The Third International Damage Associated Molecular Pattern Molecules (DAMPs) and Alarmins Symposium

iDEAS

UPMC

Sponsored by
Society of Innate Immunity
Federation of Clinical Immunology Societies (FOCIS)
National Cancer Institute USA (NCI)
International Society for Biologic Therapy of Cancer (iSBTc)
Society of Leukocyte Biology
and the
University of Pittsburgh
Center for Continuing Education in the Health Sciences

Herberman Conference Center
UPMC Cancer Pavilion
Pittsburgh, Pennsylvania, USA

Symposium Directors
Michael T. Lotze, MD
Helena Erlandsson Harris, PhD
Anna Rubartelli, MD

August 30 – September 2, 2008
Overview

The first two meetings of the group interested in Damage Associated Mole-
cular Pattern Molecules (DAMPs) and Alarmins were held in Stockholm and
Milano successively. No meeting has been held on these molecules’ impor-
tance across inflammation and immunologic biology in the United States.
There is a critical need to expand the audience and interest in DAMPs and
Alarmins across the basic sciences and clinical immunology. Building on
the success of the first two meetings, we will explore the important areas of
generation of DAMPs and Alarmins, the host response, and their critical role
in cell death, tissue remodeling, and disease.

Objectives

The primary purpose of the symposium is to introduce the emergent
understanding of the DAMPs and Alarmins in inflammation and clinical im-
umunology. At the conclusion of the symposium, participants will be able to:
• Identify the principles of DAMPs and Alarmins in biology
• Consider the host response to DAMPs and Alarmins and how
inflammatory pathways in acute and chronic disorders mediate
disease pathogenesis
• Develop pharmacologic and other therapeutic strategies to prevent DAMPs’
and Alarmins’ release or enhance their aerobic or targeted elimination

Who Should Attend

The target audience for this symposium will be domestic and international
basic and clinical scientists interested in issues related to inflammation
and the role of DAMPs and Alarmins. This symposium will also appeal to
rheumatologists, geriatricians, infectious disease clinicians, cardiologists with
an interest in the inflammatory aspects of atherosclerosis, and oncologists.

Abstract Submission

Please submit late-breaking abstracts at:
https://ccehs.upmc.edu/formalCourses.jsp#1572

Please be sure to select one of the following sessions for
your submittal:
• DAMPs and Alarmins Receptors - RAGE, IL1Rs, TLRs, NLRs,
and RLRs
• Advances in DAMPs and Alarmins
• Clinical and Preclinical Studies of DAMPs and Alarmins

Meeting Location

The conference will be held at the Herberman Conference Center located
within the UPMC Shadyside Cancer Pavilion, 5150 Centre Avenue,
Pittsburgh, PA 15232.

Lodging

A block of rooms has been reserved at the Marriott Courtyard located at
5308 Liberty Avenue; telephone +1 (412) 683-3113. The rate is $139 per
night plus applicable taxes. When calling please mention you are attending
the DAMPs and Alarmins Symposium to secure the reduced rate. The
rate can only be guaranteed through August 9, 2008, or until the room
block reaches capacity. If you have problems reserving a room, please call
us at +1 (412) 647-9541 or +1 (412) 647-8232.

Activities in Pittsburgh

Pittsburgh, Pennsylvania, has been named by Frommer’s Guide as one of
its top destinations for 2008. This year Pittsburgh is celebrating its 250th
birthday. A city rich in history that boasts internationally acclaimed cultural
arts, champion sports teams, and eclectic neighborhoods, Pittsburgh offers
a variety of affordable and easily accessible activities like kayaking, hiking,
biiking, in-line skating, or fly-fishing. And it’s within an hour’s drive of Frank
Lloyd Wright’s world famous Fallingwater and Ohiopyle’s world-class rapids,
as well as the beautiful farmlands of Western Pennsylvania.
**Conference Schedule**

**Saturday, August 30 (Hillman Cancer Center Cooper Auditorium)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00 PM</td>
<td>Welcome: Meeting Co-Organizers</td>
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<tr>
<td></td>
<td>Helena Erlandsson Harris, PhD [Stockholm, Sweden]</td>
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<tr>
<td></td>
<td>Michael T. Lotze, MD [Pittsburgh, PA – USA]</td>
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<tr>
<td></td>
<td>Anna Rubartelli, MD [Genova, Italy]</td>
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<tr>
<td>6:30 PM</td>
<td>Keynote Address: Life and Death Matters</td>
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<td></td>
<td>Ruslan Medzhitov, MD [New Haven, CT – USA]</td>
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<tr>
<td>7:30 PM–9:30 PM</td>
<td>Light Reception at Hillman Cancer Center Atrium</td>
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**Sunday, August 31 (Herberman Conference Center)**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00 AM</td>
<td>Fun Run (meet in Hotel Lobby - rain date: Sept. 1)</td>
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<tr>
<td>7:00 AM</td>
<td>Breakfast</td>
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**Session 1:** Damage Recognition and Response in Invertebrates and Plants  
*Session Chairman: Jean-Marc Reichhart, PhD [Paris, France]*

