

Jointly Organized by:

Indian Society of Chemists & Biologists (ISCB)
Faculty of Science and Faculty of Pharmacy,
Marwadi University, Rajkot, Gujarat, India

Date: 8 - 10 January, 2024 | Venue: Marwadi University, Rajkot, Gujarat, India

E-mail: iscbconference@gmail.com | Website: www.iscbconference.com

### **SCIENTIFIC PROGRAMME**

### Monday, January 8, 2024

9.00 AM - 10.00 AM	Registration
10.00 AM - 12.00 PM	Inaugural Session
12.00 PM - 12.30 PM	High Tea

#### Session - I

#### Chairpersons: Prof. Anamik Shah and Dr. PMS Chauhan

PL-1 12.30 PM - 1.00 PM	Nigel G. J. Richards Department of Chemistry, Cardiff University, Cardiff, UK  Cryo-EM and Molecular Dynamics Simulations Reveal Hidden Conformational Dynamics Controlling Ammonia Transport in Human Asparagine Synthetase
PL-2 1.00 PM - 1.30 PM	Michele Vittadello Professor of Chemistry and Nanoscience, Medgar Evers College of the City University of New York, Energy Nanotechnology and Materials Chemistry Team, Brooklyn, NY, USA
	Peristaltic Ion-Conduction Mechanism in Sodium Polymer Electrolytes Based on Perfluoropolyethers, DMSO, and NaTFSI
1.30 PM - 2.30 PM	Lunch

#### Parallel Session - II A

### Chairpersons: Prof Diwan Singh Rawat and Prof Krishna Nand Singh

PL-3 2.30 PM - 3.00 PM	Anoja Attanayake Professor in Biochemistry, Department of Biochemistry, Faculty of Medicine, University of Ruhuna, Sri Lanka  Mystery in the development of plant-based nephroprotective agents from Sri Lankan flora
IL-1 3.00 PM - 3.20 PM	Dalip Kumar Senior Professor, Department of Chemistry, Associate Dean, International Programmes and Collaboration Division (IPCD), Birla Institute of Technology & Science, Pilani, Pilani Campus, India Chlorophyll-a Derived Photosensitizers for Improved Photodynamic Therapy



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IL-2 3.20 PM - 3.40 PM	Bapurao B. Shingate Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India Explorations of Click Chemistry
IL-3 3.40 PM - 4.00 PM	Rakesh Kumar Parashar Bio-Organic Lab, Department of Chemistry, University of Delhi, Delhi, India Synthesis and Bio-evaluation of Newer benzothiazole appended bis triazoles as antifungal and Tetrahydropyridines based Glycomimetics Azasugars as Anti-Diabetic agents
IL-4 4.00 PM - 4.20 PM	Bichismita Sahu Associate Professor and HOD, Department of Medicinal Chemistry, NIPER-Ahmedabad, Gandhinagar, Gujarat, India DECIPHERING ROLE OF MINIMALISTIC PEPTIDES AND PEPTIDOMIMETICS TOWARDS BIOMEDICAL APPLICATIONS
4.20 PM - 4.30 PM	Теа

#### Parallel Session - II B

Chairpersons: Dr M S Shingare and Dr D V Mane

PL-4 2.30 PM - 3.00 PM	Barbara Zajc Department of Chemistry and Biochemistry, The City College of New York, USA Adenosine- and 2'-Deoxyadenosine-8-Carbaldehydes as New Tools for Diverse Purinyl C-8 Modifications
IL-5 3.00 PM - 3.20 PM	Mahesh Sharma Director, Plants Med Laboratories Pvt Ltd, Jaipur, India Biosap's Rapid-Healing Synergistic Formulas: Debunking Myths in Traditional Medicines
IL-6 3.20 PM - 3.40 PM	Evans Coutinho Bombay College of Pharmacy, Kalina, Santacruz (E), Mumbai, India Recent Advances in Biological, Chemical and Pharmaceutical Sciences for Innovation in Healthcare
IL-7 3.40 PM - 4.00 PM	Deepti Goyal Assistant Professor, Department of Chemistry, DAV College, Chandigarh, India Rational design of triazole–peptide conjugates as modulator of Aβ–aggregation, metal–mediated Aβ–aggregation and cytotoxicity



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IL-8 4.00 PM - 4.20 PM	Hemant Joshi Department of Chemistry, Central University of Rajasthan, Bandarsindri, Rajasthan, India Sterically Bulky Ligands Controlled Palladium-Catalyzed Regioselective Organic Transformations
4.20 PM - 4.30 PM	Теа

