Learning Objectives

The 2021 CNS Scientific Program

The CNS Scientific Program is designed by and is primarily intended for child neurologists and professionals in other fields of study related to neurologic and developmental disorders in children and adolescents. “As a result of attending this meeting the physician will be better able to care for children with neurological disease through an understanding of recent advances in neuroscience, neuro-diagnostics and therapeutics relevant to child neurology.”

Accreditation Statement

This activity has been approved for AMA PRA Category 1 Credit™.

SESSIONS highlighted in red are designated for CME credit. Final determination of courses accredited and total # of credits approved will be available when registration opens in mid July.

PHILLIP L. PEARL, MD, PRESIDENT, CNS
CARL STAFSTROM, MD, PHD, CHAIR & YASMIN KHAKOO, MD, CO-CHAIR, CNS SCIENTIFIC SELECTION AND PROGRAM PLANNING COMMITTEE
Wednesday, September 29

8:00 AM – 11:00 AM
SYMPOSIUM I:
CHILD NEUROLOGY FOUNDATION:
SHORTENING THE DIAGNOSTIC
ODYSSEY IN CHILDREN WITH
NEUROLOGIC CONDITIONS

Supported by the Child Neurology Foundation

Organizer:
Child Neurology Foundation

Welcome
Scott L. Pomeroy, MD, PhD
Harvard Medical School,
Boston Children’s Hospital,
Boston, MA

Utilizing the Latest Information and Technology to Diagnose and Treat Neurologic Conditions

How a Whole Genome Sequencing Opportunity Impacted 25 Children, Caregivers and their Medical Providers
Anup D. Patel, MD, FAAN, FAES
Nationwide Children’s Hospital,
Columbus, OH

Getting from Gene to Treatment and Disease-Specific Clinical Trials
Erika Augustine, MD, MS
Kennedy Krieger Institute,
Baltimore, MD

Possibilities with N of 1 Trials
Christelle Moufawad El Achkar, MD
Boston Children’s Hospital,
Harvard Medical School,
Boston, MA

Participant Reflections

Break

How to Support Families Through the Journey

How to Handle the Various Journeys
Heather C. Mefford, MD, PhD
St. Jude Children’s Research Hospital, Memphis, TN

Empowering Families to be Advocates: Panel Discussion

Moderator:
Annapurna Poduri, MD, MPH
Boston Children’s Hospital,
Harvard Medical School,
Boston, MA

Panel:
Anne Berg, PhD
Northwestern University Feinstein School of Medicine, Chicago, IL

Louise Bier, MS, CGC
Columbia University,
New York, NY

Krista Harding
National Multiple Sclerosis Society, Minneapolis, MN

Adam L. Hartman, MD
National Institute of Neurological Disorders and Stroke, NIH,
Rockville, MD

Closing Comments & Next Steps
Scott L. Pomeroy, MD, PhD
Harvard Medical School,
Boston Children’s Hospital,
Boston, MA

11:30 AM – 1:30 PM
KENNETH F. SWAIMAN
CNS LEGACY LUNCHEON

Welcome and Introduction
Phillip L. Pearl, MD
President, Child Neurology Society

Recognition of Past CNS Presidents

Recognition of Past CNS Secretary-treasurers and Councillors

Presentation of 2021 Arnold P. Gold Foundation Humanism in Medicine Award
Mary L. Zupanc, MD, FAAN, FAAP
University of California-Irvine, CHOC Children’s Hospital, Irvine, CA

Recognition of Past Gold Humanism Award Recipients

Presentation of 2021 Roger & Mary Brumback Lifetime Achievement Awards
Robert J. Baumann, MD, FAAN, FAAP; University of Kentucky, Lexington, KY

Sidney M. Gospe, Jr, MD, PhD
University of Washington, Seattle, WA

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.
Recognition of Past Roger & Mary Brumback Lifetime Achievement Award Recipients

