

International DOSE-RESPONSE Society

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

2004 Conference Overview

<p>Title and Site for International Hormesis Society's 2004 Annual Conference June 8 - 10, 2004</p>	<p>NON-LINEAR DOSE-RESPONSE RELATIONSHIPS IN BIOLOGY, TOXICOLOGY, AND MEDICINE 2004 <i>Scientific Foundations for Pharmaceuticals and Environmental Risk Assessment</i> 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 Government and Academic Rate: \$199 Student Rate: \$99</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 Session</p>	<p>Moderator: Paul T. Kostecki, Ph.D., <i>Vice Provost for Research, University of Massachusetts, Amherst, MA</i></p> <p>Temporal Hormesis Associated with Heart Failure and Animal Asthma Model Richard A. Bond, <i>University of Houston, Houston, TX</i> Zsuzsanna Callaerts-Vegh, <i>University of Houston, Houston, TX</i></p> <p>Reflections on Twenty Years in Risk Assessment: Lessons Learned and How They Relate to Incorporating Hormesis into the Paradigm Dennis J. Paustenbach, <i>ChemRisk, Inc.</i>, <i>San Francisco, CA</i></p> <p>Relationship Between Toxicity and Hormesis in Rats Treated with Various Dioxins Karl K. Rozman, Ph.D., <i>University of Kansas Medical Center, Kansas City, KS</i> Margitta Lebofsky, <i>University of Kansas Medical Center, Kansas City, KS</i> David M. Pinson, <i>University of Kansas Medical Center, Kansas City, KS</i></p> <p>Hormesis: Changing the Toxicological Paradigm Edward J. Calabrese, <i>University of Massachusetts, Amherst, MA</i></p>
<p>Platform Presentation: Radiation</p>	<p>Moderator: Ron Mitchel, <i>Atomic Energy Canada Limited, Chalk River, Ontario, Canada</i></p> <p>Low Doses of Radiation are Protective in vitro and in vivo Ron Mitchel, <i>Atomic Energy of Canada Limited, Chalk River, ON, Canada</i></p>

Non-Linear Response for Neoplastic Transformation following Low Doses of Low LET Radiation

J. Leslie Redpath, *University of California Irvine, Irvine, CA*

Low-Dose Radiation-Induced Protective Process and Implications for Risk Assessment, Cancer Prevention, and Cancer Therapy

Bobby R. Scott, *Lovelace Respiratory Research Institute, Albuquerque, NM*

Dale M. Walker, *Lovelace Respiratory Research Institute, Albuquerque, NM*

Update on the Department of Energy Low Dose Radiation Research Program

Noelle Metting, Sc.D., *U.S. Department of Energy, Washington, D.C.*

Biological Effects of Low Dose Radiation

Philippe Duport, *University of Ottawa, Ottawa, Ontario, Canada*

Low Dose Body Irradiation Prevention and Therapy of Cancer

Myron Pollycove, *School of Medicine University of California San Francisco*

Platform Presentation:
Biomedical

Moderator: Mark P. Mattson, *Laboratory of Neurosciences, Baltimore, MD*

Hormesis is a Mechanism Underlying Beneficial Effects of Dietary Restriction in Rodents

Mark P. Mattson, Ruiqian Wan, Zhihong Guo, Wenzhen Duan, *National Institute on Aging Intramural Research Program, Baltimore, MD*

Hormesis in Dose-Response Studies with Fungitoxins and Phytotoxins

Stephen O. Duke, *USDA, ARS, University, MS*, Albrecht Michel, *Syngenta Crop Protection AG, Stein, Switzerland*, Anna Oлива, *State Univ. of New York, Stony Brook, NY*, Regina G. Belz, *Univ. Hohenheim, Stuttgart, Germany*

Low Dose Effects in Psychopharmacology: Ontogenetic Considerations

Linda Patia Spear, *Binghamton University, Binghamton, NY*

Are Low Doses of DNA Damaging Agents Anti-Mutagenic?

Pamela J. Sykes, Sarah J. Swinburne, *Flinders University and Medical Centre, Bedford Park, South Australia*, Madhava Bhat, *Royal Adelaide Hospital, Adelaide, SA, Australia*, John Cormack, Tanya K Day, *Flinders University and Medical Centre, Bedford Park, South Australia*, Renate U Domel, William M. Burch, *Australian Nuclear Science and Technology Organisation, Menai, New South Wales, Australia*, Alexander A. Morley, Antony M. Hooker, *Flinders University and Medical Centre, Bedford Park, South Australia*

Stress Immunology: Differential Dose-Response

Jeffrey A. Woods, Ph.D., *University of Illinois at Urbana-Champaign, Urbana IL*

Platform Presentation:
Toxicology

Moderator: Raymond Yang, *Colorado State University, Fort Collins, CO*

Distinct Gene Expression Profiles in Lung Cells at Toxic vs Non-Toxic Nickel Doses

