



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 Molecular Pattern Molecules (DAMPs) and Alarmins were held in Stockholm and Milano successively. No meeting has been held on these molecules' importance 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 immunology. 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, biking, 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)

6:00 PM **Welcome: Meeting Co-Organizers**
Helena Erlandsson Harris, PhD [Stockholm, Sweden]
Michael T. Lotze, MD [Pittsburgh, PA – USA]
Anna Rubartelli, MD [Genova, Italy]

6:30 PM **Keynote Address: Life and Death Matters**
Ruslan Medzhitov, MD [New Haven, CT – USA]

7:30 PM – 9:30 PM **Light Reception at Hillman Cancer Center Atrium**

Sunday, August 31 (Herberman Conference Center)

6:00 AM **Fun Run (meet in Hotel Lobby - rain date: Sept. 1)**

7:00 AM **Breakfast**

Session 1: Damage Recognition and Response in Invertebrates and Plants
Session Chairman: Jean-Marc Reichhart, PhD [Paris, France]

8:00 AM **Evolution of Host Response to Damage in Insects**
Jean-Marc Reichhart, PhD [Paris, France]

8:30 AM **Injury Responses in the Primitive Chordate, *Botryllus schlosseri***
Anthony W. De Tomaso, PhD [Stanford, CA – USA]

9:00 AM **Allorecognition in Hydractinia**
Matthew Nicotra, PhD [Cambridge, MA – USA]

9:30 AM **Pattern Recognition Receptors in Plants**
Mahmut Tör, PhD [Warwick, United Kingdom]

10:00 AM **BREAK**

Session 2: HMGB1, S100 Molecules, and Heat Shock Proteins as Prototypical DAMPs and Alarmins
Session Chairman: Marco E. Bianchi, MD [Milano, Italy]

10:30 AM **HMGB1 Promotes Wound Healing and Stem Cell Differentiation**
Marco E. Bianchi, MD [Milano, Italy]

11:00 AM **Sepsis Pathology is Mediated by HMGB1**
Huan Yang, PhD [New York, NY – USA]

11:30 AM **S100 Molecules Drive Immunity**
Johannes Roth, MD [Münster, Germany]

Noon **DAMPs and Cancer Causation, S100P and RAGE**
Craig D. Logsdon, MD [Houston, TX – USA]

12:30 PM **Heat Shock Proteins**
Robert J. Binder, PhD [Pittsburgh, PA – USA]

1:00 PM **Lunch & Poster Session 1 – DAMPs**

Session 3: DAMPs Receptors – RAGE, IL1Rs, TLRs, NLRs, and RLRs
Session Chairman: Gunther Hartmann, MD [Bonn, Germany]

2:00 PM **RAGE Regulates Inflammation**
Anne Marie Schmidt, MD [New York, NY – USA]

2:30 PM **Innate and Adaptive Responses are Mediated by RAGE**
Angelika Bierhaus, PhD [Heidelberg, Germany]

3:00 PM **BREAK**

3:30 PM **RLRs and DNA and RNA Sensing**
Gunther Hartmann, MD [Bonn, Germany]

4:00 PM **DAMPs and DAMP Receptors in Major Traumatic Injury**
Eugen Faist, MD, FACS [Munich, Germany]

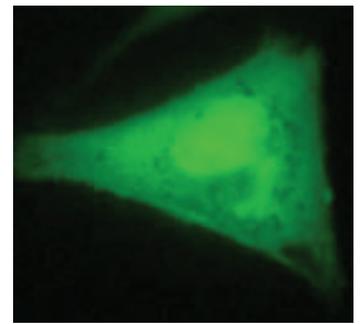
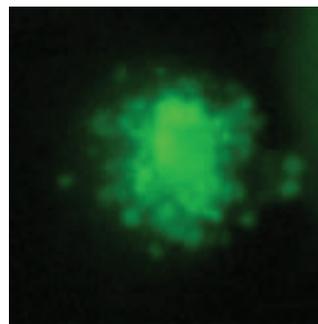
Abstract Presentations

Abstract Chairman: Yoram Vodovotz, PhD [Pittsburgh, PA – USA]

4:30 PM **Synergistic Engagement of TLR9 and the B-cell Receptor**
Akanksha Chaturvedi [Bethesda, MD – USA]

