

International Conference & Humboldt Kolleg

Frontiers of Environmental & Health Sciences Useful to Mankind : A Multidisciplinary Approach



24-27 February, 2010

Organised by
University of Lucknow & Humboldt Academy Lucknow
INDIA

Unterstützt von / Supported by



Alexander von Humboldt
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Wednesday : February 24, 2010

14:00 – 15:00

Registration

Joint Info-session by DAAD, DFG, AvH, MPG, Heidelberg Centre

15:00 – 16:15

Brief presentations by:

1. **Thomas Hesse**, Director 'Selection Department', Alexander von Humboldt Foundation (AvH), Germany
2. **Felix Kahle**, Representative of Max Plank Society (MPG) & Science Counsellor, Germany Embassy, New Delhi
3. **Torsten Fischer**, Director, German Research Foundation Office (DFG), New Delhi
4. **Anuroopa Dixit**, Representative of German Academic Exchange Service (DAAD), New Delhi

16:15 – 17:00

Question & Answers

17:00 – 17:30

Tea Break

Inaugural Function

18:30 – 20:00

Chief Guest: **Thomas Hesse**, AvH Foundation, Bonn, Germany
 Presided by: **Manoj K Mishra**, Vice-Chancellor, University of Lucknow
 Welcome Address: **Jagdish N Sinha**, President, Humboldt Academy Lucknow
 Keynote Speaker: **Padma K Shukla**, Ruhr University Bochum, Germany
"Exploring New Horizons of Environmental and Health Sciences and Advancing Them Through Modern Human Approaches"
 Theme Lecture: **Jai P Mittal**, Humboldt Awardee
"Antioxidants" – Hype or Reality – Efforts towards the Bioquantisation of antioxidants

20:00 – 22:00

INAUGURAL DINNER : SCIENTIFIC CONVENTION CENTRE

Thursday : February 25, 2010

Session I

Chair: Prasanta K Mukherjee & Anil K Saxena

IL1 09:00 – 09:25	Wolfgang Kiefer Raman Spectroscopy in Health and Environmental Sciences
IL2 09:25 – 09:45	Tej P Singh Protein Structures and Structure-Based Drug-Design: Current Directions and Successes
IL3 09:45 – 10:05	Ashok Sahni Environments, Past and Present: Is What Good for Man, Also Good for the Planet?
IL4 10:05 – 10:25	Phool C Mishra DNA Damage, Its Repair And Prevention: Quantum Chemical Study
IL5 10:25– 10:45	Sudhir K Sopory Salinity Stress Tolerance: Role of Glyoxalase Pathway
10:45 – 11:00	Tea Break

Session II

Chair: Prafullachandra V Sane & Dharendra K Pandey

IL6 11:00 – 11:25	Olaf Pongs Ion Channels in Cardiac Disease
IL7 11:25 – 11:50	Klaus Gerwert Proton Transfer via Protein Bound Water
IL8 11:50 – 12:15	Peter Westhoff C4 Photosynthesis – An Evolutionary Perspective
IL9 12:15– 12:40	Hans-J Knölker Design and Synthesis of Membrane-Anchored β -Secretase Inhibitors as Potential Drugs for the Treatment of Alzheimer's Disease
IL10 12:40– 13:00	Alok K Sinha Miotgen Activated Protein Kinase in Rice: A Point of Signal Integration
13:00 –14:00	Lunch
14:00 –16:00	Poster Session + Tea

Session III

Chair: Ashok R Bhattacharya & Amita Chandra

IL11 16:00 – 16:25	Uli Kazmaier Stereoselective Peptide Modifications as Versatile Tools in Peptide and Natural Product Synthesis
IL12 16:25 – 16:50	Daniel Bougeard Modeling the Raman Spectra of the Peptide Bridge
IL13 16:50 – 17:15	Belen Hernandez Vibrational Analysis of Amino Acids and Short Peptides. Focus on Leucine-Lysine Rich Peptides
IL14 17:15 – 17:35	Rameshwar Sharma A Mammalian IKK/NF- κ B-like Signaling Pathway Regulates Nitric Oxide level in Plants
IL15 17:35 – 17:55	Praveen Kumar Evolving Soil Use Policy to Check Leakages in Nutrient Cycles
IL16 17:55 – 18:15	Alok Srivastava Study of Health Issues using Radioanalytical Techniques
19:00 – 20:00	CULTURAL PROGRAMME (KATHAK DANCE BY DR. KUMKUM DHAR & TROUPE) Chief Guest: Mrs. Mishra & Prof. Manoj K Mishra
20:00 – 22:00	BANQUET DINNER : SCIENTIFIC CONVENTION CENTRE