Recognition of Past Bernard Sachs Award Lecturers

Recognition of Past Hower Award Lecturers

Presentation of 2021 CNS/PECN Training Director Award
Miya Asato, MD
University of Pittsburgh, Pittsburgh, PA

Recognition of Past CNS/PECN Training Director Award Recipients

Recognition of Past Phillip R. Dodge Young Investigator Award Recipients

Recognition of Past Outstanding Junior Member Award Recipients

Presentation of 2021 Outstanding Junior Member Awards

Rhandi Christensen, MD, PhD
Pediatric Neurology, University of Toronto, The Hospital for Sick Children, Toronto, ON

Darius Ebrahimi-Fakhari, MD, PhD
Boston Children’s Hospital & Harvard Medical School, Boston, MA

Laura Gilbert, DO, MBA
Washington University in St. Louis, St. Louis Children’s Hospital, St. Louis, MO

Hannah Wellman, MD
University of Colorado, Aurora CO

Presentation of Outstanding Junior Member Award-Post Graduate

Eric M. Chin, MD
Kennedy Krieger Institute, Johns Hopkins University School of Medicine, Baltimore, MD

Thiviya Selvanathan, MD FRCPC
The Hospital for Sick Children, Toronto, ON
Presentation of M. Richard Koenigsberger Scholarship Award
Jennifer Keene, MD, MS, MBA
Washington University in St Louis, St Louis, MO

Presentation of Bhuwan Garg High School Student Neuroscience Award
Meagan Ryan, Ossining, NY

2:00 PM – 5:00 PM
PROFESSORS & EDUCATORS OF CHILD NEUROLOGY (PECN) MEETING
Organizer:
Nancy Bass, MD
Rainbow Babies and Children’s Hospital, Cleveland, OH

PECN: Business Meeting (1 hour)

Introduction and Agenda
Nancy Bass, MD

CNS/PCN Leadership and Diversity Task Force Update
Rujuta Wilson, MD
UCLA David Geffen School of Medicine, Los Angeles, CA

Treasurer Report
Karl Kuban, MD
Boston University Medical Center, Boston, MA

Match Report
Leon Dure, MD
University of Alabama at Birmingham, Birmingham, AL

CNCDP-K12 Report
Brad Schlaggar, MD, PhD
Kennedy Krieger Institute, Baltimore, MD

Updates AAP Section of Pediatric Neurology
Tim Lotze, MD
Baylor College of Medicine, Houston, TX

Updates AAN Section of Child Neurology
David Mandelbaum, MD, PhD
Brown University, Providence, RI

Q & A

PECN: NEUROLOGY EDUCATION REBOOT: BEYOND THE PANDEMIC
(2 hours of CME Content)
Organizer:
Nancy Bass, MD

Development and Implementation of a Virtual Learning Curriculum
Jessica Goldstein, MD
Rainbow Babies & Children’s Hospital, Case Western Reserve University School of Medicine, Cleveland, OH

CNS Electronic Communication Committee: Educational Tools: Case Studies/Pod Casts/Telemedicine Tool Kit
David Hsieh, MD
San Antonio, TX, USA

Introduction to the Neuroequity Coalition: Transitions into a Residency Curriculum
Deonna Reese-White, MD, MBA
Dell Medical School, Austin, TX
Roxanna Nahvi, MD
New York Medical College, New York, NY

Virtual Interviewing Season: Moving Forward Past the Pandemic
Margie Ream, MD, PhD
Nationwide Children’s Hospital, Columbus, OH

2:15 PM – 3:30 PM
SEMINAR 1: LESSONS LEARNED FROM ESTABLISHING AN ADULT TRANSITION CLINIC
Organizer:
Julia Frueh, MD
Boston Children’s Hospital, Boston, MA
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A Roadmap to Successful Transition in Neurology
Ann Tilton, MD, FAAN, FANA
Children’s Hospital of New Orleans, New Orleans, LA

Hello from the Other Side – Lessons Learned from Building an Adult NDD Clinic from the Ground Up – Discussing Process and Impact
Jessica Sanders, MD
Children’s Hospital Colorado, Denver, CO

