



Program Agenda

Updated: June 4, 2024 (all times Pacific)

At a Glance

Thursday, June 13, 2024

7:00 am – 6:00 pm

Registration Open

Grand Ballroom Foyer

7:00 am – 8:00 am

Industry-Sponsored Event

Grand Ballroom 1-3

Women in Headache Medicine Program

Migraine and the Menopausal Transition: Insights and Interventions

Not Eligible for CME Credits

Moderator: Deena Kuruvilla, MD, FAHS

Panelists:

Dawn Buse, PhD

Addie Peretz, MD

Belinda Savage-Edwards, MD, FAAN

Jessica Shepherd, MD, MBA, FACOG

Kin Yuen, MD, MS

This panel discussion will address challenges and considerations associated with migraine management beyond the childbearing years and discuss opportunities to improve care for women during the menopausal transition.

Sponsored by Pfizer Medical Affairs

8:00 am – 12:30 pm

Research Career Development Program

San Diego Ballroom B-C

Moderator: Elizabeth K. Seng, PhD, FAHS

8:00 am – 8:20 am **What do Research Careers Actually Look Like?**

Amynah Pradhan, PhD

Washington University in St. Louis

Elizabeth K. Seng, PhD, FAHS

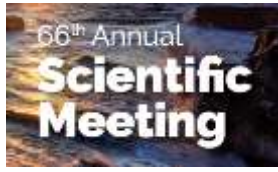
Yeshiva University/Albert Einstein College of Medicine

8:20 am – 9:30 am **Exciting Research in My Lab (and how I got into research)**

TBD Speakers

Catherine D. Chong, PhD, FAHS

Mayo Clinic



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Andrew C. Charles, MD, FAHS
University of California, Los Angeles

9:30 am – 10:15 am Panel Discussion: Types of Funding
Richard B. Lipton, MD, FAHS (industry funding)
Albert Einstein College of Medicine

Andrew F. Russo, PhD (basic science/government funding)
University of Iowa

Rebecca Wells, MD, MPH, FAHS, FAAN (clinical trials)
Atrium Health Wake Forest Baptist

10:15 am – 10:30 am BREAK

10:30 am – 11:00 am Basic Science Data Blitz
Moderator: Aynah Pradhan, PhD

Basic Science Award Winner Runner-Up

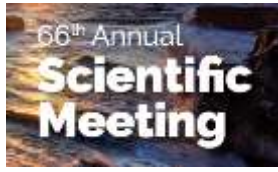
(DB-01) Efficacy of Dual Enkephalinase Inhibition in a Preclinical Migraine Model is Mediated by Activation of Peripheral Delta Opioid Receptors
Greg Dussor, PhD
University of Texas, Dallas

(DB-02) RNA-seq reveals transcriptomic differences in circadian-related genes of the choroid plexus of nitroglycerine-induced rat model of chronic migraine compared to controls.
Yohannes Woubishet Woldeamanuel, MD
Mayo Clinic - Arizona

(DB-03) The neuropeptide amylin induces diarrhea in mice and the amylin receptor contributes to CGRP-induced diarrhea.
Jayme Waite, BSE
Department Of Veteran Affairs

(DB-04) Decreased Perineuronal Nets in the Mesencephalic Reticular Formation in Mouse Models of Migraine and Medication Overuse Headache.
Jhoan Aguilar, BS
Washington University In Saint Louis

(DB-05) Interplay Between CGRP and Amylin in Migraine Pathophysiology



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Adisa Kuburas
University Of Iowa

(DB-06) Stress Induced Changes in Trigeminal Ganglion Excitability in a Mouse Migraine Model
Mandee Schaub
University Of Texas, Dallas

11:00 am – 11:30 am **Rocket Presentations and Panel Discussion: "Running My Lab is Like a Small Business; How Do I Wear All of These Hats?"**

Greg Dussor, PhD
University of Texas, Dallas

Andrea M. Harriott, MD, PhD
Massachusetts General Hospital

Elizabeth K. Seng, PhD, FAHS
Yeshiva University/Albert Einstein College of Medicine

11:30 am – 12:30 pm **Roundtable Lunch Discussions**
Catherine D. Chong, PhD, FAHS
Greg Dussor, PhD
Andrea M. Harriott, MD, PhD
Amynah Pradhan, PhD
Andrew F. Russo, PhD
Elizabeth K. Seng, PhD, FAHS
Rebecca Wells, MD, MPH, FAHS, FAAN

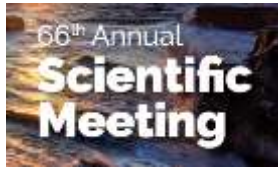
8:00 am – 12:30 pm **Pre-Meeting Courses**

8:00 am – 10:00 am **Pre Course 1: Challenges in Vestibular Migraine Management** **Grand Ballroom 5-9**
Vestibular Migraine and Other Migraine Special Interest Section