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Evolution of Host Response to Damage in Insects</td>
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<td></td>
<td>Jean-Marc Reichhart, PhD [Paris, France]</td>
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<tr>
<td>8:30 AM</td>
<td>Injury Responses in the Primitive Chordate, <em>Botryllus schlosseri</em></td>
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<td>Anthony W. De Tomaso, PhD [Stanford, CA – USA]</td>
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<tr>
<td>9:00 AM</td>
<td>Allorecognition in Hydractinia</td>
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<td>Matthew Nicotra, PhD [Cambridge, MA – USA]</td>
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<tr>
<td>9:30 AM</td>
<td>Pattern Recognition Receptors in Plants</td>
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<td></td>
<td>Mahmut Tör, PhD [Warwick, United Kingdom]</td>
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<tr>
<td>10:00 AM</td>
<td>BREAK</td>
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**Session 2:** HMGB1, S100 Molecules, and Heat Shock Proteins as Prototypical DAMPs and Alarmins  
*Session Chairman: Marco E. Bianchi, MD [Milano, Italy]*

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:30 AM</td>
<td>HMGB1 Promotes Wound Healing and Stem Cell Differentiation</td>
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<td>Marco E. Bianchi, MD [Milano, Italy]</td>
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<td>11:00 AM</td>
<td>Sepsis Pathology is Mediated by HMGB1</td>
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<td>Huan Yang, PhD [New York, NY – USA]</td>
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<tr>
<td>11:30 AM</td>
<td>S100 Molecules Drive Immunity</td>
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<td>Johannes Roth, MD [Münster, Germany]</td>
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<tr>
<td>Noon</td>
<td>DAMPs and Cancer Causation, S100P and RAGE</td>
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<td></td>
<td>Craig D. Logsdon, MD [Houston, TX – USA]</td>
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<tr>
<td>12:30 PM</td>
<td>Heat Shock Proteins</td>
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<tr>
<td></td>
<td>Robert J. Binder, PhD [Pittsburgh, PA – USA]</td>
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<tr>
<td>1:00 PM</td>
<td>Lunch &amp; Poster Session 1 – DAMPs</td>
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**Session 3:** DAMPs Receptors – RAGE, IL1Rs, TLRs, NLRs, and RLRs  
*Session Chairman: Gunther Hartmann, MD [Bonn, Germany]*

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<tr>
<th>Time</th>
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<tr>
<td>2:00 PM</td>
<td>RAGE Regulates Inflammation</td>
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<td>Anne Marie Schmidt, MD [New York, NY – USA]</td>
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<tr>
<td>2:30 PM</td>
<td>Innate and Adaptive Responses are Mediated by RAGE</td>
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<td></td>
<td>Angelika Bierhaus, PhD [Heidelberg, Germany]</td>
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<tr>
<td>3:00 PM</td>
<td>BREAK</td>
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<th>Time</th>
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<tr>
<td>3:30 PM</td>
<td>RLRs and DNA and RNA Sensing</td>
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<td></td>
<td>Gunther Hartmann, MD [Bonn, Germany]</td>
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<tr>
<td>4:00 PM</td>
<td>DAMPs and DAMP Receptors in Major Traumatic Injury</td>
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<td>Eugen Faist, MD, FACS [Munich, Germany]</td>
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**Abstract Presentations**  
*Abstract Chairman: Yoram Vodovotz, PhD [Pittsburgh, PA – USA]*

