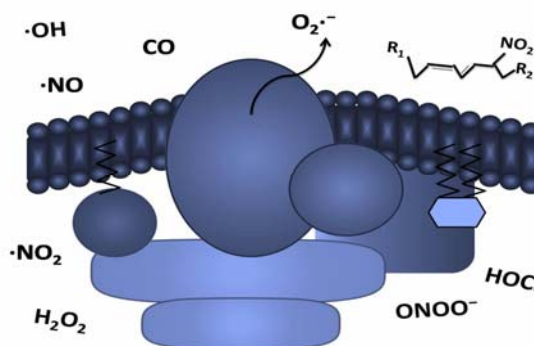




Oxidases and Cell Signaling



Reactive oxygen and nitrogen species (ROS/RNS) mediate a wide range of biological cell signaling and tissue actions including host defense, endothelial cell function, vasomotor tone, cell differentiation and proliferation, tissue remodeling and fibrosis, tumorigenesis, innate immunity and microbial differentiation. A widely-held misconception that these oxidant species are synonymous with oxidative damage is gradually being replaced by a more enlightened appreciation that ROS/RNS elicit exquisite signaling functions in cells.



This symposium will address new developments related to the nature of redox mediators and the diverse structure, localization and regulation of the oxidases and oxygenases that serve as their sources. Prominent leaders in this field will discuss a variety of topics ranging from hemodynamic flow-related modulation of NADPH oxidases to cross-talk among Nox isoforms, xanthine oxidase, eNOS and myeloperoxidase. Special focus will be placed on downstream oxidants and nitrated electrophilic lipids effectuating cell responses in cardiopulmonary physiology and disease, as well as new pharmacological strategies for regulating these processes. Short late-breaking advances will be incorporated to stimulate dialogue into new applications and avenues of inquiry.

May 5, 2010
8:00 am – 5:45 pm

Conference Fees:
\$25, per registrant
\$10, reduced student fee

Continental Breakfast
& Lunch Provided

**University Club,
Ballroom A**

123 University Place
Pittsburgh, PA 15260
www.uc.pitt.edu

Presenters:

Aaron Barchowsky, PhD
P. Michael Bauer, PhD
Arturo Cardounel, PhD
M. Eugenia Cifuentes-Pagano, PhD
Victor Darley-Usmar, PhD
Bruce Freeman, PhD
K.K. Griendling, PhD
Stanley Hazen, MD, PhD
Hanjoong Jo, PhD
Eric Kelley, PhD
Ulla Knaus, PhD
William Nauseef, MD
Victor J. Thannickal, MD
Rhian Touyz, MD, PhD

COURSE DIRECTORS:

Patrick J. Pagano, PhD
Professor of Pharmacology
and Chemical Biology
Vascular Medicine Institute

Mark Gladwin, MD
Professor of Medicine
Division Chief, Pulmonary, Allergy
& Critical Care Medicine
Director, Vascular Medicine Institute

Please complete and return attached registration form,
or for more information, contact:

Theresa Dobransky dobranskyta@upmc.edu



Oxidases and Cell Signaling

REGISTRATION FORM:

Registration Deadline: April 23, 2010

Conference Fee: \$25, per registrant / \$10, reduced student fee

Please type or print; photocopy for additional registrants.

First Name: _____ Last Name: _____

Degree: _____ Department: _____

Institute/Affiliation: _____

Address: _____ City: _____

State: _____ ZIP: _____ E-mail: _____

Work Telephone: () _____ Fax: () _____

Payment type:

_____ Check enclosed. (Please make payable to: **The University of Pittsburgh**)

_____ Pitt University account transfer: _____

(Please note: We are unable to accept transfers from UPMC or Children's Hospital accounts. We apologize for any inconvenience)

Please return the completed registration form and payment to:

-Theresa (Terri) Dobransky
Conference Coordinator / Communications Specialist II
University of Pittsburgh
Division of Pulmonary, Allergy & Critical Care Medicine
UPMC Montefiore, NW628
3459 Fifth Avenue
Pittsburgh, PA 15213
Phone: 412-692-2531
Fax: 412-692-2260
Email: dobranskyta@upmc.edu