Leveraging Strengths and Experiences – Teaching the Next Generation of Neurologists to Care for Adults with IDD through an Innovative Approach: NDD/Child Neurology Attendings Supervised Adult Neurology Residents, while Adult Neurology Attendings Supervised Child Neurology/NDD Trainees in a Collaborative Adult NDD Clinic
David K. Urion, MD, FAAN
Boston Children’s Hospital, Boston, MA

2:30 PM – 3:30 PM
PLATFORM SESSION 1

2:30 PM – 2:45 PM
PL1-1: Bruckert et al
White Matter Properties of the Optic Pathway in Children with Neurofibromatosis Type 1 with and without Optic Pathway Gliomas

2:45 PM – 3:00 PM
PL1-2: Garcia et al
Clinical, Pathological, and Molecular Characteristics of Diffuse Spinal Cord Gliomas

3:00 PM – 3:15 PM
PL1-3: Song et al
Targeting USP7 as a Novel Treatment in Malignant Glioma

3:15 PM – 3:30 PM
PL1-4: Sansevere et al
Early Quantitative EEG Biomarkers of Cerebral Injury in Pediatric Cardiac Arrest

4:00 PM – 5:00 PM
PLATFORM SESSION II

4:00 PM – 4:15 PM
PL2-1: Barks et al
The ALIGN Framework: A Parent-informed Approach to Prognostic Communication

4:15 PM – 4:30 PM
PL2-2: Selvanathan et al
Stroke Location and Size in Infants with Congenital Heart Disease and Neurodevelopmental Outcomes

4:30 PM – 4:45 PM
PL2-3: Christensen et al
Cerebral Sinovenous Thrombosis in Preterm Infants

4:45 PM – 5:00 PM
PL2-4: Cornet et al
Neonatal Encephalopathy following SSRI Exposure in the Third Trimester of Pregnancy: A Population-based Study

4:00 PM – 5:15 PM
SEMINAR 2: UPDATES IN PEDIATRIC COVID-19 FOR THE PEDIATRIC NEUROLOGIST

Organizer:
Grace Gombolay, MD
Emory University, Children’s Healthcare of Atlanta, Atlanta, GA

Neuropsychiatric Symptoms and Cytokines in Pediatric COVID-19 Patients
Grace Gombolay, MD

Neurological Manifestations of COVID-19 in Critically Ill Pediatric Patients
Kerri LaRovere, MD
Boston Children’s Hospital, Harvard Medical School, Boston, MA

Neuroimaging Features in Pediatric COVID-19 Patients
Susan Palasis, MD
Ann & Robert H. Lurie Children’s Hospital of Chicago, Northwestern University Feinberg School of Medicine, Chicago, IL

6:00 PM-7:30 PM
WELCOME RECEPTION

Financial support provided by 2021 Local Host, the Department of Neurology, Boston Children’s Hospital

8:00 PM-10:00 PM
MOVEMENT DISORDERS SIG
Thursday, September 30

7:00 AM – 8:00 AM
PLATFORM SESSION III, IV & V

PLATFORM SESSION III
7:00 AM – 7:15 AM
PL3-1: Ebrahimi-Fakhari et al
Systematic Analysis of Brain MRI Findings in Adaptor Protein Complex 4 – associated Hereditary Spastic Paraplegia Reveals Patterns for Diagnosis and Disease Progression

7:15 AM – 7:30 AM
PL3-2: Deisseroth et al
Integrated Phenotypic and Mutational Approach Defines EBF3-related HADD Syndrome Genotype-phenotype Relationships

7:30 AM – 7:45 AM
PL3-3: Rouabhi et al
Initial pH and Eventual Cerebral Palsy Status and Phenotype: A Case-Control Study

7:45 AM – 8:00 AM
PL3-4: Gilbert L
Top 10 Areas of Research Need for People with Cerebral Palsy and Dystonia: A Novel Community-driven Agenda

