Pathways of Migraine
Symposium on migraine research: Wednesday, February 20, 2019
Research Complex 1 North, Room 9107

7:30 Breakfast

**Session I: Trigeminal system, opiates, and pain**

8:00 **Linda Watkins, PhD** (Depts. of Physiology and Neuroscience, University of Colorado Boulder)
“Listening” and “talking” to neurons: Clinical implications of glial activation and priming for dysregulating pain and opioid actions

8:25 **Amynah Pradhan, PhD** (Dept. of Psychiatry, University of Illinois at Chicago)
Opioid receptors and migraine

8:50 **Andrew Bubak, PhD** (Dept. of Neurology, University of Colorado AMC)
Varicella zoster virus-induced alterations in neuropeptide signaling in trigeminal ganglia: implications for head and face pain

9:05 **Christy Niemeyer, PhD** (Dept. of Neurology, University of Colorado AMC)
The role of TRPV1 channels in Varicella Zoster Virus (VZV) infection in trigeminal ganglia pain signaling

9:20 **William R Renthal, MD, PhD** (Dept. of Neurology, Harvard Medical School)
Identification of novel migraine therapeutic targets by single-nucleus RNA sequencing of human trigeminal ganglia

9:45 **Marius Birlea, MD** (Dept. of Neurology, University of Colorado AMC)
Headache syndromes associated with alphaherpes virus reactivation

10:00 Break
Session II: Migraine associated symptoms and treatment targets

10:10  **Guido Faas, PhD** (Dept. of Neurology, University of California Los Angeles)
*Triggering of cortical spreading depression and continuous recording of cerebral blood volume in awake and freely moving animals*

10:35  **Serapio Baca, PhD** (School of Pharmacy and Dept. of Neurology, UC AMC)
*Neuromodulation of cortical spreading depression in ferret*

10:50  **Victoria Pelak, MD** (Depts. of Neurology and Ophthalmology, UC AMC)
*Update on visual snow*

11:05  **William C Lillydahl, MD** (Bio Trak Therapeutics, Concord, Massachusetts)
*Mobile behavioral therapy for headache*

11:20  **Laura Borgelt, PharmD** (School of Pharmacy, UC AMC)
*Researching cannabis for migraine: the highs and lows*

11:30  **Panel discussion and networking**

11:45 – 11:50  Walk to Hensel Phelps West auditorium for Grand Rounds

12:00 – 1:00  **Andrew Charles, MD** (Dept. of Neurology, University of California Los Angeles)
*Grand Rounds: Advances in the Basic and Clinical Science of Migraine*