santos, Steven Petrou, Alyssa Wyant, Megan Sniecinski, Marcio Souza

## Multiple Sclerosis

### **S40 - Multiple Sclerosis: Clinical Trials/Science and Real-world Evidence**

**Wednesday, April 22, 1:00 p.m.–1:12 p.m. CT**

ORATORIO-HAND: Results of the Primary Analysis of Ocrelizumab vs Placebo in Primary Progressive Multiple Sclerosis, Including Older Patients and Those with More Advanced Disease

Gavin Giovannoni, Laura Airas, Riley Bove, Gary Cutter, Jeremy Hobart, Jens Kuhle, Xavier Montalban, Carmen Tur, Jerry Wolinsky, Hans-Martin Schneble, Anna Baldinotti, Ulrike Bonati, Caroline Giacobino, Qing Wang, Ke Yang, Jiwon Oh

## Neuro Trauma and Sports Neurology

### **S34 - Neuro Trauma and Sports Neurology, Wednesday, April 22, 11:15 a.m.–11:27 a.m. CT**

Subjective and Objective Sleep Quality Independently Predict Persistent Post-concussion Symptoms

Rida Ismail, Akshata Kapadne, Christopher Giza, Kevin Bickart

## Neurocritical Care

### **S21 - Neurocritical Care, Tuesday, April 21, 1:24 p.m.–1:36 p.m. CT**

Machine Learning Models to Predict Withdrawal of Life-sustaining Therapy in Patients with Severe Traumatic Brain Injury

Michael Cobler-Lichter, Jessica Delamater, Fernanda Jacinto Pereira Teixeira, Ana Reyes, Talia Arcieri, Brian Manolovitz, John McKeown, Tulay Toru-Sengul, Jonathan Jagid, Joacir Gracioli, Nina Massad, Mohan Kottapally, Amedeo Merenda, Kristine O'Phelan, Nicholas Namias, Ayham Alkhachroum

## Neurohospitalist

### **S36 - Neurohospitalist, Wednesday, April 22, 11:15 a.m.–11:27 a.m. CT**

Improving Quality for Inpatient Neurology: Customizing a Dynamic Neurology-specific Key Performance Indicators Dashboard Leveraging Health System Data Streams Technology

Brinda Raval, Pojen Deng, Michael Caruso, Andrew Henshaw, Shraddha Gandhi, Shanna Patterson

## Neuromuscular and Clinical Neurophysiology (EMG)

### **S2 - Updates on Motor Neuron and Peripheral Nerve Disorders, Sunday, April 19, 2:24 p.m.–2:36 p.m. CT**

Safety and Efficacy of Riliprubart, an Activated C1s-Complement Inhibitor in CIDP: 76-week Phase 2 Trial Results

Luis Querol, Richard A. Lewis, Hans-Peter Hartung, Pieter A. van Doorn, Jie Lin, Annie Dionne, Shahram Attarian, Erik Wallstroem, Kristen Auwarter, Yi Lu, Miguel Alonso-Alonso, Nazem Atassi, Richard A. C. Hughes

## Neuro-oncology

### **S13 - Neuro-oncology: Advances in Diagnosis and Treatments, Monday, April 20, 1:12 p.m.–1:24 p.m. CT**

Diagnostic Utility and Prognostic Significance of Circulating Tumor Cell Assay CNSide in Patients with Suspicion for Leptomeningeal Metastases

Shreya Louis, George Nageeb, Seema Nagpal, David Rogawski

## Neuro-ophthalmology/Neuro-otology

### **S18 - Neuro-ophthalmology/Neuro-otology, Monday, April 20, 4:06 p.m.–4:18 p.m. CT**

Efficacy of Lenadogene Nolpharovec Gene Therapy Versus Idebenone: A Matched Adjusted Indirect Comparison

Valerie Biousse, Patrick Yu-Wai-Man, Nancy Newman, Valerio Carelli, Adeline Pierache, Francois Montestruc, Magali Taiel, Jose-Alain Sahel

### Neuro-rehabilitation

**S17 - Neuro-rehabilitation: Expanding Therapeutic Approaches, Monday, April 20, 3:30 p.m.–3:42 p.m. CT**

High-frequency PT in Acute Stroke Inpatients: Implementation and Early Outcomes (BID-FAST)

Alexander Vorobyev, Walaa Elsekaily, Elizabeth Blalock, Mahnoor Islam, Zachary Thomas, Christine Holmstedt, Sinead Farrelly

### Pain

**S38 - Pain, Wednesday, April 22, 11:51 a.m.–12:03 p.m. CT**

Opioid Signaling in DRG Neurons – New Players in the Side Effects of Chronic Opioid Use

Nino Gogvadze, Hsiang-En Wu, Tsung-Ping Su

### Palliative Care

**P1 - Poster Session 1, Sunday, April 19, 8:00 a.m.–9:00 a.m. CT**

Hidden from View: Assessing Psychological Sequelae of Carepartners of Anoxic Brain Injury Survivors

Andrew Huang, Sule Yilmaz, Yuehan Zhang, Stanzen Idzes, Benzi Kluger

### Practice, Policy, and Ethics

**S12 - Practice, Policy, and Ethics, Monday, April 20, 2:36 p.m.–2:48 p.m. CT**

Completion Rate and Feasibility of Converting AAN Multiple Sclerosis Quality Measures to Digital Measures

Samantha Tidd, Sarita Walvekar, Saswat Sahoo, Kelly Bowen, Mengke Du, Adam Webb, Marisa McGinley

### Sleep

**S3 - Research Advances in Sleep and Clinical Impact, Sunday, April 19, 2:00 p.m.–2:12 p.m. CT**

Tracking Sleep-linked Brain Fluid Dynamics Using Modified fNIRS: A Novel Noninvasive Window into Glymphatic Function

Sujasha Gupta, Srijita Seenivasan, John Kent Werner