

**AHS 2018 Annual Scientific Meeting
Program Agenda**

WEDNESDAY, JUNE 27, 2018

1:00 pm – 5:00 pm

Women's Leadership Development Course

Moderator: Rashmi B. Halker, MD, FAHS

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| 1:00 pm - 1:50 pm | Sponsorship versus Mentorship: Tools for Advancing Your Career and Helping Others Around You Liz Travis |
| 1:50 pm – 2:00 pm | Q&A |
| 2:00 pm - 2:50 pm | Negotiation for Women... Tips for Contracts, Salaries and Anything Else Sara Laschever |
| 2:50 pm – 3:00 pm | Q&A |
| 3:00 pm - 4:30 pm | Panel Discussion: My Career in Medicine and How I Make It Work Moderator: Barb Hoese Panelists: Sheena Aurora, Allison Brashear, Denise Chou, Kathleen Digre, Judy Lane, Elizabeth Loder, Claudia Lucchinetti |
| 4:30 pm – 5:00 pm | Our Calling Cards: A Reflection on Goals and Values Barb Hoese |

THURSDAY, JUNE 28, 2018

8:00 am – 10:30 am

Pre-meeting Courses

8:00 am – 10:30 am

Course I: Innovations and Lessons Learned from Current Behavioral Headache Research

Presented by the Behavioral Issues Section and Methodology, Design and Statistical Issues Sections

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| 8:00 am – 8:30 am | New Evidence in Medication Overuse Headache Frank Andrasik, PhD |
| 8:30 am – 9:00 am | Clinical Trials in Pediatric Headache Medicine Scott Powers, PhD |

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| 9:00 am – 10:00 am | Mindfulness for Migraine: Recent Clinical Trial Evidence Elizabeth K. Seng, PhD |
| 10:00 am – 10:30 am | Discussion Don Penzien, PhD |
| 8:00 am – 10:30 am | Course II: Navigating Integrative Medicine Approaches with Patients Based on Evidence <i>Presented by Complementary and Integrative Medicine Section</i> |
| 8:00 am – 8:35 am | Case Presentation Deena Kuruvilla, MD |
| 8:35 am – 9:25 am | Acupuncture Adelene Jann, MD |
| 9:25 am – 10:10 am | Mindfulness and Meditation Rebecca Erwin Wells, MD, MPH, FAHS |
| 10:10 am – 10:25 am | Conclusion Deena Kuruvilla, MD |
| 8:00 am – 10:30 am | Course III: A Practical Approach to Procedures in Headache Medicine: A Review of Current Evidence and Cases in Clinical Practice <i>Presented by Procedures in Headache Medicine Section</i> |
| 8:00 am – 8:10 am | Introduction Jessica Ailani, MD, FAHS |
| 8:10 am – 8:40 am | Anatomy and Mechanisms of Procedures Carrie Beth Robertson, MD, FAHS |
| 8:40 am – 9:00 am | Evidence for Procedures Matthew Robbins, MD, FAHS |
| 9:00 am – 9:30 am | Performing Procedures in the Clinic Andrew Blumenfeld, MD |
| 9:30 am – 9:50 am | Procedures in Special Populations (Pediatrics, Pregnancy, Geriatrics) with Cases Christina Szperka, MD |
| 9:50 am – 10:15 am | Case-based Billing and Coding All Faculty |
| 10:15 am – 10:30 am | Q & A All Faculty |
| 8:00 am – 10:30 am | Course IV: UCNS Review Course |