8:00 am – 8:05 am **Introductions**
Frederick A. Godley, III, MD, FACS
Association of Migraine Disorders

8:05 am – 8:20 am **Do the Current Diagnostic Criteria Serve our Patients Well?**
PRO: Amir Kheradmand, MD
Johns Hopkins University School of Medicine

CON: Michael T. Teixido, MD
Thomas Jefferson University



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8:20 am – 8:35 am **Understanding vestibular migraine: Central sensitization in the brainstem or multimodal sensory dysfunction in the thalamocortical network?**

Multimodal Sensory Dysfunction: Amir Kheradmand, MD
Johns Hopkins University School of Medicine

Central Sensitization: Michael T. Teixido, MD
Thomas Jefferson University

8:35 am – 8:50 am **Is vestibular testing necessary of all patients with dizziness? How can vestibular testing help diagnose vestibular migraine?**

PRO: Kristen K. Steenerson, MD
Stanford University

CON: Claire Ceriani, MD
Thomas Jefferson University

8:50 am – 9:00 am **Dizziness in Children - when it is migraine and when it is not?**

Jacob Brodsky, MD
Boston Children's Hospital

9:00 am – 9:10 am **Migraine-associated dizziness in children: symptoms and physiology over time**

Carlyn Patterson Gentile, MD, PhD
University of Pennsylvania Perelman School of Medicine, Children's Hospital of Philadelphia

9:10 am – 9:25 am **Why Do We Need to Differentiate PPPD from Vestibular Migraine?**

Neurologist: Marissa Anto, MD
University of Pennsylvania Perelman School of Medicine, Children's Hospital of Philadelphia

Otolaryngologist: Michael T. Teixido, MD
Thomas Jefferson University

9:25 am – 9:35 am **What other systems should be considered in patients with vestibular migraine and other dizziness presentations?**

Ali Ladak, PT, DPT, PhD
Children's Hospital of Philadelphia

9:35 am – 10:00 am **Wrap Up and Questions**

Frederick A. Godley, III, MD, FACS
Association of Migraine Disorders



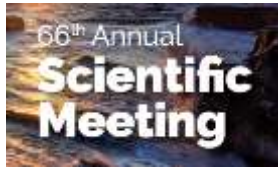
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|----------------------------|--|-----------------------------|
| 8:00 am – 10:00 am | Pre Course 2: Believe It or Not: The Phenomenology of Headache
<i>Refractory Headache/ Autonomic Disorders / Behavioral / TAC Special Interest Sections</i> | Grand Ballroom 10-12 |
| 8:00 am – 8:30 am | Cognitive Dysfunction in Migraine. What is "Brain Fog" and How Can We Sort Out Cognitive Dysfunction from Pain, Medications or Other Medical Conditions?
Richard B. Lipton, MD, FAHS
<i>Albert Einstein College of Medicine</i> | |
| 8:30 am – 9:00 am | Cranial Autonomic Symptoms in Headache. When Do They Happen and What's the Significance?
Amrita-Amanda D. Vuppala, MD, AQH
<i>Medical College Of Wisconsin</i> | |
| 9:00 am – 9:30 am | Cardiovascular Symptoms in Headache
Lauren Natbony, MD, FAHS
<i>Integrative Headache Medicine of New York</i>

Nada Hindiyeh, MD, FAHS
<i>Metrodora Institute</i> | |
| 9:30 am – 10:00 am | Migraine Equivalents
Michael Marmura, MD, FAHS
<i>Thomas Jefferson University</i> | |
| 10:30 am – 12:30 pm | Pre Course 3: Spectrum of Sensitization: From Tinnitus to Fibromyalgia - A Glutamate Journey
<i>Vestibular Migraine and Other Migraine Variants / Pharmacology and Therapeutics / Refractory Headaches Special Interest Sections</i> | Grand Ballroom 5-9 |
| 10:30 am – 11:00 am | Tinnitus and Headache
Michael T. Teixido, MD
<i>Thomas Jefferson University</i> | |
| 11:00 am – 11:30 am | Mechanism of Drugs for Refractory Migraine
Shivang Joshi, MD, MPH, RPh, FAHS
<i>Community Neuroscience Services</i> | |
| 11:30 am – 12:00 pm | Central Sensitization Syndromes
Jennifer Robblee, MD, MSc, FRCPC | |



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Barrow Neurological Institute

12:00 pm – 12:30 pm Pathophysiology of Peripheral and Central Sensitization

Rami Burstein, PhD

Harvard Medical School

10:30 am – 12:30 pm Pre Course 4: Putting Computers to Work for You: EMR and AI in Clinical Practice Workshop

Grand Ballroom 10-12

Clinical Informatics Special Interest Section

Moderators: Jessica Ailani, MD, FAHS; Marissa Anto, MD; Krista Brooks-Horror, MD, FAAN; Chia-Chun Chiang, MD; Jennifer Hranilovich, MD; Teshamae S. Monteith, MD; Jason J. Sico, MD, MHS

