

14th ISCB INTERNATIONAL CONFERENCE (1SCBC-2010)

CHEMICAL BIOLOGY FOR DISCOVERY; PERSPECTIVES AND CHALLENGES

January 15 – 18, 2010

SCIENTIFIC PROGRAM

Friday, January 15-01-2010

9.30 AM -2.30 PM	Registration	
2.30 PM-3.20 PM	Inaugural Session	
	Welcome Address:	Dr. Tushar Kanti Chakraborty, Director, CDRI
	Introduction to ISCB:	Dr. P.M.S. Chauhan, Secretary, ISCB.
	Presidential Address:	Prof. D.P. Singh, Vice chancellor , BHU, Varanasi
	Address by Chief guest	Prof. David St. C. Black, Secretary General ,IUPAC University of New South Wales , Sydney, Australia
	Vote of Thanks:	Dr. P.M.S. Chauhan, Secretary, ISCB
3.20 PM-4.00 PM	High-Tea	

Session – I

Chairpersons: Prof. Vadim T. Ivanov and Prof. Cynthia J. Burrows

PL-1 4.00 PM-4.40 PM	Colin J. Suckling , University of Strathclyde, Glasgow, Scotland, UK Heterocyclic chemistry at the edge of biology and medicine
PL-2 4.40 PM-5.40 PM	Michael D. Threadgill , University of Bath, Claverton UK Nad ⁺ -Requiring Enzymes As Targets For Medicinal Chemistry
5.40 PM-6.30 PM	ISCB Award Lectures-1 & 2

6.30 PM – 7.30 PM

7.30 PM – 8.30 PM

8.30 PM

Poster Session -1 (Poster Numbers 1-80)

Cultural Programme

Dinner

Saturday, January 16-01-2010

SESSION – II: Chairpersons: Prof. Colin J. Suckling and Prof Michael D. Threadgill

PL-3, 9.00 AM-9.40 AM	V.T. Ivanov , Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow, Russia Challenges and practical perspectives of peptidomic research
PL-4 9.40 AM-10.20 AM	Tsann-Long Su , Institute of Biomedical Sciences, Academia Sinica, Taipei ,Taiwan. Oncologic Drug Development: From Target Identification to Bedside
IL-1, 10.20 AM -10.50 AM	Cynthia J. Burrows , University of Utah, , USA Lessons from DNA Damage Applied to siRNA
IL -2, 10.50 AM-11.20 AM	Aloysius Siriwardena , Université de Picardie Jules Verne, Amiens, France Synthetic tools that modulate the action glycan metabolising enzymes: the simpler the better ?

Tea: 11.20 AM-11.40 AM

Parallel Session-III (HALL A)

Chairpersons: Prof. Jyoti Chattopadhyaya and Dr. Mukund Chorghade

IL-3 11.40 AM-12.10 PM	Asit K. Chakraborti , National Institute of Pharmaceutical Education and Research (NIPER), S. A. S. Nagar, Punjab – 160062, India Sustainable Development: An Exploration to the Wonderland of Ionic Liquids
IL-4 12.10 PM-12.40 PM	Leena Otsomaa , Orion Corporation, Orion Pharma, Finland Challenges of Medicinal Chemists
IL-5 12.50 PM -1.20 PM	Sreeni Devidas , GVK BioSciences Pvt.Ltd., Hyderabad, India. Drug Discovery: Is reliance increasing on India and are we prepared for the challenges?