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| 8:00 am - 8:05 am | <i>Introduction to UCNS</i> Noah Rosen, MD, FAHS |
| 8:05 am – 8:25 am | <i>Introduction to ICHD3</i> Morris Levin, MD, FAHS |
| 8:25 am – 8:45 am | <i>Secondary Headaches</i> Noah Rosen, MD, FAHS |
| 8:45 am - 9:05 am | <i>TACs</i> Rashmi Halker, MD, FAHS |
| 9:05 am - 9:30 am | <i>Headache Epidemiology, Pathophysiology & Genetics</i> Andrew C. Charles, MD, FAHS |
| 9:30 am – 9:50 am | <i>Migraine Treatment</i> Jessica Ailani, MD, FAHS |
| 9:50 am – 10:10 am | <i>Headache in Special Populations: Children/Adolescents, Pregnancy/Lactation and the Elderly</i> Lauren Doyle Strauss, DO |
| 10:10 am – 10:25 am | <i>High Yield Images</i> Stephanie Nahas, MD, FAHS |
| 10:25 am – 10:30 am | Q & A |
| 10:30 am – 12:30 pm | Pan-American /Asian Symposium |
| 10:30 am – 10:45 am | <i>Prediction of Migraine Attack by Resting EEG</i> Dr. Kuan-Lin Lai |
| 10:45 am – 10:50 am | Discussion |
| 10:50 am – 11:05 am | <i>Headache and Migraine in Parkinson’s Disease</i> Dr. Keisuke Suzuki |
| 11:05 am – 11:10 am | Discussion |
| 11:10 am – 11:25 am | <i>Short Sleep Duration and Poor Sleep Quality Among Migraineurs</i> Dr. Tae-Jin Song |
| 11:25 am – 11:30 am | Discussion |
| 11:30 am – 11:45 am | <i>Cognitive Impairment of Patients with Chronic Migraine does not depend on the use of Topiramate or Comorbidities</i> Dr. Karen dos Santos Ferreira |

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| 11:45 am – 11:50 am | Discussion |
| 11:50 am – 12:05 am | <i>Allodynia in Menstrually Related Migraine</i> Dr. Eliana Meire Melhado |
| 12:05 pm – 12:10 pm | Discussion |
| 12:10 pm – 12:25 pm | <i>Clomiphene Treatment May Be Effective in Refractory Episodic and Chronic Cluster Headache</i> Dr. Maria Eduarda Nobre |
| 12:25 pm – 12:30 pm | Discussion and Closing Remarks |
| 12:30 pm – 2:00 pm | Industry-supported Event Satellite Symposium: Managing Patients in Urgent Need of Preventive Migraine Care: When Prophylactic Needs Shouldn't Wait Supported by Alder BioPharmaceuticals, Inc. Session is not certified for CME credits. |
| 1:00 pm – 2:00 pm | Industry-supported Event Product Theater: gammaCore® (nVNS) Scientific and Clinical Basis for the Acute Treatment of Headache Supported by electroCore, LLC. Session not certified for CME credits. |
| 2:15 pm – 2:45 pm | Welcome / Opening Remarks / AMF Update |
| 2:45 pm – 4:30 pm | Symposium in Honor of Neil H. Raskin, MD, FAHS Moderator: R. Allan Purdy, MD, FAHS and Joel R. Saper, MD, FAHS |
| 2:45 pm – 3:00 pm | Welcome / Dr. Raskin Comments |
| 3:00 pm – 3:30 pm | <i>Channelopathies</i> Louis Ptacek, MD |
| 3:30 pm – 4:00 pm | <i>Clinical Contributions of Neil H. Raskin</i> Peter J. Goadsby, MD, PhD, FAHS |
| 4:00 pm – 4:30 pm | <i>UCSF - The Next Generation</i> Amy Gelfand, MD, FAHS |
| 4:30 pm – 5:15 pm | AHS Membership Meeting |
| 5:15 pm – 6:30 pm | Exhibit Welcome Reception |
| 6:30 pm – 8:00 pm | Industry-supported Event Satellite Symposium: Patient Perspectives and Future Therapeutics on Preventive Therapies for Migraine Supported by Eli Lilly and Company |

7:00 pm – 8:00 pm Industry-supported Event
Product Theater: e-TNS for the Treatment of Migraine
Support by Cefaly Technology. Session not certified for CME credits.

8:00 pm – 9:00 pm Committee and Section Meetings

FRIDAY, JUNE 29, 2018

6:30 am – 8:00 am Committee and Section Meetings

6:30 am – 8:00 am Academic Program Director Meeting (invitation only)

6:30 am - 8:00 am Continental Breakfast

6:30 am – 4:00 pm Exhibits and Posters
(Exhibit area closed 11:30 am – 1:15 pm)

8:00 am – 8:45 am **Seymour Solomon Award Lecture**
Deborah Friedman, MD, MPH, FAHS

8:45 am – 9:00 am **Lifetime Achievement Award**
Presented by Kathleen B. Digre, MD, FAHS
Recipient: Robert B. Daroff, MD, FAHS

