

DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE

FALL 2017 GRAD SEMINAR SERIES

OPEN TO THE PUBLIC

DATE: WEDNESDAY, OCTOBER 18, 2017

WHERE: CENTRAL KING BUILDING - 204

TIME: 2:30 PM

Refreshments at 2:30 pm – Seminar at 2:45 pm

GUEST SPEAKER

Professor Yuanxiang Tao
New Jersey Medical School
Rutgers University
Newark, New Jersey

TOPIC

“Epigenetic mechanisms of neuropathic pain”

ABSTRACT

Research in my lab focuses on understanding the molecular and cellular mechanisms that underlie chronic pain and opioid-induced analgesic tolerance and hyperalgesia. Chronic pain is a major public health problem. Despite intensive research into the neurobiological mechanism of chronic pain during the past decades, our understanding of chronic pain is still in its infancy and its treatment is often poorly managed by current drugs. Opioids are still the gold standard for chronic pain management in the clinical setting. However, the long-term use of the opioids produces opioid analgesic tolerance, opioid-induced hyperalgesia, and other side effects. Thus, uncovering the mechanisms underlying chronic pain and opioid-induced tolerance and hyperalgesia may develop novel therapeutic strategies for prevention and/or treatment of these disorders.

BIOGRAPHY



Positions and Employment:

1986 to 1992 Instructor - Department of Anatomy, Nanjing Medical University
1992 to 1994 Assistant Professor - Department of Anatomy, Nanjing Medical University
1997 to 1999 Post-Doctoral Fellow - Department of Anesthesiology, University of Virginia
1999 to 2000 Instructor - Department of Anesthesiology, Johns Hopkins University, USA
2001 to 2004 Assistant Professor - Department of Anesthesiology, Johns Hopkins University,
2005 to 2013 Associate Professor - Department of Anesthesiology, Johns Hopkins University

2013,7- Professor and Vice Chair of Research - Department of Anesthesiology, New Jersey
Medical School (NJMS)

Advisory Committees:

2009-2013 Junior Faculty Advisory Committee, Brain Science Institute at Hopkins
2009-2013 The Scholarship Oversight Committees for the Neonatology Fellows at Hopkins
2009-2013 Core Faculty in Interdisciplinary Training Program in Biobehavioral Pain Research at
Hopkins
2013- MD/PhD committee at NJMS, Rutgers, The State University of New Jersey

Awards:

1996 Outstanding PhD Student from the Chinese Academy of Sciences.
1996 Beckman Outstanding Young Scientist Award from BECKMAN Instruments.
1999 Remarkable Contribution to Nature and Science from the Chinese Academy of Sciences
2011 Rita Allen Foundation Pain Scholar, APS
2017 Faculty of the Year Award, NJMS, Rutgers, The State University of New Jersey
2017 The New Jersey Health Foundation Excellence Research Award

Seminar Series Coordinators

Dr. Yong Yan - yong.yan@njit.edu

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