

**61st Annual Scientific Meeting of the American Headache Society
Preliminary Program**

<u>THURSDAY, JULY 11, 2019</u>	
6:30 am – 7:30 am	<p>Industry-supported Event</p> <p>Phytomedicines in Migraine: Mechanisms Including Effects on CGRP, Review of Efficacy and Safety <i>Supported by Linpharma Inc. Session not certified for CME.</i></p>
8:00 am – 10:00 am	Pre-meeting Courses
8:00 am – 10:00 am	<p>PC1: The Anatomy of Headache and Orofacial Pain: An Interventional Based Cadaver Course <i>Presented at Thomas Jefferson University</i></p> <p>Moderator: Paul G. Mathew, MD, DNBPAS, FAHS</p>
8:00 am- 8:20 am	<p>Temporomandibular Disorders: Diagnosis and Management</p> <p>Marcela Romero-Reyes, DDS, PhD, FAHS University of Maryland</p>
8:20 am - 8:40 am	<p>Cranial Neuralgias: Nerve Blocks and Other Interventional Procedure</p> <p>Paul G. Mathew, MD, DNBPAS, FAHS Brigham and Women's Hospital Department of Neurology Harvard Medical School</p>
8:40 am - 9:20 am	<p>Expert Panel Discussion</p> <p>Marcela Romero-Reyes, DDS, PhD, FAHS University of Maryland</p>

	<p>Paul G. Mathew, MD, DNBPAS, FAHS Brigham and Women's Hospital Department of Neurology Harvard Medical School</p> <p>Rami Burstein, PhD Beth Israel Deaconess Medical Center</p> <p>Stephen D. Silberstein, MD, FAHS Jefferson Headache Center</p> <p>Alan Stiles, DMD Thomas Jefferson University</p>
9:20 am - 10:00 am	<p>Cadaver Dissection Session</p> <p>Daniel Choi, DDS, MD Thomas Jefferson University Hospital</p>
8:00 am - 10:00 am	<p>PC2: Bridging the Gap Between Statistics and Applied Headache Research: A Collaborative Approach</p> <p>Moderator: Megan Irby, MS, PhD</p>
8:00 am - 8:10 am	<p>Welcome and Introduction</p> <p>Megan B. Irby, MD Wake Forest School of Medicine</p>
8:10 am - 8:35 am	<p>Key Components to Designing (and Critiquing) Quantitative Headache Research Studies</p> <p>James McGinley, PhD Vector Psychometric Group, LLC</p>
8:35 am - 9:00 am	<p>Fundamental Statistical Concepts for Better Understanding and Conducting Headache Research</p> <p>Elizabeth Seng, PhD, FAHS Albert Einstein College of Medicine Yeshiva University</p>
9:00 am - 9:20 am	<p>How to Choose and Effectively Work with a Statistical Consultant</p> <p>RJ Wirth, PhD Vector Psychometric Group, LLC</p>

9:20 am – 9:40 am	<p>Insights on Research Design, Methods and Statistical Approaches</p> <p>Richard B. Lipton, MD, FAHS Albert Einstein College of Medicine</p>
9:40 am – 10:00 am	Panel Discussion and Questions
10:00 am – 10:30 am	Coffee Break
10:30 am – 12:30 pm	Pre-Meeting Courses
10:30 am – 12:30 pm	<p>PC3: Survival Skills in Practice: Coding, Practice Management and EMR Efficiencies</p> <p>Moderator: Christina Szperka, MD, MSCE, FAHS</p>
10:30 am - 10:35 am	<p>Introductions</p> <p>Brad Klein, MD, MBA Abington Neurological Associates</p>
10:35 am - 11:00 am	<p>Basic Coding</p> <p>Jessica Ailani, MD, FAHS Medstar Georgetown University Hospital</p>
11:00 am - 11:25 am	<p>Advanced Coding</p> <p>Raissa Villaneuva, MD, MPH University of Rochester Medical Center</p>
11:25 am- 11:35 am	<p>Improving Your Efficiency with Your EMR</p> <p>Christina Szperka, MD, MSCE, FAHS Children’s Hospital of Philadelphia</p>
11:35 am - 12:15 pm	<p>Practice Management Overview</p> <p>Brian Grosberg, MD, FAHS Ayer Neuroscience Institute, Hartford Healthcare</p>
10:30 am – 12:30 pm	Extinguishing Burnout: Finding Professional Fulfillment & Wellness in Life – The 2019 AHS Women’s Leadership Development Program