10:30 am – 10:40 am Introduction

Jennifer Hranilovich, MD

Children's Hospital Colorado

10:40 am – 10:50 am Taming your EMR

Christina Szperka, MD, MSCE, FAHS

Children's Hospital of Philadelphia/University of Pennsylvania

10:50 am – 11:15 am Sample Problem 1: Group Work and Discussion

11:15 am – 11:25 am Safe, Sane, and Supportive AI in Clinical Practice

Fred Cohen, MD

Icahn School of Medicine at Mount Sinai

11:25 am – 11:50 am Sample Problem 2: Group Work and Discussion

11:50 am – 12:00 pm Extracting EMR Data: QI, Research and More

Andrew Hershey, MD, PhD, FAHS

Cincinnati Children's Hospital Medical Center

12:00 pm – 12:30 pm Sample Problem 3: Group Work and Discussion + Wrap Up

11:00 am – 12:00 pm Refractory Special Interest Section

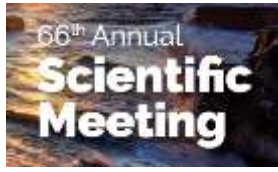
Temecula Rooms 1-2

12:00 pm – 1:00 pm CSF Pressure and Volume Disorders Special Interest Section

Temecula Rooms 1-2

12:00 pm – 1:00 pm Pediatric and Adolescent Special Interest Section

Grand Ballroom 13



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12:30 pm – 1:15 pm	Industry-Sponsored Event <i>Not Eligible for CME Credits</i> Migraine Treatment Evolution: Optimizing patient care through advancements in migraine therapy Andrew Blumenfeld, MD and Stewart Tepper, MD, FAHS Review the evolution of the AHS Guidelines, the science behind migraine, and the importance of evolving how patients with migraine are approached and treated. <i>Supported by AbbVie US LLC</i>	Grand Ballroom 1-3
1:30 pm – 2:00 pm	Welcome / Opening Remarks	Grand Ballroom 5-9
1:30 pm – 1:40 pm	Welcome Remarks Mark J. Burish, MD, PhD, FAHS and Christina L. Szperka, MD, MSCE, FAHS <i>Co-Chairs, Scientific Meeting Planning Committee</i>	
1:40 pm – 2:00 pm	Todd J. Schwedt, MD, MSCI, FAHS <i>President, American Headache Society</i>	
2:00 pm – 3:00 pm	PLENARY 1: Post-Traumatic Headache Moderators: Paul G. Mathew, MD, DNBPAS, FAAN, FAHS and Jason J. Sico, MD, MHS	Grand Ballroom 5-9
2:00 pm – 2:30 pm	The Future of Contact Sports and PTH Christopher Giza, MD <i>University of California, Los Angeles</i>	
2:30 pm – 2:50 pm	Navigating Post-traumatic Headache: Insights from Research Brain Imaging Catherine D. Chong, PhD, FAHS <i>Mayo Clinic</i>	
2:50 pm – 3:00 pm	Panel Discussion	
3:00 pm – 3:50 pm	DEBATE: Where do migraine medicines work and why does it matter? Moderators: Andrea M. Harriott, MD, PhD and Arynah Pradhan, PhD	Grand Ballroom 5-9



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**Debate: Is the site of action of Migraine Therapies
Central or Peripheral**

Peter J. Goadsby, MD, PhD, FAHS (Act Centrally)
University of California, Los Angeles

Rami Burstein, PhD (Act Peripherally)
Harvard Medical School

3:50 pm – 5:05 pm

Awards Session 1

Grand Ballroom 5-9

Awards Introduction and Presentations

Jessica Ailani, MD, FAHS and Amy Gelfand, MD, FAHS

3:50 pm – 4:00 pm

Frontiers in Headache Research Scholarship Awards Recognition
(Plaques only...Presentations during abstract sessions)

4:00 pm – 4:20 pm

Headache Basic Science Prize

**Effects of caffeine on intracranial pressure and pain perception in
freely moving rats**

Sajedeh Eftekhari, PhD
Danish Headache Center/Glostrup Research Institute

4:20 pm – 4:45 pm

Early Career Lecture Award

**Application of Cluster Analysis of Migraine-Associated Symptoms
(CAMS) in Youth: A Critical Appraisal of the International
Classification of Headache Disorders Migraine Diagnostic Criteria**

Carlyn Patterson Gentile, MD, PhD
*University of Pennsylvania Perelman School of Medicine, Children's
Hospital of Philadelphia*