9:00 am – 9:15 am **NIH Roadmap for Migraine Research**
Michael Oshinsky, PhD

9:15 am – 9:30 am **Video Contest Winner Viewing**

9:30 am – 10:45 am **Future of Headache Medicine**
Includes IHA Presentations and NIT Submissions
Moderator: Werner Becker, MD, FAHS and Matthew Robbins, MD, FAHS

9:30 am – 9:40 am IHA Research Grant Presentation
Incidence, Consequences and Prevention of Postoperative, Pain-related
Hospital Readmission in Migraineurs
Katharina Platzbecker, MD

9:40 am – 9:50 am IHA Research Grant Presentation
Photosensitivity, Tactile Hypersensitivity and Pain-related Facial Features as
Objective Biomarkers of Chronic PTH
Anne-Sophie Wattiez, PhD

9:50 am – 10:00 am New Investigator Presentation
FHM01
Disruptions of Awake Glutamate Signaling in Two Models of Migraine
Patrick Parker, BSc

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| 10:00 am – 10:10 am | New Investigator Presentation FHM02 Effects of Subthreshold Single Pulse Transcranial Magnetic Stimulation (sTMS) on Cortical Excitability Relevant to Migraine Anna P. Andreou, PhD |
| 10:10 am – 10:20 am | New Investigator Presentation FHM03 Symptoms of Autonomic Dysfunction in Persistent Post-Traumatic Headache Versus Migraine Levi Howard, MD |
| 10:20 am – 10:30 am | New Investigator Presentation FHM04 Profiling Corticotropin-Releasing Factor Receptor Pharmacology and Signaling in Transfected Cells and the Trigeminal Ganglia Zoe Tasma, BSc |
| 10:30 am – 10:40 am | New Investigator Presentation FHM05 Investigating Cellular and Synaptic Mechanisms Underlying Migraine Phenotype in the Casein Kinase 1 Delta (CK1δ) Mutant Mouse Pratyush Suryavanashi, MS |
| 10:45 am – 11:30 am | Committee and Section Meetings |
| 10:45 am - 11:30 am | Refreshment Break in Exhibit and Poster Hall |
| 11:30 am – 1:00 pm | Scientific Paper Presentations - Session 1 Includes Frontiers in Headache Research Scholarship Presentations Moderators: Rashmi Halker, MD, FAHS and Stewart J. Tepper, MD, FAHS |
| 11:30 am – 11:40 am | LBOR-01 Differences in fibertract profiles between patients with migraine and those with persistent post-traumatic headache Catherine Chong, MD |
| 11:40 am – 11:50 am | OR-02 Assessing Unmet Treatment Needs and Associated Disability in Persons with Migraine: Results from Migraine in America Symptoms and Treatment (MAST) Study Speaker TBD |
| 11:50 am – 12:00 pm | OR-03 Lasmiditan Inhibits CGRP Release in the Mouse Trigeminovascular System Antoinette Maassen van den Brink, PhD |
| 12:00 pm – 12:10 pm | LBOR-02 |

Enrichment of migraine susceptibility genes in the enteric nervous system
William Renthall, MD

12:10 pm – 12:20 pm

OR-05

Neuroinflammatory Marker Expression in Cerebral Cortex After Non-invasive Optogenetic Induction of Spreading Depolarization in Mice
Tsubasa Takizawa, MD, PhD

12:20 pm – 12:30 pm

OR-06

Life with Migraine, Effect on Relationships: Results of the Chronic Migraine Epidemiology and Outcomes (CaMEO) Study
Dawn C. Buse, PhD, FAHS

12:30 pm – 12:40 pm

OR-07

When Mom Has Migraine: An Observational Study of the Burden of Parental Migraine on Children
Elizabeth K. Seng, PhD, FAHS

12:40 pm – 12:50 pm

OR-08

Profiling Antagonist Pharmacology at CGRP (CLR/RAMP1) and AMY1 (CTR/RAMP1) Receptors
Debbie Hay, PhD

12:50 pm – 1:00 pm

Frontiers in Headache Research Scholarship Presentation

Differential Regulation of Migraine-associated Pain and Negative Affect by Central and Peripheral Delta Opioid Receptors
Isaac Dripps, PhD