	Moderator: Rashmi B. Halker Singh, MD, FAHS
10:30 am - 10:40 am	Advocacy as an Antidote to Burnout Amaal Starling, MD, FAHS Mayo Clinic
10:40 am - 10:50 am	Can Your Workplace Reflect Your Needs? What Is Possible at the Institutional Level for Improving Fulfillment Rebecca Burch, MD, FAHS Brigham and Women's Hospital Department of Neurology Harvard Medical School
10:50 am - 11:00 am	Setting Yourself up for Success with Healthy Expectations Sara Sacco, MD, FAHS Carolinas Headache Clinic
11:00 am - 11:10 am	Building Work-Life Integration and Resilience Rebecca Wells, MD, MPH, FAHS Wake Forest University Baptist Medical Center
11:10 am - 11:20 am	Stepping in Vs. Stepping Back in Your Work and Life Dawn Buse, PhD, FAHS Albert Einstein College of Medicine
11:20 am - 11:30 am	Organizing Your Time for Fulfillment and Success Matthew S. Robbins, MD, FAHS Weill Cornell Medical College
11:30 am - 12:30 pm	Table Discussions All Faculty
8:00 am - 12:30 pm	Hot Topics in Basic Science Symposium Moderators: Rami Burstein, PhD; Arynah Pradhan, PhD

8:00 am – 8:19 am	Sex Differences in Meningeal Nociceptive Mechanisms Greg Dussor, PhD The University of Texas at Dallas
8:19 am – 8:38 am	The Role of Delta Opioid Receptors in Trigeminovascular Pain Amynah Pradhan, PhD University of Chicago
8:38 am – 8:57 am	Perivascular CGRP Actions in Migraine Andrew F. Russo, PhD Carver College of Medicine
8:57 am – 9:16 am	Migraine/Pain and Opioid Mechanisms in our Brains. How Genetics, Attack Severity, and Treatment Impact Our Own Painkillers Alexandre F. DaSilva, DDS, DMedSc University of Michigan
9:16 am – 9:35 am	Efficacy, and Mechanisms of Action of CGRP Receptor Antagonists in Experimental Ischemic Stroke: Increased Cerebrovascular Event Risk? Cenk Ayata, MD, PhD Massachusetts General Hospital
9:35 am – 9:54 am	Understanding Multisensory Hypersensitivity in Migraine Mary Heinricher, PhD Oregon Health and Sciences University
9:54 am – 10:13 am	Neuronal PAC1 Receptors Mediate Delayed Activation and Sensitization of Trigemino-cervical Neurons: Relevance to Migraine Simon Akerman, PhD, FAHS University of Maryland
10:15 am – 10:40 am	Break

10:40 am – 11:00 am	Inflammatory Role in Migraine Aaron Schain, PhD Beth Israel Deaconess Medical Center
11:00 am – 12:00 pm	Data Blitz
11:00 am – 11:05 am	DB01 – Single-cell RNA Sequencing of Migraine Associated Genes Across Neuronal, Glial and Neurovascular Cell Types in the Central and Peripheral Nervous System Angeliki Vgontzas, MD Graham Headache Center
11:05 am – 11:10 am	DB02 – Central Mechanisms of Cortical Spreading Depression Inhibition by Vagus Nerve Stimulation Andreia Morais, MS Massachusetts General Hospital
11:10 am – 11:15 am	DB03 – Cerebral and Systemic Angiopathy in Middle-aged People with Migraine Ken Ikeda, MD, PhD Toho University Omori Medical Center
11:15 am – 11:20 am	DB04 – The Role of Cerebellar CGRP in Migraine-like Behavior Mengya Wang, MS University of Iowa
11:20 am – 11:25 am	DB05 – Central Sites Controlling CGRP-induced Light-aversive Behavior Levi Sowers, PhD Va Center for the Prevention and Treatment of Visual Loss
11:25 am – 11:30 am	DB06 – Noninvasive Vagus Nerve Stimulation Inhibits Trigeminal Nociception in Two Episodic Migraine Models by Enhancing Descending Pain Modulation Paul Durham, PhD Missouri State University

