

# International DOSE-RESPONSE Society

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*Focusing on the Dose-Response in the Low-Dose Zone*

## 2007 Conference Overview

<p><b>Title and Site for International Hormesis Society's 2007 Annual Conference May 1 – 2, 2007</b></p>	<p><b>HORMESIS 2007: IMPLICATIONS FOR TOXICOLOGY, MEDICINE, AND RISK ASSESSMENT</b> University of Massachusetts, Amherst, MA US</p>
<p><b>Conference Coordinator</b></p>	<p>Denise Leonard, MSc</p>
<p><b>Registration Fees</b></p>	<p>Full Two Days: <b>\$399</b> Full Two Days for International Hormesis Society Members: <b>\$299</b> Government and Academic Rate: <b>\$199</b> Government and Academic Rate for International Hormesis Society Members: <b>\$149</b> Student Rate: <b>\$99</b> Student Rate for International Hormesis Society Members: <b>\$74</b></p>
<p><b>Award Recipient for "Outstanding Career Achievement in the Field of Hormesis"</b></p>	<p>Edouard Alexandre Azzam, PhD; Ronald E. J. Mitchel, PhD; Erno Tyihak, PhD  Bios available at the "Awards" link on the Society website</p>
<p><b>Award Recipient for "Outstanding New Investigator in the Field of Hormesis"</b></p>	<p>Nina Cedergreen, PhD  Bio available at the "Awards" link on the Society website</p>
<p><b>Award Recipient for "Outstanding Leadership in the Field of Hormesis"</b></p>	<p>Sadao Hattori, PhD  Bio available at the "Awards" link on the Society website</p>
<p>Platform Presentation: <b>Plenary</b></p>	<p><b>Moderator:</b> A. Wallace Hayes, <i>Harvard School of Public Health, Cambridge, MA</i></p> <p><b>Mechanisms of Action and Therapeutic Potential of Neurohormetic Phytochemicals</b> Mark Mattson, <i>National Institute on Aging Intramural Research Program, Baltimore, MD</i></p> <p><b>Homeostasis: The Yin and Yang of Autoimmunity</b> Michal Schwartz, <i>The Weizmann Institute of Science, Rehovot, Israel</i></p> <p><b>How Low is Low Enough? Role of Science, Policy and Public Opinion</b> Roger O. McClellan, <i>Advisor, Toxicology and Human Health Risk Analysis, Albuquerque, MN</i></p>
<p>Platform Presentation: <b>Toxicology</b></p>	<p><b>Moderator:</b> George Hoffmann, <i>Holy Cross College, Worcester, MA</i></p> <p><b>Activation of Adaptive Cellular Networks and Hormetic Dose-Response Relationships</b> Mel Andersen, Harve J. Clewell, <i>CIIT Centers for Health Research, Research Triangle Park, NC</i></p>

Annie M. Jarabek, *National Health and Environmental Effects Research Laboratory, US EPA, Research Triangle Park, NC*  
Qiang Zhang, Jingbo Pi, *CIIT Centers for Health Research, Research Triangle Park, NC*

**Hormesis with Drug-induced Cytotoxicity**

Peter J O'Brien, *University College Dublin, Belfield, Dublin 4, Ireland*

**Non-Monotonic Dose-Toxicity Effects and Behavioral Function: Low-Dose Impairments from Developmental Pesticide Exposure**

Edward D. Levin, Ph.D., *Duke University Medical Center, Durham, NC*

**Hormesis with Herbicides: Glyphosate as a Case Study**

Stephen O. Duke, Joanna Bajsa, Scott R. Baerson, *USDA, ARS, Natural Products Utilization Research, University, MS*  
Nina Cedergreen, *University of Copenhagen, Tåstrup, Denmark*  
Edivaldo D. Velini, *University of São Paulo State, Botucatu, Brazil*

**Biological Properties in Genes for Low-Dose Regulation of the Embryonic Transcriptome**

Thomas B. Knudsen, Amar V. Sing, *University of Louisville, Louisville, KY*

Platform Presentation:  
**Biomedical**

**Moderator:** Paolo F. Ricci, *University of Massachusetts, Amherst, MA*

**Mechanisms Underlying the Bell-shaped Response of Neurons to Glutamate**

Giles Hardingham, *University of Edinburgh, Edinburgh, Scotland*

**Biphasic Action of Steroids on Neural Function: Mechanistic and Therapeutic Implications**

Roberta Brinton, *University of Southern California, Los Angeles, CA*

**Genes and Small Molecules that Extend Lifespan: Evidence for Xenohormesis**

David Sinclair, *Harvard Medical School, Boston, MA*

**Hormesis: Dermatologic Opportunities and Options**

Howard Maibach, *University of California, San Francisco, CA*

**Experimental and Clinical Information for the Possible Application of LDR-induced Hormesis and Adaptive Response in Medical Practice**