1:00 pm – 1:15 pm

Scholarship Award Presentation

Presented by Andrew C. Charles, MD, FAHS

1:15 pm – 2:15 pm

Lunch for Purchase in Exhibit and Poster Hall (authors present)

1:15 pm – 2:15 pm

Electronic Poster Presentations

Moderators: Jessica Ailani, MD, FAHS; Morris Levin, MD, FAHS; Amynah Pradhan, PhD and Bert Vargas, MD, FAHS

2:15 pm – 3:00 pm

Harold G. Wolff Award Lecture

Identifying Natural Subgroups of Migraine Based on Profiles of Comorbidities and Concomitant Conditions: Results of the Chronic Migraine Epidemiology and Outcomes Study (**OR17**)
Richard B. Lipton, MD
Moderator: Andrew C. Charles, MD, FAHS

3:00 pm – 4:00 pm

PLENARY-Part 1

Science Behind Common Clinical Issues

Moderators: Rami Burstein, PhD and Todd Schwedt, MD, FAHS

3:00 pm – 3:20 pm

Migraine and Epilepsy

Eric Kossoff, MD

3:20 pm – 3:40 pm

Epidemiology of Incidental Findings

Randolph W. Evans, MD, FAHS

3:40 pm – 4:00 pm

Evidence Basis Behind the Use of Supplements

Tamara Pringsheim, MD

4:00 pm – 5:00 pm

PLENARY – Part 2

Therapeutic Targets of the Future

Moderators: Rami Burstein, PhD and Todd Schwedt, MD, FAHS

4:00 pm – 4:20 pm

Role of the Hypothalamus in Primary Headache Disorders

Andrew C. Charles, MD, FAHS

4:20 pm – 4:40 pm

The Cycling Brain

Catherine Chong, PhD

4:40 pm – 5:00 pm

Peripheral Nervous System Targets

Chelsea Hesterman, MD

5:00 pm – 6:30pm

Industry-supported Event

Satellite Symposium: New Era of Migraine Management: The Changing Landscape in Prevention

Supported by Teva and MediCom Worldwide, Inc.

5:30 pm – 6:30pm

Industry-supported Event

Product Theater: Head to Head: The Debate Over Migraine

Supported by Amgen, Inc./Novartis Pharmaceuticals. Session not certified for CME credits.

SATURDAY, JUNE 30, 2018

7:00 am – 8:00 am

Industry-supported Event

Product Theater: Introducing Pulsante (SPG Stimulation) a New Treatment for Chronic Cluster

Supported by Autonomic Technologies, Inc. Session not certified for CME credits.

6:30 am – 8:00 am

Continental Breakfast

6:30 am – 2:15 pm

Exhibits and Posters

(Exhibit hall closed 10:30am-12:00pm)

8:00 am – 10:00 am

Industry-submitted Abstracts*

**Session not eligible for CME*

Moderators: Andrew C. Charles, MD, FAHS and Elizabeth W. Loder, MD, MPH, FAHS

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| 8:00 am – 8:10am | <p>IOR-01 Long-term Safety and Tolerability of Erenumab: Three-plus Year Results from an Ongoing Open-label Extension Study in Episodic Migraine Messoud Ashina, MD, PhD, DMSc</p> |
| 8:10 am – 8:20 am | <p>IOR-02 Phase 3 Studies (SAMURAI, SPARTAN) of Lasmiditan Compared to Placebo for Acute Treatment of Migraine Linda A. Wietecha, BSN, MS</p> |
| 8:20 am – 8:30 am | <p>IOR-03 Eptinezumab Reduced Migraine Activity and Achieved High Migraine Responder Rates over Weeks 1–12: Results from the Phase 3 PROMISE-2 Trial in Chronic Migraine Paul K. Winner, DO, FAHS</p> |
| 8:30 am – 8:40 am | <p>IOR-04 Eptinezumab Achieved Meaningful Reductions in Migraine Activity as Early as Day 1:PROMISE-2 (Prevention of Migraine via Intravenous Eptinezumab Safety and Efficacy-2) Phase 3 Trial in Chronic Migraine David Kudrow, MD</p> |
| 8:40 am – 8:50 am | <p>IOR-05 Rapid Onset of Effect of Galcanezumab for the Prevention of Episodic Migraine: Post-hoc Analyses of Two Phase 3 Studies Sheena K. Aurora, MD</p> |
| 8:50 am – 9:00 am | <p>IOR-06 A Multicenter, Prospective, Randomized, Open-Label Study to Compare OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults with Chronic Migraine: Patient Reported Outcomes from the FORWARD Study Andrew Blumenfeld, MD</p> |
| 9:00 am – 9:10 am | <p>IOR-07 The Impact of Fremanezumab on Medication Overuse in Patients with Chronic Migraine Stephen D. Silberstein, MD, FAHS</p> |
| 9:10 am – 9:20 am | <p>IOR-08 Efficacy and Safety of Erenumab in Episodic Migraine Patients with 2–4 Prior Preventive Treatment Failures: Results from the Phase 3b LIBERTY Study TBN</p> |
| 9:20 am – 9:30 am | <p>IOR-09 Assessment of Pharmacokinetics, Target Engagement and Immunogenicity in Patients with Migraine Administered Galcanezumab, an Anti-CGRP Antibody</p> |