11:30 am – 11:35 am	<p>DB07 – Novel Receptor Activity Mapping of Methysergide and Its Metabolite, Methylergometrine, Provides a Mechanistic Rationale for Both the Clinically Observed Efficacy and Risk of Fibrosis in Patients with Migraine</p> <p>Miguel Guzman, PhD Xoc Pharmaceuticals</p>
11:35 am – 11:40 am	<p>DB08 – Cortical Spreading Depression Inhibition by Non-invasive Vagus Nerve Stimulation: Dose-response and Duration of Effect</p> <p>Andreia Morais, MS Massachusetts General Hospital Harvard Medical School</p>
11:40 am – 11:45 am	<p>DB09 – Early Life Stress-induced Increases in Cortical Spreading Depression Susceptibility and Anxiety Are Not Expressed in the Progeny of Stressed Male Rats</p> <p>Stuart Collins, PhD University of Toledo</p>
11:45 am – 11:50 am	<p>DB10 – Early Life Stress Promotes Development of a Sensitized Trigeminal System and Gut Dysbiosis That Is More Severe in Females</p> <p>Paul Durham, PhD Missouri State University</p>
11:50 am – 11:55 am	<p>DB11 – Noninvasive Vagus Nerve Stimulation and Morphine Transiently Inhibit Trigeminal Pain Signaling in a Chronic Migraine Model</p> <p>Paul Durham, PhD Missouri State University</p>
11:55 am – 12:00 am	<p>DB12 – Diffuse Vasogenic Leakage of Gadolinium Contrast in Patients with Syndrome</p>

	<p>of Headache and Neurological Deficits with CSF Lymphocytosis (HANDL)</p> <p>George Vilanilam, MD Mayo Clinic</p>
12:00 pm – 12:30 pm	Panel Discussion
12:30 pm – 2:00 pm	<p>Industry-supported Event</p> <p>A Migraine Preventive Therapy with Efficacy in Episodic and Chronic Migraine Patients <i>Supported by Novartis Pharmaceuticals. Session not certified for CME.</i></p>
2:15 pm – 2:30 pm	<p>Welcome / Opening Remarks / AMF Update</p> <p>Moderators: Kathleen B. Digre, MD, FAHS; Andrew C. Charles, MD, FAHS; David W. Dodick, MD, FAHS</p>
2:30 pm – 3:00 pm	<p>Keynote Speaker</p> <p>Moderator: Andrew C. Charles, MD, FAHS</p>
2:30 pm – 2:35 pm	Introduction
2:35 pm – 3:00 pm	<p>Concussion</p> <p>Chris Nowinski Concussion Legacy Foundation</p>
3:00 pm – 4:00 pm	<p>Opening Plenary - Philadelphia Tribute</p> <p>Moderator: Kathleen B. Digre, MD, FAHS</p>
3:00 pm – 3:15 pm	<p>Headache Treatment from Anecdote to Evidenced Based Guidelines</p> <p>Stephen D. Silberstein, MD, FAHS Jefferson Headache Center</p>
3:15 pm - 3:30 pm	<p>The Birth of Idiopathic Intracranial Hypertension without Papilledema</p> <p>Shuu-Jiun Wang, MD, FAHS Neurological Institute, Taipei Veterans General Hospital</p>