Parallel Session-IV (HALL B)

Chairpersons: Prof. Graham B. Jones and Dr. Sham Nikam

IL-6 11.40 AM-12.10 PM	Andrea Vasella , ETH Zurich, Zurich, Switzerland A New Type of Oligonucleotide Analogues
IL-7 12.10 PM-12.40 PM	Prof.V.S.Parmar , Delhi University ,Delhi Biocatalytic Synthesis of Pharmaceutically Important Nanomaterials
IL-8 12.40 PM -1.10 PM	S. M. S. Chauhan , Delhi University , Delhi Supramolecular Capsules from Functional Porphyrins and Related Macrocycles

Lunch 1.20 PM - 2.20 PM

Parallel Session-V (HALL A)

Chairpersons: Dr. K.C. Gupta and Dr. Sudhir K. Singh

IL-9 2.20 PM-2.50 PM	Graham B. Jones , Department of Chemistry & Chemical Biology, Northeastern University, Boston, MA Natural Product Inspired Probes of DNA and RNA Microenvironments
IL-10 2.50 PM-3.20 PM	Sham Nikam – Nycomed, Germany Optimization of chemical leads in multi-target strategies
IL-11 3.20 PM-3.50 PM	David Haydon , Prolysis Ltd. UK Discovery and Development of Novel Antibacterials: Antibacterial inhibitors of the essential cell division protein FtsZ

IL-12 3.50 PM -4.10 PM	Barbara Zajc , The City College and The City University of New York MODULAR ASSEMBLY OF FLUOROORGANICS USING JULIA OLEFINATION
IL-13 4.10 PM -4.30 PM	Anil Kumar , BITS, PILANI, Raj. Design and Synthesis of Src Tyrosine Kinase Inhibitors as Therapeutic Agents

Tea 4.30 PM -4.50 PM

Parallel Session-VI (HALL A)

Chairpersons: Prof. Barbara Zajc and Prof Mahesh K. Lakshman

O-1 4.50 PM-5.00 PM	Palwinder Singh , Department of Chemistry, Guru Nanak Dev University, Amritsar Studies of interactions of acridone derivatives with P-gp, ATP and Mg ²⁺ - Search for MDR modulators led to the identification of an anti-candidiasis agent
O-2 5.00 PM-5.10 PM	Mona Semalty , H.N.B. Garhwal University, Srinagar (Garhwal) Development of formulations of root extract of <i>Urtica dioica</i> for hair growth promotion and identification of responsible bioactive constituents
O-3 5.10 PM-5.20 PM	Akhilesh Kumar Verma , University of Delhi, Delhi Copper-Catalyzed Regioselective Tandem Synthesis of Indolo, Pyrrolo [2,1- <i>a</i>]isoquinolines and Indolo[2,1- <i>f</i>][1,6]Naphthyridines by the Preferential Addition of <i>N</i> -Heterocycles on <i>ortho</i> -haloalkynes followed by Intramolecular C-2 Arylation
O-4 5.20 PM-5.30 PM	M. Bansal , Institute of Medical Sciences, Banaras Hindu University, Varanasi An assessment of safflower (<i>Carthamus tinctorius</i>) seed extract in the treatment of periodontal osseous defects in humans: A pilot study
O-5 5.30P M-5.40 PM	Vaibhav P. Mehta , Katholieke Universiteit Leuven, Heverlee, Leuven, BELGIUM. Transition metal-catalyzed desulfitative c-c bond forming reactions of 2-(1 <i>h</i>)-pyrazinones
O-6 5.40 PM-5.50 PM	Neeloo Singh , Central Drug Research Institute, Lucknow Target-to-Drug Discovery for Novel Leishmaniacidals
O-7 5.50 PM-6.00 PM	Pannuru Venkatesu , Department of Chemistry, University of Delhi, Delhi, India Effects of Osmolytes or Denaturants on α -Chymotrypsin Activity and the Folding/Unfolding Transition States

Parallel Session- VII (HALL B)

Chairpersons: Prof. Manas Chakrabarty and Dr. Keshav Deo

IL-14 2.20 PM -2.50 PM	J. Senn-Bilfinger , Nycomed GmbH & University Suttgart, Germany Analogue – based Design of Gastric Acid Anti-secretory Agents. Past and Present
IL-15 2.50 PM-3.20 PM	Veena Agarwal – Nicholas Piramal, Mumbai Innovative Approaches for Discovery and Development of Therapeutics in Oncology and Metabolic Disorders
IL-16 3.20 PM-3.50 PM	Ashvani Singh – Vertex San Diego, USA Cystic Fibrosis Drug Discovery
IL-17 3.50 PM - 4.10 PM	M. S. Shingare , Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India Quinoline based various antimicrobials
IL-18 4.10 PM – 4.30 PM	Dalip Kumar Chemistry Group, Birla Institute of Technology and Science, Pilani India Design and Synthesis of Novel Bioactive Heterocycles as Potential Anticancer Agents

