



Program Agenda – Updated: May 19, 2022 (all times Mountain)

*DRAFT – Not for publication*

## AGENDA AT A GLANCE

### Thursday, June 9, 2022

6:00 am – 6:30 am	Sunrise Yoga
7:00 am – 6:00 pm	Registration Desk
7:00 am – 8:00 am	<b>Industry-Sponsored Event</b> <b>Women in Headache Medicine Breakfast</b> Sponsored by AbbVie, Inc. <i>Not Eligible for CME Credits</i>
<b>Pre-Course 1:</b>	<b>Trials and Tribulations: Optimizing and Expanding Headache Services for Your Patients</b> <i>Practice Management Committee</i>
<b>Pre-Course 2:</b>	<b>The Surgical Management of Headache: Cutting Edge Approaches and Controversies</b> <i>CSF Pressure and Volume Disorders and Procedural Headache Medicine Special Interest Sections</i>
<b>8:00 am – 12:30 pm</b>	<b>Hot Topics in Basic Science Symposium</b>
<b>10:30 am – 12:30 pm</b>	<b>Pacific Rim Symposium</b> <b>How are CGRP-Related Monoclonal Antibodies Changing Migraine Therapy in the Pacific Rim Countries?</b> <i>Pacific Rim Committee</i>
<b>10:30 am – 12:30 pm</b>	<b>Pre-Meeting Courses</b>
<b>Pre-Course 3:</b>	<b>The Evidence-Free Zones of Pediatric Headache Treatments</b> <i>Behavioral Issues, Complementary &amp; Integrative Medicine, and Pediatric &amp; Adolescent Special Interest Sections</i>
<b>Pre-Course 4:</b>	<b>Understanding Patient-Reported Outcome Measures (PROMs) for Headache Trials and Clinical Practice</b> <i>Methodology, Design &amp; Statistical Issues Special Interest Section</i>
12:30 pm – 1:30 pm	<b>Industry-Sponsored Event</b> <b>Patient and Clinician Perspectives in the Use of Modern Therapies for the Management of Migraine</b> Sponsored by Lilly <i>CME Eligible (via sponsor)</i>
2:00 pm – 2:30 pm	<b>Welcome / Opening Remarks / AMF Update</b>
2:30 pm – 3:15 pm	<b>KEYNOTE</b> <b>Therapeutic Potential of Psychedelics</b> Bryan Roth, MD, PhD



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*University of North Carolina*

**3:15 pm – 4:30 pm**

**PLENARY: Hot Topics in Headache**

Moderator: Mark J. Burish, MD, PhD

**4:45 pm – 5:30 pm**

**AHS Membership Meeting**

*Not Eligible for CME Credits*

**Open to AHS Members Only**

**5:30 pm – 6:45 pm**

Welcome/Exhibitor/Poster Reception

**6:45 pm – 7:45 pm**

**Industry-Sponsored Event**

**A Portfolio of Treatments for Migraine Patients**

Sponsored by AbbVie, Inc.

*Not Eligible for CME Credits*

**Friday, June 10, 2022**

**6:00 am – 6:30 am**

Sunrise Yoga

**6:30 am – 5:30 pm**

Registration Desk

**6:30 am – 5:00 pm**

Speaker Ready Room

**6:30 am – 8:00 am**

Exhibits and Posters with Continental Breakfast

**6:30 am – 6:00 pm**

Speaker Ready Room

**6:30 am – 8:00 am**

Committee and Section Meetings

**6:30 am – 7:30 am**

**Industry-Sponsored Event**

**An Oral Formulation for the Acute Treatment of Migraine With or Without Aura**

Sponsored by Collegium Pharmaceutical

*Not Eligible for CME Credits*

**6:30 am – 7:30 am**

**Industry-Sponsored Event**

**A Guided Discussion: AJOVY**

**The Long-Acting Anti-CGRP Injection with Lasting Protection Against Migraine**

Sponsored by Teva

*Not Eligible for CME Credits*

**8:00 am – 8:45 am**

**Seymour Solomon Award Lecture**

**8:45 am – 9:00 am**

**Lifetime Achievement Award**

**9:00 am – 9:15 am**

**NIH Roadmap for Migraine Research Update**

**9:15 am – 10:30 am**

**Future of Headache Medicine**

**10:30 am - 11:15 am**

Exhibits and Posters with Refreshments

**11:15 am – 1:00 pm**

**Scientific Paper Presentations - Session 1**

*Includes Frontiers in Headache Research Scholarship Presentations*

**1:00 pm – 1:30 pm**

**Early Career Award Lecture**



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- |                   |                                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1:30 pm – 2:30 pm | Exhibits and Poster Session<br><i>Lunch Available for Purchase</i>                                                                                                                              |
| 1:30 pm – 2:30 pm | <b>Industry-Sponsored Event</b><br><b>Mechanism of Action in Migraine Therapeutics: Does It Matter to Clinicians and Patients?</b><br>Sponsored by Lilly<br><i>Not Eligible for CME Credits</i> |
| 2:30 pm – 3:15 pm | <b>Harold G. Wolff Award Lecture</b>                                                                                                                                                            |
| 3:15 pm – 5:15 pm | <b>PLENARY: Design and Interpretation of Headache Research and Clinical Trials</b>                                                                                                              |
| 5:15 pm – 7:15 pm | <b>Friday Evening Events</b>                                                                                                                                                                    |
| 5:15 pm – 5:45 pm | Special Interest Section Fair                                                                                                                                                                   |
| 5:45 pm – 7:15 pm | AHS' Got Talent                                                                                                                                                                                 |
| 7:30 pm – 8:30 pm | <b>Industry-Sponsored Event</b><br><b>Treat and Prevent Migraines with an All-in-One Medication</b><br>Sponsored by Biohaven Pharmaceuticals<br><i>Not Eligible for CME Credits</i>             |

