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

2006 Conference Overview

Title and Site for International Hormesis Society's 2006 Annual Conference June 6 – 8, 2006	**HORMESIS 2006:** **IMPLICATIONS FOR TOXICOLOGY, MEDICINE, AND RISK ASSESSMENT** University of Massachusetts, Amherst, MA US
Conference Coordinator	Denise Leonard, MSc
Registration Fees	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**
Award Recipient for "Outstanding New Researcher in the Field of Hormesis"	Instituted in 2007
Award Recipient for "Outstanding Senior Researcher in the Field of Hormesis"	Instituted in 2007
Platform Presentation: **Plenary**	**Moderator:** Paul Kostecki, *University of Massachusetts, Amherst, MA* **Phytochemical Hormesis** Mark P. Mattson, *Laboratory of Neurosciences, National Institute on Aging Intramural Research Program, Baltimore, MD* **Biphasic Dose-efficacy in Antiangiogenic Therapy** Judah Folkman, *Children's Hospital Boston, Boston, MA* **How Does the Concept of Adaptive Response In Radiation Relate to the Concept of Radiation Hormesis?** Ron Mitchel, *Chalk River Laboratories, Chalk River, Ontario, Canada* **Hormesis in Carcinogenesis: Evidence for a Threshold in Carcinogenicity of Non-Genotoxic Environmental Carcinogens** Shoji Fukushima, Osaka City University Medical School, Osaka, Japan
Platform Presentation: **Radiation**	**Moderators:** Bobby Scott, *Lovelace Respiratory Research Institute, Albuquerque, NM* Carmel Mothersill, *McMaster University, Hamilton, Ontario, Canada* **Protective Bystander Effects Following Low Dose Ionizing Radiation Exposure** Carmel Mothersill, M. Kilemade, W. Prestwich, Alicia O'Neill, Zhengfeng Liu, CB Seymour, *McMaster University, Hamilton, Ontario, Canada* **Adaptive Response in pKZ1 Mouse Prostate after Whole Body Exposure to Very Low X-Radiation Doses** Tanya Day, Gouxin Zeng, Antony M. Hooker, *Flinders University and Medical Centre, Bedford Park, Australia* Madhava Bhat, *Adelaide Radiotherapy*

	Centre, Adelaide, Australia David R. Turner, Pamela J. Sykes, *Flinders University and Medical Centre, Bedford Park, Australia* **Radiation-Induced Neoplastic Transformation In Vitro, Hormesis and Risk-Assessment** Leslie Redpath, *University of California Irvine, Irvine, CA* **Low Dose Radiation Exposure and Modulation of High Dose Effects on Embryogenesis and Heritable Mutations** Douglas R. Boreham, *McMaster University, Hamilton, Ontario, Canada* **Prolongation of Life Span of Disease Model Mice by Low Dose Rate Irradiation** Kazuo Sakai, *Central Research Institute of Electric Power Industry, Tokyo, Japan* **Biological System Response to Ionizing Radiation Invalidates the Linear-No-Threshold-Hypothesis** Ludwig F. Feinendegen, *Brookhaven National Laboratory, Upton, NY and Heinrich-Heine-University, Duseseldorf, Germany* Myron Pollycove, *School of Medicine, University of California San Francisco, San Francisco, CA,* Ronald D. Neumann, *National Institutes of Health, Bethesda, MD* **Smoking and Hormesis as Confounding Factors in Radiation Pulmonary Carcinogenesis** Charles L. Sanders, *Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea* Bobby Scott, *Lovelace Respiratory Research Institute, Albuquerque, NM*
Platform Presentation: **Toxicology**	**Moderator:** James E. Klaunig, *Indiana University of Medicine, Indianapolis, IN* **Oxidative Stress: Dose Responses and Application to Hormesis** Lisa Kamendulus, *Indiana University School of Medicine, Indianapolis, IN* **Arsenic Induced Hormesis: Underlying Mechanisms and Timing** Elizabeth T Snow, Troy R Durham, Robert M Kozlovski, Peter Sykora, *Deakin University, Burwood, VIC Australia* **Unraveling the Mechanisms behind Hormesis in Plants** Nina Cedergreen, Jens C. Streibig, *The Royal Veterinary and Agricultural University, Tåstrup, Denmark,* Stephen O. Duke, *USDA, University of Mississippi, University, MS* **Hormesis Model Dominates Threshold Model in Large Scale NCI Anti-tumor Drug Screening Data** Edward J. Calabrese, Edward J. Stanek III, John W. Staudenmayer, *University of Massachusetts, Amherst, MA,* George R. Hoffmann, *Holy Cross College, Worchester, MA* **Nonlinear Dose-Response Mechanisms –Simulation with Bio-Mathematical Models** Helmut Schöllnberger, *University of Salzburg, Salzburg, Austria* Ronald E.J. Mitchel, *Chalk River Laboratories, Chalk River, Ontario, Canada* Douglas J. Crawford-Brown, *UNC, Chapel Hill, NC* W. Hofmann, *University of Salzburg, Salzburg, Austria*
Platform Presentation: **Practical Issues When Using Hormesis in Risk Assessment**	**Moderator:** Mike Dourson, *TERA, Cincinnati, OH* **Risk Assessment and Recognizing Hormesis during Hazard Identification** Beth Doyle, *EPA, Washington D.C.* **Incorporating Mode of Action Understanding of Hormesis into Dose Response Assessment** Lynne T. Haber, Andrew Maier, Michael L. Dourson, *Toxicology Excellence for Risk Assessment (TERA), Cincinnati, OH* **Fluoridation as a Case Study in Hormesis** Chris DeRosa, *ATSDR, Atlanta, GA* **Meta-Hormesis for Uncertain Risks: Arsenic as a Case Study** Louis Anthony (Tony) Cox, Jr., *Cox Associates, Denver, CO* **Detailed Case Study of Hormesis for Radiation** Colin Seymour, *McMaster University, Hamilton, Ontario, Canada*

