Introduction
The Department of Neurology and the Cellular and Molecular Neurobiology Program at the University of Toledo College of Medicine (formerly Medical University of Ohio) are pleased to host the 5th "Annual" Neuroscience Research Day. This meeting will be a forum for the latest in basic and clinical neuroscience research across the northwest Ohio region. We encourage neuroscientists, physicians, nurses, allied health professionals, residents, graduate, professional and undergraduate students to attend. The theme for this year’s program will be the “Neurobiology of Nervous System Tumors.” Our guest speakers include Harald Sontheimer, Ph.D., Professor of Neurobiology and Director, Center for Glial Biology in Medicine, University of Alabama, Birmingham who will discuss "Ion Channels and amino acids aid the biology of malignant gliomas," and Herbert B. Newton, M.D., Professor and Director, Division of Neuro-Oncology, Dept. of Neurology, The Ohio State University, who will speak on "Molecular neuro-oncology and the development of ‘targeted’ therapeutic strategies for brain tumors.” Four additional faculty from the University of Toledo College of Medicine will present their research on the clinical and basic science of brain and peripheral nervous system tumors. After lunch (included with registration), a poster session and two platform sessions will cover the broad range of neuroscience research across the northwest Ohio region.

Objectives
After attending this symposium, participants will be able to:
• Describe the differences in biology of normal and malignant glial cells
• Describe the molecular biology and signal transduction pathways associated with brain tumors
• List ways that these signal transduction pathways are being exploited to develop new, “targeted” drugs that can inhibit the molecular phenotype
• Describe the role of cancer stem cells in the generation of cancerous tumors
• Discuss the molecular mechanisms underlying neuroblastoma stem cell generation and maintenance
• Discuss the role of calcium signaling in neuroendocrine tumor cell survival and function

Symposium Director
L. John Greenfield, Jr., M.D., Ph.D.
Associate Professor
Director, MD/PhD Program
Department of Neurology
University of Toledo

Guest Faculty
Harald Sontheimer, Ph.D.
Professor of Neurobiology and Director
Center for Glial Biology in Medicine
University of Alabama, Birmingham

Herbert B. Newton, M.D.
Professor of Neurology & Oncology
Director, Division of Neuro-Oncology
Esther Dardinger Chair in Neuro-Oncology
Co-Director, Dardinger Neuro-Oncology Center
The Ohio State University Medical Center & James Cancer Hospital
Columbus, Ohio

University of Toledo Faculty
Azedine Medhkour, M.D.
Assistant Professor
Neurosurgery

William Maltese, Ph.D.
Professor and Chairman
Biochemistry and Cancer Biology

David Giovannucci, Ph.D.
Assistant Professor, Neurosciences
Director, Raymond & Beverly Sackler Laboratory for Neuroendocrine Tumor Research

Han Fei Ding, Ph.D.
Associate Professor
Biochemistry and Cancer Biology

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 designate 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.
Registration Information

TUITION
M.D.’s (seeking CME Credit)................................$20
All Others..............................................NO CHARGE

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.

Registration Includes:
• all registration and course materials
• continental breakfast, breaks and lunch
• continuing education credit certificate (with paid fee)

Register:
• By fax (419) 383-6602
• By phone (419) 383-4237
• Online at hsc.utoledo.edu/cme

Location
The Eleanor N. Dana Conference Center is located at 3110 Glendale Avenue Toledo, OH on the campus of the University of Toledo in Toledo, Ohio between Arlington Avenue and Glendale Avenues, near Byrne Road. To reach UT…

Fifth Annual Neuroscience Research Day
University of Toledo
Dana Conference Center
Friday, February 16, 2007

AGENDA:
7:45– 8:00 am Registration and Continental Breakfast
8:00 – 8:05 Welcome and Introduction
L. John Greenfield, Jr., M.D., Ph.D.
Symposium Director
8:05 – 8:40 Current Neurosurgical Treatments for Primary Brain Tumors
Azeddine Medmhour, M.D.
8:40 – 9:15 A Novel Form of Cell Death Induced by Ras GTPase in Glioblastoma Cells
William Maltese, Ph.D.
9:15 – 10:00 Ion Channels and Amino Acids Aid the Biology of Malignant Gliomas
Harald Sontheimer, Ph.D.
10:00- 10:20 Break
Exhibitor and Poster Viewing
10:20 – 10:55 Calcium Signalling in Neuroendocrine Tumor Cells
David Giovannacci, Ph.D.
10:55 -11:30 Neuroblastoma Cancer Stem Cells
Han Fei Ding, Ph.D.
11:30–12:15 pm Molecular Neuro-oncology and the Development of “Targeted” Therapeutic Strategies for Brain Tumors
Herbert B. Newton, M.D.
12:15 -1:00 Lunch and Poster/Exhibitor Viewing
1:00 - 2:00 Platform session I: 3 talks
2:00 – 2:30 Break, poster viewing
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.
3:45 PM Adjournment

Student/Medical Residents
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(419) 383-4237
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Potential Exhibitors
By Phone
(419) 383-8327
By Fax
(419) 383-4102
By Email

cme@hsc.utoledo.edu

Registration Form

5th Annual Neuroscience Research Day
Friday, February 16, 2007

Are you seeking Continuing Medical Education Credit? YES__________NO__________

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.

Deadline for registration is Friday, February 2, 2007.

Please use our special needs or meals if you have any special needs or meals.

MT. D.O.’s (seeking CME Credit)...........................$20
All Others.........................................................NO CHARGE

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From I-75/475 Northbound
Use Exit 8 (Airport Highway-State Route 2). Proceed east on Airport Highway 3.5 miles to Byrne Road. Turn right on Byrne Road to Glendale Avenue (second traffic signal). Turn left on Glendale to UT entrance drive.

From US 23/I-75 Southbound
Use Exit 8A (Airport Highway-State Route 2). Proceed east on Airport Highway 3.5 miles to Byrne Road. Turn right on Byrne Road to Glendale Avenue (second traffic signal). Turn left on Glendale to UT entrance drive.

From I-75 Southbound
Use Exit 201-A (Maumee/U.S. 25) to Anthony Wayne Trail; take Glendale Avenue; turn right on Glendale and proceed west to UT entrance drive.

From Ohio Turnpike, East or Westbound:
Use Exit 59, Maumee. Proceed northbound 1 mile on Reynolds Road (U.S. 20) to Glendale Avenue; turn right on Glendale; proceed 2.5 miles to UT entrance on left.