**Saturday, June 11, 2022**

- |                     |                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6:00 am – 6:30 am   | Sunrise Yoga                                                                                                                                                                                             |
| 6:30 am – 5:30 pm   | Registration Desk                                                                                                                                                                                        |
| 6:30 am – 7:30 am   | Exhibits and Posters with Continental Breakfast                                                                                                                                                          |
| 6:30 am – 7:30 am   | <b>Industry-Sponsored Event</b><br><b>Starting Today: Effects of a Preventive Treatment Initiated During a Migraine Attack</b><br>Sponsored by Lundbeck<br><i>Not Eligible for CME Credits</i>           |
| 7:30 am – 9:30 am   | <b>Industry-Submitted Abstracts</b><br><i>Not Eligible for CME Credits</i>                                                                                                                               |
| 8:00 am – 10:00 am  | Juniper AV Strike                                                                                                                                                                                        |
| 9:30 am – 10:00 am  | Coffee Break                                                                                                                                                                                             |
| 10:00 am – 10:45 am | <b>DEBATE: Positive Phase 3 Trial: 'So what?' OR 'That's awesome!' Are Clinical Trials Representative of our Patients?</b><br>Chairs: Christina L. Szperka, MD, FAHS; Deborah I. Friedman, MD, MPH, FAHS |
| 10:45 am – 11:15 am | Exhibits and Posters with Refreshments                                                                                                                                                                   |
| 11:15 am – 12:15 pm | <b>CONCURRENT SESSION</b>                                                                                                                                                                                |



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**Scientific Paper Presentations - Session 2A**

**11:15 am – 12:15 pm**

**CONCURRENT SESSION**

**Scientific Paper Presentations - Session 2B**

*Includes Late-Breaking Abstract Presentations*

**12:15 pm – 1:00 pm**

**DEBATE: Is Inflammation a Mechanism of Migraine?**

**1:00 pm – 2:15 pm**

Exhibits and Poster Session

*Lunch Available for Purchase*

**1:00 pm – 2:00 pm**

**Industry-Sponsored Event**

**Setting the Bar Higher: Think You Know DHE? Think Again.**

Sponsored by Impel Pharmaceuticals

*Not Eligible for CME Credits*

**2:15 pm – 3:45 pm**

**Scientific Paper Presentations - Session 3**

*Includes Frontiers in Headache Research Scholarship*

**3:45 pm – 5:45 pm**

**PLENARY: What Makes Migraine Worse**

Moderator: Dawn C. Buse, PhD, FAHS

Chair: Arynah A. Pradhan, PhD

**5:45 pm – 6:30 pm**

**John R. Graham Award Lecture**

**6:30 pm – 7:30 pm**

Wine and Cheese Reception

**Sunday, June 12, 2022**

**7:00 am – 9:00 am**

Registration Desk

**7:00 am – 8:00 am**

Continental Breakfast

**8:00 am – 10:00 am**

**PLENARY: TBI/Post Traumatic Headache**



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# FULL AGENDA

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<b>8:00 am – 10:00 am</b>	<b>Pre-Meeting Courses</b>
<b>Pre-Course 1:</b>	<b>Trials and Tribulations: Optimizing and Expanding Headache Services for Your Patients</b> <i>Practice Management Committee</i>  Moderators: Christina L. Szperka, MD, FAHS; Raissa Villanueva, MD, MPH
8:00 am – 8:05 am	<b>Introductions</b> Christina L. Szperka, MD, FAHS <i>Children's Hospital of Philadelphia</i>  Raissa Villanueva, MD, MPH <i>University of Rochester Medical Center</i>
8:05 am – 8:35 am	<b>How to Get Involved in Clinical Trials</b> Jessica Ailani, MD, FAHS <i>MedStar Georgetown University Hospital</i>  Brad C. Klein, MD, MBA <i>Abington Neurological Associates, LTD</i>
8:35 am – 8:55 am	<b>How to Build a Multi-Disciplinary Team</b> Brian M. Grosberg, MD <i>Hartford Healthcare Headache Center</i>
8:55 am – 9:05 am	<b>Billing/Reimbursement for Psychologists, Working Together</b> Elizabeth K. Seng, PhD, FAHS <i>Yeshiva University/Albert Einstein College of Medicine</i>
9:05 am – 9:15 am	<b>Billing/Reimbursement for APPs/RNs and the Logistics of How to Work Together Efficiently</b> Maureen A. Moriarty, DNP, ANP-BC, FAHS <i>Moriarty Associates</i>
9:15 am – 9:35 am	<b>Prior Authorization- Navigating the Process</b> Raissa Villanueva, MD, MPH



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*University of Rochester Medical Center*

9:35 am – 9:45 am

**Special Issues in Pediatrics**

Christina L. Szperka, MD, FAHS

*Children's Hospital of Philadelphia*

9:45 am – 10:00 am

Panel Discussion

**Pre-Course 2:**

**The Surgical Management of Headache: Cutting Edge Approaches and Controversies**

*CSF Pressure and Volume Disorders and Procedural Headache Medicine Special Interest Sections*

Moderator: Paul G. Mathew, MD, DNBPAS, FAHS

8:00 am – 8:25 am

**ENT Surgical Approaches in Patients with Headache Disorders**

Frederick Godley III, MD, FACS

*Association of Migraine Disorders*

8:25 am – 8:50 am

**Percutaneous And Surgical Approaches CSF Volume Disorders**

Linda Gray Leithe, MD

*Duke University Medical Center*

8:50 am – 9:15 am

**Bariatric Surgery and Headache**

Jennifer McVige, MD, MA

*Dent Neurologic Institute*

9:15 am – 9:40 am

**Nerve Decompression Surgery for the Treatment of Focal Painful Cranial Neuralgias**

Pamela Blake, MD, FAHS

*Headache Center of River Oaks*

9:40 am – 10:00 am

Panel Discussion

**8:00 am – 12:30 pm**

**Hot Topics in Basic Science Symposium**

Moderators: Arynah Pradhan, PhD;