4:45 pm – 5:05 pm

Lifetime Achievement Award

Donald B. Penzien, PhD, FAHS
Wake Forest University School of Medicine

5:15 pm – 6:00 pm

AHS Membership Meeting

Grand Ballroom 10-12

Not Eligible for CME Credits/Open to AHS Members Only

Members' Choice Award

Aura phenomena do not initiate migraine attacks—Findings from
neuroimaging

Jan Mehnert, PhD
University Clinic Hamburg Eppendorf

Laura Fischer-Schulte, MD



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University Clinic Hamburg Eppendorf

Arne May MD, PhD
University Clinic Hamburg Eppendorf

Above and Beyond Awards

Elizabeth K. Seng, PhD, FAHS
Yeshiva University/Albert Einstein College of Medicine

Niushen Zhang, MD
Stanford University

Distinguished Service Award

Stewart J. Tepper, MD FAHS
The New England Institute For Neurology And Headache

Runnin' for Research Advocacy Award

Philip Maynard, MD
The Mount Sinai Hospital

6:00 pm – 7:30 pm

Welcome + Exhibitor Reception
Poster Session 1

Pacific Ballroom

7:30 pm – 8:30 pm

New Investigators and Trainees Special Interest Section

San Diego Ballroom B

Friday, June 14, 2024

6:30 am – 5:00 pm

Registration Open

Grand Ballroom Foyer

6:30 am – 8:00 am

Exhibits and Posters with Continental Breakfast

Pacific Ballroom

6:45 am – 8:00 am

Research Career Development Program

Grand Ballroom 1-3

Moderator: Elizabeth Seng, PhD, FAHS

6:45 am – 7:15 am

Funding for Career Development

Michael Oshinsky, PhD
NIH National Institute of Neurological Disorders and Stroke

7:15 am – 8:00 am

Research Mentorship/Career Development Conversations

Mark J. Burish, MD, PhD, FAHS
Greg Dussor, PhD
Richard B. Lipton, MD, FAHS
Amynah Pradhan, PhD
Andrew F. Russo, PhD
Emmanuelle Schindler, MD, PhD



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At a Glance

Elizabeth Seng, PhD, FAHS

AIMS Page Reviews (Zoom)

Michael Oshinsky, PhD

NIH National Institute of Neurological Disorders and Stroke

Vestibular Migraine and other Variants Special Interest Section

7:00 am – 8:00 am

8:00 am – 10:00 am

PLENARY 2: Artificial Intelligence: Innovations and Considerations in Headache Medicine

Moderators: Ali Ezzati, MD and Jennifer Hranilovich, MD

Grand Ballroom 13

Grand Ballroom 5-9

8:00 am – 8:10 am

Introductions: The Basics of AI

Ali Ezzati, MD

University of California, Irvine

8:10 am – 9:00 am

KEYNOTE: AI in Healthcare: Revolution and Regulation

Nigam H. Shah, MBBS, PhD

Stanford University

9:00 am – 9:20 am

AI in Headache Medicine: Current and Future Innovations

Chia-Chun Chiang, MD

Mayo Clinic

9:20 am – 9:40 am

Implementing AI models in healthcare: practical and ethical considerations

Christopher Longhurst, MD, MS

University of California, San Diego

9:40 am – 10:00 am

Panel Discussion

10:00 am – 10:30 am

Exhibits/Refreshment Break

Pacific Ballroom

10:30 am – 12:30 pm

Scientific Abstracts 1

Moderators: A. Laine Green MSc, MD, FRCPC, FAHS and Juliana

VanderPluym, MD, FAHS, FRCPC

Grand Ballroom 5-9

10:30 am – 10:40 am

(OR-01) Vaporized Cannabis versus Placebo for Acute Migraine: A Randomized Controlled Trial

Nathaniel Schuster, MD

University of California, San Diego

10:40 am – 10:50 am

(OR-02) Randomized Controlled Trial of Lidocaine Occipital Nerve Blocks to Treat Status Migrainosus in Children/Adolescents