3:30 pm - 3:45 pm	Inventing the Future: How Headache Classification Research Reshapes Clinical Trials and Clinical Practice Richard B. Lipton, MD, FAHS, Albert Einstein College of Medicine
3:45 pm - 4:00 pm	Blaming, Naming and Re-framing Migraine: The Birth of Migraine Advocacy William B. Young, Jr., MD, FAHS Jefferson Headache Center
4:00 pm - 4:30 pm	Special Interest Section Fair
4:30 pm - 5:15 pm	AHS Membership Meeting
5:15 pm - 6:30 pm	Exhibit and Poster Reception
6:30 pm - 7:30 pm	Industry-supported Event Redefining Expectations for Migraine Prevention <i>Supported by Alder BioPharmaceuticals, Inc.</i> <i>Session not certified for CME.</i>
<u>FRIDAY, JULY 12, 2019</u>	
6:30 am - 8:00 am	Wellness for the Headache Provider Moderator: Deena Kuruvilla, MD
6:30 am - 7:05 am	Mindfulness Based Stress Reduction Rebecca E. Wells, MD, MPH, FAHS Wake Forest University Baptist Medical Center
7:05 am - 7:40 am	Mindfulness Based Cognitive Therapy Mia Minen, MD, MPH, FAHS NYU Medical Center
7:40 am - 8:00 am	The Evidence That Supports the Promotion of Physician Wellness Deena Kuruvilla, MD Yale University
6:30 am - 8:00 am	Exhibits and Posters with Continental Breakfast

6:30 am – 8:00 am	Exhibits and Posters (Exhibit area closed 11:00 am – 12:45 pm)
8:00 am – 8:45 am	Seymour Solomon Award Lecture Moderator: Seymour Solomon, MD, FAHS Time's Up: Headache Medicine in the #MeToo Era Elizabeth W. Loder, MD, MPH, FAHS John R. Graham Headache Center
8:45 am – 9:00 am	Lifetime Achievement Award Presented by Kathleen B. Digre, MD, FAHS
9:00 am – 9:15 am	NIH Roadmap for Migraine Research Update Michael Oshinsky, PhD National Institutes of Health (NIH)
9:15 am – 9:30 am	4th Annual Migraine Moment Short Film Contest Winner Viewing Presented by Amaal Starling, MD, FAHS
9:30 am – 10:00 am	Early Career Award Lecture Moderator: Todd J. Schwedt, MD, MSCI, FAHS Does Mindfulness-based Cognitive Therapy for Migraine Reduce Migraine-related Disability in People with Episodic and Chronic Migraine? A Phase 2b Pilot Randomized Clinical Trail Elizabeth Seng, PhD, FAHS Albert Einstein College of Medicine Yeshiva University
10:00 am – 10:45 am	Exhibits and Posters with Refreshments
10:45 am – 11:30 am	Future of Headache Medicine Moderator: Jessica Ailani, MD, FAHS
10:45 am – 10:53 am	IHA Research Grant Presentation

	<p>Incidence, Consequences and Prevention of Postoperative, Pain-related Hospital Readmission in Migraineurs</p> <p>Katharina Platzbecker, MD Beth Israel Deaconess Medical Center Harvard Medical School</p>
10:53 am – 11:01 am	<p>IHA Research Grant Presentation</p> <p>Photosensitivity, Tactile Hypersensitivity and Pain-related Facial Features as Objective Biomarkers of Chronic PTH</p> <p>Anne-Sophie Wattiez, PhD University of Iowa</p>
11:01 am – 11:09 am	<p>Clinical Research Fellowship Award Update</p> <p>Jill Rau, MD, PhD Mayo Clinic</p>
11:09 am – 11:17 am	<p>Future of Headache Medicine</p> <p>Patterns of Diagnosis, Consultation, and Treatment of Migraine in the US: Results of the OVERCOME Study</p> <p>Richard B. Lipton, MD Albert Einstein College of Medicine</p>
11:17 am – 11:25 am	<p>Future of Headache Medicine</p> <p>Single-cell RNA Sequencing of Migraine Associated Genes Across Neuronal, Glial and Neurovascular Cell Types in the Central and Peripheral Nervous System</p> <p>William Renthal, MD, PhD Harvard Medical School</p>
11:30 am – 1:00 pm	<p>Scientific Paper Presentations – Session 1</p> <p>Moderator: Elizabeth Seng, PhD, FAHS</p>
11:30 am – 11:40 am	<p>OR01 – The Relationship Between Migraine and Risk of Cardiovascular Disease in Postmenopausal Women in the Observational</p>