Rami Burstein, PhD

8:00 am – 8:25 am

**Novel Insights into Migraine Mechanisms from Multi-Modal Minimally Invasive Approach**

Andrew C. Charles, MD, FAHS

*University of California, Los Angeles*

8:25 am – 8:50 am

**Piloting a Phosphoproteome Analysis of Migraine Serum**

Tally Largent-Milnes, PhD

*University of Arizona*

8:50 am – 9:15 am

**Circadian Properties of Cluster Headache Medications and The Trigeminal Ganglion**

Mark J. Burish, MD, PhD

*University of Texas Health Science Center at Houston*

9:15 am – 9:40 am

**Uncovering a Neuroendocrine Link to Female-Selective Nociceptor Sensitization in Migraine**





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- Caroline Kopruszinski, PhD  
*University of Arizona*
- 9:40 am – 10:05 am **Human and Mouse Trigeminal Ganglia Cell Atlas Implicates Multiple Cell Types in Migraine**  
William Renthal, MD, PhD  
*Brigham and Women’s Hospital*
- 10:05 am – 10:20 am **Hot Topics Panel Discussion**
- 10:20 am – 10:40 am **Break**
- 10:40 am – 11:05 am **Brain Functions Altered by Peripherally Acting Drugs**  
Rami Burstein, PhD  
*Harvard Medical School*
- 11:05 am – 12:00 pm **Data Blitz Presentations**
- DB-01: Oxytocin Receptors on Calvarial Periosteal Nociceptors: Pain Modulation in a Model of Post-Traumatic Headache**  
Vimala Bharadwaj, PhD  
*Stanford University*
- DB-02: Structure-function Studies of Sodium, Potassium-ATPase Regulators in Migraine**  
Veronica Hubble, PhD  
*Huntington Medical Research Institutes*
- DB-03: Pharmacogenomics—One Step Closer to Precision Medicine in Headache? A Pilot, Exploratory Study of the Effect of Pharmacogenomic Phenotypes on the Adequate Dosing of Verapamil for Migraine Prevention**  
Yi-Chieh Chen, PharmD  
*Mayo Clinic Health System*
- DB-04: Differential Association of Plasma Hormones with Lipolysis in Chronic Migraine**  
Alfred Fonteh, PhD  
*Huntington Medical Research Institute*
- DB-05: Assessing the Mechanistic Processes of Sodium Dysregulation in Migraine Patients**  
Abush Kolko, BS  
*University of California, Santa Barbara*



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**DB-06: Effects of Goreisan, an Herbal Medicine, on Cortical Spreading Depolarization**

Chisato Iba

*Keio University School of Medicine*

**DB-07: Sex Differences in Behavioral Reaction in a Rodent Model of Acute Migraine**

Chenchen Xia, PhD

*Huntington Medical Research Institutes*

12:00 pm – 12:30  
pm

**Group Discussion: Future of Basic Science of Headache**

Chair: Rami Burstein, PhD

*Harvard Medical School*

**10:30 am – 12:30 pm**

**Pacific Rim Symposium**

**How are CGRP-Related Monoclonal Antibodies Changing Migraine Therapy in the Pacific Rim Countries?**

*Pacific Rim Committee*

Moderators: Mamoru Shibata, MD, PhD

**Overview: How Do We Effectively Utilize CGRP-Related Antibodies in Migraine Prophylaxis?**

Mamoru Shibata, MD, PhD

*Tokyo Dental College Ichikawa General Hospital*

**Galcanezumab for Difficult-To-Treat Chronic Migraine: Real-World Experience in Taiwan**

Yen-Feng Wang, MD, PhD

*National Yang-Ming University School of Medicine*

**Monoclonal Antibodies That Work on the CGRP Pathway - The Australian Experience**

Michael Eller, MD

*Monash Medical Centre*

**Clinical Experience of CGRP Monoclonal Antibodies in Korea**

Hong-Kyun Park, MD, MSc

*Inje University*

**Real-World Impact of Calcitonin Gene-Related Peptide (CGRP) Monoclonal Antibodies in Japan: A New Era Of Migraine Therapy**

Daisuke Danno, MD, PhD

*Tominaga Hospital*





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**10:30 am – 12:30 pm**

**Pre-Course 3:**

**Pre-Meeting Courses**

**The Evidence-Free Zones of Pediatric Headache Treatments**

*Behavioral Issues, Complementary & Integrative Medicine, and Pediatric & Adolescent Special Interest Sections*

Moderators: Christina L. Szperka, MD, FAHS; Emily Law, PhD; Niushen Zhang, MD, FAHS

10:30 am – 10:35

am

**Introductions by the Chairs**

Christina L. Szperka, MD, FAHS; Emily Law, PhD; Niushen Zhang, MD, FAHS

10:35 am – 10:55

am

**Part 1: Treatments for Patients with NDPH and other Continuous Headache Disorders (Medications, CBD, Restrictive Diets, Chiropractic, Surgeries) – Considering Benefits and Harms**

Jennifer Hranilovich, MD  
*Children's Hospital Colorado*

10:55 am – 11:05

am

Q&A

11:05 am – 11:35

am

**Part 2: Lifestyle Advice (Sleep, Hydration, Diet, Screen Time, Exercise), a Debate**

***Lifestyle Recommendations are Beneficial for Headache Care***

Lauren Natbony, MD  
*Icahn School of Medicine at Mount Sinai*

***Lifestyle Recommendations Blame the Patient***

Kaitlin Greene, MD  
*Oregon Health & Science University*

11:35 am – 12:00

pm

Summary of Lifestyle Recommendations and Q&A

12:00 pm – 12:20

pm

**Part 3: The State of Research in Pediatric Headache – from Bench to Clinical to Advocacy – Where Have We Been and Where are We Going?**

