

ISCBC-2008, Scientific Programme

PL: Plenary Lecture (30 min), ML: Main Lecture (25 min), IL: Invited Lecture (20 min), Oral (10 min)

Friday, February 22, 2008

08.00-09.00	Registration	
09.00-10.00	Inauguration	
10.00-10.40	Keynote by Chief Guest: Prof. Goverdhan Mehta Probing Synergy between Natural Products and Total Synthesis towards Drug Discovery	
10.40-11.00	Presentation on BITS Education System	
11.00-11.20	High Tea	
	Session I: Chairpersons Prof H. Ila, Dr. Vinod Bhakuni	Session II: Chairpersons Prof. K. Seley-Radtke, Prof. B. Jayaram
11.20-11.50	Prof. Radha K. Maheshwari PL-1 Angiogenesis as a Target in Cancer Prevention/Treatment by Phytochemicals	
11.50-12.15	Dr. Ganesh Pandey ML-1 Asymmetric Desymmetrization: Conceptual Creation to Synthetic Explorations	Prof. Jayant Udgaonkar ML-2 The Nature of Protein Folding Reactions
12.15-12.40	Prof. Jieping Zhu ML-3 The Passerini and the Ugi reaction, Recent development	Prof. Mike Threadgill ML-4 Quinolines and isoquinolinones as inhibitors of poly(ADP-ribose)polymerases (PARPs)
12.40-13.00	Dr. Ashok Prasad IL-1 Novel Selective Biocatalysis in Nucleoside Chemistry	Dr. H. S. P. Rao IL-2 Perspectives in Organic Sulfur Chemistry: Synthesis of Heterocycles from Ketene Dithioacetals
13.00-13.40	Lunch Break	
13.40-14.40	Poster Session-1 Conveners: Prof. Jacques Mortier, Dr. Kesav Deo, Dr. Brijesh K. Srivastava, Dr. Ashok Prasad, Dr. R. K. Vaid	
	Session III: Chairpersons Prof. Stefan Bräse, Prof. G Sundar	Session IV: Chairpersons Prof. Roman Dembinski, Prof. Suman Kapoor
14.40-15.10	Prof. Steven Rokita PL-2 Predicting and Controlling Selective Alkylation of DNA	
15.10-15.35	Prof. Keykavous Parang ML-5 Synthesis and Evaluation of Drug-Dextran Conjugates for Selective Liver-Targeted Drug Delivery	Dr. Ahmed Kamal ML-6 Design and Synthesis of New Pyrrolobenzodiazepine Anticancer Agents
15.35-16.00	Prof Anil K Singh ML-7 Molecular Caging & its Applications in Drug Delivery	Prof. Sean Kerwin ML-8 1,2-Dialkynylimidazoles as Anticancer Aza-Enediyne
16.00-16.20	Dr. Alireza Foroumadi IL-3 Synthesis and Biological Activities of Functionalized 2-(Nitroaryl) 5-Substituted-1,3,4-Thiadiazole Derivatives	Dr. Sanjay Kumar IL-4 Anticancer Drug Development, Using Multiple Targets Based Strategy, in PI3K/Akt-mTOR-HIF-1 Pathway
16.20-16.30	Dr. K. V. Radhakrishnan OL-1 Synthetic Utilization of Pentafulvenes Towards Fused Oxa-Bridged Cyclooctanoids	Dr. Pradeep K. Srivastava OL-2 Nanotechnology and Medical Science: Challenges Ahead
16.30-16.45	Tea Break	
	Session V: Chairpersons Prof S P Singh, Dr. Ganesh Pandey	Session VI: Chairpersons Prof. Keykavous Parang, Dr Sudershan K. Arora
16.45-17.15	Dr. Ravindera K Pandey PL-3 Multifunctional Agents for Tumor Imaging and Phototherapy	
17.15-17.40	Dr. A. K. Chakraborti ML-9 Understanding the Organic Chemistry in Aqueous Medium	Dr M K Gurjar ML-10 Natural Product Synthesis : Does it Satisfy Only The Scientific Curiosity or Something More
17.40-18.05	Prof. Jacques Mortier ML-11 Tuning of Selectivities in the Metalation of Benzoic Acids. Application to the synthesis of analogs of Gossypol antagonists of Bcl-2 family proteins	Prof. K. S. Rangappa ML-12 Design and Synthesis of Novel M1 Receptor Agonist and AchE Inhibitors for the Treatment of Alzheimer's disease
18.05-18.25	Dr. Jyoti K. Paliwal IL-5 Challenges in the Discovery and Development of New Molecules for Pulmonary Delivery	Dr. Mark Gilligan IL-6 Chemistry methodologies and how technology can help improve productivity in the 21st century!

