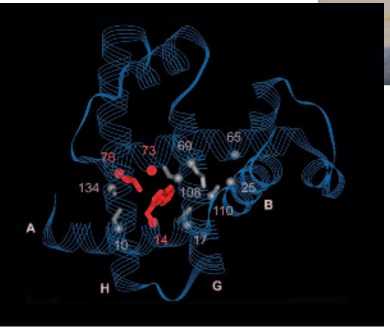

UPSTATE
MEDICAL UNIVERSITY
State University of New York

College of Graduate Studies
SUNY Upstate Medical University
Syracuse, New York
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UPSTATE
MEDICAL UNIVERSITY
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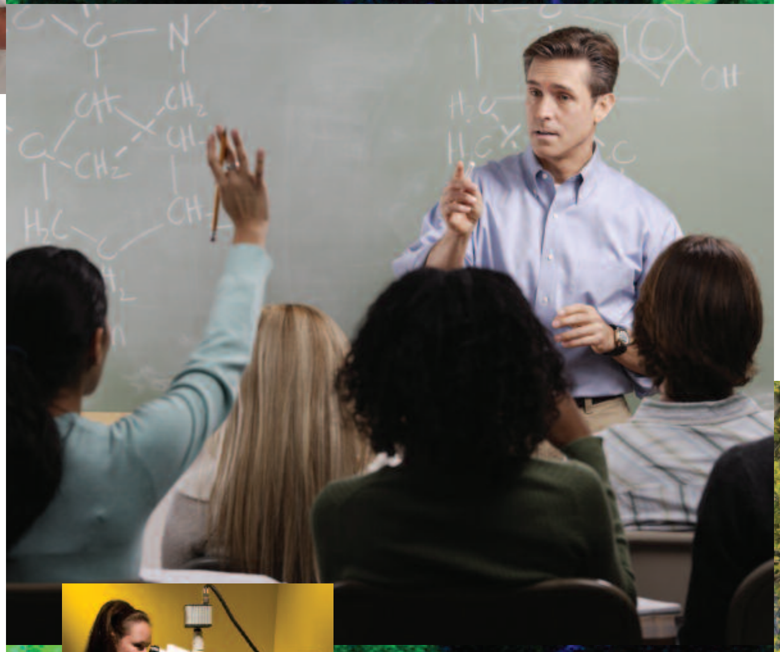
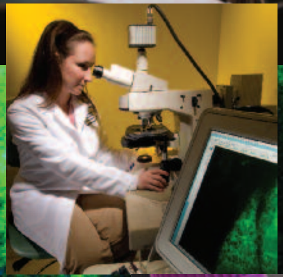
State University of New York

2011-2012

Visiting Lecture Series

Bringing Our Minds...





...To Yours

SYRACUSE, NEW YORK

SUNY Upstate Medical Univesity in Syracuse is one of only 127 academic medical centers in the United States and the only one in Central New York state. Through its four colleges SUNY Upstate trains the next generation of physicians, research scientists, health care professionals and nurses. Its thriving biomedical research enterprise is dedicated to understanding and improving the human condition. Recent technological advances permit investigators to understand diseases at a molecular and cellular level and to develop targeted treatments. Structural, Molecular, and Systems Biology informs and supports research in Upstate's four disease-based pillars: cancer; infectious diseases; disorders of the nervous system; and diabetes, metabolic disorders and cardiovascular diseases.

UPSTATE MEDICAL UNIVERSITY
State University of New York

2011-2012 Upstate Visiting Lecturers, Their Departments and Topics

Visiting Lecture Series

Upstate Medical University is pleased to offer its visiting lecture series **to bring undergraduates a lively and informative lecture** with one of our faculty members. The professors in our series are published, funded investigators who are acknowledged by their peers to be doing excellent research in their fields.

They will conclude each lecture with a brief presentation on the biomedical graduate degree programs and student research offerings at SUNY Upstate.

This **free**, innovative program is designed to spark interest in the biomedical sciences and to further awareness among students and faculty of opportunities at SUNY Upstate. To schedule one of our lecturers to come to your campus for a half-day visit, please complete the enclosed visiting scholar request form.

Contact:
Sandra Tillotson
Graduate Recruitment Coordinator
College of Graduate Studies
SUNY Upstate Medical University
Syracuse, NY
Phone: 315 464-7655
E-mail: tillotss@upstate.edu

For full descriptions and more information look for the Visiting Lecture Series link:
www.upstate.edu/grad

Jeffrey Amack, PhD
Cell & Developmental Biology
Heart Development in the Zebrafish Embryo
Congenital heart disease is the most common birth defect. My lab uses the zebrafish embryo as a model system to find genes that control heart development and disease.

