

International DOSE-RESPONSE Society

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

2005 Conference Overview

<p>Title and Site for International Hormesis Society's 2005 Annual Conference June 6 – 8, 2005</p>	<p>HORMESIS 2005: IMPLICATIONS FOR TOXICOLOGY, MEDICINE, AND RISK ASSESSMENT University of Massachusetts, Amherst, MA US</p>
<p>Conference Coordinator</p>	<p>Denise Leonard, MSc</p>
<p>Registration Fees</p>	<p>Full Three Days: \$399 Full Three Days for International Hormesis Society Members: \$299 Government and Academic Rate: \$199 Government and Academic Rate for International Hormesis Society Members: \$149 Student Rate: \$99 Student Rate for International Hormesis Society Members: \$74</p>
<p>Award Recipient for "Outstanding New Researcher in the Field of Hormesis"</p>	<p>Instituted in 2007</p>
<p>Award Recipient for "Outstanding Senior Researcher in the Field of Hormesis"</p>	<p>Instituted in 2007</p>
<p>Platform Presentation: Plenary</p>	<p>Moderator: Edward J. Calabrese, University of Massachusetts, Amherst</p> <p>Hormesis in Precautionary Regulatory Culture: Models Preferences and the Advancement of Science Jaap C. Hanekamp, <i>CEO HAN, Zoetermeer, The Netherlands</i></p> <p>Stochastic Thresholds: A Novel Explanation for Nonlinear Dose-Response Bobby Scott, <i>Lovelace Respiratory Research Institute, Albuquerque, NM</i></p> <p>The Risk Communication Challenge of Hormesis David Ropeik, <i>Harvard University, Boston, MA</i></p> <p>The Emergence of Hormesis in Biology, Toxicology, and Medicine Edward Calabrese, <i>University of Massachusetts, Amherst, MA</i></p>
<p>Platform Presentation: Radiation</p>	<p>Moderators: Bobby Scott, <i>Lovelace Respiratory Research Institute, Albuquerque, NM</i>, Pamela Sykes, <i>Flinders University and Medical Centre, Bedford Park, South Australia, Australia</i></p> <p>Transitions in Biology and the Shape of Radiation Dose-Response Relationships Antone Brooks, <i>Lezlie A. Couch, Washington State University TriCities, Richland, WA</i></p> <p>Complex Mutagenesis Dose-Response Relationships after Exposure of pKZ1 Mice to DNA Damaging Agents Pamela Sykes, Tanya K Day, Sarah Swinburne, Gouxin Zeng, Antony M. Hooker, <i>Flinders University and Medical Centre, Bedford Park, South Australia, Australia</i></p>

Mechanisms Underlying Ionizing Radiation-Induced Adaptive and Bystander Responses

Sonia M. de Toledo, Nesrin A. Asaad, Badri N. Pandey, Perumal Venkatachalam, *New Jersey School of Medicine, Newark, NJ*

Douglas R. Spitz, *University of Iowa, Iowa City, IA*

Roger W. Howell, Edouard I. Azzam, *New Jersey School of Medicine, Newark, NJ*

Adaptive Response and Bystander Effects in Human and Non-Human Biota

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

Multicellular Responses to Ionizing Radiation

Mary Helen Barcellos-Hoff, *Lawrence Berkeley National Laboratory, Berkeley, CA*

Radiation Risk Prediction and Genetics: The Influence of the P53 Gene in vivo

Ron Mitchel, Atomic Energy of Canada Limited, Chalk River, ON, Canada

Suppression of Disease Development and Tumorigenesis by Low-Level Radiation

Kazuo Sakai, *Central Research Institute of Electric Power Industry, Tokyo, Japan*

Platform Presentation:
Hormesis in Aging Research and Interventions

Moderator: Suresh Rattan, *University of Aarhus, Denmark*

Hormetic Modulation of Aging and Longevity by Mild Heat Stress

Suresh Rattan, *University of Aarhus, Denmark*

The Hormetic Effects of Hypergravity on Longevity and Aging in the Fruit Fly *Drosophila melanogaster*

Nadege Minois, *Institute of Molecular Biotechnology, Vienna, Austria*

The Unexpected Anabolic Phenotype and Extended Longevity of Skin Fibroblasts after Chronic Glucocorticoid Excess

Harris Pratsinis, *National Centre for Scientific Research "Demokritos", Athens, Greece*, Stylianos Tsagarakis, *ÕEvangelismos Ó Hospital, Athens, Greece*

