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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!

SYMPOSIUM DIRECTOR

L. John Greenfield, Jr., M.D., Ph.D.
*Associate Professor and Vice Chair for
Research, Neurology
The University of Toledo*

GUEST FACULTY

Bryan Yamamoto, Ph.D.
*Professor, Pharmacology &
Experimental Therapeutics
Boston University
Boston, Massachusetts*

THE UNIVERSITY OF TOLEDO FACULTY

Joseph Margiotta, Ph.D.
Professor, Neurosciences

Phyllis Pugh, Ph.D.
Assistant Professor, Neurosciences

Elizabeth I. Tietz, Ph.D.
*Professor and Vice Chair
Physiology & Pharmacology
Director, Neurosciences & Neurological
Disorders Track
Biomedical Sciences Graduate Program*

John Wryobeck, Ph.D.
Assistant Professor, Psychiatry

ACCREDITATION

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*TM. 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.

AGENDA

- 7:45-8:00AM Registration & Continental Breakfast**
- 8:00-8:05 Welcome and Introductions**
L. John Greenfield, Jr., M.D., Ph.D.
- 8:05-8:45 Neuropeptides and Nicotines: Regulating Synapses in Addiction**
Phyllis Pugh, Ph.D.
- 8:45-9:30 Tyrosine Kinase-Dependent Regulation of Nicotinic Signaling**
Joseph Margiotta, Ph.D.
- 9:30-10:15 Benzodiazepines: What's all the excitement about?**
Elizabeth I. Tietz, Ph.D.
- 10:15-10:45 Break and Exhibitors**
*Atrium
Poster Viewing
Williams-Defiance Room*
- 10:45-11:15 Managing Addictions: Current Pharmacological and Psychosocial Interventions**
John Wryobeck, Ph.D.
- 11:15-12:15 Causes and Consequences of Amphetamine Exposure: A Role for Stress**
Bryan Yamamoto, Ph.D.
- 12:15-1:00 Lunch and Exhibitors**
*Atrium
Poster Viewing
Williams-Defiance Room*
- 1:00-2:00 Platform Session I: 3 Talks**
- 2:00-2:30 Break and Poster Viewing**
Williams Defiance Room
- 2:30-3:30 Platform Session II: 3 Talks**
- 3:30-3:45 Summary, Evaluation and Final Remarks**
L. John Greenfield, Jr., M.D., Ph.D.

6TH ANNUAL NEUROSCIENCE RESEARCH DAY, MARCH 14, 2008

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

REGISTRATION INFORMATION

OBJECTIVES

Registration Fees

Professionals seeking CME credit..... \$ 20

All Others.....No charge, but must preregister.

Deadline for registration is Wednesday, March 5, 2008.

We cannot guarantee availability after this date.

Tuition Includes

- All registration and course materials
- Continental breakfast, breaks and lunch
- Continuing education credit certificate

Cancellation Policy

Up to \$10 will be retained for administrative services on any cancellation made prior to March 5, 2008. No refunds will be made thereafter.

Accommodations

Should you require overnight accommodations, please contact the Toledo Hilton Hotel located on the Health Science Campus at 419-381-6800.

Directions

For directions, please visit the website at:
<http://hsc.utoledo.edu/camp.gethere.html>

To Register

• Fax 419-383-6602

• By Mail: Center for Continuing Medical Education
Mail Stop # 1181
The University of Toledo
3000 Arlington Ave.
Toledo, Ohio 43614

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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