Serena Orr, MD, MS, FAHS  
*Alberta Children's Hospital*

12:20 pm – 12:30

pm

Q&A

**Pre-Course 4:**

**Understanding Patient-Reported Outcome Measures (PROMs) for Headache Trials and Clinical Practice**

*Methodology, Design & Statistical Issues Special Interest Section*

Moderators: Olivia Begasse de Dhaem, MD; Dawn C. Buse, PhD, FAHS



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10:30 am – 10:55 am	<p><b>“Fit-for-Purpose” PROMs From a Regulatory Standpoint</b>          Jim McGinley, PhD  <i>Vector Psychometric Group, LLC</i></p>
10:55 am – 11:20 am	<p><b>Measuring What Matters: Putting the Patient in PROMs</b>          Rikki Mangrum, MLS  <i>Vector Psychometric Group, LLC</i></p>
11:20 am – 11:45 am	<p><b>Key Quantitative Components Needed for Producing Fit-for-Purpose PROMs</b>          Carrie R. Houts, PhD  <i>Vector Psychometric Group, LLC</i></p>
11:45 am – 12:10 pm	<p><b>How to Select and Effectively Incorporate PROMs into Clinical Practice and Trials</b>          Richard B. Lipton, MD, FAHS  <i>Albert Einstein College of Medicine</i></p>
12:10 pm – 12:30 pm	<p><b>Panel Discussion</b>          RJ Wirth, PhD  <i>Vector Psychometric Group, LLC</i></p>
12:30 pm – 1:30 pm	<p>Dawn C. Buse, PhD, FAHS  <i>Albert Einstein College of Medicine</i></p> <p>Katie Golden  <i>Patient Advocate</i></p> <p><b>Industry-Sponsored Event</b>  <b>Patient and Clinician Perspectives in the Use of Modern Therapies for the Management of Migraine</b>          Sponsored by Lilly  <i>CME Eligible (via sponsor)</i></p> <p>Jessica Ailani, MD, FAHS  <i>MedStar Georgetown University Hospital</i></p> <p>Stephanie J. Nahas, MD, FAHS  <i>Thomas Jefferson University</i></p> <p>Stewart J. Tepper, MD, FAHS  <i>Dartmouth-Hitchcock Medical Center</i></p>
2:00 pm – 2:30 pm	<p><b>Welcome / Opening Remarks / AMF Update</b></p>
2:30 pm – 3:15 pm	<p><b>KEYNOTE</b>  <b>Therapeutic Potential of Psychedelics</b>          Bryan Roth, MD, PhD</p>

JUNE 9-12, 2022  
Denver, Colorado  
Gaylord Rockies Resort



64<sup>th</sup> ANNUAL  
**SCIENTIFIC**  
MEETING  
AmericanHeadacheSociety.org

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*University of North Carolina*

**3:15 pm – 4:30 pm**

***PLENARY: Hot Topics in Headache***

Moderator: Mark J. Burish, MD, PhD

3:15 pm – 3:20 pm

**Introductions**

Nathaniel M. Schuster, MD

*University of California, San Diego*

3:20 pm – 3:40 pm

**Psychedelics and Clinical Trials: What is the Data for Primary Headache Disorders?**

Emmanuelle Schindler, MD, PhD

*Yale University*

3:40 pm – 3:45 pm

Q&A

3:45 pm – 4:05 pm

**How Does the Endocannabinoid System Affect Headache and Disorders?**

Tally Largent-Milnes, PhD

*University of Arizona*

4:05 pm – 4:30 pm

**Panel Discussion**

4:45 pm – 5:30 pm

**AHS Membership Meeting**

*Not Eligible for CME Credits*

***Open to AHS Members Only***

**Board of Directors Transition**

**Member's Choice Award**

*“Management of Primary Headaches During Pregnancy, Postpartum, And Breastfeeding: A Systematic Review”*

Kenneth K. Chen, MD

*Brown University*

**Above and Beyond Awards**

Duren Michael Ready, MD, FAHS

*Baylor Scott & White Clinic*

Stephanie J. Nahas, MD, FAHS

*Thomas Jefferson University*

Adam Sprouse Blum, MD

*University of Vermont Medical Center*

**Distinguished Service Award**

William B. Young, Jr, MD

*Thomas Jefferson University*

5:30 pm – 6:45 pm

Welcome/Exhibitor/Poster Reception



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6:45 pm – 7:45 pm

**Industry-Sponsored Event**

**A Portfolio of Treatments for Migraine Patients**

Sponsored by AbbVie, Inc.

*Not Eligible for CME Credits*

**Friday, June 10, 2022**

6:00 am – 6:30 am

Sunrise Yoga

6:30 am – 8:00 am

Exhibits and Posters with Continental Breakfast

6:30 am – 7:30 am

**Industry-Sponsored Event**

**An Oral Formulation for the Acute Treatment of Migraine With or Without Aura**

Sponsored by Collegium Pharmaceutical

*Not Eligible for CME Credits*

Andrew Blumenfeld, MD

The Los Angeles and San Diego Headache Centers

Please join us to learn more about an oral formulation for the acute treatment of migraine with or without aura.