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<th>Time</th>
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<tr>
<td>4:30 PM</td>
<td>Synergistic Engagement of TLR9 and the B-cell Receptor</td>
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<td>Akanksha Chaturvedi [Bethesda, MD – USA]</td>
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<td>4:45 PM</td>
<td>A Soluble Form of RAGE is Produced by Proteolytic Cezation of the Membrane Bound Form by the Sheddase a Disintegrin and Metalloprotease 10 (ADAM10)</td>
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<td>Angela Raucci [Milano, Italy]</td>
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<tr>
<td>5:00 PM</td>
<td>The Inflammatory Receptor RAGE shRNA Increases Sensitivity of a Pancreatic Tumor Cell Line to Chemotherapy <em>in vitro</em></td>
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<td></td>
<td>Rui Kang [Pittsburgh, PA – USA]</td>
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</table>
5:15 PM  RAGE Signaling Promotes Tumor Development by Sustaining Inflammation
Christoffer Gebhardt [Heidelberg, Germany]  
5:30 PM  Endogenous Danger Signals from Dying Tumor Cells Promote T-cell-dependent Antitumor Responses and Determine the Efficacy of Conventional Anticancer Therapies
Antoine Tesniere [Villejuif, France]  
5:45 PM  Lung-Specific Isoforms of Receptor for Advanced Glycation End Products (RAGE) Are Distinct from those Expressed In Other Tissues and in Cultured Cell Lines
Julia Gefter [Pittsburgh, PA – USA]  
6:00 PM  The NOD2 Agonist Muramyl-dipeptide (MDP) Reverses the Inhibitory Effects of TLR4 Activation on Enterocyte Proliferation through Effects on Beta-Catenin Signaling, and Attenuates the Severity of Experimental Necrotizing Enterocolitis
Ward Richardson [Pittsburgh, PA – USA]  
6:15 PM  Sunday Adjournment (Dinner on Your Own)

Monday, September 1

6:00 AM  Fun Run Alternate Date (in case of rain)
7:00 AM  Registration & Breakfast

Session 4: Extracellular and Intracellular Products as DAMPs
Session Chairman: Jeffrey L. Platt, MD [Ann Arbor, MI – USA]

8:00 AM  Is HMGB1 Proinflammatory by Itself?
IL-1 and Other Factors
Edward Abraham, MD [Birmingham, AL – USA]  

8:30 AM  Hypos and the Danger Hypothesis in Tissues
Polly Matzinger, PhD [Bethesda, MD – USA]  
9:00 AM  Exogenous versus Endogenous Agonists of TLR Signals
Jeffrey L. Platt, MD [Ann Arbor, MI – USA]  
9:30 AM  DNA as an Immunostimulatory Molecule
Anthony J. Coyle, PhD [Gaithersburg, MD – USA]  
10:00 AM  BREAK

Session 5: DAMPs, anti-DAMPs and Redox
Session Chairwoman: Anna Rubartelli, MD [Genova, Italy]

10:10 AM  Oxidoreductases and DAMPs in Inflammation
Anna Rubartelli, MD [Genova, Italy]  
10:40 AM  Controlling Inflammatory Tissue Damage with Purine Metabolites/Adenosine
Michail V. Sitkovsky, PhD [Boston, MA – USA]  
11:10 AM  Redox Associated Gene Products and Autoimmunity
Rikard Homdahl, MD, PhD [Stockholm, Sweden]  
11:40 AM  DNAes Regulate Immunity and Inflammation
Shigekaza Nagata, PhD [Kyoto, Japan]  
12:10 PM  Lunch & Poster Session 2 – DAMPs Receptors and Anti-DAMPs
Session 6: Advances in DAMPs and Alarmins [from abstracts submitted]
Session Chairman: Timothy R. Billiar, MD [Pittsburgh, PA – USA]

Abstract Presentations

1:30 PM HMGB1 Secretion from Monocytes Can Be Inhibited In Vitro By Anti-Rheumatic Drugs
Hanna Schierbeck [Stockholm, Sweden]

1:45 PM S-Nitrosylated S100A8 Suppresses Mast Cell Activation: Novel Anti-Inflammatory Properties
Su Yin Lim [Sydney, Australia]

2:00 PM P2X7 Activation in Myeloid Cells Results in Novel Filopodia that Vesiculate into Microvesicles Containing Mature Cathepsin D
Louis Thomas [Pittsburgh, PA — USA]

2:15 PM Induction and Activation of Transforming Growth Factor-β1 (TGF-β1) by Extracellular NAD+ in Mouse Macrophages: Is NAD+ an Anti-Inflammatory DAMP?
Rajaie Namas [Pittsburgh, PA — USA]

2:30 PM Src-family Kinases Transduce the Extracellular HMGB1 Signal for Cell Migration
Roberta Palumbo [Milan, Italy]

2:45 PM Nucleophosmin Acts as an Alarmin: Implications in Septic Shock and Lethal Inflammation
Yuko Nawa [Kagoshima, Japan]