Tea 4.30 PM -4.50 PM

Parallel Session-VIII (HALL B)Chairpersons: **Dr. S. B. Katti and Dr. Leena Otsomaa**

IL-19 4.50 PM – 5.10 PM	Abhijit Roychowdhury , Piramal Life Sciences, Mumbai , India Small molecule mTOR inhibitors as anti-cancer agents: Is selectivity an issue?
O-8 5.10 PM – 5.20 PM	Ram Sagar , University of Oxford, Oxford UK. Synthesis and <i>in-planta</i> activity of caged/phosphotriester precursors of trehalose-6-phosphate (T6P)
O-9 5.20 PM-5.30 PM	Islam Khan , Kuwait University, Kuwait Curcumin ameliorates experimental colitis: Singnal transduction through TLR-4 Receptor and Myd88
O-10 5.30 PM - 5.40 PM	Bandana Bose , Banaras Hindu University, Varanasi-221005, India. Mg(NO ₃) ₂ primed seeds: A better tool for somatic embryogenesis in rice (variety-Swarna) –A first report.
O-11 5.40 PM - 5.50 PM	Anjali M. Rahatgaonkar , Institute of Science, Civil Lines, Nagpur 440001, India Facile polymer supported syntheses of n-pegylated quinoline scaffolds: A convenient drug delivery technique
O-12 5.50 PM – 6.00 PM	Okram M. Singh , Department of Chemistry, Manipur University, Canchipur, Imphal Facile synthesis of novel coumarins under solvent-free conditions and their antioxidant evaluation
O-13 6.00 PM-6.10 PM	Meenu Aggarwal , <i>Lingaya's University, Nachauli , Faridabad</i> Biological and Toxicological Studies of new derivatives synthesised from the sesquiterpene lactones isolated from medicinal plants

6.00 PM – 7.30 PM**Poster Session -II****(Poster Numbers 81-160)****7.30 PM – 8.30 PM****Cultural Programme****8.30 PM****Dinner****Sunday, January 17-01-2010****SESSION – IX**Chairpersons: **Prof. Graham B. Jones and Prof. David Haydon**

PL-5 9.30 AM – 10.10 AM	S. Chandrasekaran , Indian Institute of Science, Bangalore-560012, India Studies on the Synthesis of Thiosugars as Glycosidase Inhibitors
PL-6 10.10 AM – 10.50 AM	Jyoti Chattopadhyaya , Uppsala University, Uppsala, Sweden The Importance of Being Nucleic Acids – Some Structural and Reactivity Considerations

Tea : 10.50 AM - 11.10 AM**Parallel Session X (Hall A)**Chairpersons: **Prof. S.Chandrasekaran and Prof. Dr. Andrea Vasella**

IL-20 11.10 AM - 11.40 AM	David St. C. Black , University of New South Wales, Sydney, Australia The Role of Molecular Activation, in the Generation of New Indole Reactivity
IL-21 11.40 AM – 12.10 PM	Nancy B. Jackson , Sandia National Laboratories,Albuquerque,NM The Role of Safety and Security in Chemical Sustainability
IL-22 12.10 PM - 12.40 PM	John C. Amedio Jr , ZIOPHARM Oncology, , U.S.A. Palifosfamide (ZYMAFOS™):A Novel Molecule for the Treatment of Soft Tissue Sarcoma
IL-23 12.40 PM – 1.10 PM	Greg Bisacchi , Infection Chemistry, Astra Zeneca Research, Bostan, USA The Exploitation of Diverse Lead Generation Paradigms to Identify Novel Antibacterial Agents
IL-24 1.10 PM – 1.30 PM	Mohan Prasad , Ranbaxy Research Laboratories, Gurgaon Process Development & Scale up From a Generics Perspective

