

# CURE Epilepsy Frontiers in Research Seminar Series



TEXAS A&M HEALTH

Institute of Pharmacology  
and Neurotherapeutics

## Role of AMPA Receptors in Epilepsy and as a Target for Antiseizure Medications

**Dr. Michael A. Rogawski**

*Distinguished Professor of Neurology and Pharmacology, UC Davis School of Medicine*

**Wednesday, November 30, 2022**

HSC Bryan Campus/HPEB Room LL43AB

12:00 - 1:00 PM CT

**Lunch Provided --- Q&A Session & Networking Opportunity**

Join via Zoom  Meeting ID: 942 5772 9124 Passcode: 052206

**Objectives:** This talk will discuss five key aspects of glutamate-based neurotherapeutics: (1) ionotropic glutamate receptors, (2) the function of AMPA receptors in excitatory synaptic transmission, (3) the role of AMPA receptors in focal and generalized seizures, (4) the mechanism of action of the antiseizure medication perampanel as a noncompetitive AMPA receptor blocker, and (5) the use of perampanel in the treatment of seizures and epilepsy.

**Dr. Michael A. Rogawski** is a distinguished professor of neurology and pharmacology at the University of California, Davis School of Medicine, where he served as chair of the Department of Neurology until 2012. Previously, he was a senior investigator and chief of the Epilepsy Research Section at the NINDS/NIH. His research encompasses cellular neurophysiological studies of ion channels, studies on the mechanisms of action of antiseizure drugs, and neurotherapeutic discovery and development. Dr. Rogawski has received the NIH Director's Award, the ASPET Epilepsy Research Award, the AAN Neuroendocrine Research Award, and the UC Davis Chancellor's Innovator of the Year award. He is a fellow of the American Neurological Association, the AAAS, and the National Academy of Inventors. Dr. Rogawski has served as an editor and editorial board member of many journals in neuroscience and pharmacology. He was awarded a B.A. (biophysics) from Amherst College, and M.D. and Ph.D. (pharmacology) from Yale University. He completed residency training in neurology at the Johns Hopkins Hospital.



**Dr. Michael A. Rogawski**

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