Irene Zervolea, Dimitri Stathakos, *National Centre for Scientific Research "Demokritos", Athens, Greece*

Nikos Thalassinou, *ÕEvangelismos Ó Hospital, Athens, Greece*

Dimitris Kletsas, *National Centre for Scientific Research "Demokritos", Athens, Greece*

Exercise Activation of Cellular Antioxidant Signaling Pathway

Li Li Ji, *University of Wisconsin, Madison, WI*

Maria-Carmen Gomez-Cabrera, Jose Vina, *University of Valencia, Valencia, Spain*

Hormesis and Regular Exercise in Aging: Possible Beneficial Effects of Oxidative Stress

Sataro Goto, *Toho University, Chiba, Japan*

Zsolt Radak, *Semmelweis University, Hungary*

Hisashi Naito, *Juntendo University, Japan*

Hae Young Chung, *Pusan National University, Korea*

Platform Presentation:
Toxicology

Moderator: James E. Klaunig, *Indiana University of Medicine, Indianapolis, IN*

Effect of Low-Dose Radiation on Male Germ Cell Death

G-W Liu, S-L Gong, *Jilin University, Changch, China*

L Cai, *University of Louisville, Louisville, KY*

Examination of the Hormesis Response in the Microtox Bioassay as Induced by Binary Mixtures of Chemicals

Cecelia L Youngblood-Oswald, *Weston Solutions Inc., Westchester, PA*

Edwin E. Herricks, *University of Illinois at Urbana-Champaign, Urbana, IL*

Hormesis Mechanisms in Hepatocarcinogenesis

James E. Klaunig, *Indiana University of Medicine, Indianapolis, IN*

Hormetic Induction of Antioxidative and Antiapoptotic Proteins for cGMP-Mediated Adaptive Tolerance

C.C. Chiueh, *School of Pharmacy, Taipei Medical University, Taipei, Taiwan*

Tsugunobu Andoh, *Toyama Medical and Pharmaceutical University, Japan*

P. Boon Chock, *National Institute of Heart, Lung, and Blood Institute, Bethesda, MD*

	<p>Multiple Effects of Low Lead Levels in Swiss Mice Ivo Iavicoli, Giovanni Carelli, <i>Catholic University of Sacred Heart, Rome, Italy</i> Edward J. Stanek III, <i>University of Massachusetts, Amherst, MA</i> Nicol. Castellino, <i>Catholic University of Sacred Heart, Rome, Italy</i> Edward J. Calabrese, <i>University of Massachusetts, Amherst, MA</i></p> <p>Is Hormesis in Cellular Repair Mechanisms Induced by Water Disinfectant By-Products Harmful or Beneficial? Ahmed E. Ahmed, <i>University of Texas Medical Branch, Galveston, TX</i></p>
<p>Platform Presentation: Risk Assessment</p>	<p>Moderator: Barbara Beck, <i>Gradient Corporation, Cambridge, MA</i></p> <p>Low-Dose Dose-Response Nonlinearities as Adaptive Inventory Control Risk Management Strategies for Tissues Louis Anthony Cox, Jr., <i>Cox Associates and University of Colorado, Denver, CO</i> Djangir Babayev, <i>Cox Associates, Denver, CO</i></p> <p>The Use of an Evidence-Based Approach for Evaluating the Concept of Hormesis Philip S. Guzelian, <i>University of Colorado, Englewood, CO</i></p> <p>The Collision of Hormesis with Environmental Chemical and Natural Chemical Exposures: Opportunities and Challenges for Integrating</p> <p>Hormesis into an Improved Understanding of Chemical Health Risks James S. Bus, <i>Dow Chemical Company, Midland, MI</i></p> <p>The Hormetic Hypothesis and Its Risks Assessment Implications Michael Dourson, <i>TERA, Cincinnati, OH</i></p> <p>Implications of Homeostasis for Dose-Response at Different Levels of Biological Organization Rory Conolly, <i>CIIT Centers for Health Research, Research Triangle Park, NC</i></p> <p>Risk Assessment Round Table Discussion: <i>Should Hormesis be Considered in Risk Assessment and in Regulatory Decision-Making?</i></p>
<p>Luncheon Speaker: Jonathan B. Wiener, J.D., <i>Professor of Law,</i> <i>Duke University, Durham, NC</i></p>	<p>Hormesis and Regulation</p>
<p>Luncheon Speaker: Ralph Cook, M.D., RRC Consulting, LLC, Midland, MI</p>	<p>Reflection on Hormesis</p>
<p>Poster Sessions</p>	<p>Complex Low-Dose Dose-Response Nonlinearities and Abrupt Transitions: Insights from Cadmium Lung Carcinogenesis Louis Anthony (Tony) Cox, Jr., <i>Cox Associates and University of Colorado, Denver, CO</i></p> <p>Dynamics of Hormesis and of Inverse Hormesis for Cytotoxicity-Mediated Carcinogenesis Louis Anthony (Tony) Cox, Jr., <i>Cox Associates and University of Colorado, Denver, CO</i></p> <p>Ciprofloxacin-Induced Cytotoxicity in Primary Cultures of Rat Astrocytes and Protection by Vitamin E Aylin G.rbay, <i>University of Hacettepe, Ankara, Turkey</i> Brigitte Gonthier, Luc Barret, <i>Universite Joseph Fourier, La Tronche, France</i> Alain Favier, <i>Universite Joseph Fourier, Cedex, France</i> Filiz Hincal, <i>University of Hacettepe, Ankara, Turkey</i></p> <p>Monitoring Stormwater Toxicity: Hormesis in the Microtox Bioassay as an Indicator of Low Dose Effect Edwin E. Herricks, <i>University of Illinois at Urbana-Champaign, Urbana, IL</i></p> <p>Effects of Low-Level Exposures to X-Rays on the Antitumor Functions of Murine NK Cells Ewa M. Nowosielska, Aneta Cheda, Tolanta Wrembel-Waracka.</p>