3:00 PM BREAK

3:15 PM The Damage Associated Molecular Pattern Molecule [DAMP] High Mobility Group Box Protein-1 [HMGB1] Is an Activator of Autophagy
Daolin Tang [Pittsburgh, PA — USA]

3:30 PM HMGB1-nucleosome Complexes from Apoptotic Cells Induce Inflammation and Immune Activation Implications for the Etiopathogenesis of Systemic Lupus Erythematosus
Vilma Urbonaviciute [Erlangen, Germany]

3:45 PM Intracellular Interleukin-1α [IL1α] Translocates to the Nucleus under Stress
Shahar Dotan [Beer Sheva, Israel]

4:00 PM Functional TLR9 is Involved in the Systemic Inflammatory Response to Injury
Roop Gill [Pittsburgh, PA — USA]

4:15 PM Autophagic Stress in Cocultured Cells Induces Translocation of HMGB1 from the Nucleus to the Cytosol of Macrophages In Vitro
Adam M. Farkas [Pittsburgh, PA — USA]

4:30 PM How HMGB1 Is Sequestered in Local Injury Sites Inhibiting Intravasation? Role of Endothelial Thrombin-Thrombomodulin Safety Net System
Ikuro Maruyama [Kagoshima, Japan]

4:45 PM Monday Adjournment

Tuesday, September 2

Registration and Breakfast

Session 7: Tissue DAMPs and Alarmins
Session Chairwoman: Helena Erlandsson Harris, PhD [Stockholm, Sweden]

7:00 AM Degranulation and Cell Injury Rapidly Releases Alarmins to Galvanize Immune Responses
Joost J. Oppenheim, MD [Frederick, MD – USA]

8:00 AM Hyaluronan Drives Treg Development
Gerald Nepom, MD, PhD [Seattle, WA – USA]
9:00 AM  HMGB1/RAGE in the Regulation of Cell Motility
Heikki Rauvala, MD, PhD [Helsinki, Finland]

9:30 AM  Alarmins such as HMGB1/HMGN1 and Eosinophil Derived
Neurotoxin Regulate TH1 and TH2 Immune Responses
De Yang, MD, PhD [Frederick, MD – USA]

10:00 AM  Ischemia Reperfusion and DAMPs
Timothy R. Billiar, MD [Pittsburgh, PA – USA]

10:30 AM  BREAK

**Session 8: Immunity and DEAs**
*Session Chairman: Ulf Andersson, MD, PhD [Stockholm, Sweden]*

10:45 AM  Rheumatoid Arthritis and DAMPs
Helena Erlendsson Harris, PhD [Stockholm, Sweden]

11:15 AM  Apoptosis, Autophagy, Necrosis and Antigen Cross Presentation
Matthew L. Albert, MD, PhD [Paris, France]

11:45 AM  Inflammatory Bowel Disease
Scott E. Plevy [Chapel Hill, NC – USA]

12:15 PM  HMGB1 and RAGE Regulates Dendritic Cell Function and Traffic
Patrizia Rovere-Querini, MD, PhD [Milano, Italy]

12:45 PM  Lunch & Poster Session 3 – Clinical and Preclinical Studies of DAMPs

**Session 9: Cancer and DEAs**
*Session Chairman: Michael Lotze, MD [Pittsburgh, PA – USA]*

1:45 PM  Death in Cancer Biology
Douglas R. Green, PhD [Memphis, TX – USA]

2:15 PM  Granulysin Release in the Immune Response
Alan M. Krensky [Bethesda, MD – USA]

2:45 PM  Animal Models of Cancer and DAMPs
Herbert J. Zeh, III, MD [Pittsburgh, PA – USA]

3:15 PM  BREAK

**Abstract Presentations**
*Abstracts Chairman: Gerald Nepom, MD, PhD [Seattle, WA – USA]*

3:30 PM  Absence of MRP14 Protects Against Sepsis-Induced Liver Injury In Mice
Marieke A.D. van Zoelen [Amsterdam, Netherlands]

3:45 PM  Relationship of Plasma HMGB1 Levels to Organ Injury
Liver Transplantation and Acute Pancreatitis
Ari Rouhiainen [Helsinki, Finland]

4:00 PM  DAMPs as Integrators of the Acute Inflammatory Response: Mechanistic and Translational Insights from Computational Simulations
Yoram Vodovotz [Pittsburgh, PA – USA]

4:15 PM  The Importance of Molecules of the IL-1 Family in Carcinogenesis and Tumor Invasiveness
Ron N. Apte [Beer Sheva, Israel]