PLATFORM SESSION IV
7:00 AM – 7:15 AM
PL4-1: Wellman et al
Multicenter Study of The Impact of Infections Including COVID-19 on the Incidence of Acute Inflammatory Demyelinating Polyneuropathy in Children

7:15 AM – 7:30 AM
PL4-2: Mallack et al
Early Natural History of Presymptomatic Childhood Cerebral Adrenoleukodystrophy

7:30 AM – 7:45 AM
PL4-3: Eichler et al
Outcomes in 51 Patients with Cerebral ALD from 2 Studies of Elivaldogene Autotemcel (eli-cel; Lenti-D) Gene Therapy

7:45 AM – 8:00 AM
PL4-4: Bonkowsky et al
Vitamin D Status & Latitude Predict Brain Lesions in Adrenoleukodystrophy

PLATFORM SESSION V
7:00 AM – 7:15 AM
PL5-1: Klein et al
Characterizing Pediatric Small-Fiber Neuropathy to Develop a Case Definition

7:15 AM – 7:30 AM
PL5-2: Baumer et al
Disparities in Receipt of Standard Treatment for Infantile Spasms: A Call to Action

7:30 AM – 7:45 AM
PL5-3: Numis et al
Inflammatory Cytokine Levels are Associated with Non-response and Relapse of Infantile Spasms

7:45 AM – 8:00 AM
PL5-4: Ciliberto et al
Palliative Epilepsy Surgery is not a Last Resort: Data from the Pediatric Epilepsy Research Consortium (PERC) Surgical Database

WELCOME & GENERAL SESSION
8:30 AM – 11:45 AM
SYMPOSIUM II:
PRESIDENTIAL SYMPOSIUM:
THE CNS AT 50!
PAST, PRESENT, AND FUTURE

Organizer:
Phillip Pearl MD
President, CNS
Harvard Medical School and Berklee Institute of Music, Boston, MA

Historical Development of Child Neurology
Stephen Ashwal MD
Loma Linda University School of Medicine, Loma Linda, CA

CNS State of the Union
Phillip Pearl MD
President, CNS

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.
The Future: Young Investigators SIG Representatives:
Studies in Developmental Cognitive Neuroscience
Alexander Li Cohen, MD, PhD
Boston Children’s Hospital, Boston, MA

Studies in Movement Disorders
Darius Ebrahimi-Fakhari, MD, PhD
Boston Children’s Hospital, Harvard Medical School, Boston, MA

Studies in Epilepsy Genetics
Christopher J. Yuskaitis, MD, PhD
Boston Children’s Hospital and Harvard Medical School, Boston, MA

Studies in Neuro-oncology
Christopher J. Yuskaitis, MD, PhD
Boston Children’s Hospital and Harvard Medical School, Boston, MA

From Pellock Fellow to Pellock Faculty, Studies in Epilepsy
Giulia Benedetti, MD
Seattle Children’s Hospital, University of Washington, Seattle, WA
Thursday, September 30 • CONTINUED

**Round Table:**
**Future Directions in Cerebral Palsy and Child Neurology**

**Moderator:**
Bhooma Aravamuthan, MD, DPhil
Washington University in St. Louis School of Medicine,
St. Louis, MO

**Panel:**
Young-Min Kim, MD
Loma Linda University,
Loma Linda, CA

Michael Lopez, MD, PhD
University of Alabama at Birmingham, Birmingham, AL

Arusha Yeshokumar, MD
Icahn School of Medicine at Mount Sinai, Bristol Myers Squibb,
New York, NY

**11:45 AM - 6:30 PM**
**EXHIBITS & POSTERS**
Exhibit Hall
Lunch served (12:00-1:00 PM)
Wine & Cheese (5:00-6:30 PM)

**12:00 PM - 12:30 PM**
**CNS BUSINESS MEETING**

**1:00 PM - 2:15 PM**
**SEMINAR 3: THE BRAVE NEW WORLD OF PEDIATRIC SPINAL MUSCULAR ATROPHY – IMPLICATIONS OF NEWBORN SCREENING AND EFFECTIVE TREATMENT**

