

December 21, Monday

Session VIII:

9.00-11.00: Redox Regulation of Miscellaneous Health Problems- I.

Rancid Smell of Death: Oxidative Lipidomics of Apoptosis.

Valerian E. Kagan, Ph.D., D.Sc., Department of Environmental and Occupational Health, University of Pittsburgh, Philadelphia, USA.

Understanding the Pathophysiology of Stroke: What is New?

Prakash Babu, Ph.D., Department of Biotechnology, School of Life Sciences, University of Hyderabad, Hyderabad, India.

Radiation-induced Heart Disease: Redox Active Countermeasures.

John E. Baker, Ph.D., Medical College of Wisconsin, Milwaukee, Wisconsin, USA.

Oxidative Stress and Regulation of Protein Synthesis and Cell Cycle in Human K562 Cells.

Jayant K Pal, Ph.D., Department of Biotechnology, University of Pune, Pune, India.

11.00-11.30: Tea break

Session IX:

11.30-13.00: Redox Regulation of Miscellaneous Health Problems- II.

Application of Nanotechnology in Medicine; the Health and Safety Challenges.

Amit Dinda, M.D., Ph.D., Department of Pathology, All India Institute of Medical Sciences, New Delhi, India.

The Dynamics of HABP1 Induced Mitochondrial Signaling and ROS Generation.

Ilora Ghosh, Ph.D., School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.

Therapeutic Potential of Pharmacological Interventions Targeting Oxidative Stress-PARP Pathway in Stroke.

Shyam S. Sharma, M. Pharm., Ph.D., Department of Pharmacology and Toxicology, National Institute of Pharmaceutical Education and Research, Mohali, Punjab, India.

13:00- Adjourn & Lunch

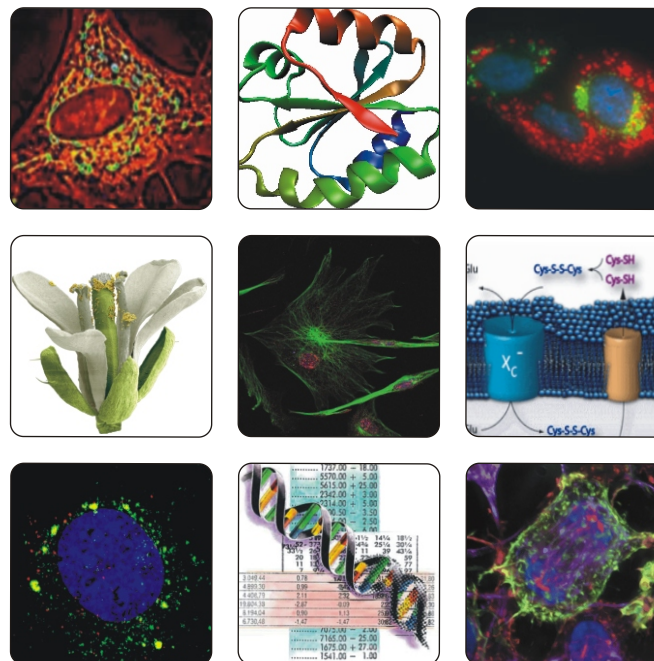
Indo-US Bilateral Workshop

Redox Signaling in Degenerative Diseases

19-21 December, 2009
Heritage Village, Manesar, Gurgaon

Organized by

Shyamal K. Goswami, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India and **Dipak K. Das**, University of Connecticut, School of Medicine, Farmington, USA



Sponsored by Indo-US Science and Technology Forum (IUSSTF) New Delhi



Jawaharlal Nehru University



Indo-US Science and Technology Forum



University of Connecticut

9.30:

Inauguration

Dr. V. M. Katoch, M.D.; Secretary, Department of Health Research and Director General, Indian Council of Medical Research; Ansari Nagar, New Delhi, India.

Session I:10.30-11.30: **Redox Signaling in Heart Failure.****Adrenergic Stimulation and Myocyte Loss, is there any Oxidative Stress?**

Shyamal K Goswami, Ph.D., School of Life Sciences, Jawaharlal Nehru University, New Delhi, India.

The Role of Nox in Aging and Heart Failure.

Junichi Sadoshima, M.D., Ph.D., University of Medicine & Dentistry of New Jersey, Newark, New Jersey, USA.

Session II:11.30-12.30: **Redox Regulation of Stem Cell Signaling.****Kinases that alter stem cell activity in the heart.**

Mark Sussman, Ph.D., University of San Diego, California, USA.

Redox Regulation of Cardiac Stem Cell Signaling.