4:30 PM  HMGB1 Is Involved in the Pathogenesis of a Novel Spontaneous Arthritis Model
Therese Östberg [Stockholm, Sweden]

4:45 PM  Immune Cells and the Response to DAMPs in Cancer
Michael T. Lotze, MD [Pittsburgh, PA – USA]

5:15 PM  Apoptosis, Autophagy, and Cancer
Eileen White, PhD [Piscataway, NJ – USA]

5:45 PM  Introduction to the Helsinki 4th iDEAs 2010
Heikki Rauvala, MD, PhD [Helsinki, Finland]

6:00 PM  Meeting Summation
Michael T. Lotze, MD [Pittsburgh, PA – USA]

6:15 PM  Symposium Adjournment

***Schedule is subject to change***
Symposium Directors

Michael T. Lotze, MD
Professor of Surgery and Bioengineering
Assistant Vice Chancellor for Sponsored Training Grants, Health Sciences
    Vice Chair, Surgery Research
Director, Strategic Partnerships
University of Pittsburgh Cancer Institute
Director, Catalyst Program
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Piscataway, NJ, USA

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Pittsburgh, Pennsylvania, USA

Local Organizing Committee

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University of Pittsburgh

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Associate Dean for Student Affairs
University of Pittsburgh School of Medicine

Tina Kilgore
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Department of Surgery
University of Pittsburgh

Lisa Lorence
Assistant Director, Academic Affairs
University of Pittsburgh Health Sciences

Kambra McConnell
Individual Giving Officer
Development Department
University of Pittsburgh Cancer Institute

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Manager
Media Relations
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Post-doctoral Associate
Department of Surgery
University of Pittsburgh

Yoram Vodovotz, PhD*
University of Pittsburgh

Herbert J. Zeh III, MD*
University of Pittsburgh

Kelly Zeh
Surgical Oncology Support

*See listing under Local Faculty
Registration Information

PRE-REGISTER — All pre-registrations are recommended by August 16, 2008. Registrations after this date cannot be guaranteed.

Online registration will be accepted until August 25, 2008, or until course capacity is met, whichever occurs first (please remember that space is limited). Registering online is the quickest and easiest way to reserve your space at CCEHS conferences.

• Visit our online registration site at: https://ccehs.upmc.edu/formalCourses.jsp#1572
• Click the Registration button and enter all of the requested information
• After registering, an electronic confirmation will be sent to the email address you provided when you registered.

Please note: Registration is not complete until you receive the confirmation letter / email for your pre-registration. If you do not receive this letter within 5-7 days of registration, please contact us at +1 (412) 647-9541 or +1 (412) 647-8232. You must bring this confirmation with you to the conference.

Early Registration Rates (until July 19, 2008):
Investigators: $ 300
Fellows and Graduate Students: $ 150

Late Registration Rates (after July 19, 2008)
Investigators: $ 400
Fellows and Graduate Students: $ 175

Registration fee includes:
• Registration and course materials
• Continental breakfast, refreshments, and lunch
• Monday evening gala at the Andy Warhol Museum

Paper Registrations by Fax or Mail (see contact information below)
If you are unable to register online, please contact us for a paper registration form. UPMC employees whose registration fee will be remitted via journal transfer should request the paper registration form.

Registration Cancellation
All cancellations must be in writing and sent to us via U.S. mail, e-mail, or fax. Tuition for cancellations postmarked or date stamped before August 15, 2008, will be completely refunded. After August 15, 2008, a $35 administrative fee will be assessed. No refunds will be made after August 22, 2008.

Conference contact for cancellation requests or registrations by mail or fax:
Shauna R. Brown, Senior Conference Manager
UPMC/CCEHS
Medical Arts Building, Suite 200
200 Lothrop Street
Pittsburgh, PA 15213
brownsr@upmc.edu
+1 (412) 647-9541 or +1 (412) 647-8232
Fax: +1 (412) 647-8222

The UPMC/Center for Continuing Education in the Health Sciences reserves the right to cancel this program if sufficient registrations are not received. In the case of cancellation, the department will fully refund registration fees. However, other costs incurred by the registrant, such as airline or hotel penalties, are the responsibility of the registrant.
For additional information, contact:
Shauna R. Brown, Senior Conference Manager
UPMC/CCEHS
Medical Arts Building, Suite 200
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Fac: +1 (412) 647-8222

Special Needs

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by calling +1 (412) 647-9541 or +1 (412) 647-8232.

Visit the Center for Continuing Education in the Health Sciences Web Site

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