#### Parallel Session - II C

Chairpersons: Dr Sanjeev Kumar Shukla and Dr Mahesh Sharma

PL-5 2.30 PM - 3.00 PM	Dipak P. Ramji Deputy Head, Cardiff School of Biosciences, Professor of Cardiovascular Science, Cardiff University, Cardiff, UK  Probing the molecular mechanisms underlying the beneficial actions of nutraceuticals in atherosclerotic cardiovascular disease and other inflammatory disorders
IL-9 3.00 PM - 3.20 PM	Farukh Arjmand Department of Chemistry, Aligarh Muslim University, Aligarh, India RNA-targeted copper-based chemotherapeutic drug candidate derived from bioactive ligand scaffold. that induce ROS -mediated cell death in resistant cancer cells
IL-10 3.20 PM - 3.40 PM	Priyankar Paira Sr. Assistant Professor, Vellore Institute of Technology, Department of Chemistry, School of Advanced Science, Vellore, Tamilnadu, India Mitochondria targeting Ru(II)/Ir(III)/Re(I) based mono and bimetallic complexes for cancer therapy
IL-11 3.40 PM - 4.00 PM	Siddharth Sharma Assistant Professor, Department of Chemistry, Mohanlal Sukhadia University, Udaipur, India Transitioning Beyond Flasks: Exploring the Organic Chemistry of Isocyanides through Electrochemical Cells
IL-12 4.00 PM - 4.20 PM	Hitendra M. Patel Professor, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India Synthesis of small Organic Molecules and their Pharmaceutical Applications
4.20 PM - 4.30 PM	Теа



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#### Parallel Session - III A

Chairpersons: Dr Jigna Shah and Dr Alok Jain

PL-6 4.30 PM - 5.00 PM	Ramaiah Muthyala Centre for orphan drug development, University of Minneapolis, MN, USA  Development of a broad-spectrum combination antibacterial therapy with metallo beta-lactamase inhibitor against the ESKAPE pathogens for wound
IL-13 5.00 PM - 5.20 PM	Hitesh D. Patel Department of Chemistry, Gujarat University, Ahmedabad, Gujarat, India Therapeutic & Diagnostic agents development for Microorganism to AMR through computational chemistry
IL-14 5.20 PM - 5.40 PM	Virendra Vikram SIngh Scientist E, Defence Research & Development Establishment (DRDE), Ministry of Defence, DRDO Gwalior, India Advanced Materials for Defense: Designing for Performance

#### Parallel Session - III B

Chairpersons: Dr N C Desai and Dr Anil Mishra

<b>PL-7</b> 4.30 PM - 5.00 PM	Harsha Rajapakse Department of Chemistry and Environmental Science, Medgar Evers College, The City University of New York, Brooklyn, New York, NY 11225, USA Unveiling Tight Junction Dynamics with Lanthanides
IL-15 5.00 PM - 5.20 PM	Ashoke Sharon Professor & Head, Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi, India Molecular Docking, Dynamics and Chemistry for Hsp90-Cdc37-Cdk4 Protein Complex: A Protein-Protein Modulation Exploration for Drug Discovery
IL-16 5.20 PM - 5.40 PM	Rajeev Sakhuja Department of Chemistry, Birla Institute of Technology and Science, Pilani 333031, Rajasthan, India Metal-Catalyzed Strategies for the Regioselective Functionalization of Amino Acids



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#### Parallel Session - III C

Chairpersons: Dr Nigel G. J. Richards and Dr Sanjib Bhattacharyya

PL-8 4.30 PM - 5.00 PM	Erik V. Van der Eycken Full Professor, University of Leuven (KU Leuven), Department of Chemistry, Division Head of Molecular Design & Synthesis, Head of the Laboratory for Organic & Microwave-Assisted Chemistry (LOMAC), Celestijnenlaan 200F/box 2404, B- 3001 Leuven, Belgium Synthesis of small complex heterocycles
IL-17 5.00 PM - 5.20 PM	Priti Mehta Dept. of Pharmaceutical Analysis, Institute of Pharmacy, Nirma University, Ahmedabad, India Space Pharmaceutical Manufacturing: Beginning of new era of Indian pharmaceutical industry
IL-18 5.20 PM - 5.40 PM	Bhupendra Goswami Assistant Professor, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Ajmer, Rajasthan, India Synthesis of Iminophosphonamide Metal Complexes and Their Photoluminescence

#### **Poster Session -I**

Chairpersons: Dr Hardik G. Bhatt and Dr Stefano Sainas

5.45 PM -	– 7.00 PM	Poster Session -I (Poster Number 1 to 50)

7.00 PM – 8.30 PM	Cultural Programme
8.30 PM	Dinner



# 28<sup>th</sup> ISCB INTERNATIONAL CONFERENCE (ISCBC-2024)

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### Tuesday, January 9, 2024

### Parallel Session - IVA

Chairpersons: Dr Keshav Deo

PL-9	Marco L. Lolli
9.00 AM - 9.30 AM	Assistant Professor in Medicinal Chemistry, Dept. Science and Drug Technology - University of Turin (UniTO), Italy
	Human dihydroorotate dehydrogenase (hDHODH) as drug target: who is going to win the hDHODH golden rush?
IL-19	Hardik G. Bhatt
9.30 AM - 9.50 AM	Associate Professor & Head, Dept. of Pharmaceutical Chemistry, Institute of Pharmacy, NIRMA University, Ahmedabad, India
	Development of Novel Substituted 1,2,4-Triazole Derivatives Targeting Tankyrase as Anti-Cancer Agents
IL-20	Ram Sagar Misra
9.50 AM - 10.10 AM	Professor, School of Physical Sciences, Jawaharlal Nehru University (JNU), New Delhi, India
	Efficient Synthesis of Perlin's aldehyde and Electro-Organic Synthesis Isatin derivatives
IL-21	Vikas Tyagi
10.10 AM - 10.30 AM	Assistant Professor, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India
	Promiscuity of enzymes in organic synthesis
IL -22	Ved Prakash Singh
10.30 AM - 10.50 AM	Associate Professor & Head, Department of Industrial Chemistry, Mizoram University, Aizawl, Mizoram, India
	Pharmacophore-based Drug Design, Synthesis, Structural exploration and study of 2-pyridone-based pharmaceutical precursor
IL -23	Yogesh Chandra Sharma
10.50 AM - 11.10 AM	Department of Chemistry, Indian Institute of Technology BHU Varanasi, Varanasi, India
	Nanoadsorbents for drinking water remediation
11.10 AM - 11.30 AM	High Tea



