

# CONFERENCE ANNOUNCEMENT

## PRECONDITIONING IN BIOLOGY AND MEDICINE

Mechanisms and Translational Research

April 21 & 22, 2015

University of Massachusetts Amherst

Low levels/doses of numerous stressors (e.g., exercise, intermittent fasting, hypoxia, heat, cold, radiation, electricity, toxins, chemicals/drugs) are known to stimulate a wide range of preconditioning/adaptive responses that may profoundly affect the success of medical interventions for a vast spectrum of disorders. Stressors that trigger adaptive responses also offer ways to enhance healthy aging, improve human performance, and prevent damage in tissues exposed afterward to injurious levels of stressors, including severe psychological stress. Leading researchers will present numerous examples of the adaptive response and show how understanding molecular mechanisms(s), optimizing dosimetry and selecting the appropriate stressors will be important in enabling scientific and technological advances that can translate into future benefits for society.

### AREAS OF INTEREST

#### Pre- Post-Conditioning

Alzheimer's Disease/Dementia  
Parkinson's Disease  
Depression and PTSD  
Concussions/Traumatic Brain Injury  
Improving Surgical Outcomes  
Stroke/Cardiovascular Disease  
Diabetes  
Glaucoma  
Stem Cell Transplantation Therapy  
Surgical Stress  
Chemo and Radiation Therapy

#### Healthy Lifestyles, Aging and Life Extension

Intermittent Fasting  
Exercise  
Chemical/Nutritional Supplements  
Low Dose Radiation and Longevity  
Adaptive response-based cosmetics

#### Enhancing Human Performance

Cognition  
Endurance, Strength and Speed  
Fatigue/Jet Lag: Prolong Onset/Speed Up Recovery  
Wound Healing Acceleration - skin, tendon, muscle, bone, and vascular

#### CALL FOR ABSTRACTS

Please see [www.dose-response.org](http://www.dose-response.org) for abstract submission guidelines. Email abstract to: [dleonard@schoolph.umass.edu](mailto:dleonard@schoolph.umass.edu) by January 30, 2015.

Enhancing Healthy Living and Performance

International Dose-Response Society  
[www.Dose-Response.org](http://www.Dose-Response.org)

For further Information Contact:

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