**Organizer:**
Erin E. Neil, DO
University of Michigan,
C.S. Mott Children’s Hospital,
Ann Arbor, MI

**Practical Implications and Considerations after State-wide Initiation of SMA Newborn Screening**
Erin E. Neil, DO

**The Clock is Ticking: Challenges in the Timely Choice of Treatment and Implementation in the Pre-Symptomatic Patient with SMA**
Richard Finkel, MD
St. Jude Children’s Research Hospital, Memphis, TN

**Ethical Considerations for High-cost, Complex-to-Administer Treatments in Medically Fragile Patients**
Jim Dowling, MD, PhD
Hospital for Sick Children, Toronto, Ontario, Canada

The famous Back Bay Neighborhood.
1:00 PM – 2:15 PM
SEMINAR 4:
NEUROLOGIC IMPLICATIONS OF YOUTH SPORTS PARTICIPATION
Organizer:
Sean Rose, MD
Nationwide Children’s Hospital,
Ohio State University College of Medicine, Columbus, OH

Youth Sports for the Child Neurologist: Benefits of Sports Participation and Health Disparities
Meeryo Choe, MD
UCLA Mattel Children’s Hospital,
UCLA David Geffen School of Medicine, Los Angeles, CA

Concussion and Repetitive Head Impacts in Youth Contact Sports
Sean Rose, MD

Long-term Neurologic Effects of Contact Sports and Repetitive Head Impacts
Jaclyn B. Caccese, PhD
The Ohio State University College of Medicine, Columbus, OH

2:45 PM-3:15 PM
MARTHA BRIDGE DENCKLA AWARD LECTURE: DISEASE TARGETED TREATMENT TRANSLATION IN FRAGILE X SYNDROME AND NEURODEVELOPMENTAL DISABILITIES: THE FIRST CHAPTER
Elizabeth Berry-Kravis, MD, PhD
Rush University Medical Center, Chicago, IL

3:15 PM – 5:30 PM
SYMPOSIUM III:
NEUROLOGICAL MANIFESTATIONS AND LONG-TERM SEQUELA OF PEDIATRIC COVID-19 INFECTIONS
Organizer:
Laura A. Malone, MD, PhD
Kennedy Krieger Institute, Baltimore, MD

Introduction and Example Case Presentations
Laura A. Malone, MD, PhD

Neurological Symptoms in Children with PIMS-TS: Initial Presentation and Follow-up
(Yayel Hacohen, MD, PhD
University College London, London, UK

Neurological Manifestations of COVID-19 Related Illness in Hospitalized Children
Ericka L. Fink, MD, MS
UPMC Children’s Hospital of Pittsburgh, Pittsburgh, PA

Neuropsychiatric Presentation in Pediatric COVID-19 Patients Associated with Anti-neural Autoantibodies
Samuel Pleasure, MD, PhD
UCSF, San Francisco, CA

Claire Johns, MD
University of California San Francisco, San Francisco, CA

4:00 PM – 5:15 PM
SEMINAR 5:
CP TO YOU IS NOT CP TO ME – STRATEGIES FOR MITIGATING PRACTICE VARIABILITY IN CEREBRAL PALSY CARE
Organizer:
Bhooma Aravamuthan, MD, DPhil
Washington University in St. Louis School of Medicine, St. Louis, MO

The Past: Historical Origins of Variability in CP Care
Young-Min Kim, MD
Loma Linda University, Loma Linda, CA

The Present: Current Sources of Variability in CP Diagnosis and Management
Bhooma Aravamuthan, MD, DPhil

The Future: Suggestions for Enhancing Cerebral Palsy Education During Residency and Beyond
Jenny Wilson, MD
Oregon Health & Science University, Portland, OR

5:00 PM – 6:30 PM
EXHIBITS & POSTERS REVIEW
(Wine & Cheese)