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### Parallel Session - IVB

Chairpersons: Dr Dalip Kumar

<b>PL-10</b> 9.00 AM - 9.30 AM	Edmond Differding Managing Director, Differding Consulting, Luxembourg  Drug Discovery and Development in India – An Analysis of BIRAC-Funded Projects
IL-24 9.30 AM - 9.50 AM	Sanjeev Kumar Shukla Senior Principal Scientist (CSIR) and Professor (AcSIR), NMR Lab., SAIF&R Division, CSIR-Central Drug Research Institute, Lucknow, India Applications of NMR based Metabolomics
IL -25 9.50 AM - 10.10 AM	Nabin Sarkar Customer Success Specialist, ACSI India Pvt. Ltd., India CAS SciFinder Discovery Platform: Research and Development Trends for Drug Discovery
IL -26 10.10 AM - 10.30 AM	Alok Jain Assistant Professor and Ramalingaswami Fellow, Department of Bioengineering and Biotechnology, Birla Institute of Technology (BIT), Mesra, Ranchi, India Can Short ECM Hotspot-motifs engineered into Scaffolds for Tissue Engineering Applications?
IL -27 10.30 AM -10.50 AM	Satpal Singh Badsara Assistant Professor, MFOS Laboratory, Department of Chemistry (Centre of Advanced Study), University of Rajasthan, JLN Marg, Jaipur, Rajasthan, India Electro-Organic Synthesis: Green and Sustainable Approach for Forging New Bonds
IL -28 10.50 AM -11.10 AM	Atul Kumar Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi, India Pyrazole-based organic-amine and silver-carbene-based metal-organic cages as artificial Light Harvesting Systems
11.10 AM - 11.30 PM	High Tea

### Parallel Session - IVC

Chairpersons: Dr Donatella Boschi and Dr Tejal Mehta

PL-11	Mahesh K. Lakshman
9.00 AM - 9.30 AM	Department of Chemistry and Biochemistry, The City College of New York, Convent Avenue, New York, USA
	A Unified Route to Carbazolones and Indolones, and a Reactivity Divergence in



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	the Synthesis of 7-Membered Analogues
IL-29 9.30 AM - 9.50 AM	Sumit Kumar Pramanik Senior Scientist, CSIR-CSMCRI, Bhavnagar, India Stimuli-responsive nanocarriers for bioimaging, targeted drug delivery and
IL-30 9.50 AM - 10.10 AM	Indra Bahadur Professor in Physical Chemistry, Faculty of Natural and Agricultural Sciences, North-West University, South Africa
	Separation of Azeotrope using Green Solvents "Deep Eutectic Solvents and Ionic Liquids"
IL -31 10.10 AM - 10.30 AM	Swagat Mohapatra UGC - Asst. Professor, Institute of Chemical Technology Mumbai (Indian Oil Campus Odisha Bhubaneswar), IIT Kharagpur Extension Center, Bhubaneswar, Odisha, India  A NEW ROUTE TO THE SYNTHESIS OF THE BENZOTHIAZINO-BENZOTHIAZINES
IL -32 10.30 AM -10.50 AM	Fateh Veer Singh Assistant Professor, Chemistry, VIT Chennai, India Metal Free Oxidative Cyclizations Involving Iodine(III) Reagents
IL -33 10.50 AM -11.10 AM	Banibrata Maity Assistant Professor, School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, India Biomass Derived Sustainable Development of Carbon Quantum Dots as Potential
11.10 AM - 11.30 PM	Nanosensor  High Tea

### **Parallel Session-VA**

Chairpersons: Prof Dr Rodney A. Fernandes and Dr Ashoke Sharon

IL-34 11.30 AM - 11.50 AM	Stefano Sainas Department of Science and Drug Technology, University of Turin, via Giuria 9, 10125- Turin, Italy  Exploring fluorescent properties of pyrazolo[1,5-a]pyridine to design new fluorosteric compounds as hDHODH inhibitors
IL35 11.50 AM - 12.10 PM	Raksh Vir Jasra R&D Centre, Reliance Industries Limited, Vadodara Manufacturing Division, Vadodara, Gujarat, India Zeolite Catalytic Technologies for Green Chemical Production