4:45 PM **A Soluble Form of RAGE is Produced by Proteolytic Cleavage of the Membrane Bound Form by the Sheddase a Disintegrin and Metalloprotease 10 (ADAM10)**
Angela Raucci [Milano, Italy]

5:00 PM **The Inflammatory Receptor RAGE shRNA Increases Sensitivity of a Pancreatic Tumor Cell Line to Chemotherapy *in vitro***
Rui Kang [Pittsburgh, PA – USA]



- 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 Geffer [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]

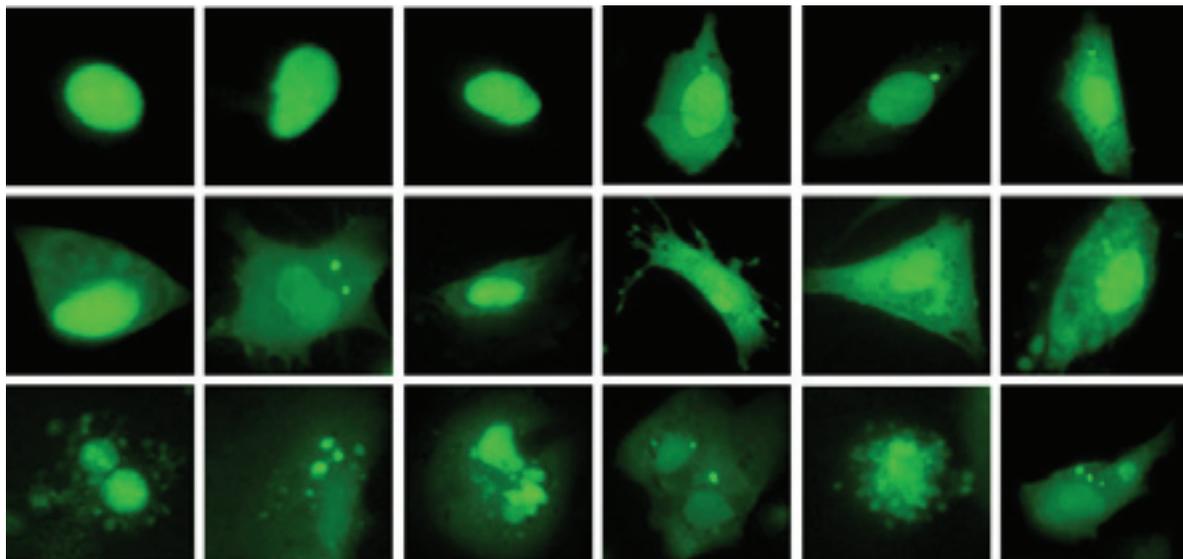
- 8:30 AM **Hypos and the Danger Hypothesis in Tissues**
Polly Matzinger, PhD [Bethesda, MD – USA]
- 9:00 AM **Exogenous versus Endogenous Agonists of TLR Signals**
Jeffrey L. Platt, MD [Ann Arbor, MI – USA]
- 9:30 AM **DNA as an Immunostimulatory Molecule**
Anthony J. Coyle, PhD [Gaithersburg, MD – 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 **DNases Regulate Immunity and Inflammation**
Shigekazu 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- β 1 (TGF- β 1) 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-1 α [IL1 α] 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**

6:00 PM – 10:00 PM **Gala Evening at Andy Warhol Museum**
Andy Warhol and Modern Art; stations throughout the Museum. Buses will pick up at the Herberman and the hotel and then return to hotel at the end of evening.



Entrance to the Andy Warhol Museum

Tuesday, September 2

7:00 AM **Registration and Breakfast**

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

8:00 AM **Degranulation and Cell Injury Rapidly Releases Alarmins to Galvanize Immune Responses**
Joost J. Oppenheim, MD [Frederick, MD – USA]