18.25-18.35	Dr Abhijit Roychowdhury OL-3 Structural Modifications of Peptidoglycan and Nod protein recognition	Dr. Murugaiah M S Andappan OL-4 Click Chemistry in the Construction of Kinase-Biased Libraries
18.35-18.45	Dr Ram Sagar OL-5 Synthesis of stereodivergent acyclo-C-nucleosides as drug-like small molecules: A green chemistry approach	Dr. Rajiv Dahiya OL-6 Synthesis and Biological Screening of Novel Aryloxyacetic Acid Analogs
19.00-20.00	Cultural programme	
20.00-21.00	Dinner	
Saturday, February 23, 2008		
	Session VII: Chairpersons Prof Radha Maheshwari, Dr. A. K. Chakraborti	Session VIII: Chairpersons Prof. Mike Threadgill, Prof. S P Gupta
09.00-09.30	Prof. Kavita Shah PL-4 Chemical Genetic Approaches for Dissecting Signaling Cascades	
09.30-09.55	Prof. K. Seley-Radtke ML-13 Exploring Structural Diversity in Nucleoside Drug Design	Dr Sudershan K. Arora ML-14 Eradication of M.TB Infection in two months with LL-3858 (Sudoterb): A preclinical study
09.55-10.20	Dr. Tusar K. Chakraborty ML-15 Designer Molecules Containing Heteroaromatic Amino Acids	Prof. Roman Dembinski ML-16 Metallo-Nucleosides: Synthesis and Biological Evaluation of Hexacarbonyl Dicobalt 5-Alkynyl-2'-Deoxyuridines
10.20-10.40	Prof. Mahesh K. Lakshman IL-7 New Synthetic Platforms For Nucleoside Modification. Mechanisms To Structural Diversity	Dr. J. K. Saxena IL-8 <i>Brugia malayi</i> : Hexokinase Cloning and Characterization
10.40-10.50	Dr Alka Kurup OL-7 BioLoom and CQSAR: Data Mining and Lead Optimization Tools	Dr. P Yogeeswari OL-8 Drug Dvelopment Strategy for the Treatment of Neuropathic Pain
10.55-11.10	Tea Break	
	Session IX: Chairpersons Prof. Sean Kerwin, Prof. K. S. Rangappa	Session X: Chairpersons Prof. Kavita Shah, Dr. Tusar K. Chakraborty
11.10-11.40	Prof. M. Iqbal Choudhary PL-5 Recent Trends and Discoveries at the Interface of Chemistry and Biology – Case of Natural Product Science	
11.40-12.05	Dr. Vijay Nair ML-17 Recent Advances in Carbon-Carbon and Carbon-Heteroatom Bond-Forming Reactions Mediated by NHCs and Other Nucleophiles	Dr. Leonardo S. Santos ML-18 Enantioselective total synthesis of Quinolactacin B
12.05-12.30	Prof. Carmen Najera Domingo ML-19 Synthesis of Proline Derivatives by Asymmetric 1,3-Dipolar Cycloaddition Reactions of Azomethine Ylides and Alkenes	Prof. Athina Geronikaki ML-20 Thiazolidinones, pyrazolo-1,3-oxazin-2-ones and thiazolyl-N-substituted amides as anti-inflammatory agents. Dual acting agents for the treatment of various disorders with mild anti-inflammatory action as a beneficial additional property
12.30-12.50	Dr. Kumar V. Srinivasan IL-9 Efficient Synthesis of Novel Tetrahydroquinoline and Pyrimidine Heterocycles and Evaluation of their Antifungal Properties	Dr. Bipin K Pandey IL-10 Impurities and Process Research