	<p>Longitudinal Cohort of the Women's Health Initiative Study (WHI)</p> <p>Jelena Pavlovic, Md, PhD Montefiore Headache Center Albert Einstein College of Medicine</p>
11:40 am - 11:50 am	<p>Or02 - Peroxynitrite Decomposition Catalysts Inhibit Acute Intracranial Dural-nociceptive Activation and Sensitisation of Central Trigeminovascular Neurons</p> <p>Simon Akerman, PhD, FAHS University of Maryland</p>
11:50 am - 12:00 pm	<p>LBOR-01 - A Randomized Trial of Telemedicine for Migraine Management</p> <p>Deborah I. Friedman, MD, MPH, FAHS UT Southwestern Medical Center</p>
12:00 pm - 12:10 pm	<p>OR04 - Acute and Preventive Treatment Patterns in Episodic Cluster Headache: Findings from the United States, United Kingdom and Germany</p> <p>Jeffrey Scott Andrews, PharmD Eli Lilly and Company</p>
12:10 pm - 12:20 pm	<p>OR05 - Demographics, Headache Characteristics, and Other Factors Associated with Opioid Use in People with Migraine: Results from the Chronic Migraine Epidemiology and Outcomes Study</p> <p>Richard B. Lipton, MD, FAHS Albert Einstein College of Medicine</p>
12:20 pm - 12:30 pm	<p>OR06 - American Registry for Migraine Research: Methodology and Description of Initial Cohort</p> <p>David Dodick, MD, FAHS Mayo Clinic</p>
12:30 pm - 12:40 pm	<p>OR07 - Noninvasive Vagus Nerve Stimulation Inhibits Trigeminal Nociception in Two</p>

	<p>Episodic Migraine Models by Enhancing Descending Pain Modulation</p> <p>Paul Durham, PhD Missouri State University</p>
12:40 pm – 12:50 pm	<p>OR08 – One-Year Incidence of Migraine in the US Population: Results from the Migraine in America Symptoms and Treatment (MAST) Study</p> <p>Richard B. Lipton, MD, FAHS Albert Einstein College of Medicine</p>
12:50 pm – 1:00 pm	<p>Frontiers in Headache Research Scholarship Presentation</p> <p>Effectiveness of Outpatient Treatment of Headache at an Infusion Center</p> <p>Hannah Johnson, MD Boston Children’s Hospital</p>
1:00 pm – 1:15 pm	Scholarship Award Presentation
1:15 pm – 2:15 pm	Exhibits and Poster Session/Lunch
1:15 pm – 2:15 pm	Electronic Poster Presentation
2:15 pm – 3:00 pm	<p>Harold G. Wolff Award Lecture</p> <p>Moderators: Todd J. Schwedt, MD, MSCI, FAHS; Thomas N. Ward, MD, FAHS</p> <p>The Association Between Parental Migraine and Infant Colic: A Cross-sectional, Web-based, US Survey Study</p> <p>Amy Gelfand, MD, FAHS University of California, San Francisco</p>
3:00 pm – 4:00 pm	<p>PLENARY II – Homeostasis/Hypothalamus</p> <p>Moderator: Robert E. Shapiro, MD, PhD, FAHS</p>
3:00 pm – 3:25 pm	<p>Pain and Hunger/Feeding</p> <p>Nicholas Betley, PhD University of Pennsylvania</p>