8:30 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]	3:30 PM	Absence of MRP14 Protects Against Sepsis-Induced Liver Injury In Mice Marieke A.D. van Zoelen [Amsterdam, Netherlands]
10:00 AM	Ischemia Reperfusion and DAMPs Timothy R. Billiar, MD [Pittsburgh, PA – USA]	3:45 PM	Relationship of Plasma HMGB1 Levels to Organ Injury Liver Transplantation and Acute Pancreatitis Ari Rouhiainen [Helsinki, Finland]
10:30 AM	BREAK		
	Session 8: Immunity and DEAs <i>Session Chairman: Ulf Andersson, MD, PhD [Stockholm, Sweden]</i>	4:00 PM	DAMPs as Integrators of the Acute Inflammatory Response: Mechanistic and Translational Insights from Computational Simulations Yoram Vodovotz [Pittsburgh, PA – USA]
10:45 AM	Rheumatoid Arthritis and DAMPs Helena Erlandsson Harris, PhD [Stockholm, Sweden]	4:15 PM	The Importance of Molecules of the IL-1 Family in Carcinogenesis and Tumor Invasiveness Ron N. Apte [Beer Sheva, Israel]
11:15 AM	Apoptosis, Autophagy, Necrosis and Antigen Cross Presentation Matthew L. Albert, MD, PhD [Paris, France]	4:30 PM	HMGB1 Is Involved in the Pathogenesis of a Novel Spontaneous Arthritis Model Therese Östberg [Stockholm, Sweden]
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 <i>Session Chairman: Michael Lotze, MD [Pittsburgh, PA – USA]</i>	4:45 PM	Immune Cells and the Response to DAMPs in Cancer Michael T. Lotze, MD [Pittsburgh, PA – USA]
1:45 PM	Death in Cancer Biology Douglas R. Green, PhD [Memphis, TX – USA]	5:15 PM	Apoptosis, Autophagy, and Cancer Eileen White, PhD [Piscataway, NJ – USA]
2:15 PM	Granulysin Release in the Immune Response Alan M. Krensky [Bethesda, MD – USA]	5:45 PM	Introduction to the Helsinki 4th iDEAs 2010 Heikki Rauvala, MD, PhD [Helsinki, Finland]
2:45 PM	Animal Models of Cancer and DAMPs Herbert J. Zeh, III, MD [Pittsburgh, PA – USA]	6:00 PM	Meeting Summation Michael T. Lotze, MD [Pittsburgh, PA – USA]
3:15 PM	BREAK	6:15 PM	Symposium Adjournment

Schedule is subject to change

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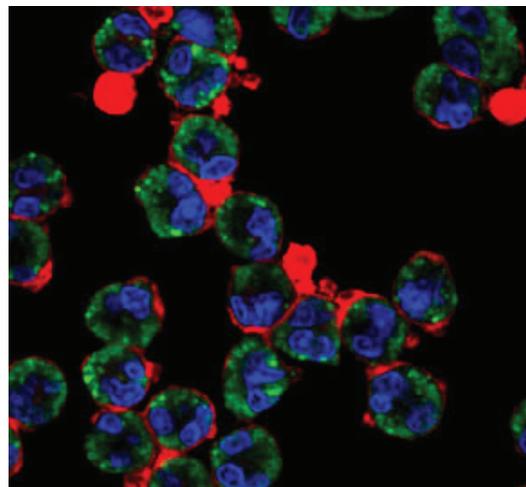
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Kelly Zeh

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.

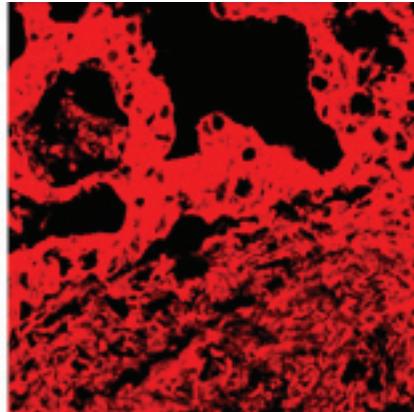
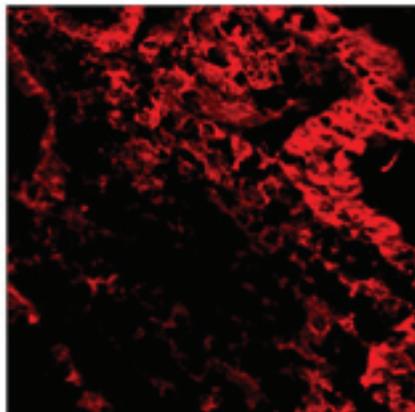
Registration Cancellation

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:

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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:

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Special Needs

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Helsinki, Finland ~ iv-IDEAS June 2010