12.50-13.00	Dr Ansu Dandia OL-9 Greener Approaches Towards the Synthesis of Pharmaceutically Important Novel 1,5-Benzothiazepine Derivatives & Their analogs	Prof M. S. Shingare OL-10 Simple and Efficient Synthesis of New α -Aminophosphonates From Imines
13.00-13.45 13.45-14.45	Lunch Break Poster Session-2 Conveners: Dr. S. B. Katti, Prof. Carmen N. Domingo, Dr. R. Mahesh, Dr. Yatendra Kumar, Dr. K. Avasthi	
	Session XI: Chairpersons Prof. M. Iqbal Choudhary, Prof. R N Saha	Session XII: Chairpersons Prof. Karsten Krohn, Dr. Ahmed Kamal
14.45-15.15	Prof. Karsten Krohn PL-6 Highlight in Synthesis and Isolation of Bioactive Molecules	
15.15-15.40	Prof. Johann Gasteiger ML-21 The Representation of Chemical Structures for Drug Design	Prof. Satya P. Gupta ML-22 Advances in QSAR Studies on Calcium Channel Blockers

15.40-16.05	Prof. Santanu Bhattacharya ML-23 Design and Synthesis of Lipid Vesicles for Gene Delivery: From Structure to Function	Dr. B. Jayaram ML-24 Gene to Drug <i>in silico</i> : A Molecular Bioinformatics Endeavor
16.05-16.25	Prof. Amitabh Jha IL-11 Design and Development of Novel Inhibitors of Topoisomerase 2	Dr. G. Narahari Sastry IL-12 Homology Models in Structure Based Drug Design Approaches: Our Experiences in Membrane Proteins
16.25-16.45	Prof. Peng George Wang IL-13 Chemical Approaches in Glycobiology	Prof. Prasad V. Bharatam IL-14 Design, Synthesis and evaluation of PPAR α/γ dual activators
16.45-17.00	Tea Break	
	Session XIII: Chairpersons Prof. Abbas Shafiee, Dr. Vijay Nair	Session XIV: Chairpersons Prof. Umesh R Desai, Prof. Santanu Bhattacharya
17.00-17.25	Prof. Helmut Duddeck ML-25 A Chiral Dirhodium Tetracarboxylate Complex as NMR Auxiliary for Enantiodifferentiation of a Great Variety of Functional Groups	Dr. Vinod Bhakuni ML-26 Modulation of Functional Activity of Enzyme by Alterations in Structure And Interactions of Domains by Activating Ions
17.25-17.50	Dr. Mukund Chorghade ML-27 Protecting Group Directed Ring-Closing Metathesis (RCM): The First Total Synthesis of Anti-malarial Nonenolide	Dr. Pradip K. Bhatnagar ML-28 Structure Activity Relationship of a Novel Hemateregulatory Peptide
17.50-18.15	Prof. Umesh R Desai ML-29 Serendipitous Discovery of Dual Direct Anticoagulants	Prof. Vyasji Tripathi ML-30 Phytochemicals in Present Scenario
18.15-18.35	Dr. Manas K. Ghorai IL-15 Activated aziridines and Azetidines: Synthetic and Biological Perspectives	Dr. Mohan Prasad IL-16 Intellectual Property in Global Pharma Industry
18.35-18.55	Ulrich Jordis IL-17 Novel NXO-Building Blocks for Peptide Backbone Modification and Preparation of New Class Pseudopeptides	Dr. Nagotoshi Nishiwaki IL-18 Synthesis of azaheterocycles by ring transformation
18.55-19.05	Dr R. A. Mane OL-11 Synthesis of New Sulphamyl thioureas bearing 4-oxo thiazolidinyl moiety and evaluation of their antidiabetic activity	Dr. Khadga Singh OL-12 The Bioactive C-19 and C-20 Diterpenoid alkaloids of Himalayan <i>Aconites</i>
