THE UNIVERSITY OF TOLEDO
Department of Neurology
and
Neurosciences and Neurological
Disorders Track, Biomedical Sciences
Graduate Program

Present:

6TH ANNUAL NEUROSCIENCE RESEARCH DAY
BRAIN SUBSTRATES OF DRUG DEPENDENCE,
TOLERANCE AND ADDICTION

Friday, March 14, 2008, 7:45am – 3:45pm

LOCATION
Eleanor N. Dana Conference Center, The University of Toledo
Health Science Campus, 3110 Glendale Avenue, Toledo, Ohio 43614

INTRODUCTION
The Department of Neurology and the Neurosciences and Neurological
Disorders Track of the Biomedical Sciences Graduate Program at The University
of Toledo, College of Medicine are pleased to host the 6th Annual Neuroscience
Research Day. This meeting will be a forum for the latest in basic and clinical
neuroscience research across northwest Ohio. We encourage neuroscientists,
physicians, psychologists, nurses, allied health professionals, residents, graduate,
professional and undergraduate students to attend.
The theme for this year’s program will be “Brain Substrates of Drug
Dependence, Tolerance and Addiction.” Our guest speaker this year is Bryan
Yamamoto, Ph.D., Professor of Pharmacology and Experimental Therapeutics
and Director of the Laboratory of Neurochemistry, Boston University College of
Medicine, who will present a lecture entitled “Causes and Consequences of
Amphetamine Exposure: A Role for Stress.” Four additional faculty from The
University of Toledo College of Medicine will present their research on brain
adaptations involved in drug tolerance and dependence and the latest trends in
clinical treatment of addiction. After lunch (included with registration), a poster
session and two platform sessions will cover the broad range of neuroscience
research across the region. Come find out what’s happening in neuroscience in
Northwest Ohio!
The University of Toledo and St. Vincent Mercy Medical Center are accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The University of Toledo and St. Vincent Mercy Medical Center designates this educational activity for a maximum of 6.00 AMA PRA Category 1 credits™. Physicians should claim credit commensurate with the extent of their participation in the activity.

The University of Toledo is an approved provider of continuing education units for psychologists. 6.00 hours will be approved.
6TH ANNUAL NEUROSCIENCE RESEARCH DAY, MARCH 14, 2008

REGISTRATION INFORMATION

Name ________________________________________________________________
Address __________________________________________________________
City___________________________ State_______ Zip_____________________
County ______________________________________ Telephone______________
Specialty/Profession ________________________ Credentials______________

Are you interested in receiving information about upcoming continuing medical education events via e-mail?
_____ Yes _____ No  If yes, please provide an e-mail address________________________

Please advise us of any special needs or meals______________________________

Registration Fees: (Check one)
☐ Professionals (seeking CME credit).....$20  ☐ All Others.....No Charge, but must pre-register

Although no registration fees are required for students and health care professionals who are not seeking CME credit, ALL individuals MUST register for the program to assist in planning of meals and course materials.

Amount Enclosed: _____________________________

Please charge $___________ to my: (check one) (     ) Master Card (     ) Visa (     ) Discover
Number_________________________ Expiration Date____________________

Signature__________________________

Please make check payable to CME-UT #110381

Mail this form to: Center for Continuing Medical Education

MS #1181, The University of Toledo, Health Science Campus
3000 Arlington Avenue, Toledo, OH 43614-2598

By the end of this workshop participants will be able to:

• Discuss the impact of the neuropeptide PACAP on nicotinic acetylcholine receptor-mediated neurotransmission.

• Describe how benzodiazepine withdrawal alters AMPA, NMDA and voltage-gated calcium channel function to increase neuronal excitability.

• Identify evidenced-based non-pharmacologic and pharmacologic treatments for substance use disorders.

• Discuss how combining pharmacologic and psychosocial interventions improve outcome.

• Examine current addiction treatment research that is advancing our understanding of addiction.

• Describe the toxic effects of methamphetamine and MDMA.

• Discuss how the amphetamines cause neurotoxicity.

• Explain how environmental and oxidative stress are a cause and consequence of the amphetamine exposure.
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