Parallel Session XI Chairpersons Prof. S.P. Singh and Prof. V.K.Tandon

IL-25 11.10 AM - 11.40 AM	Mukund S. Chorghade , THINQ Pharma, USA Value Creation and New Opportunities in Medicinal Chemistry, Drug Discovery, Process Development and Project Management of Technology Transfer
IL-26 11.40 AM – 12.10 PM	Dr. Michael N. Liebman , Strategic Medicine, Inc. PA 19348, USA
IL-27 12.10 PM - 12.30 PM	R. A. Mane , Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Organic Transformations leading to bioactive molecules accelerated by biocatalysts
IL-28 12.30 PM - 12.50 PM	Ashok K. Prasad , University of Delhi, Delhi Nucleosides and Nucleic Acids: Present and Future Drugs
IL-29 12.50 PM - 1.10 PM	Sanjay Kumar , Piramal Life Sciences, Mumbai, India Discovery of novel inhibitors targeting HIF-1 α towards anticancer drug development

Lunch 1.20 PM – 2.00 PM**Parallel Session –XII (Hall A) Chairpersons: Prof. Nancy B. Jackson and Dr. Rakesh Tuli**

IL-30 02.00 PM - 02.30 PM	Binghe Wang , Department of Chemistry and Center for Biotechnology and Drug Design, Georgia State University, Atlanta, GA 30302-4098, USA Boronolectins and fluorescent boronolectins as potential research tools and diagnostics
IL-31 02.30 PM - 3.00 PM	Mahesh K. Lakshman , The City College and The City University of New York, USA Phosphonium ion chemistry <i>en route</i> to nucleoside modification
IL-32 3.00 PM - 03.20 PM	Bipin Pandey , CMC and NPR Department, Zydus Research Centre, Zydus Cadila, Ahmedabad Importance of Salts and Polymorphs during Drug Discovery and Development
IL-33 03.30 PM - 03.50 PM	Kanchugarakoppal. S. Rangappa , University of Mysore, Mysore Implications of heterocycles as chemotherapeutic agents: drug discovery programme
IL-34 03.50 PM - 4.10 PM	Shiv K. Agarwal , Unimark Remedies Ltd, Hindustan Antibiotic Campus, Pune Anticancer Drugs derived from Natural Products
O-16 4.10 PM - 4.20 P M	Raman K Sharma , Delhi University Delhi Exploring Enzyme Substrate Specificity for the Separation of Anomeric Mixture of <i>O</i> -Aryl Nucleosides of Diagnostic Importance

Parallel Session XIII (Hall B)**Chairpersons: Prof. Tsann-Long Su and Dr. John C. Amedio**

IL-35 02.00 PM - 02.30 PM	Vinod Bhakuni , Central Drug Research Institute, CSIR, Lucknow 226001, India. An enzymatically active fibrillar film of bacteriophage-associated hyaluronate lyase (hylp2)
IL-36 02.30 PM - 3.00 PM	Dr. Sajan Joseph - Lilly & Comp Bisindolyl Maleimides and Indolocarbazoles as Cyclin Dependent Kinase Inhibitors
IL-37 3.00 PM - 03.20 PM	A.S. Mustafa , Kuwait University, Kuwait Cell mediated immunity assays identify ESAT6-family of proteins for diagnostic and vaccine relevance using overlapping synthetic peptides corresponding to genomic regions of difference of <i>Mycobacterium tuberculosis</i>
IL-38 03.20 PM - 03.40 PM	Anamik Shah Department of Chemistry, Saurashtra University, Rajkot- 360 005 Design, synthesis and small library generation of benzo pyrans and other & Their <i>in vitro</i> anticancer evaluation
IL-39 03.40 PM - 4.00 PM	Vishnu K Tandon , Department of Chemistry, Lucknow University, Lucknow-India Proliferation and Apoptosis in Cancer Cells: The role of Chromophore
IL-40 4.00 PM-4.20 PM	Surat Kumar , Dayalbagh Educational Institute, Dayalbagh, Agra, INDIA Nucleic Acid Binding of Alkaloids: Fluorescence, Docking and Molecular Modeling Approaches