Robert Y.-S. Cheng, *University of Massachusetts Medical School, Worcester, MA*

W. Gregory Alvord, *Data Management Services, Inc., Ft. Detrick, Frederick,*

Lucy M. Anderson, *National Cancer Institute at Frederick, Ft. Detrick, Frederick MD*

Arsenic as an Endocrine Disruptor: Complex Dose Dependent Effects of Arsenic on Steroid Receptor Signaling

Josh Hamilton, Jack E. Bodwell, *Dartmouth Medical School, Hanover, NH*

Chemically Induced Liver Tumors and the Possibility of Hormesis

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

Chemical Mixtures: Nonlinear Dose-Response Phenomenon, Physiologically Based Pharmacokinetics, and Reaction Network Modeling

Raymond S. H. Yang, *Colorado State University, Foothills Campus, Fort Collins, CO*

The Non-Linear Nature of Lead-Related Changes in Behavior and Neurochemistry

Deborah A. Cory-Slechta, *University of Medicine and Dentistry of New Jersey and Rutgers University, Piscataway, NJ*

Universality of J-Shaped and U-Shaped Dose-Response Relations in Stochastic Transition Systems

Louis Anthonv (Tony) Cox, Jr., *Cox Associates and University of Colorado, Denver, CO*

<p>Platform Presentation: Regulatory/Risk Session</p>	<p>Moderator: Barbara Beck, <i>Gradient Corp., Cambridge, MA</i></p> <p>Implications of the Hormesis Response for Cancer Risk Assessment Jonathan Borak, <i>Yale University, New Haven, CT</i></p> <p>The Search for Non-Linear Exposure-Response Relationships at Ambient Levels in Environmental Epidemiology Morton Lippmann, <i>New York University School of Medicine, Tuxedo, NY</i></p> <p>Public Policy Implications of Hormesis Joseph V. Rodricks, Ph.D., DABT, <i>ENVIRON International Corporation, Arlington, VA</i></p> <p>Some Implications of Nonlinear Dose-Response Relationships for Quantitative Risk Assessment Robert L. Sielken Jr., Ph.D., <i>Sielken & Associates Consulting, Inc., Bryan, TX</i></p> <p>Precautionary Principles, Anticipatory Actions and Hormesis: Society Gains a New Regulatory Paradigm Paolo F. Ricci, Thomas R. MacDonald, <i>University of San Francisco and University of Queensland, San Francisco, CA</i></p>
<p>Luncheon Speaker: Robert Huggett Vice President for Research and Graduate Studies, Michigan State University, East Lansing, MI</p>	<p>Trends in Environmental Research from Canaries to Genomics</p>
<p>Luncheon Speaker: Angela Eggeston North American Editor of Nature</p>	<p>Through the Looking Glass: An Editorial Perspective on Publishing</p>
<p>Conference Scientific Advisory Board</p>	<p>Iris Bell, M.D., Ph.D., <i>The University of Arizona College of Medicine</i> Michael P. Bolger, Ph.D., <i>US FDA</i> Richard Bond, Ph.D., <i>University of Houston</i> Giovanni Carelli, Ph.D., <i>Catholic University of Sacred Heart, Italy</i> Peter M. Chapman, Ph.D., <i>EVS Environmental Consultants, Ltd., Canada</i> David M. Diamond, Ph.D., <i>University of South Florida</i> Ludwig E. Feinendegen, M.D., <i>Heinrich-Heine-University, D.seldorf, Germany</i> Donald E. Gardner, Ph.D., <i>Inhalation Toxicology Association</i> John H. Graham, Ph.D., <i>Berry College, Dept of Biology</i> A. Wallace Hayes, Ph.D., <i>The Gillette Company</i> Wayne Jonas, M.D., <i>USUHS</i> Ralph L. Kodell, Ph.D., <i>NCTR</i> Walter J. Kozumbo, Ph.D., <i>AFOSR/NL</i> Shu-Zheng Liu, M.D., <i>MH Radiobiology Research Unit</i> Werner K. Lutz, Ph.D., <i>University of Wuerzburg, Germany</i> Harihara M. Mehendale, Ph.D., DABT, <i>Northeast Louisiana University</i> James B. Muckerheide, <i>Director, Center for Nuclear Technology and Society at WPI</i> Ricardo Ochoa, Ph.D., <i>Pfizer</i> James T. Oris, Ph.D., <i>Miami University</i> Wim Passchier, Ph.D., <i>Health Council of the Netherlands</i> Suresh I.S. Rattan, Ph.D., D.Sc., <i>University of Aarhus, Denmark</i> George M. Rusch, Ph.D., <i>Honeywell International</i> Kenneth R. Still, Ph.D., MBA, <i>Naval Health Research Center/TD</i> Elmer Szabadi, Ph.D., <i>Queen's Medical Center, Div of Psychiatry, UK</i> Bailus Walker, Jr., Ph.D., M.P.H., <i>Howard University College of Medicine</i> Richard Wilson, Ph.D., <i>Harvard University</i> Raymond Yang, Ph.D., <i>Colorado State University</i> Nasser H. Zawia, Ph.D., <i>University of Rhode Island</i> Ed Zillioux, Ph.D., <i>FPL Environmental Services</i></p>
<p>Poster Sessions</p>	<p>An Overview of the Hormesis Database Robyn B. Blain, Edward J. Calabrese, <i>University of Massachusetts, Environmental Health Sciences, Amherst, MA</i></p>