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IL-36 12.10 PM - 12.30 PM	Dina Nath Singh Professor, K.S. Saket PG College, Dr. Ram Manohar Lohia Avadh University, Ayodhya, India Recent Pharmacological Approach toward the Search of Novel Bioactive Leads from Medicinal Plants
IL-37 12.30 PM - 12.50 PM	Sunil K. Sharma Department of Chemistry, University of Delhi, Delhi-110007, India Design and Development of Non-ionic Amphiphilic Architectures for Transdermal Drug Delivery Applications
IL-38 12.50 PM - 1.10 PM	Prakash C Jha Prof & Dean, SAMS, Central University of Gujarat, Gandhinagar, India Experimental and Computational Characterization of p-Sulfocalix[4]arene Mediated Delivery System
IL-39 1.10 PM - 1.30 PM	Bhupesh Goyal School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India Unravelling the destabilization mechanism of small-molecule inhibitors against α–Syn oligomers using molecular simulations
1.30 PM - 2.30 PM	Lunch

### **Parallel Session - VB**

Chairpersons: Dr Dipak P. Ramji and Dr Hitendra M. Patel

IL-40 11.30 AM - 11.50 AM	M.V. Raghavendra Rao Scientist-Emeritus and Director of Research, Apollo Institute of Medical Sciences and Research, Hyderabad, TS, India Research on Animal, and human clinical trials for Potential High-Risk Therapeutic Products
IL-41 11.50 AM - 12.10 PM	Jigna Shah Professor & Head, Department of Pharmacology, Institute of Pharmacy, Nirma University, Ahmedabad, India Molecular Signalling Pathways and therapeutic approaches for the treatment of breast cancer
IL-42 12.10 PM - 12.30 PM	Amit Shard Assistant Professor, Department of Pharmaceutics, NIPER, Ahmedabad, Gujarat, India Unveiling the Mechanism of Tumor Regression in Triple- Negative Breast Cancer with a Thiazole-Based Pyruvate Kinase M2 Inhibitor



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IL-43 12.30 PM - 12.50 PM	Bhumika Patel Assistant Professor, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat, India DESIGN AND SYNTHESIS OF NOVEL NON-NAD+ ANALOGUES AS POLY(ADP-RIBOSE) POLYMERASE1 (PARP1) INHIBITORS
IL-44 12.50 PM - 1.10 PM	Pratibha Kumari Associate Professor, Department of Chemistry, Deshbandhu College, Kalkaji, University of Delhi, New Delhi, India Development of nanocellulose-based materials for food safety applications
IL-45 1.10 PM - 1.30 PM	Ratnesh Das Professor of Chemistry, Dr. Harisingh Gour University, Sagar (M.P.), India Application of TiO 2 Catalyzed Reactions to the Synthesis of Privileged Indole Derivatives for Medicinal Interest
1.30 PM - 2.30 PM	Lunch

### **Parallel Session - VC**

Chairpersons: Prof Anoja Attanayake and Dr Evans Coutinho

IL-46 11.30 AM - 11.50 AM	N C Desai Division of Medicinal Chemistry, Department of Chemistry, Mahatma Gandhi Campus, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar, India Abstract Awaited
IL-47 11.50 AM - 12.10 PM	Sanjib Bhattacharyya Nirma University, Ahmedabad, India Nano Gold Regulate the Undruggable Pathogenic Tau to Prevent AD
IL-48 12.10 PM - 12.30 PM	Sartaj Tabassum Cancer and Bioinorganic Research Lab, Department of Chemistry Aligarh Muslim University, Aligarh, India Progress in Metal-based Anticancer Agent Macro to Nano Structure: In vitro and in Vivo Investigations
IL-49 12.30 PM - 12.50 PM	Akhilesh Kumar Verma Department of Chemistry, University of Delhi, Delhi, India  o-Alkynyl/alkenyl Arylnitrile: A New Building Block for Construction of Small Organic Molecules of Pharmaceutical Interest
IL-50 12.50 PM - 1.10 PM	Vijay M. Khedkar School of Pharmacy, Vishwakarma University, Pune, India Abstract Awaited



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IL-51 1.10 PM - 1.30 PM	C. N. Ramchand Theragen Biologics Pvt Ltd, Chennai, India
1.10 TW 1.50 TW	Discovery and Development of Synthetic anti-VEGF FAB for Treating wet- Macular Degeneration and Diabetic Retinopathy
1.30 PM - 2.30 PM	Lunch

#### Parallel Session - VIA

Chairpersons: Prof Marco L. Lolli and Dr Rakesh Kumar Parashar

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IL-52 2.30 PM - 2.50 PM	Ravindra Kumar Senior Scientist, Medicinal and Process Chemistry Division, CSIR-CDRI, Lucknow, India Stereoselective Construction of Alkaloid-Mimicking Polycyclic Scaffolds Through Unified Desymmetrization Strategy
IL-53 2.50 PM - 3.10 PM	Niyati Acharya Dept. of Pharmacognosy, Institute of Pharmacy, Nirma University, Ahmedabad, India Sialic acid conjugation for target delivery of natural neuroprotective: A case study
IL-54 3.10 PM - 3.30 PM	Devesh M Sawant Asst Professor, Pharmacy, Central University of Rajasthan, NH8, Bandarsindri, Ajmer, Rajasthan, India Pd-Catalyzed Azide-Isocyanide Cross Coupling Reaction: Concept to application in Medicinal Chemistry and Bioimaging
IL-55 3.30 PM - 3.50 PM	Saravanan S Scientist, Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat, India Organocatalytic approaches toward the synthesis of important heterocycles
<b>O-1</b> 3.50 PM - 4.00 PM	Ankita Doshi Division of Biomedical and Life Sciences, School of Science, Navrachana University, Vadodara, India Elucidating synergistic effect of silver nanoparticles of Butea monosperma extract and melatonin as anticancer agents against breast cancer cell line
<b>O-2</b> 4.00 PM - 4.10 PM	Arnisha Shaileshbhai Italiya Department of Life Sciences, MKBU, Bhavnagar, India Isolation, production and comparison of different pigments from Ray fungus