6:30 am – 7:30 am

**Industry-Sponsored Event**

**A Guided Discussion: AJOVY  
The Long-Acting Anti-CGRP Injection with Lasting Protection Against Migraine**

Sponsored by Teva

*Not Eligible for CME Credits*

7:00 am – 8:00 pm

AHS Executive Office

7:00 am – 6:00 pm

Press Office

**8:00 am – 8:45 am**

**Seymour Solomon Award Lecture**

Introduction: Seymour Solomon

**Black Patients Matter in Headache Medicine: Exploration of Race, Racism, Race-based Headache Disparities and Professional Ethics**

Larry Charleston, IV, MD, MSc, FAHS

*Michigan State University College of Human Medicine*

**8:45 am – 9:00 am**

**Lifetime Achievement Award**

Introduction: Andrew C. Charles, MD, FAHS

Gretchen E. Tietjen, MD



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*University of Toledo*

**9:00 am – 9:15 am**

**NIH Roadmap for Migraine Research Update**

Michael L. Oshinsky, PhD

*NINDS/NIH*

**9:15 am – 10:30 am**

**Future of Headache Medicine**

9:15 am - 9:35 am

**Clinical Fellowship Award**

**Implementing Screening and Treatment for Adverse Childhood Experiences in Pediatric Patients with Headache at the Children’s Hospital of Philadelphia**

Marissa Anto, MD, MSc

*Children's Hospital of Philadelphia*

9:35 am - 9:55 am

**IHA Research Grant Presentation**

**Examining the Impact of the Sleep-Wake Cycle and Sleep Deprivation on Cortical Spreading Depression Susceptibility and Sensory Sensitivity**

Sinifunanya Nwaobi, MD, PhD

*University of California, Los Angeles*

9:55 am - 10:10 am

**Future Of Headache Medicine**

**Voluntary Exercise Reduces Acute and Persistent Post-Traumatic Headache-Related Pain in a Rodent Model**

Vimala Bharadwaj, PhD

*Stanford University*

10:10 am - 10:25 am

**Future Of Headache Medicine (FOMH-02)**

**Presentation of Headache and Its Management in the Emergency Department Amongst a Cohort of Diverse Reproductive Age Women**

Crystal Jicha, MD

*Montefiore Headache Center*

10:30 am - 11:15 am

Exhibits and Posters with Refreshments

**11:15 am – 1:00 pm**

**Scientific Paper Presentations - Session 1**

*Moderators: Jessica Ailani, MD, FAHS; Matthew S. Robbins, MD, FAHS*

11:15 am – 11:25 am

**OR-01: Migraine Prevalence Has Remained Stable While Disability Has Increased in US Population Studies**

Fred Cohen, MD

*Jefferson Headache Center*

11:25 am – 11:35 am

**OR-02: The NIH HEAL Initiative Preclinical Screening Platform for Pain (PSPP) Efforts to Validate Rodent Models of Pain and Migraine**

Smriti Iyengar, PhD



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*NINDS/NIH*

11:35 am – 11:45 am **OR-03: Therapeutic Potential of Cannabinoids on Preclinical Migraine Models**

Erik Zorrilla, BS

*University of Iowa*

11:45 am – 11:55 am **OR-04: Resting-State Functional Connectivity in Pediatric Patients With New Daily Persistent Headache**

Edina Szabo, PhD

*Boston Children's Hospital, Harvard Medical School*

11:55 am – 12:05 pm **OR-05: Implementation of a Best Practice Alert in the Electronic Health Record Reduced Neurology Referrals and Magnetic Resonance Imaging for Headache: A Pilot Program of 1,860 Patients**

Scott M. Friedenberg, MD

*Geisinger Health System*

12:05 pm – 12:15 pm **OR-06: Validity of Self-Reported Migraine in Adolescents and Children**

Danielle J. Kellier, BS

*University of Pennsylvania*

12:15 pm – 12:25 pm **OR-07: Precision Phenotyping in Migraine Using Topological Data Analysis – Visualizing the Spectrum of Migraine Clinical Features**

Chia-Chun Chiang, MD

*Mayo Clinic*

12:25 pm – 12:35 pm **OR-08: Symptoms of Increased Peripheral and Central Trigeminal Sensitization Predict the Response to antiCGRP Monoclonal Antibodies: A Multicenter, 24-Week, Cohort Study on 864 Migraine Patients**

Piero Barbanti, MD, PhD

*IRCCS San Raffaele Roma*

12:35 pm – 1:00 pm **Frontiers in Headache Research Scholarship Lecture+ Award Presentation**

**Mechanisms of Mindfulness' Impact on Migraine After Mindfulness Based Stress Reduction**

Paige Estave, PhD

*Wake Forest School of Medicine*

**1:00 pm – 1:30 pm Early Career Award Lecture**

*Introduction: Matthew S. Robbins, MD, FAHS*

**Migraine with Aura Associates with A Higher Artificial Intelligence-ECG Atrial Fibrillation Prediction Model Output Compared to Migraine without Aura in Both Women and Men**