Tomasz Oldak, Marek K. Janiak, *Military Institute of Hygiene and Epidemiology, Warsaw, Poland*

Effects of Low-Level Exposures to X-Rays on Anti-tumor Functions of Murine Peritoneal Macrophages

Ewa M. Nowosielska, Aneta Cheda, Jolanta Wrembel-Wargocka,
Marek K. Janiak, *Military Institute*

The Health Effects of Different Radiations

Y.C. Luan, M.C. Shieh, S.T. Chen, H. T. Kung, K. L Soong, Y. C. Yeh, T.S. Chou , W.C. Fang, S.L. Yao, C.J Pong, *Nuclear Science & Technology Association, Sincian City, Taiwan, ROC*
S.H. Mong, J.T. Wu, J.M. Wu, H.J. Jen, *Nuclear Biological and Chemical Protection Society, Taipei, Taiwan, ROC*
W. L. Chen, *National Yang -Ming University, Taipei, Taiwan, ROC*
W. P. Deng, *Taipei Medical University, Taipei, Taiwan, ROC*
M. F. Wu, M.L. Shen, *National Taiwan University, Taipei City, Taiwan 10764, ROC*
C.P. Sun, *National Chiao-Tung University, Hsin-Chu City, Taiwan, ROC*

Effects of Diluted Low Molecular Mediators on Activity and Patterns of Fungal Phenol-degrading Enzymes

Elzbieta Malarczyk, Marzanna Pazdziuch-Czochra, Anna Jarosz-Wilkolazka, Janina Kochmanska-Rdest, Aneta Grabarska, Anna Mielniczek, *M.Curie-Sklodowska.University, Lublin, Poland*

Understanding the Hormetic Effect of Azadirachtin in an Insect System, Implications in Pest Management

Samindranath Mukherjee, *Entomology Laboratory, National Chemical Laboratory (CSIR), Pune, Maharashtra, India*

Valid Assessment of LDR Health Effects: Essential for Evaluating Radiological Risks

Theodore Rockwell, *Radiation, Science & Health, Inc., Chevy Chase, MD*

Radon Treatment Controversy

Zygmunt Zdrojewicz, MD, *Akademia Medyczna (Medical School), Wroclaw, Poland*
Jodi Strzelczyk, Ph.D., *University of Colorado at Denver, Denver, CO*

Adaptive Response in pKZ1 Mouse Prostate after Exposure to Very Low Doses of X-Radiation

Tanya K. Day, Gouxin Zeng, Antony M. Hooker, *Flinders University and Medical Centre, Bedford Park, SA, Australia*
Madhava Bhat, *Royal Adelaide Hospital, Adelaide, SA, Australia*
Pamela J. Sykes, *Flinders University and Medical Centre, Bedford Park, SA, Australia*

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