Christina Szperka, MD, MSCE, FAHS

Children's Hospital of Philadelphia/University of Pennsylvania



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- 10:50 am – 11:00 am (OR-03) Identifying and Predicting Headache Trajectories Amongst Those with Acute Post-Traumatic Headache**
Lingchao Mao, MS
Georgia Institute of Technology
- 11:00 am – 11:10 am (OR-04) Genetic Variation and its Role in Post Traumatic Headache**
Lyn Griffiths, PhD
Queensland University of Technology
- 11:10 am – 11:20 am (OR-05) The American Headache Society First Contact – Headache in Primary Care Program: Impact on Attendees' Knowledge and Awareness of Migraine**
Nisha Malhotra, MD, MPH
NYU Langone Health
- 11:20 am – 11:30 am Panel Discussion**
- 11:30 am – 11:40 am (OR-06) Prediction of Major Adverse Cardiovascular Events (MACE) in Patients with Migraine using the Mayo Clinic Electronic Health Record**
Catherine D. Chong, PhD, FAHS
Mayo Clinic - Arizona
- 11:40 am – 11:50 am (OR-07) Forecasting Migraine Attacks: A Machine Learning Approach Based on Clinical Symptoms and King-Devick Test**
Juliana VanderPluym, MD, FAHS, FRCPC
Mayo Clinic - Arizona
- 11:50 am – 12:00 pm (OR-08) Migraine as a Risk Factor for Cardiovascular Events in the Veterans Health Administration (VHA)**
Alexandra Schwartz, MA
Yeshiva University Graduate School of Psychology
- 12:00 pm – 12:10 pm (OR-09) Development of PACAP and PAC1 targeting therapies for the Treatment of Opioid-Induced Medication Overuse Headache**
Elizaveta Mangutov
Washington University in St. Louis
- 12:10 pm – 12:20 pm (OR-10) Brain Iron Deposition and Functional Connectivity Alterations in Participants with Acute Post Traumatic Headache**
Simona Nikolova, PhD
Mayo Clinic - Arizona
- 12:20 pm – 12:30 pm Panel Discussion**



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12:30 pm – 2:00 pm	Exhibits and Lunch Poster Session 1 ends/Poster Session 2 hangs <i>Methods Special Interest Section</i> <i>LGBTQIA+ Health Special Interest Section</i> <i>Complementary and Integrative Medicine Special Interest Section</i> <i>Post-traumatic headache Special Interest Section</i> <i>Underserved Populations in Headache Med Special Interest Section</i> <i>JOINT TAC AND Procedure Section Meeting Special Interest Section</i>	Pacific Ballroom
<i>12:30 pm – 1:30 pm</i>		<i>Grand Ballroom 4</i>
<i>12:30 pm – 1:30 pm</i>		<i>San Diego A</i>
<i>12:30 pm – 1:30 pm</i>		<i>San Diego B</i>
<i>12:30 pm – 1:30 pm</i>		<i>San Diego C</i>
<i>12:30 pm – 1:30 pm</i>		<i>Temecula 1-2</i>
<i>12:30 pm – 1:30 pm</i>		<i>Grand Ballroom 13</i>
12:45 pm – 1:45 pm	Industry-Sponsored Event <i>Not Eligible for CME Credits</i> mAb Transit: On the Road to Prevention Fred Cohen, MD Morris Levin, MD, FAHS Stephanie J. Nahas, MD, MEd, FAHS Hope O'Brien, MD, MBA Join our migraine experts as they travel through today's treatment landscape, with stops along the way to focus on common clinical questions related to the use of CGRP monoclonal antibodies (mAbs). You'll see how they may consider alternate routes while sharing insights supported by scientific data. At the end of the journey, you will gain an understanding of how this team skillfully navigates migraine management. <i>Supported by Eli Lilly & Company</i>	Grand Ballroom 1-3
2:00 pm – 4:05 pm	Awards Session 2 Moderators: Jessica Ailani, MD, FAHS and Amy Gelfand, MD, FAHS	Grand Ballroom 5-9
2:05 pm – 2:50 pm	Harold G. Wolff Lecture Award Advancing Towards Precision Migraine Treatment: Predicting Responses to Preventive Medications with Machine Learning Models Based on Patient and Migraine Features Chia-Chun Chiang, MD <i>Mayo Clinic</i>	
2:50 pm – 3:20 pm	100 Years: Evolution of Headache Medicine and Personal Journey Seymour Solomon, MD, FAHS <i>Albert Einstein College of Medicine</i> Introduction by Richard B. Lipton, MD, FAHS	



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3:20 pm – 4:05 pm **Seymour Solomon Lecture Award**
What the EYE Tells Us About Migraine
Kathleen Digre, MD, FAHS
University of Utah

4:05 pm – 5:00 pm **PLENARY 3: Veteran Headache and Environmental Risk**
Moderators: Andrea M. Harriott, MD, PhD and
Amynah Pradhan, PhD

4:05 pm – 4:25 pm **Migraine Prevalence, Environmental Risk, and Comorbidities in Veterans**
Nathaniel Schuster, MD
University of California, San Diego

4:25 pm – 4:45 pm **Burn Pit Exposure and Veteran Headaches**
Jason J. Sico, MD, MHS
VA Connecticut Healthcare System

4:45 pm – 5:00 pm **Panel Discussion**

5:00 pm – 6:15 pm **Exhibits Happy Hour**
Poster Session 2

Pacific Ballroom

6:15 pm – 7:15 pm **AHS Tonight**
(Talent, Fashion, Music, and More)

Grand Ballroom 10-12

Saturday, June 15, 2024

7:00 am – 4:30 pm **Registration Open**

Grand Ballroom Foyer

7:00 am – 8:00 am **Research Career Development Program**
Moderator: Elizabeth Seng, PhD, FAHS

Grand Ballroom 1-3

How to Develop and Publish my Paper
Amy Gelfand and Associate and Assistant Editors of Headache