3:25 pm – 3:50 pm	Circadian and Seasonal Variation in Headache Tim Houle, PhD Massachusetts General Hospital
3:50 pm – 4:00 pm	Q&A
5:00 pm – 6:00 pm	Industry-supported Event Nerivio Migra – A Novel Remote Electrical Neuromodulation (Ren) Device for the Acute Treatment of Migraine <i>Supported by Theranica Bio-Electronics LTD. Session not certified for CME.</i>
5:00 pm – 6:30 pm	Industry-supported Event Migraine: Mining the Outer Reaches of Headache Science <i>Supported by Eli Lilly. Session is certified for CME.</i>
<u>SATURDAY, JULY 13, 2019</u>	
6:30 am – 8:00 am	Exhibits and Posters with Continental Breakfast
6:30 am – 7:30 am	Industry-supported Event Patient Case Studies for Understanding Preventive Treatment of Migraine in Adults Supported by Teva Pharmaceuticals. Session not certified for CME.
8:00 am – 10:00 am	Industry-submitted Abstracts* <i>*Session not eligible for CME</i> Moderator: Elizabeth Seng, PhD, FAHS
8:00 am – 8:10 am	IOR01 – Orally Administered Atogepant Was Efficacious, Safe, and Tolerable for the Prevention of Migraine: Results from a Phase 2b/3 Study David Dodick, MD, FAHS Mayo Clinic

<p>8:10 am – 8:20 am</p>	<p>IOR02 – Ubrogepant Is Effective for the Acute Treatment of Migraine in Patients for Whom Triptans Are Ineffective</p> <p>Andrew Blumenfeld, MD Headache Center of Southern California</p>
<p>8:20 am – 8:30 am</p>	<p>IOR03 – Phase 3 Placebo-Controlled Study of Galcanezumab in Patients with Chronic Cluster Headache: Results from 3-Month Double-Blind Treatment</p> <p>Tina Oakes, PhD Eli Lilly and Company</p>
<p>8:30 am – 8:40 am</p>	<p>IOR04 – Non-invasive Vagus Nerve Stimulation for the Preventive Treatment of Episodic Migraine: The Multicenter, Double-blind, Randomized, Sham-controlled PREMIUM trial</p> <p>Eric Liebler, BA electroCore, Inc.</p>
<p>8:40 am – 8:50 am</p>	<p>IOR05 – Efficacy, Safety, and Tolerability of Rimegepant 75 Mg Orally Dissolving Tablet for the Acute Treatment of Migraine: Results from a Phase 3, Double-Blind, Randomized, Placebo-Controlled Trial, Study 303</p> <p>Richard B. Lipton, MD, FAHS Albert Einstein College of Medicine</p>
<p>8:50 am – 9:00 am</p>	<p>IOR06 – Effects of Lasmiditan on Driving Performance: Results of 2 Randomized, Blinded, Crossover Simulated Driving Studies with Placebo and Active Controls</p> <p>Eric Pearlman, MD, PhD Eli Lilly & Company</p>
<p>9:00 am – 9:10 am</p>	<p>IOR07 – Medication Overuse in a Post-hoc Analysis of Phase 3 Placebo-controlled Studies of Galcanezumab in the Prevention of Episodic and Chronic Migraine</p> <p>Sheena Aurora, MD Eli Lilly & Company</p>

