

Pain and Opiates: Neuronal Mechanisms, Behavioral Consequences, and Societal Impact

NeuroNET Spring Symposium
Toyota Auditorium, Baker Center, University of Tennessee Knoxville
April 8 & 9, 2015

The NIH noted “Chronic pain is a major public health problem, which is estimated to affect more than 100 million people in the United States and about 20–30% of the population worldwide.” The fact that one third of Americans have lives that are altered by chronic pain helps explain why the economic impact of chronic pain is estimated to be as high as \$630 billion per year.

<https://prevention.nih.gov/programs-events/pathways-to-prevention/workshops/opioids-chronic-pain>

Center for Disease Control <<http://www.cdc.gov/vitalsigns/opioid-prescribing/>> statistics illustrate the profound societal impact of the increase in opiate prescriptions. In 2012, health care providers wrote 295 million prescriptions for painkillers, “enough for every American adult to have a bottle of pills. Each day 46 people die from an overdose of prescription painkillers in the U.S., and 10 of the highest prescribing states for painkillers are in the South.” Tennessee ranked second highest after Alabama among that group of 10 states.

<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6326a2.htm?s_cid=mm6326a2_w>

Symposium sponsored by a Haines Morris Endowment Award, NeuroNET, the Kavli Foundation, UTMCK Department of Anesthesiology, and UTMCK Brain and Spine Institute.

Wednesday April 8, 2015 3-6 pm

James C. Eisenach, MD, FM James, III Professor of Anesthesiology and Physiology & Pharmacology, Wake Forest School of Medicine, Editor-In-Chief, *Anesthesiology*.

“Chronic Pain and the Central Nervous System”

Tim J. Brennan, MD, PhD, Dr. Samir D. Gergis Professor, Professor of Anesthesia and Pharmacology, University of Iowa

Carver College of Medicine. **“Translational Relevance of Acute Pain Mechanisms”**

Michael T. Smith, PhD, Professor of Psychiatry, Neurology, and Nursing, Johns Hopkins University School of Medicine, Director, Center for Behavior and Health, Co-Director, Center for Sleep Related Symptom Science. **“Pain and Sleep Disruption”**



Thursday April 9, 2015 2-6 pm

Kelly Conrad, PhD, Medical Science Liaison, NeuroPsych & Pain Team, Teva Pharmaceutical Industries, Ltd.

“The Underlying Neural Substrates and Mechanisms Mediating Substance Use Disorder”

Ted Jones, PhD, CPE, Clinical Psychologist, Pain Consultants of East Tennessee. **“Patient Psychological Assessment Prior to Treatment with Opioids for Chronic Pain”**

James J. Choo, MD, Medical Director, Pain Consultants of East Tennessee Functional Rehabilitation. **“Prescription Drug Abuse and Chronic Pain Treatment in Tennessee: Curbing Opioid Abuse while Providing Pain Care”**

Georgia Tourassi, PhD, Director - Biomedical Sciences and Engineering Center; Director - Health Data Sciences Institute, Oak Ridge National Laboratory **“Big Data, Precision Medicine, and Novel Opportunities for Healthcare”**