William Kielbasa, PhD

9:30 am – 9:40 am

IOR-10

Low-Dose (3 Mg) Sumatriptan Injection (DFN-11) Efficacy, Tolerability, and Safety in Episodic Migraine: RESTOR, a Randomized, Double-Blind, Placebo Controlled Study

Stephen Landy, MD

9:40 am – 9:50 am

IOR-11

Achievement of Response with Fremanezumab in the Treatment of Chronic Migraine

Paul K. Winner, DO, FAHS

9:50 am – 10:00 am

IOR-01LB

Ubrogepant for the Acute Treatment of Migraine: Efficacy, Safety, Tolerability, and Functional Impact Outcomes from a Single Attack Phase III Study, ACHIEVE I

David W. Dodick, MD, FRCP, FACP, FAHS

10:00 am – 10:10 am

IOR-02LB

Efficacy, Safety, and Tolerability of Rimegepant 75 mg, an Oral CGRP Receptor Antagonist, for the Acute Treatment of Migraine: Results from a Double-Blind, Randomized, Placebo-Controlled Trial, Study 302

Richard B. Lipton, MD

10:10 am – 10:20 am

IOR-03LB

Study CGAL: A Phase 3 Placebo-Controlled Study of Galcanezumab in Patients with Episodic Cluster Headache: Results from the 8-Week Double-Blind Treatment Phase

Sheena K. Aurora, MD, FAHS

10:00 am – 10:30 am

Refreshment Break in Exhibit and Poster Hall

10:30 am – 12:00 pm

Scientific Paper Presentations Including Late Breaking Abstract Presentations and Frontiers in Headache Research Scholarship Presentations Session 2

Moderators: Deborah I. Friedman, MD, MPH, FAHS and Robert Shapiro, MD, PhD

10:30 am – 10:40 am

OR-09

Peripheral CGRP-induced Spontaneous Pain in a Pre-clinical Mouse Model of Migraine