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.
Friday, October 1

7:00 AM – 8:00 AM
EXHIBITS & POSTER REVIEW
(Continental Breakfast served)

7:00 AM – 8:00 AM
2021 CNS ARNOLD P. GOLD
HUMANISM IN MEDICINE BREAKFAST

Supported by a grant from the Arnold P. Gold Foundation

AWARD PRESENTATIONS & GENERAL SESSION

8:15 AM – 8:30 AM
CHILD NEUROLOGY FOUNDATION
SCIENTIFIC GRANT & AWARD ANNOUNCEMENTS

8:30 AM – 9:00 AM
PHILIP R. DODGE YOUNG
INVESTIGATOR AWARD LECTURE:
COMMUNICATING NEUROLOGIC PROGNOSIS: CHALLENGES AND OPPORTUNITIES

Monica Lemmon, MD
Duke University School of Medicine, Durham, NC

9:00 AM – 9:45 AM
BERNARD SACHS AWARD
LECTURE: GENE THERAPY
CHANGING THE OUTCOMES
FOR CHILDREN WITH
NEUROMUSCULAR DISEASE

Jerry Mendell, MD
Nationwide Children’s Hospital,
Columbus, OH

9:45 AM – 12:00 PM
SYMPOSIUM IV:
PROGRESS IN CHILD NEUROLOGY
THROUGH THE LENS OF AN NINDS CAREER DEVELOPMENT PROGRAM: CNCDP, PAST PRESENT AND FUTURE

Organizer:
Brad Schlaggar, MD, PhD
Kennedy Krieger Institute,
Baltimore, MD

NSADA and CNCDP:
Past Present and Future
Brad Schlaggar, MD, PhD
Kennedy Krieger Institute,
Baltimore, MD

Working Towards Inclusion in Child Neurology Research
Erika Augustine, MD, MS
Kennedy Krieger Institute,
Baltimore, MD

From NSADA to the International Pediatric Stroke Organization
Heather J. Fullerton, MD, MAS
UCSF Benioff Children’s Hospital,
San Francisco, CA

Recently Funded CNCDP Scholars

Translating Diagnostic Techniques Across Species to Better Understand Dystonia in Cerebral Palsy
Bhooma Aravamuthan, MD, PhD; MD, DPhil; Washington University in St. Louis, St. Louis, MO

Turning Classical Lesion Localization on its Head: How Lesion Location can be Used to Predict Patient Outcomes
Aaron Boes, MD, PhD
University of Iowa, Iowa City, IA

Decision Making for Infants with Neurologic Conditions
Monica Lemmon, MD
Duke University School of Medicine, Durham, NC

Autumn Ivy, MD, PhD
University of California – Irvine School of Medicine, Irvine, CA

Wrap up
Brad Schlaggar, MD, PhD

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12:30 PM – 1:45 PM
SEMINAR 6:
MEDULLOBLASTOMA, NEW CLINICAL AND TRANSLATIONAL INSIGHTS: THE PATH FORWARD

Organizer:
Roger J. Packer, MD
Children’s National Hospital, Washington, DC

Molecular Underpinnings of Medulloblastoma: Stratification and Clinical Implications
Paul A. Northcott, PhD
St. Jude Children’s Research Hospital, Memphis, TN

Intrathecal Therapies for Medulloblastoma and Other Embryonal Tumors: Use of Radiolabeled Monoclonal Therapies
Kim Kramer, MD
Memorial Sloan Kettering Cancer Center, New York, NY

Results of Recently Completed Clinical Trials for Medulloblastoma and Implications for Future Studies
Roger J. Packer, MD

12:30 PM – 1:45 PM
SEMINAR 7:
DISORDERS OF CONSCIOUSNESS IN CRITICALLY ILL CHILDREN: CURING COMA FOR THE DEVELOPING BRAIN

Organizer:
Mark Wainwright, MD, PhD
University of Washington School of Medicine, Seattle, WA