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<b>O-3</b> 4.10 PM - 4.20 PM	Ashok Garai Department of Physics, The LNM Institute of Information Technology, PO Sumel, via Jamdoli, Jaipur 302031, Rajasthan, India Unravelling the Elastic Properties of DNA: Insights from All-Atomistic Molecular Dynamics Study
<b>0-4</b> 4.20 PM - 4.30 PM	Asmita Mondal Department of Chemistry, Durgapur Government College, J. N. Avenue, Durgapur, Paschim Bardhaman, West Bengal, India
	Understanding indolizine synthesis from [3+2] cycloaddition reactions of substituted pyridinium methylides with molecular electron density theory perspective
4.30 PM - 4.40 PM	Теа

### Parallel Session - VIB

Chairpersons: Prof Barbara Zajc and Dr Bhumika Patel

IL-56 2.30 PM - 2.50 PM	Tejal Mehta Professor & Head, Department of Pharmaceutics, Institute of Pharmacy, Nirma University, Ahmedabad, India Lipid Nanocarriers as Emerging Platform for Targeting in Cancer Therapy
IL-57 2.50 PM -3.10 PM	Subhash C. Mandal Professor, Pharmacognosy & Phytotherapy Research Laboratory, Division of Pharmacognosy, Department of Pharmaceutical Technology, Faculty of Engineering & Technology, Jadavpur University, Kolkata, India  Research and Development of Figs.: My Expertise of the last three Decades
IL-58 3.10 PM - 3.30 PM	Manas K Ghorai Professor, Department of Chemistry, Indian Institute of Technology Kanpur, India Abstract Awaited
IL-59 3.30 PM - 3.50 PM	Sanjay Kumar Patel Founder & Principal IP Attorney at EXCELON IP, Ahmedabad, Gujarat, India Role of intellectual property in fostering chemistry and biologics industry
<b>0-5</b> 3.50 PM - 4.00 PM	Bhagawati Saxena Department of Pharmacology, Institute of Pharmacy, Nirma University, S.G. Highway, Ahmedabad, India PHARMACOLOGICAL EVALUATION OF NEUROPROTECTIVE EFFECT OF ETHANOLIC EXTRACT OF NARDOSTACHYS JATAMANSI IN EXPERIMENTAL ANIMAL MODEL OF TRAUMATIC BRAIN INJURY



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<b>O-6</b> 4.00 PM - 4.10 PM	BRIJESH PATEL Inorganic Materials and Catalysis Discipline, CSIR- Central salt and Marine Chemical Research institute, Bhavnagar – 364002 Gujarat, India Unlocking Enhanced Reactivity in julolidine construction: Electrostatic Stabilization of Phenol's Conjugate Bases Through Anion Selection
<b>0-7</b> 4.10 PM - 4.20 PM	Charmy S. Kothari Department of Pharmaceutical Analysis, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat, India  Development And Validation of Stability Indicating Mass Compatible HPLC Method for Estimation of Deferasirox
<b>0-8</b> 4.20 PM - 4.30 PM	CHETAN KISHORBHAI DHOKAI Research scholar, Marwadi University, Rajkot, Gujarat, India Watersaving in thermal power plant by use of membrane filter in Cooling tower treatment
4.30 PM - 4.40 PM	Теа

### **Parallel Session - VIC**

Chairpersons: Prof M.V. Raghavendra Rao and Dr Rajeev Sakhuja

IL-60 2.30 PM - 2.50 PM	Donatella Boschi Department of Drug Science and Technology, Università degli Studi di Torino, Via Pietro Giuria 9, 10125-Torino, Italy Structure-guided optimization of new AKR1C3 inhibitors designed by 3- hydroxyazole bioisosteric approach to target prostate cancer
<b>0-9</b> 2.50 PM - 3.00 PM	Prakash Pandurang Taur Department of Chemistry, Birla Institute of Technology and Science, Pilani 333031, India Design and Synthesis of Pyropheophorbide Derived Photosensitizers and Their Pharmacokinetic, Tumor Uptake and Anti-Cancer Activity Studies
<b>0-10</b> 3.00 PM - 3.10 PM	JIGARKUMAR KIRITBHAI VANKAR School of Chemical Sciences, Central University of Gujarat, Gandhinagar, India Ester synthesis via cascade alkylation and activation of thioamides
<b>0-11</b> 3.00 PM - 3.20 PM	KESUR RAJADE RAM Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar-388 120, Gujarat, India Synthesis of Pyrazolo[5,1-b]quinazoline-3-carboxylates via Three Component DES as a Green Media and their Applicability as Chemosensor