7:00 am – 8:00 am **Women's Health Special Interest Section**

San Diego A

7:00 am – 8:00 am **Exhibits and Posters with Continental Breakfast**

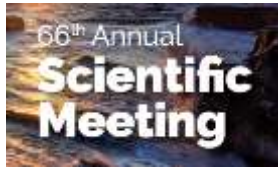
Pacific Ballroom

8:00 am – 9:40 am **Industry-Submitted Abstracts**

Grand Ballroom 5-9

Not Eligible for CME Credits

Moderators: Andrea M. Harriott, MD, PhD and
Amynah Pradhan, PhD



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- 8:00 am – 8:10 am (IOR-01) Efficacy and safety of eptinezumab in patients with episodic cluster headache (ALLEVIATE): A randomized placebo-controlled trial**
Stewart J. Tepper, MD FAHS
The New England Institute For Neurology And Headache
- 8:10 am – 8:20 am (IOR-02) A Phase 2 Trial Evaluating the Efficacy and Safety of ABP-450 Injected for the Treatment of Episodic Migraine**
Stewart J. Tepper, MD FAHS
The New England Institute For Neurology And Headache
- 8:20 am – 8:30 am (IOR-03) Exploring the effects of extracranial injections of botulinum toxin type A on activation and sensitization of central trigeminovascular by cortical spreading depression in male and female rats.**
Agustin Melo-Carrillo, MD, PhD
Harvard Medical School
- 8:30 am – 8:40 am (IOR-04) Efficacy and safety of erenumab in adults with medication overuse headache (MOH) over 1-year: Results from the chronic migraine (CM)-MOH trial final analysis**
Stewart J. Tepper, MD FAHS
The New England Institute For Neurology And Headache
- 8:40 am – 8:50 am (IOR-05) Acute Treatment of Migraine in Children aged 6-11 with Remote Electrical Neuromodulation (REN)**
Klaus Werner
Duke University Hospital
- 8:50 am – 9:00 am (IOR-06) Ictal and interictal disability associated with a change in migraine-related stigma questionnaire (MiRS) over 1-year among people with migraine: Results from the OVERCOME (US) study**
Robert E. Shapiro, MD, PhD
University of Vermont
- 9:00 am – 9:10 am (IOR-07) Sources and impact of perceived stigma among people with migraine: Insights from the mixed-method Migraine Community Survey**
Dawn C. Buse, PhD
Albert Einstein College of Medicine
- 9:10 am – 9:20 am (IOR-08) Pharmacological characterization of ubrogepant and atogepant in cAMP assays at human, rat and mouse calcitonin family receptors in transfected cells**
Debbie Hay, PhD
University Of Otago



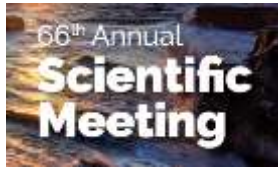
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- 9:20 am – 9:30 am** (IOR-09) Factors behind reluctance in seeking professional help when a subject suspects migraine
Elizabeth K. Seng, PhD, FAHS
Yeshiva University/Albert Einstein College of Medicine
- 9:30 am – 9:40 am** (LB-IOR-01) First-in-Human Study Evaluating the Safety, Tolerability, and Pharmacokinetics of the First-in-Class TRPM3 Antagonist BHV-2100 in Development for Migraine and Pain
Richard Bertz, PharmD
Biohaven Pharmaceuticals
- 9:40 am – 10:00 am** **Featured Presentation** Grand Ballroom 5-9
Not Eligible for CME Credits
- Historical Perspective on Migraine Treatment**
Jes Olesen, MD
University of Copenhagen and Danish Headache Center at Glostrup University Hospital
- 10:00 am – 10:30 am** Exhibits/Refreshment Break Pacific Ballroom
- 10:30 am – 11:20 am** **Awards Session 3** Grand Ballroom 5-9
Moderator: Paul B. Rizzoli, MD
- 10:35 am – 11:20 am** **John R. Graham Lecture Award**
Exciting Times for Headache Medicine: Updates from the Lab and the Clinic
Andrew C. Charles, MD, FAHS
University of California, Los Angeles
- 11:25 am – 12:15 pm** **Scientific Abstracts 2A (Concurrent)** Grand Ballroom 5-9
Moderators: Chia-Chun Chiang, MD and Paul G. Mathew, MD, DNBPAS, FAAN, FAHS
- 11:25 am – 11:35 am** (OR-11) The role of macrophages and iNOS in the effects of CGRP in preclinical migraine models
Shiva Nematgorgani, PhD
University of Texas at Dallas
- 11:35 am – 11:45 am** (OR-12) Association of clinical factors and migraine subtype with OCTA measures in a population with migraine in the interictal phase.