Chia-Chun Chiang, MD

*Mayo Clinic*





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- |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1:30 pm – 2:30 pm        | Exhibits and Poster Session<br><i>Lunch Available for Purchase</i>                                                                                                                                                                                                                                                                                                                                                                               |
| 1:30 pm – 2:30 pm        | <b>Industry-Sponsored Event</b><br><b>Mechanism of Action in Migraine Therapeutics: Does It Matter to Clinicians and Patients?</b><br>Sponsored by Lilly<br><i>Not Eligible for CME Credits</i><br><br>Jessica Ailani, MD, FAHS<br><i>MedStar Georgetown University Hospital</i><br><br>Peter J. Goadsby, MD, PhD, FAHS<br><i>University of California, Los Angeles</i><br><br>Paul G. Mathew, MD, DNBPAS, FAHS<br><i>Harvard Medical School</i> |
| <b>2:30 pm – 3:15 pm</b> | <b>Harold G. Wolff Award Lecture</b><br><i>Introduction: Matthew S. Robbins, MD, FAHS</i><br><b>Migraine and Peripheral Pain Models Show Differential Alterations in Neuronal Complexity</b><br>Amynah A. Pradhan, PhD<br><i>University of Illinois at Chicago</i>                                                                                                                                                                               |
| <b>3:15 pm – 5:15 pm</b> | <b>PLENARY: Design and Interpretation of Headache Research and Clinical Trials</b><br>Moderator: Elizabeth K. Seng, PhD, FAHS<br>Chair: Jessica Ailani, MD, FAHS                                                                                                                                                                                                                                                                                 |
| 3:15 pm – 3:20 pm        | <b>Introductions</b><br>Robert C. Gibler, PhD<br><i>Cincinnati Children's Hospital Medical Center</i>                                                                                                                                                                                                                                                                                                                                            |
| 3:20 pm – 3:40 pm        | <b>Animal Modeling of Headache and Design Implementation</b><br>Amynah A. Pradhan, PhD<br><i>University of Illinois Chicago</i>                                                                                                                                                                                                                                                                                                                  |
| 3:40 pm – 3:45 pm        | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3:45 pm – 4:05 pm        | <b>The Pitfalls of Unreliable or Missing Data</b><br>Dana Turner, PhD, MSPH<br><i>Massachusetts General Research Institute</i>                                                                                                                                                                                                                                                                                                                   |
| 4:05 pm – 4:10 pm        | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4:10 pm – 4:30 pm        | <b>What Should be the Primary Outcome?</b><br>R.J. Wirth, PhD<br><i>Vector Psychometric Group, LLC</i>                                                                                                                                                                                                                                                                                                                                           |
| 4:30 pm – 4:35 pm        | Q&A                                                                                                                                                                                                                                                                                                                                                                                                                                              |



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***DRAFT – Not for publication***

4:35 pm – 4:55 pm **Setting the Criteria for Selection of Clinical Trials**  
 Jessica Ailani, MD, FAHS  
*MedStar Georgetown University Hospital*

4:55 pm – 5:15 pm **Panel Discussion**

**5:15 pm – 7:15 pm Friday Evening Events**

5:15 pm – 5:45 pm Special Interest Section Fair

5:45 pm – 7:15 pm AHS' Got Talent

7:30 pm – 8:30 pm **Industry-Sponsored Event**

**Treat and Prevent Migraines with an All-in-One Medication**

Sponsored by Biohaven Pharmaceuticals

*Not Eligible for CME Credits*

Peter McAllister, MD

*New England Center for Neurology and Headache*

**Saturday, June 11, 2022**

6:00 am – 6:30 am Sunrise Yoga

6:30 am – 5:30 pm Registration Desk

6:30 am – 7:30 am Exhibits and Posters with Continental Breakfast

6:30 am – 7:30 am **Industry-Sponsored Event**

**Starting Today**

**Effects of a Preventive Treatment Initiated During a Migraine Attack**

Sponsored by Lundbeck

*Not Eligible for CME Credits*

Dawn C. Buse, PhD, FAHS

*Albert Einstein College of Medicine*

Rami Apelian, MD, MPH, FAES

*Huntington Headache & Neurology*

Paul K. Winner, DO, FAAN, FAAP, FAHS

*Palm Beach Headache Center*

**7:30 am – 9:30 am Industry-Submitted Abstracts**

*Not Eligible for CME Credits*

7:30 am – 7:40 am **IOR-01: Efficacy And Safety Of Zavegepant Nasal Spray for the Acute Treatment of Migraine: Results of a Phase 3 Double-Blind, Randomized, Placebo Controlled Trial**

Jelena M. Pavlovic, MD, PhD



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*Albert Einstein College of Medicine/  
Montefiore Headache Center*

- 7:40 am – 7:50 am **IOR-02: Incidences of Traumatic Brain Injury and Post-Traumatic Headache for all Age Groups Using a US Claims Database**  
Juline Bryson, MD  
*Teva*
- 7:50 am – 8:00 am **IOR-03: Migraine-Related Stigma and Its Influence on Disability, Interictal Burden, and Migraine Specific Quality of Life: Results of the OVERCOME (US) Study**  
Robert E. Shapiro, MD, PhD  
*Larner College of Medicine, University of Vermont*
- 8:00 am – 8:10 am **IOR-04: Increased Placebo Response Over Time in Oral Migraine Preventive Trials: A Systematic Literature Review and Meta-Analysis**  
Stewart J. Tepper, MD, FAHS  
*Dartmouth-Hitchcock Medical Center*
- 8:10 am – 8:20 am **IOR-05: Characterizing Preventive Treatment Gaps in Migraine: Interim Results From the CaMEO-International Study United States Sample**  
Dawn C. Buse, PhD, FAHS  
*Albert Einstein College of Medicine*
- 8:20 am – 8:30 am **IOR-06: Cardiovascular Outcomes Associated With Oral Triptans Among Migraine Patients With a History of Cardiovascular Conditions**  
Jessica Ailani, MD, FAHS  
*MedStar Georgetown University Hospital*
- 8:30 am – 8:40 am **IOR-07: A Multicenter, Open Label Study Assessing the Efficacy of AJOVY® (fremanezumab-vfrm) on Interictal Migraine Related Burden**  
Heather Manley, MS, LPC  
*Clinvest Research*
- 8:40 am – 8:50 am **IOR-08: Long-Term Safety and Tolerability of STS101, a Dry Powder Intranasal Dihydroergotamine Product: Initial Data From the ASCEND Study**  
Stewart J. Tepper, MD, FAHS  
*Dartmouth-Hitchcock Medical Center*
- 8:50 am – 9:00 am **IOR-09: Safety and Tolerability of Rimegepant Every Other Day for Preventive Treatment of Migraine Plus As-Needed for Acute Treatment of Migraine: Results from A 52-Week, Open-Label Extension Study**  
Richard B. Lipton, MD, FAHS  
*Albert Einstein College of Medicine*
- 9:00 am – 9:10 am **IOR-10: Early Prediction of Response to INP104 for the Acute Treatment of Migraine**