David Amberg, PhD
Biochemistry & Molecular Biology
Genomic Modeling of How Genetic Complexity Influences Phenotype
A presentation on my laboratories research will focus on our genome level screens to map how combinations of loss of function alleles contribute to genetic disease. In addition, Dr. Amberg will discuss the process of obtaining a PhD in biomedical research.

Peter D. Calvert, PhD
Ophthalmology & Biochemistry and Molecular Biology
Watching Cell Signaling Live: What We Are Learning About Biochemistry By Imaging Active Cells
Work in my lab is aimed at understanding signaling and behavior at the molecular level in living cells. Protein dynamics, measured with multiphoton and confocal microscopy, is changing our understanding how cell sensitivity to environmental stimuli is controlled.

Xin Jie Chen, PhD
Biochemistry & Molecular Biology
Mitochondrial Stress, Aging and Aging-Related Degenerative Diseases
Mitochondria are the powerhouse of the cell and its function degenerates during aging and in many aging-related diseases. We are interested in studying how the mitochondrial genome and mitochondrial biogenesis are maintained as we age, and in identifying cellular pathways that can delay mitochondrial degeneration in aging cells.

Stephen J. Glatt, PhD
Psychiatry & Behavioral Sciences, Neuroscience & Physiology
Biomarkers for Neuropsychiatric Disorders
A summary of the latest efforts to identify biologically valid biomarkers for neuropsychiatric disorders, which should facilitate quicker diagnosing, better treatment choices, and earlier intervention.

Steven Goodman, PhD
Dean, College of Graduate Studies, Vice President for Research, Professor of Biochemistry & Molecular Biology, and Pediatrics
Developing Personalized Medicine for Sickle Cell Disease
Protein profiling studies utilizing proteomic technologies has allowed my laboratory to identify bio-markers of sickle cell severity. Changes in these proteins early in life will allow pediatric hematologists, in the future, to tailor therapeutic choices to predicted levels of sickle severity.

Stewart Loh, PhD
Biochemistry & Molecular Biology
Designing Protein Switches For Biology, Biotechnology, and Medicine
Switchable proteins constitute a unique platform for designing biosensors, functional switches, and 'smart' biomaterials. Our goal is to develop general mechanisms by which ordinary proteins can be converted into switches.

Eric C. Olson, PhD
Neuroscience & Physiology
Putting Neurons In Their Place: The Role of the Reelin-Signaling Pathway In Organizing Brain Structure
Covers the basic cellular processes that underlie cortical development as well as puzzling disorders of brain development. Concludes with our studies of Reelin, a secreted ligand that seems to orchestrate precise neuronal positioning.

David W. Pruyne, PhD
Cell & Developmental Biology
From Yeast to Muscles — Using Model Systems to Understand How Cells Build Their Cytoskeleton
A cytoskeleton of actin filaments provides a framework for the body's cells. We have developed a model for how the highly ordered actin arrays in muscle cells are assembled through study of successively more complicated systems.

Mark E. Schmitt, PhD
Biochemistry & Molecular Biology
All Ribosomes are Not Created Equal
Ribosomes are extremely ancient RNA-based enzymes that catalyze protein synthesis in all organisms. Discusses how some ribosomes differ in their RNA and protein composition and how these subtle differences confer different functions that control and regulate the translation process.

Steven M. Taffet, PhD
Microbiology & Immunology
Minding the Gap: The Gap Junction Protein Cx43 in Autoimmune Heart Disease
Studies of the alterations in cell-cell interaction that takes place in the heart during immune mediated heart disease.

Daniel Tso, PhD
Neurosurgery
The Mind's Eye: The Neuroscience of Vision
An idiosyncratic look at the how the eye and the brain yield vision, and results from recent studies that reveal the underlying neural mechanisms.

Andrea Sophia Viczian, PhD
Ophthalmology
Making Eye Cells From Stem Cells
My lab studies the molecular mechanisms that drive stem cells toward cone photoreceptor cells. Our goal is to generate a generous source of transplantable cones for future stem cell therapies.

Richard Wojcikiewicz PhD
Pharmacology
Protein Degradation In Mammalian Cells: The Intriguing Case of IP3 Receptor Processing Via the Ubiquitin-Proteasome Pathway
Covers the importance of protein degradation to cell function, the role of the ubiquitination and the proteasome in protein degradation, and our work on cell signaling and IP3 receptor degradation.

Steven Youngentob, PhD
Psychiatry and Behavioral Sciences
Does Mother Nature Always Know Best? Fetal Ethanol Experience and Chemosensory Plasticity: Its Contribution to Adolescent Alcohol Abuse
Human studies point to a relationship between fetal alcohol exposure and adolescent abuse. Our studies reveal that fetal exposure alters development of smell and taste so the aversive odor and flavor of alcohol become more acceptable, thereby enhancing intake.