Katherine Podraza, MD, PhD
Hartford Healthcare Headache Center



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- 11:45 am – 11:55 am (OR-13) Vascular reactivity in migraine using breath-hold functional MRI**
Adam Spouse-Blum, MD
University Of Vermont
- 11:55 am – 12:05 pm (Frontier-03) Anti-CGRP monoclonal antibodies change cortical thickness and resting-state functional connectivity in patients with migraine**
Edina Szabo, PhD
Beth Israel Deaconess Medical Center, Harvard Medical School
- 12:05 pm – 12:15 pm Panel Discussion**
- 11:25 am – 12:15 pm Scientific Abstracts 2B (Concurrent)** **Grand Ballroom 10-12**
Moderators: Andrew F. Russo, PhD and Jason J. Sico, MD, MHS
- 11:25 am – 11:35 am (OR-14) Differences in Patient Experience and Treatment Outcomes in Spontaneous Intracranial Hypotension**
Deborah I. Friedman, MD, MPH, FAHS
Yellow Rose Headache and Neuro-Ophthalmology
- 11:35 am – 11:45 am (OR-15) Baseline clinical characteristics from a prospective multiple cohort study of headache in transgender/gender diverse youth and their cisgender male comparators: preliminary findings**
Jennifer Hranilovich, MD
Children's Hospital Colorado
- 11:45 am – 11:55 am (OR-16) Onset, characteristics, treatments, and burden of New Daily Persistent Headache: Initial data from the NDPH Patient Experience Survey**
Mark J. Burish, MD, PhD, FAHS
University of Texas Health
- 11:55 am – 12:05 pm (OR-17) Aura Moderates the Association between Migraine and Major Adverse Cardiovascular Events (MACE)**
Gina Dumkrieger, PhD, MS
Mayo Clinic
- 12:05 pm – 12:15 pm Panel Discussion**
- 12:15 pm – 1:15 pm TMD, Cervical Spine and Orofacial Pain Special Interest Section* *San Diego A*
12:15 pm – 1:15 pm Autonomic Disorders Special Interest Section *San Diego B*
12:15 pm – 1:15 pm Behavioral Special Interest Section *San Diego C*
12:15 pm – 1:15 pm Primary Care Special Interest Section *Grand Ballroom 4*



Program Agenda

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At a Glance

12:15 pm – 1:30 pm	Exhibits and Lunch Poster Session 2 ends	Pacific Ballroom
12:30 pm – 1:15 pm	Industry-Sponsored Event <i>Not Eligible for CME Credits</i> Beyond Headache Days Implications of real-world anti-CGRP findings and advancing migraine research Jessica Ailani, MD, FAHS and Jaclyn Duvall, MD Program faculty will lead an interactive, case-based session on the importance of patient-centric care and collaborative goal setting to support patient needs beyond reduction in migraine/headache days. Insights from recent post-marketing research with an anti-CGRP mAb will be shared, and faculty will discuss the alignment with real-world patient experiences and exploring novel approaches to assessing treatment impact. Additionally, the importance of advancing the science to continue addressing unmet needs in migraine will be discussed. Presenters will integrate some of the latest research findings with personal expertise and audience polling to highlight how individualized care can improve collaboration and outcomes.	Grand Ballroom 1-3
1:30 pm – 2:15 pm	<i>Supported by Lundbeck</i> PLENARY 4: Brain Fog Moderators: Olivia Begasse de Dhaem, MD, FAHS and Richard B. Lipton, MD, FAHS	Grand Ballroom 5-9
1:35 pm – 1:50 pm	Mechanisms of Brain Fog and Cognitive Dysfunction in Headache and Other Diseases Hsiangkuo Yuan, MD, PhD <i>Thomas Jefferson University</i>	
1:50 pm – 2:05 pm	Cognitive Symptoms of Migraine Elizabeth K. Seng, PhD, FAHS Yeshiva University/Albert Einstein College of Medicine	
2:05 pm – 2:15 pm	Panel Discussion	
2:15 pm – 3:15 pm	PLENARY 5: Immune System and Migraine Moderators: Anne Damian Yacoub, MD and William R. Renthal, MD, PhD	Grand Ballroom 5-9
2:15 pm – 2:25 pm	Introductions: The Clinical Tie-In of the Immune System Anne Damian Yacoub, MD <i>Johns Hopkins Medicine</i>	