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9:10 am – 9:20 am	<p>Sara E. Sacco, MD <i>Carolinas Headache Clinic</i></p> <p><b>IOR-11: Decrease in Body Weight With Once-Daily Atogepant for the Preventive Treatment of Migraine: A Post Hoc Analysis</b></p> <p>Jessica Ailani, MD, FAHS <i>MedStar Georgetown University Hospital</i></p>
9:20 am – 9:30 am	<p><b>IOR-12: Celecoxib Oral Solution in the Acute Treatment of Migraine: Pooled Efficacy and Safety Results From 2 Randomized Placebo-controlled Trials</b></p> <p>Stewart J. Tepper, MD, FAHS <i>Dartmouth-Hitchcock Medical Center</i></p>
9:30 am – 10:00 am <b>10:00 am – 10:45 am</b>	<p>Coffee Break</p> <p><b>DEBATE: Positive Phase 3 Trial: 'So what?' OR 'That's awesome!' Are Clinical Trials Representative of our Patients?</b></p> <p>Chairs: Christina L. Szperka, MD, FAHS; Deborah I. Friedman, MD, MPH, FAHS</p> <p>Jan L. Brandes, MD <i>Nashville Neuroscience Group</i></p>
10:45 am – 11:15 am <b>11:15 am – 12:15 pm</b>	<p>Amy Gelfand, MD, FAHS <i>University of California, San Francisco</i></p> <p>Exhibits and Posters with Refreshments</p> <p><b>CONCURRENT SESSION</b></p> <p><b>Scientific Paper Presentations - Session 2A</b></p>
11:15 am – 11:25 am	<p><b>OR-09: Injection of CGRP in the Medial Cerebellar Nucleus Alters Sensory but Not Motor Behaviors</b></p> <p>Thomas Duong <i>University of Iowa</i></p>
11:25 am – 11:35 am	<p><b>OR-10: Efficacy of a Dual ENKephalinase Inhibitor in a Preclinical Stress-Induced Migraine Model</b></p> <p>Hao-Ruei Mei <i>University of Texas at Dallas</i></p>
11:35 am – 11:45 am	<p><b>OR-11: Migraine During Fertility Treatment: Interim Analysis of a Pilot Study</b></p> <p>Joseph Safdieh <i>Weill Cornell Medicine</i></p>
11:45 am – 11:55 am	<p><b>OR-12: Sex Differences in Migraine: A Twin Study</b></p> <p>Morgan C. Fitzgerald, BS <i>University of California San Diego</i></p>



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11:55 am – 12:05 pm **OR-13: The Migraine Disability Assessment (MIDAS) as an Indicator of Resilience in Patients with Headaches**  
Deborah I. Friedman, MD, MPH, FAHS  
*University of Texas Southwestern*

12:05 pm – 12:15 pm **OR-14: There is No Sleeping it Off: The Impact of Poor Sleep in Children with Headache**  
Deirdre A. Caplin, PhD  
*University of Utah*

**11:15 am – 12:15 pm**

**CONCURRENT SESSION**

**Scientific Paper Presentations - Session 2B**

*Includes Late-Breaking Abstract Presentations*

11:15 am – 11:25 am **LBOR-01: Ahead of the Pain: Where We Stand After a Decade of Growth in Headache Subspecialists**  
Skyler L. Kanegi  
*The University of Texas Health Science Center at San Antonio*

11:25 am – 11:35 am **LBOR-02: Drivers of Delayed Alcohol-Induced Headache: A Prospective-Cohort Study**  
David Garcia-Azorin, MD, PhD, MSci  
*Hospital Clinico Universitario de Valladolid*

11:35 am – 11:45 am **LBOR-03: The Impact of Pre-Morbid Headaches on Headache Features and Long-Term Health Outcomes Post Traumatic Brain Injury: Insights from the American Registry for Migraine Research (ARMR)**  
Zachary Leibovit-Reiben, BS  
*Mayo Clinic - Arizona*

11:45 am – 11:55 am **OR-15: A Case-Control Study of Continuous Headache in Youth with Migraine, Persistent Post-Traumatic Headache, and New Daily Persistent Headache**  
Carlyn A. Patterson Gentile, MD, PhD  
*Children's Hospital of Philadelphia, University of Pennsylvania*

11:55 am – 12:05 pm **OR-16: Trends in the Management of Headache Disorders in US Emergency Departments: Analysis of National Hospital Ambulatory Medical Care Survey 2007-2018 Data**  
Seonkyeong Yang, MS  
*University of Florida*

12:05 pm – 12:15 pm **OR-17: Incidence of Status Migrainosus in Olmsted County, Minnesota, United States: Characterization and Predictors of Recurrence**  
Juliana VanderPluym, MD  
*Mayo Clinic Arizona*