SPECIAL SESSION

PL-7

Chairperson: Prof. David Black

4.30 PM - 5.10 PM Prof. Robert H. Grubbs, Nobel laureate,
California Institute of Technology, Pasadena, USA

TEA 5.10 PM - 5.30 PM

Parallel Session XIV (Hall A)

Chairpersons: Dr. Yetendra Kumar and Prof. Anil K. Singh

PL-8 5.30 PM – 6.10 PM	Ram Vishwakarma , Indian Institute of Integrative Medicine, Jammu, Chemical biology of GPI molecules
IL-41 6.10 PM – 6.30 PM	Parthasarathi Das , Aurigene Discovery Technologies Limited, Hyderabad Macrolide and Ketolide Antibiotics: Synthetic Studies on Narbonolide
IL-42 6.30 PM – 6.50 PM	Arun K. Sinha , Institute of Himalayan Bioresource Technology (CSIR), Palampur Exploring environmentally benign chemical and biocatalytic routes for bioactive phenolics

Parallel Session XV (Hall B)

Chairpersons: Dr. Vinod Bhakuni & Dr. S. K. Agarwal

PL-9 5.30 PM – 6.10 PM	Cemil OGRETIR , Eskişehir Osmangazi University Turkey Theoretical approaches to drug design case studies on QSAR and QSPR
IL-44A 6.10 PM-6.40 PM	Dr. Chafique Hamdouchi - Lilly & Comp
IL-43 6.40 PM – 7.00 PM	Rajiv Sharma , Piramal Life Sciences Limited, Mumbai, India Structure-CYP Inhibition Relationships
IL-44 7.00 PM – 7.20 PM	Ian A Cliffe , Ranbaxy, Gurgaon Use of Virtual Compound Libraries for Chemical Hit Finding

7.00 PM - 8.30 PM Poster session-III (Poster Nos. 160 onward)

8.30 PM Dinner

Monday 18, January, 2010

SESSION –XVI

Chairpersons: Prof. Virinder S. Parmar and Prof. S.M.S. Chauhan

IL-45 9.30 AM -10.10 AM	Vinod K. Singh , Indian Institute of Science Education and Research Bhopal Total Synthesis of Bioactive Natural Products
IL-46 10.10 AM -10.40 AM	Anil K. Singh , Indian Institute of Technology, Bombay, Mumbai Design, synthesis and antiradical activity of novel Vitamin E compounds
IL-47 10.40 AM -11.10 AM	Dr. Soumitra Banerjee, Fine Solutions Ltd, Israel Recent advances in containment technologies for Anti cancer drugs
11.10 AM-11.40 AM	Prof. Luis Echegoyen Director, Division of Chemistry, National Science Foundation USA
IL-48 11.40 AM-12.10 PM	Vommina V. Sureshbabu , Bangalore University, Bangalore Synthesis of Peptides and Peptidomimetics: Isothiocyanates derived N-protected amino acids and their utility in the preparation of thioureidopeptides
IL-49 12.10 PM - 12.30 PM	Ramesh C. Gupta , Torrent pharmaceuticals Ltd. Gandhinagar, Gujarat, INDIA Advanced glycation end products and diabetic complications: An overview.
IL-50 12.30 PM - 12.50 PM	Diwan S Rawat , Department of Chemistry, University of Delhi, Delhi-110007, India Synthesis and Antimalarial Activity Evaluation of Tetraoxanes, Tetraoxane-aminoquinoline/triazine Conjugates

12.50 PM - 1.30 PM

1.30 PM - 2.00 PM

2.00 PM

Award session and Valedictory Session

Lunch

Sightseeing