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4.30 PM - 4.40 PM	Теа
<b>O-18</b> 4.20 PM - 4.30 PM	Devangi Sojitra Department of Mathematics, Marwadi University, Rajkot-360003, Gujarat, India Compactness in unequal crossover model
	248006, Uttarakhand, India  Chemical and in vitro biological investigation of Cupressus torulosa needles essential oil
<b>O-17</b> 4.10 PM - 4.20 PM	Piyush Bhalla  Chemistry and Bioprospecting Division, Forest Research Institute, Dehradun-
<b>O-16</b> 4.00 PM - 4.10 PM	PAYAL BHANUBHAI CHAUHAN Research Scholar, School of Chemical Sciences, Central University of Gujarat, Gandhinagar, India Amphipathic Hybrid Foldamers as Antimicrobial Agents
<b>O-15</b> 3.50 PM - 4.00 PM	Nikili K Zhimo Department of Chemistry, Kohima Science College (Autonomous) Jotsoma, Nagaland India Potential of Chayote as a precursor for Activated Carbon prepared by chemical activation for the removal of heavy metals
<b>O-14</b> 3.40 PM - 3.50 PM	DEVENDRA PRATAP SINGH Division of Endocrinology, Council of Scientific and Industrial Research-Central Drug Research Institute, Lucknow, India MiR-539-3p negatively regulates osteogenesis by suppression of Wnt/Beta catenin pathway and subsequent inhibition of Akap-3 signalling
<b>O-13</b> 3.30 PM - 3.40 PM	Monika Malik Department of Chemistry, Birla Institute of Technology and Science, Pilani 333 031, India A facile and efficient synthesis of N-aryl indolylsulfoximines as potent and selective anticancer agents
<b>0-12</b> 3.20 PM - 3.30 PM	Manas Barik Central Salt and Marine Chemicals Research Institute, Bhavnagar Gujarat, 364002, India Revisiting the old material: The impact of boehmite-derived catalytic material on the formation of dihydropyran compounds and its application to access fragrant derivatives



### 28<sup>th</sup> ISCB INTERNATIONAL CONFERENCE (ISCBC-2024)

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Marwadi University, Rajkot, Gujarat, India

Date: 8 - 10 January, 2024 | Venue: Marwadi University, Rajkot, Gujarat, India

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### Parallel Session - VII A

Chairpersons: Dr Edmond Differding and Prof Sartaj Tabassum

IL-61 4.40 PM - 5.00 PM	Rodney A. Fernandes Professor, Chemistry Department, IIT Bombay, Powai Mumbai, India "SERENDIPITY" in Organic Synthesis: Development of New Synthetic Reactions
<b>O-19</b> 5.00 PM - 5.10 PM	Muskanbanu Baloch Department of Chemistry, Marwaadi University, Rajkot, Gujarat, India  Polymerization of "(E)-4-(4-hydroxy-3-methoxyphenyl)but-3-en-2-one"with chloro acetophenone and formaldehyde solution: Synthesis of 222 unsaturated polymer
<b>O-20</b> 5.10 PM - 5.20 PM	Kavan Mehta Faculty of Pharmacy, Marwadi University, Rajkot – morbi road, Rajkot 360003, Gujarat, India Advancement in research with the help of Al
<b>0-21</b> 5.20 PM - 5.30 PM	Abhay Lodariya Faculty of Pharmacy, Marwadi University, Rajkot-360003, Gujarat, India Assessment of <i>In Vitro</i> Anti-Glycation Efficacy of Dapagliflozin andRosuvastatin on Human Serum LDL
<b>O-22</b> 5.30 PM - 5.40 PM	Rahil Mathakia Department of Microbiology, Marwadi University, Gujarat, India Optimizing Patent Processing Time in the Indian Biotechnology Sector: A Comprehensive Analysis of Disposal Types and Their Temporal Impact

### Parallel Session - VII B

Chairpersons: Dr Stefano Sainas and Dr Neelima Gupta

IL-62 4.40 PM - 5.00 PM	Anirban Pradhan Assistant Professor, Department of Chemistry, Birla Institute of Technology (BIT) Mesra, Ranchi, India Green and Renewable Hydrogen Fuel Production based on Porous Carbon Materials
<b>0-23</b> 5.00 PM - 5.10 PM	Gaddam Mareechika Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research, Raebareli, Transit Campus Lucknow, UP, India Carbon quantum dots, preparation, photophysical properties and application thereof



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<b>0-24</b> 5.10 PM - 5.20 PM	Priyanka Choudhary Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076, Maharashtra, India Chiral Pool Meets Chiral Catalysis: Eight-Step Convergent Total Synthesis of Anticancer Natural Lipid Mycalol
<b>0-25</b> 5.20 PM - 5.30 PM	Mital K. Aadesariya Department of chemistry, Marwadi University, Rajkot- 360003, Gujarat, India Quantitative, quantitative Analysis as well as bioactivity activity of methanolic and petroleum extract of Abutilon pannosum leaves
<b>0-26</b> 5.30 PM - 5.40 PM	Neilanuo Huozha Department of Chemistry, Kohima Science College (Autonomous), Jotsoma, Nagaland, India Production of activated carbon from Sechium edule plant for removal of dyes and fluoride pollutants; Equilibrium, kinetic and thermodynamic studies