19.05-19.15	Dr. Vidya Rajesh, OL-13 Genetic Polymorphism and selection in AMA-1 gene of <i>Plasmodium falciparum</i>	Dr. Pradipta Purkayastha OL-14 Heterogeneity in α_1 -antitrypsin Polymerization: Single Molecule Perspective
20.00-21.00	Dinner	
Sunday, February 24, 2008		
	Session XV: Chairpersons Prof. Rajender S Varma, Dr P M S Chauhan	Session XVI: Chairperson Prof. Athina Geronikaki, Prof. H S P Rao
09.00-09.30	Prof. Abbas Shafiee PL-7 Recent Advances in Drug Development Design, Synthesis and Biological Evaluation of Substituted 2-alkylthio-1,5-diaryl-imidazoles as selective COX-2 inhibitors	
09.30-09.55	Prof. S. M. S. Chauhan ML-31 Non-covalent Synthesis with Functional Porphyrins, Calix[4]pyrroles and Related Functional Molecules	Prof. Virendra N. Pandey ML-32 Targeting HIV-1 RNA with peptide and non-peptide conjugates of Polyamide nucleic acids
09.55-10.20	Dr. Xi Chen ML-33 Chemoenzymatic Approaches to Studying Carbohydrate-Recognizing Proteins	Prof. Ernst Schaumann ML-34 Natural and Unnatural Heterocycles from Epoxides and Allylanions
10.20-10.40	Dr. Pratibaha M Luthra IL-19 Design and synthesis of Adenosine A _{2a} Receptor Antagonists to recuperate Parkinson's disease.	Dr. Ito Takeo IL-20 Radiation- and Photo-Induced Chemical Reactions of Nucleic Acid Bases under Anoxic Conditions: Mechanistic Studies and Applications
10.40-11.00	Dr. Siyaram Pandey IL-21 Specific Induction of Apoptosis in Cancer Cells by Pancratistatin: Evaluation of its Efficacy as a Non-Toxic Anticancer Reagent and Investigation of its Mechanism of Action	Dr Anil K. Saxena IL-22 Molecular modeling studies on AChE inhibitor Carbamates to design and synthesize antialzheimer agents
11.00-11.15	Tea Break	
	Session XVII: Chairpersons Prof. Steven Rokita, Prof B V Babu	Session XVIII: Chairpersons Prof. Virendra N. Pandey, Prof. V K Tandon
11.15-11.40	Dr. Braj Bhushan Lohray ML-35 Recent Trends in Diabetes Therapy: The Mounting Challenges	Dr. K. C. Gupta ML-36 Polymeric Nanoparticles as Novel Non-Viral Gene Carriers

11.40-12.05	Prof. Miguel Angel Yus Astiz ML-37 Discovering New Asymmetric Catalyses: Chiral Tertiary Alcohols	Prof Yehia A. Ibrahim ML-38 Interesting Pyrolytic Studies of Some Heterocyclic Compounds
12.05-12.30	Dr Ramaiah Muthyala ML-39 Design and Development of Drugs to Treat Rare Vancomycin Resistant Microbial Pathogens	Dr. P. M. S. Chauhan ML-40 Nitrogen Heterocycles as Important Tools in Drug Research
12.30-12.50	Dr. Radhe K. Vaid IL-23 Synthesis of (N)-(S)-Butoxycarbonylalaninyl-(S)-1-amino-3-methyl-4,5,6,7-tetrahydro-2H-3-benzazepin-2-one and Role of 1-Hydroxy benzotriazole in Peptide Bond Formation using N-(3-Dimethylamino propyl)-N-ethyl- carbodiimide hydrochloride in Ethanol	Prof. S. C. Jain IL-24 A journey from natural products to syntheses in search of a drug candidate