9:10 am – 9:20 am	<p>IOR08 – Clinically Meaningful Responses to Fremanezumab in Patients with Migraine and Documented Inadequate Response to 2-4 Classes of Migraine Preventive Medications in the Multicenter, Randomized, Placebo-controlled FOCUS Study</p> <p>Egilius Spierings, MD, PhD Medvadis Research Corporation</p>
9:20 am – 9:30 am	<p>IOR09 – Results from the Chronic Migraine Epidemiology and Outcomes Study Demonstrate a High Level of Unmet Need for Migraine Treatment in People Who Discontinue Acute Prescription Migraine Medication</p> <p>Susan Hutchinson, MD Orange County Migraine & Headache Center</p>
9:30 am – 9:40 am	<p>IOR10 – Sustained Efficacy and Long-term safety of Erenumab in Patients with Episodic Migraine: 4+ year results of a 5-year, Open-label Extension Study</p> <p>Massoud Ashina, MD, PhD University of Copenhagen</p>
9:40 am – 9:50 am	<p>IOR11 – Incorporating Remote Electrical Neuromodulation (REN) into Usual Care Reduces Acute Migraine Medication Use</p> <p>Michael J. Marmura, MD, FAHS Thomas Jefferson University</p>
9:50 am – 10:00 am	<p>LBIOR12 - First Non-invasive Combined Occipital & Trigeminal Nerve Stimulation Digital Therapeutics System for Treatment of Migraine: A Randomized, Sham-controlled, Double-blind Clinical Trial</p> <p>Eran Schenker George Washington University</p>
10:00 am – 10:30 am	Exhibits and Posters with Refreshments

10:30 am – 12:00 pm	Scientific Paper Presentations – Session 2 Moderator: Aynah Pradhan, PhD
10:30 am – 10:40 am	OR09 – Testing the Impact of Post-traumatic Headache on Headache Complexity in a Sample of Soldiers Ann Scher, PhD, Uniformed Services University
10:40 am – 10:50 am	OR10 – Opioid Use Among People with Migraine: Results of the OVERCOME Study Sait Ashina, MD Beth Israel Deaconess Medical Center Harvard Medical School
10:50 am – 11:00 am	OR11 – Rates and Predictors of Using Opioids in the Emergency Department to Treat Migraine in Adolescents and Young Adults Jennifer Bickel, MD Children's Mercy Hospital
11:00 am – 11:10 am	OR12 – Cerebral and Systemic Angiopathy in Middle-aged People with Migraine Ken Ikeda, MD, PhD Toho University Omori Medical Center
11:10 am – 11:20 am	OR13 – Characterization of the Effects of the Calcitonin Gene-Related Peptide (CGRP) Receptor Antagonists, Atogepant and Ubrogapant, on Isolated Human Coronary, Cerebral, and Middle Meningeal Arteries Eloísa Rubio-Beltran, PhD Erasmus University Medical Center
11:20 am – 11:30 am	LBOR-02 – White Light Exposure and Risk of Headache Onset Among Patients with Episodic Migraine Suzanne Bertisch, MD, MPH Beth Israel Deaconess Medical Center Harvard Medical School

<p>11:30 am – 11:40 am</p>	<p>LBOR-03 – Extracranial Injections of OnabotulinumtoxinA in Combination with Intravenous Injection of Atogepant Attenuates Activation and Sensitization of HT and WDR Neurons by CSD</p> <p>Agustin Melo-Carrillo, MD, PhD Beth Isreal Deaconess Medical Center Harvard Medical School</p>
<p>11:40 am – 11:50 am</p>	<p>LBOR-04 – Intake of Riboflavin (Vitamin B2) and the Occurrence of Migraine: A Cross-sectional Analysis of the National Health and Nutrition Examination Survey (NHANES) 2001 to 2004 Database</p> <p>Margaret Slavin, PhD, RD George Mason University</p>
<p>11:50 am – 12:00 pm</p>	<p>Frontiers in Headache Research Scholarship Presentation</p> <p>Pain Modulation Capabilities Relates to Headache Reduction After Cognitive Behavioral Therapy</p> <p>Hadas Nahman-Averbuch, PhD Cincinnati Children’s Hospital</p>
<p>12:00 pm – 1:00 pm</p>	<p>Debate/Discussion</p> <p>Moderator: David W. Dodick, MD, FAHS</p> <p>What Does the Efficacy of CGRP Therapies Tell Us About Migraine Pathophysiology?</p>
<p>12:00 pm – 12:20 pm</p>	<p>Peripheral Mechanisms of Migraine</p> <p>Rami Burstein, PhD Beth Israel Deaconess Medical Center</p>
<p>12:20 pm – 12:40 pm</p>	<p>Central Mechanisms of Migraine</p> <p>Peter J. Goadsby, MD, PhD, FAHS University of California, San Francisco</p>
<p>12:40 pm – 1:00 pm</p>	<p>Discussion</p>