### Parallel Session - VII C

Chairpersons: Dr Harsha Rajapakse and Dr Pratibha Kumari

IL-63 4.40 PM - 5.00 PM	Abu Salim Mustafa Department of Microbiology, College of Medicine, Kuwait University, Kuwait Whole Genome Sequencing of Pathogenic Bacterial Genomes: Applications in Clinical Microbiology
<b>0-27</b> 5.00 PM - 5.10 PM	Kiran Chauhan  Chemistry and Bio-prospecting Division, Forest Research Institute, Dehradun, India  Prinsepia utilis Royle seed oil: A comprehensive study on its fatty acid composition and anti-inflammatory property
<b>0-28</b> 5.10 PM - 5.20 PM	Vivek Yadav Department of Microbiology, Marwadi University, Gujarat, India Process Development and bio similarity of mAb molecule: a case study
<b>0-29</b> 5.20 PM - 5.30 PM	Ravi Shantilal Parmar Department of Chemistry, Saurashtra University, Rajkot-360005, Gujarat, India  1,2,3-triazoles derivatives via 'click chemistry' approach
<b>0-30</b> 5.30 PM - 5.40 PM	Harsh Vithlani Faculty of Pharmacy, Marwadi University, Rajkot-360003, Gujarat, India Formulation Characterisation and Optimization of Quick-Dissolving Sublingual Film of Venlafaxine Hydrochloride by Using Design of Experiment



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**Poster Session -II** 

Chairpersons: Dr Sanjeev Kumar Shukla and Prof Farukh Arjmand

5.45 PM -7.30 PM	Poster Session -II (Poster Number 51 onwards)
7.30 PM	Dinner



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### Wednesday, January 10, 2024

Parallel Session -VIIIA

**Chairpersons: Dr Bapurao B. Shingate** 

<b>IL-64</b> 9.00 AM – 9.20 AM	Ramesh Kothari Professor and Head, Department of Biosciences, Saurashtra University, Rajkot, India Probiotics and Prebiotics: An Innovative Approach for Improvement of Gut Microbiome
IL-65 9.20 AM - 9.40 AM	Brajendra K. Singh Associate Professor, Department of Chemistry, University of Delhi, Delhi, India Metal-Catalysed Chalcogenation of Quinoxolinones and Benzoxazines via C-H activation
IL-66 9.40 AM - 10.00 AM	Asha Patel Associate Professor, Parul Institute of Pharmacy, Vadodara, Gujarat, India DEVELOPMENT OF SURFACE FUNCTIONTIONALISED BIOTHERAPEUTICS FOR THE TREATMENT OF CANCER
<b>0-31</b> 10.00 AM -10.10 AM	Ranjan Chhaganlal Khunt Department of Chemistry, Saurashtra University, Rajkot-360005, India  UGI-mediated an efficient and concise synthesis of anticancer agents
<b>0-32</b> 10.10 AM -10.20 AM	Riddhi Naresh Dholakiya Department of Life Sciences, MKBU, Bhavnagar, India  Xylanase production by marine Actinobacteria
<b>O-33</b> 10.20 AM -10.30 AM	Sachinkumar Gunvantrai Modha Tarsadia Institute of Chemical Science, Maliba Campus, Tarsadi 394350, Uka Tarsadia University, Bardoli, India Study of photophysical properties of <i>N</i> -aryl enaminones and their application in the synthesis of hexahydrocarbazolones via [6π] Photocyclization <sup>‡</sup>
<b>O-34</b> 10.30 AM -10.40 AM	Santosh Kumar Division of Medicinal and Process Chemistry, CSIR-Central Drug Research Institute, Lucknow-226031, India Targeting Methicillin-Resistant Staphylococcus aureus (MRSA) for Antimicrobial Activity Through Hemiaminal 3- Sulfenylated Indoles: Structure-Activity Relationship (SAR), in vitro and in vivo Studies



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<b>O-35</b> 10.40 AM -10.50 AM	SAURABH KUMAR KAUSHAL Division of Endocrinology, Council of Scientific and Industrial Research-Central Drug Research Institute, Lucknow, India Immunomodulating Osteoprotective Effect of IL-33 in D-galactose Accelerated Aging Bone Loss Condition
<b>O-36</b> 10.50 AM -11.00 AM	Saurajit Ghosh Department of Chemistry, Birla Institute of Technology & Science, Pilani, Rajasthan 333031, India Journey of an AlEgen: From mechanochromism to amyloid fibril detection
11.00 AM - 11.20 AM	High Tea

#### Parallel Session -VIII B

Chairpersons: Dr Nighat Fahmi and Dr Fateh Veer Singh

IL-67 9.00 AM – 9.20 AM	Saravanan Matheshwaran Department of Biological Sciences and Bioengineering, Indian Institute of Technology - Kanpur, Kanpur, India Potential inhibitors of mycobacterial "SOS" response- as an adjuvant therapy
IL-68 9.20 AM - 9.40 AM	Ramendra Pratap Singh Department of Chemistry, University of Delhi, Delhi, India Synthesis of various functionalized Aza heterocycles from aryl methyl ketones of biological importance
IL-69 9.40 AM - 10.00 AM	Navneet Kumar Gupta Assistant Professor, Center for Sustainable Technologies, Indian Institute of Science, Bangalore, Karnataka, India Strategies for Producing Renewable Chemicals from Biomass: Advancing the Circular Bioeconomy
<b>O-37</b> 10.00 AM -10.10 AM	Shivangi Ambrishkumar Mehta Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, 390002, India Engineering of hybrid SBA-15 for assessment of invitro release of alendronate
<b>O-38</b> 10.10 AM -10.20 AM	SOMNATH ARJUN BORADE  Department of Chemistry, Birla Institute of Technology & Science, Pilani, Rajasthan 333031, India  Synthesis of Modified Bile Acids <i>via</i> Palladium-Catalyzed C(sp³)-H (Hetero)arylation