12.50-13.00	Dr. Madhu Chopra OL-15 Molecular Modeling Study on Chemically Diverse Series of Cyclogenase-2 Selective Inhibitors: Generation of Predictive Pharmacophore Model using Catalyst	Dr Sunita Bhagat OL-16 A New Approach Towards Synthesis of Novel Bis Fluoroheterocycles
13.00-13.40 13.40-14.40	Lunch Break Poster Session-3 Conveners: Prof. Johann Gasteiger , Prof. M S Singare, Dr. Sudhir K Singh, Dr Ramesh C. Gupta, Prof. Ashis Das	
	Session XIX: Chairpersons Prof. Ernst Schaumann, Prof. S. M. S. Chauhan	Session XX: Chairpersons Prof. Xi Chen, Dr Naresh Kumar
14.40-15.10	Prof. Stefan Bräse PL-8 New Techniques in Combinatorial Chemistry - Synthesis of Biologically Active Compounds on Solid Supports	
15.10-15.35	Prof. Rajender S Varma ML-41 Greener Alternatives to Expedient Synthesis of Heterocycles and Nanomaterials	Dr. Ram A Vishwakarma ML-42 Natural Products as Source of New Chemical Entities: Experience at Nicholas Piramal Research Centre
15.35-15.55	Prof. Anamik Shah IL-25 Chemical Manipulation for new Antitubercular Drug Development Path: A Mini Review	Prof. Jiayi Xu IL-26 Efficient Synthesis of Structurally Diverse Substituted Taurines
15.55-16.15	Dr. W. Haq IL-27 Polypeptides and Peptidomimetics in Diabetes Therapy	Prof. Ashis Das IL-28 Molecular Analyses of <i>Plasmodium vivax</i> parasites showing severe manifestations in Bikaner, Rajasthan
16.15-16.35	Dr. Martin Rejzek IL-29 Plant Science Learning from Drug Discovery: Chemical Interrogation of Starch Metabolism in Germinating Barley	Dr. Diwan S. Rawat IL-30 Synthesis, thermal stability and antimalarial activity of symmetrically/ asymmetrically substituted tetraoxanes
16.35-16.45	Dr Anju Puri OL-17 Immunomodulatory Activity of Analog of Muramyl Dipeptide and Their Use as Adjunct to Chemotherapy of <i>Leishmania Donovanii</i> in Hamster	Dr Devdutt Chaturvedi OL-18 Carbamate Chemistry using Mitsunobu's Chemistry.
16.45-17.00	Tea Break	
	Session XXI: Chairpersons Dr Ramaiah Muthyala, Prof. Anamik Shah	Session XXII: Chairpersons Prof. Jieping Zhu, Dr. K. C. Gupta
17.00-17.35	Dr. Ramesh C. Gupta ML-43 The Advances and development in Nitric Oxide Donors	Prof. V. K. Tandon ML-44 Chirality, Asymmetric Induction and Biological Activity of Chiral and Achiral 1, 4-Naphthoquinone Derivatives as Potential Cytotoxic and Antifungal Agents
17.35-17.55	Dr. Ranjana Prasad Bird IL-31 Aberrant Crypt Foci, a Biological System to Investigate Role of Bioactive Compounds as Modifiers of Colon Carcinogenesis	Prof R N Saha IL-32 Nanoparticulate Delivery of Selected Anticancer Drugs
17.55-18.15	Dr. K. Avasthi IL-33 Pyrazol[3,4- <i>d</i>]pyrimidine based 'propylene/ Leonard linker' compounds as models for studying <i>arene interactions</i> in flexible molecules	Dr. Arun Kumar Shaw IL-34 Stereoselective Syntheses of Densely Substituted Tetrahydrofurans and Their Applications
18.15-19.30	Valedictory function	
19.30-20.30	Dinner	