1:00 pm – 2:15 pm	Exhibits and Poster Session
1:00 pm – 2:15 pm	Electronic Poster Presentations
2:15 pm – 3:45 pm	Scientific Paper Presentations – Session 3 Moderator: Andrew C. Charles, MD, FAHS
2:15 pm – 2:25 pm	OR14 – Cutaneous Heat Pain and Light-Induced Pain Thresholds in Post-traumatic Headache Attributed to Mild Traumatic Brain Injury Amaal Starling, MD, FAHS Mayo Clinic
2:25 pm – 2:35 pm	OR15 – Stigmatizing Attitudes About Migraine by People Without Migraine: Results of the OVERCOME Study Robert Shapiro, MD, PhD, FAHS Larner College of Medicine
2:35 pm – 2:45 pm	OR16 - Pubertal Maturation and Its Association with Migraine Headache in Adolescent Girls Vincent Martin, MD, FAHS University of Cincinnati
2:45 pm – 2:55 pm	OR17 – Migraine Care Across the Healthcare Landscape in the United States Among Those with ≥ 4 Migraine Headache Days Per Month: Results of the OVERCOME Study Dawn Buse, PhD, FAHS Albert Einstein College of Medicine
2:55 pm – 3:05 pm	OR18 – Central Sites Controlling CGRP-induced Light-aversive Behavior Levi Sowers, PhD Va Center for the Prevention and Treatment of Visual Loss
3:05 pm – 3:15 pm	OR19 – Headache Treatment Pattern and Co-morbid Health Burden Associated with Emergency Department and Urgent Care Use in People with Migraine: Survey Results from

	<p>Migraine in America Symptoms and Treatment Study</p> <p>Todd Schwedt, MD, MSCI, FAHS Mayo Clinic</p>
3:15 pm – 3:25 pm	<p>OR20 - Social Network Analysis of Young Adolescents with Migraine</p> <p>Shuu-Jiun Wang, MD, FAHS Taipei Veterans General Hospital</p>
3:25 pm – 3:35 pm	<p>Clinical Research Fellowship Award Update</p> <p>Julius Danesh, MD Yale New Haven Hospital</p>
3:35 pm – 3:45 pm	<p>Frontiers in Headache Research Scholarship Presentation</p> <p>Enhancing Endocannabinoid Signaling During KCl-induced Cortical Spreading Depression to Reduce Headache Symptomology</p> <p>Erika Liktor-Busa, PhD University of Arizona</p>
3:45 pm – 4:30 pm	Exhibits and Posters with Refreshments
4:30 pm – 5:15 pm	<p>John R. Graham Award Lecture</p> <p>Moderator: Paul B. Rizzoli, MD, FAHS, FAAN</p> <p>Migraine Trigger Factors: Fact Vs. Fiction</p> <p>Vincent Martin, MD, FAHS University of Cincinnati</p>
<u>SUNDAY, JULY 14, 2019</u>	
7:00 am – 8:00 am	Continental Breakfast
8:00 am – 10:00 am	<p>PLENARY III</p> <p>Moderator: Christina L. Szperka, MD, MSCE, FAHS</p>

8:00 am – 8:40 am	Practical Clinical Issues Regarding New Acute and Preventive Headache Therapies Matthew S. Robbins, MD, FAHS Weill Cornell Medical College
8:40 am – 9:20 am	PACAP as a Therapeutic Target Messoud Ashina, MD, PhD, DMSc University of Copenhagen
9:20 am – 10:00 am	Cluster Headache – What’s New in Science and Practical Clinical Management Stewart Tepper, MD, FAHS Geisel School of Medicine at Dartmouth