Lu Cai, *The University of Louisville, Louisville, KY*

Platform Presentation:  
**Multiple Stressors and Hormesis**

**Moderators:** Carmel Mothersill, *McMaster University, Hamilton, Ontario, Canada*

William A. Bernhard, *University of Rochester Medical Center, Rochester, NY*

**Which DNA Damage is likely to be Relevant in Hormetic Responses?**

Shubhadeep Purkayastha, *University of Rochester Medical Center, Rochester, NY*

Jamie R. Milligan, *University of California at San Diego, La Jolla, CA*

William A. Bernhard, *University of Rochester Medical Center, Rochester, NY*

**Interactions Between Chemicals and Radiation - 2+2 May Not Equal 4**

John D. Zimbrick, Dmytro Grygoryev, Oleksandr Moskalenko, *Colorado State University, Fort Collins, CO*

**Biological Mechanisms of Radiation/Chemical Interactions Which Could Lead to Hormetic Radioprotective Effects**

Carmel Mothersill, *McMaster University, Hamilton, Ontario, Canada*

**Hormesis in Joint Action Studies with Phytotoxins from *Parthenium hysterophorus L.***

Regina G. Belz, *University of Hohenheim, Stuttgart, Germany*

**Targeted Radiotherapy: Microgray Doses and the Bystander Effect**

Robert J. Mairs, Marie Boyd, *Glasgow University, UK Beatson Laboratories, Glasgow, Scotland*

Michael R. Zalutsky, *Duke University Medical Centre, Durham, NC*

Natasha E. Fullerton, *Crusade Laboratories Ltd, Glasgow, Scotland*

**Ethical and Philosophical Aspects of Dose-Response Models**

Deborah Oughton, *Norwegian University of Life Sciences, Aas, Norway*

**Hormetic Effects and Legal Difficulties**

Colin Seymour, Carmel Mothersill, *McMaster University, Hamilton, Ontario, Canada*

Platform Presentation:  
**Radiation**

**Moderators:** Bobby Scott, *LRRI, Albuquerque, NM*,  
Edouard Azzam, *New Jersey Medical School, Newark, NJ*

**Mechanisms Underlying the Expression of Low-Dose gamma-Ray-Induced Adaptive Responses in Human and Rodent Fibroblasts**  
Edouard Azzam, *New Jersey Medical School, Newark, NJ*

**Evidence for Radiation Hormesis in Human Lymphocytes**  
Kanokporn Noy Rithidech, *Stony Brook University, Stony Brook, NY*  
Bobby R. Scott, *Lovelace Respiratory Research Institute, Albuquerque, NM*

**Conferral of Immunity to Cancer and Other Diseases by Continuous Low-Dose Radiation**  
Brenda Laster, Ilana Nathan, Jacob Gopas, *Ben Gurion University, Beer Sheva, Israel*  
John Kalef-Ezra, *University of Ioannina Medical School, Ioannina, Greece*

**Low Doses, Cross Adaptation and Multiple Stressors**  
Ron Mitchel, Marilyne Audette-Stuart, Tamara Yankovich, *Atomic Energy of Canada Limited, Chalk River, ON, Canada*

**Exploring the Mechanisms of the Radioadaptive Response at Chernobyl**  
Brenda Rodgers, *Texas Tech University, Lubbock, TX*, Jeffery K. Wickliffe, *University of Texas Medical Branch, Galveston, TX*, Kristen M. Holmes, *M.D. Anderson Cancer Center, Houston, TX*,  
Adam D. Brown, *The University of Texas Health Science Center, San Antonio, TX*  
Robert J. Baker, *Texas Tech University, Biological Sciences, Lubbock, TX*  
Ronald K. Chesser, *Texas Tech University, Lubbock, TX*

**Recent Biological Results against the Validity of the LNT Hypothesis**  
Dietrich Averbeck, Didier Boucher, *Institut Curie-Section de Recherche, Orsay Cedex, France*

**It's Time for a New Low-dose Radiation Risk Assessment Paradigm—One that Acknowledges Hormesis**  
Bobby R. Scott, *Lovelace Respiratory Research Institute, Albuquerque, NM*

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