**12:15 pm – 1:00 pm**

**DEBATE: Is Inflammation a Mechanism of Migraine?**

Chair: Andrew F. Russo, PhD



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	<p>Dan Levy, PhD, MSc <i>Beth Israel Deaconess Medical Center</i></p>
	<p>Andrew C. Charles, MD, FAHS <i>University of California, Los Angeles</i></p>
1:00 pm – 2:15 pm	<p>Exhibits and Poster Session <i>Lunch Available for Purchase</i></p>
1:00 pm – 2:00 pm	<p><b>Industry-Sponsored Event</b> <b>Setting the Bar Higher: Think You Know DHE? Think Again.</b> Sponsored by Impel Pharmaceuticals <i>Not Eligible for CME Credits</i> Sara E. Sacco, MD <i>Carolinas Headache Clinic</i></p>
<b>2:15 pm – 3:45 pm</b>	<p>Deborah I. Friedman, MD, MPH, FAHS <i>University of Texas Southwestern</i> <b>Scientific Paper Presentations - Session 3</b> <i>Includes Frontiers in Headache Research Scholarship</i></p>
2:15 pm – 2:25 pm	<p><b>OR-18: Migraine Classification Using Deep Learning on Structural Brain MRI Data</b> Mahfuzur Rahman Siddiquee <i>Arizona State University</i></p>
2:25 pm – 2:35 pm	<p><b>OR-19: Anxiety and Depressive Symptoms and Disorders in Children and Adolescents with Migraine: A Systematic Review and Meta-Analysis</b> Serena L. Orr, MD, MSc <i>Alberta Children's Hospital</i></p>
2:35 pm – 2:45 pm	<p><b>OR-20: Validation of Measures of Treatment Expectancy in Children &amp; Adolescents with Headache</b> Christina L. Szperka, MD, FAHS <i>Children's Hospital of Philadelphia</i></p>
2:45 pm – 2:55 pm	<p><b>OR-21: The Unique Role of Stigma in Migraine-Related Disability and Quality of Life</b> Elizabeth K. Seng, PhD <i>Albert Einstein College of Medicine</i></p>
2:55 pm – 3:05 pm	<p><b>OR-22: Glial Activation in Pain and Emotional Processing Regions in a Mouse Model of Chronic Migraine</b> Haley C. Cropper, BS <i>University of Illinois at Chicago</i></p>
3:05 pm – 3:15 pm	<p><b>OR-23: Examining the Test-Retest Consistency of Sensory Hypersensitivity Measures in Headache Subjects</b></p>





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	Eric Tokita <i>University of Utah</i>
3:15 pm – 3:25 pm	<b>OR-24: Late Response to Anti-CGRP Monoclonal Antibodies Occurs in One-Third of Migraine Patients.</b> Piero Barbanti, MD, PhD <i>IRCCS San Raffaele Roma</i>
3:25 pm – 3:35 pm	Frontiers in Headache Research Scholarship Presentation <b>Exploring the Neurobiology of the Premonitory Phase of Migraine Preclinically: Possible Involvement of Hypothalamic Kappa Opioid Receptor (KOR) Signaling</b> Caroline Kopruszinski, PhD <i>University of Arizona</i>
3:35 pm – 3:45 pm	Frontiers in Headache Research Scholarship Presentation <b>Headache Disability in Children and Adolescents Before and During The COVID-19 Pandemic</b> Brian LaGrant, MD <i>Children's Hospital of Philadelphia</i>
<b>3:45 pm – 5:45 pm</b>	<b>PLENARY: What Makes Migraine Worse</b> Moderator: Dawn C. Buse, PhD, FAHS Chair: Aynah A. Pradhan, PhD
3:45 pm – 3:50 pm	<b>Introductions</b> Eric A. Kaiser, MD, PhD <i>University of Pennsylvania</i>
3:50 pm – 4:10 pm	<b>Sleep</b> Emily Law, PhD <i>University of Washington &amp; Seattle Children's Hospital</i>
4:10 pm – 4:15 pm	Q&A
4:15 pm – 4:35 pm	<b>Medication Overuse</b> Todd J. Schwedt, MD, MSCI, FAHS <i>Mayo Clinic - Arizona</i>
4:35 pm – 4:40 pm	Q&A
4:40 pm – 5:00 pm	<b>Obesity</b> Dale S Bond, PhD <i>Hartford Hospital/HealthCare</i>
5:00 pm – 5:05 pm	Q&A
5:05 pm – 5:25 pm	<b>Psychiatric Comorbidities</b> Todd A. Smitherman, PhD, FAHS <i>University of Mississippi</i>
5:25 pm – 5:45 pm	<b>Panel Discussion</b>
<b>5:45 pm – 6:30 pm</b>	<b><i>John R. Graham Award Lecture</i></b>



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Introduction: Paul B. Rizzoli, MD, *Clinical Director, John R. Graham Headache Center*

***Veni, Vidi, Ego conatus... In Memory of our Mentors***

Peter J. Goadsby, MD, PhD, FAHS  
*University of California, Los Angeles*

6:30 pm – 7:30 pm

Wine and Cheese Reception

**Sunday, June 12, 2022**

7:00 am – 9:00 am

Registration Desk

7:00 am – 8:00 am

Continental Breakfast

**8:00 am – 10:00 am**

***PLENARY: TBI/Post Traumatic Headache***

Moderator: Alan G. Finkel, MD, FAHS

Chair: Catherine D. Chong, PhD, FAHS

8:00 am – 8:05 am

***Introductions***

Carlyn Patterson Gentile, MD, PhD

*Children's Hospital of Philadelphia*

8:05 am – 8:25 am

***Possible Mechanisms in the Origins of Post-Traumatic Headache***

K.C. Brennan, MD

*University of Utah*

8:25 am – 8:30 am

Q&A

8:30 am – 8:50 am

***Imaging Migraine and Post-Traumatic Headache: Similarities and Differences***

Catherine D. Chong, PhD, FAHS

*Mayo Clinic - Arizona*

8:50 am – 8:55 am

Q&A

8:55 am – 9:15 am

***Epidemiology of Post-Traumatic Headache within the Veterans Health Administration***

Jason Sico, MD, MHS

*Veterans Health Administration*

9:15 am – 9:20 am

Q&A

9:20 am – 9:40 am

***Clinical Perspective on PTH***

Tad Seifert, MD

*Norton Healthcare*

9:40 am – 10:00 am

***Panel Discussion***