	U-shape Symmetrical Risk Assessments on Long-Term Deficiency Diseases such as Aging and Cancer Jaap Hanekamp, *HAN, The Netherlands* **Open and Panel Discussion on the Practical Issues of Using Hormesis in Risk- Assessment**
Platform Presentation: **Biomedical**	**Moderator:** John Ives, *Samueli Institute, Alexandria, VA* **Memory Molecules and Hormones** John E. Morley, Susan A. Farr, *Saint Louis University Health Sciences Center, St. Louis, MO* **Biphasic Dose Response of Steroid Hormone Action** Roberta Diaz Brinton, *University of Southern California, Los Angeles, CA* **Role of Hormesis in Life Extension by Caloric Restriction** Edward Masoro *University of Texas Health Science Center, San Antonio, TX* **Hormesis, Control Theory, and Substance Use Disorders** David B. Newlin, *RTI International, Baltimore, MD* **Medical and Therapeutic Radiation Hormesis: Preventing and Curing Cancer** Bobby Scott, Jennifer Di Palma, *Lovelace Respiratory Research Institute, Albuquerque, NM* **Streptolysis O Enhances Keretinocyte Migration and Proliferation and Promotes Skin Organ Cuture Wound Healing** Marjana Tomic-Canic, *Hospital for Special Surgery, New York, NY* Stephen W. Mamber, *Beech Tree Labs, Delanson, NY* Olivera Stojadinovic, *Hospital for Special Surgery, New York, NY* Brian Lee, *Genentech, San Francisco, CA* Nadezda Radoja, *NIAMS, Bethesda MD* John McMichael, *Beech Tree Labs, Delanson, NY*
Luncheon Speaker: **J. Samuel Walker, Ph.D.,** *Historian, US Nuclear Regulatory Commission, Washington DC*	Three Mile Island: A Case for Why We Need Good History
Luncheon Speaker: **Richard J. Pech** *Director of Research at the Graduate School of Management, La Trobe University, Melbourne, Australia*	**Stress Response Mechanisms: From Single Cells to Multinational Organizations**
Dinner Panel Discussion Participating Journalists: **Trevor Knoblich**, *Associate Editor, Risk* Policy Report, *Inside EPA News* **Rebecca Renner**, *Freelance* **David Stipp**, *Fortune*	**The Media and Hormesis** Several Journalists who have published articles on hormesis in leading national publications discussed strategies, goals, and challenges when writing about controversial topics such as hormesis.
Poster Sessions **(Partial List)**	**Contrasting Effects of LDR in Normal and Tumor Tissues** Lu Cai, *University of Louisville School of Medicine, Louisville, KY* **Empirical Models for Hormesis** Nina Cedergreen, *The Royal Veterinary and Agricultural University, Taastrup, Denmark* Christian Ritz, *The Royal Veterinary and Agricultural University, Frederiksberg, Denmark* Jens Carl Streibig, *The Royal Veterinary and Agricultural University, Taastrup, Denmark* **Identifying Non-linear Radiation Dose Responses In Vivo: Exploring Bystander Effects** Benjamin J. Blyth, Tanya K. Day, Pamela J. Sykes, *Flinders University and Medical Centre, Bedford Park, South Australia* **Expected Lives Saved due to Medical, Therapeutic, Environmental and other Forms of Radiation Hormesis**

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

Effects of Low Doses of Dietary Lead on Red Blood Cell Production in Three Successive Generations of Swiss Mice
Ivo Iavicoli, Giovanni Carelli, *Catholic University of Sacred Heart, Rome, Italy*

Hormesis as a Confounding Factor in Epidemiological Studies of Radiation Carcinogenesis
Charles L. Sanders, *Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea*

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