Friday: February 26, 2010

Session IV

Chair: Nakshtra B Singh & Birendra P Asthana

IL17 09:00 – 09:25	Arnulf Materny Nonlinear Optical Spectroscopy – A Competition between Different Processes
IL18 09:25 – 09:45	Jagat B Phogat Effect of Stress on Female Reproduction
IL19 09:45 – 10:05	Chandana Haldar Melatonin Physiology and Immunity
IL20 10:05 – 10:25	Anindya Datta Photoluminescent Silica Nanostructures: Potential Vehicles for Drug Delivery
IL21 10:25 – 10:45	Satya P S Kushwaha Remote Sensing and Gis in Forestry and Ecology
10:45 – 11:00	Tea Break

Session V
Chair: Ram Sagar & Mahdi Hasan

IL22 11:00 – 11:25	Padma K Shukla Dusty Plasmas: Possible Applications to Environment and Energy
IL23 11:25 – 11:50	Thomas Hohlfeld Drug Side Effects and Interactions on the Hemostatic System
IL24 11:50 – 12:15	Herbert M Heise Infrared Photonics for Replacing Electrochemical Bio-Sensors in Clinical Chemistry – From Laboratory to Continuous Patient Monitoring
IL25 12:15 – 12:40	Ursula Ravens Atrial Fibrillation: Mechanisms and Potential Drug Targets
IL26 12:40 – 13:00	Agepati S Raghavendra Signal Transduction in Stomatal Guard Cells of Arabidopsis and Pea
13:00 – 14:00	Lunch

Session VI
Chair: Vijay K Jindal & Shafiq Rehman

IL27 14:00 – 14:25	Johann Gasteiger Chemoinformatics in Drug Design and Chemical Risk Assessment
IL28 14:25 – 14:50	Maria C Gamberini Raman Spectroscopy as a Rapid Tool for Organic and Inorganic Discrimination in Several Kind of Matrices
IL29 14:50 – 15:15	Bernhard Blumich Big Times for Small NMR
IL30 15:15– 15:40	Helmut Tritthart Cancer Cell Motility and Invasiveness can be Evaluated by a New Biophysical Method
IL31 15:40– 16:00	Manabendra Sarma Selective Bond Cleavage in Unimolecular Reactions: A Detailed Investigation
16:05 – 16:20	Tea Break

Session VII
Chair: Omkar N Tripathi & Raj R Bhargava

IL32 16:20 – 16:45	Mahmoud Ghomi Optical Spectroscopy as a Tool for Probing the Structure-Activity Relationships in Natural and Synthetic Peptides with Therapeutic Interest
IL33 16:45 – 17:10	Guenther Hauska Sensory Photoreceptors an Natural and Artificial Systems
IL34 17:10 – 17:35	Shiv Umopathy Spectroscopy Applications in Biology and Medicine
IL35 17:35– 18:00	Oliver Reiser Exo-Methylene- γ -Butyrolactone Natural Products: Can they be Made into Drugs?

IL36 17:35– 18:00	Jürgen Hescheler Embryonic and Induced Pluripotent Stem Cells for Research and Later Clinical Application
20:00 – 22:00	VICE CHANCELLOR'S DINNER : HOTEL CLARK AWADH
Saturday: February 27, 2010	
Session VIII <i>Chair: Prakash C Srivastava & Amitabh Krishna</i>	
IL37 09:00 – 09:25	Wolfgang Pfeleiderer Photolithographic Synthesis of Oligonucleotides on a Chip
IL38 09:25 – 09:50	Konstantin S Smirnov Biodisponibility of Metals in Clays
IL39 09:50 – 10:15	Udo Johanningmeier The D1 Subunit of Photosystem II: A Remarkable Protein and its Potential role in Biotechnology
IL40 10:15 – 10:35	Satish K Adiga Influence of Paternal DNA Damage on the Reproductive Outcome
10:35 – 10:50	Tea Break
Session IX <i>Chair: Jawahir L Kaw & Ramesh C Srivastava</i>	
IL41 10:50 – 11:10	Pulugurtha B Kirti Annexins and Abiotic Stress Tolerance in Plants
IL42 11:10 – 11:30	Qamar Rahman Effect of Nanoparticles on Environment and Health
IL43 11:30 – 11:50	Shyam B Rai Er ³⁺ , Yb ³⁺ Co-Doped Gd ₂ O ₃ Nano-Crystalline Phosphor: An Interesting Multifunctional Material
Session X <i>Chair: Surendra Kumar & Vidya B Pandey</i>	
11:50– 12:35	15 min Presentations by Best three Junior Researchers
12:35 – 13:00	Valedictory function Chief Guest: Manoj K Mishra , Vice-Chancellor, University of Lucknow Presided by: Jagdish N Sinha , President, Humboldt Academy Lucknow
13:00 – 14:00	Lunch
14:00 – 17:00	CITY TOUR