Dipak K. Das, Ph.D., Sc.D., FAHA, University of Connecticut, School of Medicine, Farmington, Connecticut, USA.

12.30-14.00: **Lunch Break****Session III:**14.00-15.00: **Redox Regulation of Angiogenesis.****Impaired VEGF Signaling in the Infarcted Myocardium: Role of ROS.**

Nilanjana Maulik, Ph.D., University of Connecticut, School of Medicine, Farmington, Connecticut, USA.

The Nitric Oxide-sGC-cGMP Pathway Rolls Out Angiogenesis Templates in the Endothelium.

Suvro Chatterjee, Ph.D., Life Science Division, AU-KBC Research Centre, Anna University, Chennai, India.

Session IV:15.00-16.00: **Redox Signaling of Degenerative Diseases.****Modulation of the Transcription Elongation Machinery Significantly Influences Mitochondrial Activity During Myocardial Ischemia.**

Eduardo Mascareno, Ph.D., Department of Anatomy & Cell Biology, SUNY Health Science Centre at Brooklyn, New York, USA.

Cardiac Fibroblasts May Exacerbate ROS-Induced Injury to Cardiac Myocytes During I/R.

Shivakumar K, Ph.D., Division of Cellular & Molecular Cardiology, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala, India.

16:00-16.30: **Tea Break**16.30-17.30: **Pancreatic Islets with Poor Antioxidant Defense are Highly Sensitive to Oxidative Damage.**

Saroj Ghaskadbi, Ph.D., Department of Zoology, University of Pune, India.

Drug Discovery Targeting the Redox Achilles Heel of Cancer.

Georg Thomas Wondrak, Ph.D., Department of Pharmacology & Toxicology, College of Pharmacy & Arizona Cancer Center, University of Arizona, Tucson, Arizona, USA.

19.30-

Welcome Reception & Dinner**Session V:**9.00-10.30: **Redox Regulation of Other Diseases.****A Metabolic and Redox Perspective on Alzheimer's Disease: Effects of Lipoic Acid.**

Enrique Cadenas, M.D., Ph.D., School of Pharmacy, University of Southern California, Los Angeles, California, USA.

microRNAs in Tissue Repair and Remodeling.

Chandan K. Sen, Ph.D., College of Medicine, The Ohio State University Medical Center, Columbus, Ohio, USA.

Redox regulation of iron homeostasis gene: Implication in tissue iron overload.

Chinmay K. Mukhopadhyay, Ph.D., Special Center for Molecular Medicine, Jawaharlal Nehru University, New Delhi, India.

10.30-11.00: **Tea Break****Session VI:**11.00-12.30: **Redox Regulation of Immune Response.****Modulation of the Macrophage Signaling by a *Mycobacterium tuberculosis* Secretory Protein (Mtsa-10) Via Redox Regulation of Phosphatases.**

Pawan Sharma, Ph.D., International Center for Genetic Engineering and Biotechnology, New Delhi, India.

Redox Regulation of Cytokine Signaling Pathways to Allergic Inflammation.

Saikh Jaharul Haque, Ph.D., Department of Cancer Biology, Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio, USA.

Ascorbate Peroxidase from *Leishmania major* Controls Differentiation of Promastigotes by Regulating Oxidative Stress.

Subrata Adak, Ph.D.
Indian Institute of Chemical Biology, Kolkata, India.

12.30-14.00: **Lunch Break****Session VII:**14.00-15.30: **Antioxidants, Free Radicals & Redox.****Falvonoids: Membrane Interactions and Redox Signaling.**

Cesar Fraga, Ph.D.
University of California at Davis, Davis, California, USA.

Regulation on Autophagic Vacuole Formation in Cell Lines with Ectopic Overexpression of Hyaluronan Binding Protein 1 (Habbp1).

Kasturi Datta, Ph.D., School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.

Role of Cellular Redox in Modulation of Radiation Response in Normal and Cancer Cells by Natural compounds.

T.P.A. Devasagayam, Ph.D., Radiation Biology & Health Sciences Division, Bhabha Atomic Research Centre, Mumbai, India.

15.30-16.00: **Tea Break**16.00-17.00: **Antioxidant and Cardioprotection.**

Subir Maulik, M.D., Ph.D., Department of Pharmacology, All India Institute of Medical Sciences New Delhi, India.

Herbal Remedies as Modulators of Redox Biology in Diabetic Conditions.

Hannah Rachel Vasanthi, Ph.D., Sri Ramachandra Medical College & Research Institute, Chennai, India.

19.30-

Dinner