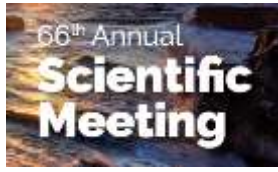


Program Agenda

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At a Glance

- 2:25 pm – 2:45 pm Mast Cells**
Dan Levy, PhD
Beth Israel Deaconess Medical Center
- 2:45 pm – 3:05 pm Regulatory T cells (Tregs) and Cytokines**
Yu-Qing Cao, PhD
Washington University in St. Louis
- 3:05 pm – 3:15 pm Panel Discussion**
- 3:15 pm – 3:40 pm Refreshment Break**
3:40 pm – 4:30 pm Scientific Abstracts 3A (Concurrent)
Moderators: A. Laine Green MSc, MD, FRCPC, FAHS and Juliana VanderPluym, MD, FAHS, FRCPC
Grand Ballroom Foyer
Grand Ballroom 5-9
- 3:40 pm – 3:50 pm (Frontier-02) Beyond “Other”: Exploring Representation of Minoritized Individuals in Headache Research**
Nan Cheng, MD
Mayo Clinic - Arizona
- 3:50 pm – 4:00 pm (OR-18) Demographic and Socioeconomic Factors Affecting Prescription Patterns of the CGRP Monoclonal Antibodies and Gepants During their Rollout: A Retrospective, Observational Study**
Kenneth Tan, MD
Stanford Health Care
- 4:00 pm – 4:10 pm (OR-19) Effectiveness of multimodal treatment with neck muscle exercises, manual therapy, or therapeutic pain neuroscience education on headache impact of migraine patients: a three-arm randomized clinical trial**
Gabriella Tolentino, PT
University Of Utah
- 4:10 pm – 4:20 pm (Frontier-01) Multiple Vitamin Deficiencies are Associated with Worse Headache Outcomes**
Paul Gong, MD
Cincinnati Children's Hospital Medical Center
- 4:20 pm – 4:30 pm Panel Discussion**
- 3:40 pm – 4:30 pm Scientific Abstracts 3B (Concurrent)**
Moderators: A. Laine Green, MD, MSc and Christina Szperka, MD, MSCE, FAHS
Grand Ballroom 10-12
- 3:40 pm – 3:50 pm**



Program Agenda

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At a Glance

(LB-OR-01) Greater Health Literacy is associated with decreased Headache Severity and greater Headache management Self-Efficacy

Elizabeth K. Seng, PhD, FAHS

Yeshiva University/Albert Einstein College of Medicine

3:50 pm – 4:00 pm

(LB-OR-02) ABHD6: a new target for MOH?

Matthew Flowers

University Of Arizona - College of Medicine

4:00 pm – 4:10 pm

(LB-OR-03) The Utility of Lumbar Puncture in the Diagnosis of Spontaneous Intracranial Hypertension: A Meta-Analysis

Deborah I. Friedman, MD, MPH, FAHS

Yellow Rose Headache and Neuro-Ophthalmology

4:10 pm – 4:20 pm

(LB-OR-04) Estrogen Exposure from Modern Contraceptives and Vascular Risk in Women with Migraine: A Nationwide Electronic Health Record Database Study

Keiko Ihara, MD

Keio University School of Medicine

4:20 pm – 4:30 pm

Panel Discussion

Vascular Special Interest Section

4:30 pm – 5:30 pm

San Diego C

5:00 pm – 5:45 pm

Industry-Sponsored Event

Grand Ballroom 10-12

Not Eligible for CME Credits

Addressing Health Disparities in the management of migraine

Cynthia Armand, MD

Cristina Cabret-Aymat, MD

Larry Charleston, IV, MD, MSc, FAHS

Hope O'Brien, MD, MBA

Panel discussion of relevant healthcare disparities in migraine care that involves published data and sharing best practices and solutions in order to advance health equity to people with migraine.

Supported by Pfizer

6:30 pm – 8:00 pm

Wine and Cheese Reception

Marina Terrace

Sunday, June 16, 2024

7:45 am – 9:00 am

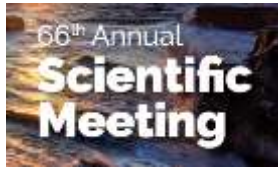
Registration Open

Grand Ballroom Foyer

7:45 am – 8:45 am

Father's Day Continental Breakfast

Grand Ballroom Foyer



Program Agenda

Updated: June 4, 2024 (all times Pacific)

At a Glance

- 8:45 am – 10:15 am** **Plenary 6: Emerging Targets for Migraine and Cluster** **Grand Ballroom 10-12**
Moderators: Mark J. Burish, MD, PhD, FAHS; Elizaveta Mangutov
- 8:45 am – 8:55 am** **Introductions: The Basics of Emerging Targets**
Elizaveta Mangutov
Washington University in St. Louis
- 8:55 am – 9:10 am** **Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP)**
Andrew F. Russo, PhD
University of Iowa
- 9:10 am – 9:25 am** **Delta Opioid**
Amynah Pradhan, PhD
Washington University in St. Louis
- 9:25 am – 9:40 am** **Adenosine Receptors**
Sinifunanya Nwaobi, MD, PhD
University of California, Los Angeles
- 9:40 am – 9:55 am** **Cluster Headache**
Emmanuelle Schindler, MD, PhD
VA Connecticut Healthcare System
- 9:55 am – 10:15 am** **Panel Discussion**