Neuroscience of Consciousness and Implications for Neuroprotection
Mark Wainwright, MD, PhD

Causes of Altered Consciousness and Impact on Outcome
Jessica Carpenter, MD
Children’s National Hospital, Washington, DC

Functional Neuroimaging and the Diagnostic Assessment of Disorders of Consciousness
Varina Boerwinkle, MD
Barrow Neurological Institute at Phoenix Children’s Hospital, Phoenix, AZ

Ethical Implications of the Pediatric Definition of Consciousness
Leon G. Epstein, MD
Northwestern University Feinberg School of Medicine, Chicago, IL

2:15 PM – 4:30 PM
SYMPOSIUM V:
DEVELOPING TREATMENTS FOR PEDIATRIC EPILEPSIES: FROM MODELS TO THE CLINIC

Organizer:
Solomon Moshé, MD
Albert Einstein College of Medicine, Bronx, NY

Treating Epilepsies with Genetic Etiology: The Tuberous Sclerosis Example
Michael Wong, MD, PhD
Washington University in St. Louis, St. Louis, MO

Somatic Mutations in Epilepsies with Cortical Malformations and Implications for Targeted Therapies
Annapurna Poduri, MD, MPH
Boston Children’s Hospital, Harvard Medical School, Boston, MA
SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.
8:45 AM - 9:30 AM
HOWER AWARD LECTURE:
MENTORS AND PROTEGES:
STANDING ON THE SHOULDERS OF GIANTS AND FOLLOWING FOOTSTEPS INTO THE FUTURE

Supported by a grant from the Hower Family Foundation

Jonathan W. Mink, MD, PhD
University of Rochester, Rochester, NY

9:45 AM – 12:00 PM
SYMPOSIUM VII:
ARE WE POISED FOR A THERAPEUTIC REVOLUTION IN CHILD NEUROLOGY?

Organizer:
Louis T. Dang, MD, PhD
Michigan Medicine, Ann Arbor, MI

Co-Organizer:
Renée A. Shellhaas, MD, MS
Michigan Medicine, Ann Arbor, MI

Introduction
Renée A. Shellhaas, MD, MS
Michigan Medicine, Ann Arbor, MI

Epigenetics and Brain Plasticity:
Lessons from Rett Syndrome and other MECP2 Disorders
Huda Y. Zoghbi, MD
Howard Hughes Medical Institute, Baylor College of Medicine, Houston, TX

Base Editing and Prime Editing:
Precision Gene Editing without Double-strand DNA Breaks
David Liu, PhD
Broad Institute of MIT and Harvard; Cambridge, MA

Individualized Therapies for Orphan Neurogenetic Diseases
Tim Yu, MD, PhD
Boston Children’s Hospital, Boston, MA

Clinical Trials for Gene-directed Therapies
Erika Augustine, MD, MS
Kennedy Krieger Institute, Baltimore, MD

Summary and Looking to the Future
Louis T. Dang, MD, PhD

1:00 PM – 4:00 PM
CNS CLINICAL RESEARCH ANNUAL WORKSHOP:
2021 - PEDIATRIC NEUROLOGY CLINICAL TRIALS – INTRODUCTION TO THE SERIES

Organizer:
Ariel Maia Lyons-Warren, MD, PhD
Baylor College of Medicine, Houston, TX

Co-Organizers:
Gabrielle deVeber MD, FRCP(C)
University of Toronto, Hospital for Sick Children, Toronto, Ontario, CA

Josh Bonkowsky, MD, PhD
University of Utah School of Medicine, Primary Children’s Hospital, Salt Lake City, Utah

Welcome
Ariel Maia Lyons-Warren, MD, PhD

The Importance of Clinical Research and How to Get Involved
Adam L. Hartman, MD
National Institute of Neurological Disorders and Stroke, NIH, Rockville, MD

Identifying Current Gaps in Research
Renée A. Shellhaas, MD, MS
Michigan Medicine, Ann Arbor, MI