Levi Sowers, PhD

10:40 am – 10:50 am

OR-10

Accuracy of Appraisal of Headache Trigger Patterns Using Calendars

Dana P. Turner, MSPH, PhD

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| 10:50 am – 11:00 am | OR-11 Triptan Use and Discontinuation in a Representative Sample of Persons with Migraine: Results from Migraine in America Symptoms and Treatment (MAST) Study Aftab Alam, MBBS, MS, MBA |
| 11:00 am – 11:10 am | OR-12 Non-invasive Stimulation of the Vagal Nerve Reduces Provoked Cranial Autonomic Output in Healthy Volunteers Maike Moeller, M.Sc. |
| 11:10 am – 11:20 am | OR-13 Profiling Calcitonin Gene-related Peptide Receptor Signaling in Transfected Cells and Trigeminal Ganglia Neurons Christopher S. Walker, PhD |
| 11:20 am – 11:30 am | OR-14 Post-Traumatic vs Non-Traumatic Headaches: A Phenotypic Analysis Andrea Metti, PhD |
| 11:30 am – 11:40 am | LBOR-03 Age-related Cortical Thickness Changes in Chronic Migraine Yohannes W. Woldeamanuel, MD |
| 11:40 am – 11:50 am | LBOR-04 Adverse childhood experience and medication overuse headache: frequency and effects on response to treatment Claire H. Sandoe, MD, MSc |
| 11:50 am – 12:00 pm | Frontiers in Headache Research Scholarship Presentation Photoreceptor-specific Mechanisms of Migraine-associated Photophobia Eric Kaiser, MD, PhD |
| 12:00 pm – 1:00 pm | DEBATE Migraine Triggers Should Always be Avoided PRO - Richard B. Lipton, MD, FAHS CON - Paul R Martin, OAM, FBPsS, Hon FAPS Moderators: Dawn C. Buse, PhD, FAHS and Paul Winner, DO, FAHS |
| 1:00 pm – 2:15 pm | Lunch for Purchase in Exhibit and Poster Hall (authors present) |
| 1:00 pm – 2:15 pm | Electronic Poster Presentations Moderators: Rami Burstein, PhD; Amy Gelfand, MD, FAHS; Amaal Starling, MD, FAHS and Stewart J. Tepper, MD, FAHS |
| 2:15 pm – 3:45 pm | Scientific Paper Presentations – Session 3 Includes Frontiers in Headache Research Scholarship Presentations Moderators: Kathleen B. Digre, MD, FAHS and Jelena Pavlovic, MD |
| 2:15 pm – 2:25 pm | OR-15 |

Reversion of Patients with Chronic Migraine to an Episodic Migraine
Classification with Fremanezumab Treatment

Rashmi B. Halker Singh, MD, FAHS

2:25 pm – 2:35 pm

OR-16

Migraine Pattern Changes in Women During the Menopause Transition
Yu-Chen Cheng, MD, MPH

2:35 pm – 2:45 pm

LBOR-05

Examination of the psychometric properties of the Headache Specific Locus of
Control scale in people with migraine
Amy S. Grinberg, MA

2:45 pm – 2:55 pm

LBOR-06

Interest and Demand for Non-Opioid, Non-Drug Treatment Options for
Migraine
Rebecca E. Wells, MD, MPH, FAHS

2:55 pm – 3:05 pm

LBOR-07

A randomized, sham-controlled trial of bilateral greater occipital nerve blocks
with bupivacaine for acute migraine patient's refractory to standard
emergency department treatment with metoclopramide
Eddie Irizarry, MD

3:05 pm – 3:15 pm

LBOR-08

Rimegepant and BHV-3500, Small Molecule CGRP Receptor Antagonists,
Exhibit No Active Vasoconstrictive Properties in Ex Vivo Human Coronary or
Cerebral Arteries
Charles M. Conway, PhD

3:15 pm – 3:25 pm

LBOR-09

Neuromodulation of Cortical Spreading Depression in the Ferret
Serapio M. Baca, PhD

3:35 pm – 3:45 pm

Frontiers in Headache Research Scholarship Presentation

Central and Systemic Inflammation After Spreading Depolarizations
Tsubasa Takizawa, MD, PhD

3:45 pm – 4:30 pm

Committee and Section Meetings

4:30 pm – 5:15 pm

John R. Graham Award Lecture

Teaching Headache Neurology 2018

R. Allan Purdy MD, FRCPC

Moderator: David W. Dodick, MD, FAHS and Paul Rizzoli, MD, FAHS

SUNDAY, JULY 1, 2018

7:00 am – 8:00 am

Continental Breakfast

8:00 am – 9:30 am

PLENARY – Part 3

Chronic Migraine vs. Chronic Pain: Similarities and Differences

Moderators: Morris Levin, MD, FAHS and Paul Winner, DO, FAHS

8:00 am – 8:30 am

Clinical Differences/Background

David W. Dodick, MD, FAHS

8:30 am – 9:00 am

Chronic Migraine vs Chronic Pain as Seen in Imaging Studies in Humans

David Borsook, MD, PhD

9:00 am – 9:30 am

Pathophysiological Differences and Similarities as Seen in Translational Studies in Animals and Humans

Rami Burstein, PhD

9:30 am – 10:00 am

OPEN DEBATE

Questions, Answers and Comments by Participants and Presenters

David Dodick, MD, FAHS

David Borsook, MD, PhD

Rami Burstein, PhD

Moderators: Andrew C. Charles, MD, FAHS and Bert Vargas, MD, FAHS