Theodore R. Cummins, Ph.D., is associate professor of pharmacology and toxicology with tenure at the Indiana University School of Medicine in Indiana. Dr. Cummins received a Master's of Science in Biomedical Engineering at the Hartford Graduate Center before pursuing his Ph.D. in neuroscience from Yale University. After finishing his dissertation in 1996, he did a postdoctoral fellowship with Stephen G. Waxman, M.D., Ph.D., at Yale, where he was promoted to assistant professor before moving to the Indiana University School of Medicine in 2003 to establish his own lab. He is currently the director of the Basic Science Pain Research Group at the Stark Neurosciences Research Center in Indianapolis and a member of the faculty of 1,000 in Pain Basic Science. He is also director of the Medical Neurosciences Graduate Program at Indiana University and a member of the Somatosensory and Chemosensory Systems study section at the NIH.

Dr. Cummins is a member of numerous professional organizations and has published more than 100 scientific papers in peer-reviewed journals, many relating to the role of voltage-gated sodium channels in pain sensations.

**ROLE OF SODIUM CHANNELS IN PAIN: MUTATIONS AND MECHANISMS**

**WEDNESDAY, MARCH 6, 2013**

Noon - 1 p.m.

Alegent Creighton Health Creighton University Medical Center

Morrison Seminar Room • 601 North 30th Street, Omaha, Neb.

**OBJECTIVES:**

At the conclusion of the presentation, the participants should be able to:

- Examine the roles of voltage-gated sodium channels in nociception and pain mechanisms
- Discuss how studies have identified targeting these channels may lead to more effective therapy in the treatment and management of pain
- Explain why resurgent sodium currents might contribute to multiple disorders of excitability

**Disclosure:** Dr. Cummins has a financial relationship/affiliation that includes grant/research support with the organization Eli Lilly, Inc. However no conflict of interest exists for this presentation.

**Category 1 Statement:** The Creighton University School of Medicine designates this live activity for a maximum of 1 AMA PRA Category 1 Credit(s)™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

**Accreditation Statement:** In support of improving patient care, Creighton University Health Sciences Continuing Education is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE) and the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for the healthcare team.

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