Breakout Session

Coffee Break

Protected Time: How to Break the Catch 22 Cycle
Kristin P. Guilliams MD, MSCI
Washington University School of Medicine, St. Louis, MO

How to Design Clinic-Based Enrollment Studies
Shafali Jeste, MD, FAAN
Children’s Hospital Los Angeles, University of Southern California, Los Angeles, CA

Approaches to Funding: Beyond the NIH
Erika Augustine, MD, MS
Kennedy Krieger Institute, Baltimore, MD

Panel Discussion

Q&A
1:00 PM – 4:00 PM
BIOMEDICAL WRITING WORKSHOP

Organizer and presenter:
E. Steve Roach, MD
University of Texas Dell Medical School, Austin, TX

Introduction: Why Manuscripts are Rejected

Shortcuts to Better Papers
Keeping Things Moving: Combating Writer’s Block
Break
Responding to Reviews and Revising your Manuscript

Rules of the Road: Permissions, Consents, and Other Potholes
Meet the Editors Q & A

SESSIONS highlighted in maroon are designated for CME credit.
Agenda and amount of CME credits available are subject to change.
HOTEL ACCOMMODATIONS
ON-LINE BOOKING FOR CNS ANNUAL MEETING BEGINNING MID-JULY

The CNS has reserved a block of rooms at the Sheraton Boston Hotel. A direct link to group rate reservations is available upon completion of paid meeting registration.

- Room Rates: Begin at $299 (plus taxes)
- Link sent upon completion of paid registration

Hotel registration must be handled directly with the Sheraton Boston Hotel.

TRAVEL INFORMATION

Contact Travel Leaders at 763-231-8876 to take advantage of the many ways to save on meeting airfare by booking 60 days in advance (or more).

The travel professionals at Travel Leaders will find the very best combination of price and schedule to suit your specific needs.

Travel Leaders
T: 763-231-8876
E: kristine@tvleaders.com
## 2021 CNS Annual Meeting Registration

### EARLY REGISTRATION: MID-JULY – AUGUST 31

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<td><strong>Resident/Trainee</strong></td>
<td>$350</td>
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<tr>
<td>(Non-CNS Member)</td>
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<td><strong>Medical Student</strong></td>
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<td>(Nurse)</td>
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<tr>
<td><strong>Guest Fee</strong></td>
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</tbody>
</table>

### REGISTRATION

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### REGISTRATION CONFIRMATION

- **E-mail confirmation only** (include address)
- Hotel registration and confirmation must be handled independently with the meeting hotel.

### CANCELLATIONS AND REFUNDS

Registration may be cancelled with the following fees and penalties:

- All cancellations must be made in writing, via email and sent to registration@childneurologysociety.org.
- Cancellations received **on or before September 1, 2021** are eligible for a full refund less $75 administrative fee. Cancellations received **after September 1, 2021** are not eligible for a refund.
- You can change your registration from the All Access/Live registration to the Virtual Only option at no additional charge. Please contact registration@childneurologysociety.org.
- In the event the CNS must cancel the live meeting due to unforeseen circumstances, CNS will automatically enroll all registration to a Virtual option or give the registrant the option of a full refund within 10 business days after the meeting cancellation. In the event of cancellation of any portion, or entire event, CNS does not assume responsibility for any additional costs, charges, or expenses; to include, charges made for travel and lodging.

### SPECIAL NEEDS

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## REGULAR REGISTRATION: SEPTEMBER 1 - OCTOBER 3

<table>
<thead>
<tr>
<th>On Site</th>
<th>Virtual</th>
<th>Clinical Investigator Boot Camp</th>
<th>CNF Fee</th>
<th>Humanity Breakfast</th>
<th>Legacy Luncheon</th>
<th>Book Pickup On site</th>
<th>Book Shipped To You</th>
<th>eBook</th>
<th>TOTAL</th>
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<tbody>
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<td><strong>Program Coordinator Program</strong></td>
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<tr>
<td><strong>Guest Fee</strong></td>
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