Low-Dose Radiation and Diabetes

Lu Cai, *Departments of Medicine, Pharmacology & Toxicology, University of Louisville School of Medicine, Louisville, KY and Department of Toxicology, Jilin University School of Preventive Medicine, Jilin PR China*

Non-Linear Effect of Radiation on Erythrocyte Immunity

Guangjun Wang, *Department of Hematology & Oncology, The First Hospital, Jilin University School of Medicine, Jilin, PR China*, Lu Cai, *Departments of Medicine, Pharmacology & Toxicology, University of Louisville School of Medicine, Louisville, KY and Department of Toxicology, Jilin University School of Preventive Medicine, Jilin PR China*

Detecting Causal Nonlinear Exposure-Response Relations in Epidemiological Data

Louis Anthony (Tony) Cox, Jr., *Cox Associates and University of Colorado, Denver, CO*

Low-Dose Nonlinearity of Hematopoietic Dose-Response Relations

Louis Anthony (Tony) Cox, Jr., *Cox Associates and University of Colorado, Denver, CO*

Biphasic Dose-response Relationships in Human Experimental Exposure to Solvents

Ivo Iavicoli, *Catholic University of Sacred Heart, Institute of Occupational Health, Rome, Italy*, Giovanni Carelli, *Catholic University of Sacred Heart, Institute of Occupational Health, Rome, Italy*

Regulation of Glutathione by Oxidative Stress in Bovine Pulmonary Artery Endothelial Cell

Regina M. Day, Ph.D, *Departments of Medicine and Pharmacology, Georgetown University Medical School, Washington DC*, Yuichiro J. Suzuki, Ph.D., *Department of Pharmacology, Georgetown University Medical School, Washington DC*, Barry L. Fanburg, M.D., *Department of Medicine, Tufts-New England Medical Center, Tupper Research Institute, Boston, MA*

Effects of a Chronic Exposure to Lead Acetate on Immune Function in Swiss Mice

Ivo Iavicoli, *Catholic University of Sacred Heart, Institute of Occupational Health, Rome, Italy*, Giovanni Carelli, *Catholic University of Sacred Heart, Institute of Occupational Health, Rome, Italy*

Low Doses of Phenolic Compound Can Be Useful in Quick Recognition their Affinity to Laccase

Elzbieta Malarczyk, Janina Kochmanska-Rdest, Anna Jarosz-Wilkolazka, *Maria Curie-Sklodowska University, Biochemistry Department, Lubin, Poland*

Regulation of Veratrate Demethylation in Rhodococcus erythropolis Cells by Low Doses of Formaldehyde

Elzbieta Malarczyk, Marzanna Pazdziuch-Czochra, Janina Kochmanska-Rdest, *Maria Curie-Sklodowska University, Biochemistry Department, Lubin, Poland*

Thimerosal for the Treatment of Influenza and Herpes Virus Infections

John McMichael, *The Institute for Therapeutic Discovery, Delanson, NY*
Allan D. Lieberman, *Center for Occupational and Environmental Medicine, North Charleston, SC*

Adaptive Immune Responses to Long-Term Low-Level Radiation Exposure: Feasibility Study on Dog Material from Argonne

Viktor Meineke, Kerstin M. Iler, Karin M. Greulich-Bode, Dirk van Beuningen, *Institute of Radiobiology, German Armed Forces, Munich, Germany*, Thomas E. Fritz, *Naperville, Illinois*, Theodor M. Fliedner, *Radiation Medicine Research Group and WHO Collaborating Center for Radiation Accident Management, University of Ulm, Helmholtzstrasse, Germany*, Ludwig E. Feinendegen, *Lindau, Germany*

Cardiorenal Dose Response Relationship of Cadmium

V.N.Puri, S.Saha, *Division of Pharmacology, Central Drug Research Institute, Lucknow, India*

A Comparative Study of Drug Standardization in Hormetic Observations and Homeopathic Provings

Jahangir Satti, Ph.D., *Department of Radiation Physics, St. Joseph's Medical Center, Stockton, CA*

Complementary Nano-Scale Therapeutic Approach through Frequency Based Bio-Synchronization.

Jahangir Satti, Ph.D., *Department of Radiation Physics, St. Joseph's Medical Center, Stockton, CA*

Alcoholic Beverage Hormesis for Cataract and Atherosclerosis is Related to Plasma Oxidative Condition

Claire D. Prickett, Erin Lister, B.Sc., Michelle Collins, Colleen Trevithick-Sutton, B.Sc., Maurice Hirst, Ph.D., Earl Noble, Ph.D., *University of Western Ontario, London, Ontario, Canada*
Joe A. Vinson, Ph.D., *University of Scranton, Scranton, PA*

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