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<b>0-39</b> 10.20 AM -10.30 AM	Sonu Khanka Division of Endocrinology, CSIR-Central Drug Research Institute, Lucknow-226031, India
	Identification of Novel Pyrimidine derivative as Bone anabolic and fracture healing agent promoting osteogenesis via BMP2/SMAD1 signaling
0-40	SUNDARAM SINGH
10.30 AM -10.40 AM	Department of Chemistry, Indian Institute of Technology (BHU), Varanasi – 221 005, U.P., India
	A Photo-Catalyst-Free Approach for the Visible-Light Induced N-Arylation of Sulfonamides via Electron-Donor-Acceptor Complex
0-41	Viralkumar Arvindbhai Doshi
10.40 AM -10.50 AM	Department of Chemistry, Government Science college, Limkhedda. Gujarat University, Ahmedabad, India
	Synthesis and biological evolution 5-chloro thiophene containing novel Hydrazide- hydrazone derivatives
O-42	Vivek Kumar Vyas
10.50 AM -11.00 AM	Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad 382481, Gujarat, India
	INTEGRATED STRUCTURE- AND LIGAND-BASED COMPUTATIONAL MODELLING METHOD FOR THE SUCCESSFUL DESIGN OF DRUG CANDIDATES
11.00 AM - 11.20 AM	High Tea

#### Parallel Session -VIII C

### **Chairpersons:**

IL-70 9.00 AM – 9.20 AM	Anil Mishra Department of Chemistry, University of Lucknow, Lucknow, India Chemistry of Overcoming the NMR - Stress Connection and Managing Health Made Easy
IL-71 9.20 AM - 9.40 AM	Surendra Singh Professor, Dept. of Chemistry, University of Delhi, Delhi, India Development of Recoverable Chiral Organocatalysts for Asymmetric Friedel-Crafts Reactions
IL-72 9.40 AM - 10.00 AM	Neelima Gupta Department of Chemistry, University of Rajasthan, Jaipur, India Computational and Experimental Tools to Recognize Multi-target Binding Profiles of Therapeutic Agents



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<b>0-43</b> 10.00 AM -10.10 AM	Anjali V. Chhablani Department of Chemistry, Marwadi University, Rajkot-Morbi Road, P.O. Gauridad, Rajkot 360003, Gujarat, India
	Design, Synthesis and Biological Screening of Nitrogen Containing Heterocycles and its Sulphonamide Derivatives
<b>0-44</b> 10.10 AM -10.20 AM	Gadavala Sarah Assistant Professor, Marwadi University1 Rajkot-Morbi Road, Rajkot 360003, Gujarat, India
	Evaluation Of Effect Of Ethanolic Extract Of Cassia Tora Seeds On Permeability Of Etoposide Using Everted Chicken Small Intestine
<b>0-45</b> 10.20 AM -10.30 AM	Krishna Raval Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, 360003, India
	AQbD-based optimization and validation of RP-HPLC method for the estimation of Chlorthalidone and Azelnidipine in pharmaceutical dosage form
<b>0-46</b> 10.30 AM -10.40 AM	Devanshi Dhinoja  Marwadi University, Rajkot  Formulation and Evaluation of Paracetamol Suspension Prepared by Using Flaxseed Mucilage and Comparative Study Between Different Marketed and Inhouse Developed Formulation
<b>0-47</b> 10.40 AM -10.50 AM	Shreyansh Vagadia Faculty of Pharmacy, Marwadi University, Rajkot-360003, Gujarat, India Green Synthesis and Characterization of Silver Nanoparticles from <i>Cinchona Ledgeriana</i> Bark Extract
<b>0-48</b> 10.50 AM -11.00 AM	Hiral Ranchhod Topiya Assistant Professor, Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, India Karnasphota from Ayurveda as a source of Novel Acetylcholinesterase Inhibitor: a natural scaffold targeting the treatment of Alzheimer's disease
11.00 AM - 11.20 AM	High Tea

11.30 PM - 1.00 PM	Valedictory Session
1.00 PM -2.00 PM	Lunch

- End of Programme -



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# INAUGURAL CEREMON

Cordially inviting you for the inauguration of

INTERNATIONAL

ISCBC-2024

Jointly organized by

Indian Society of Chemists & Biologists (ISCB)

**CHIEF GUEST** 

HON'BLE PROF. (DR) G D YADAV

Padma Shri, Former Vice-Chancellor, ICT, Mumbai

### **GUEST OF HONOR**

**DR ANIL GUPTA** 

Padma Shri, Founder, The Honey Bee Network, NIF, SRISTI,

**DR A RAMKISHAN** 

Deputy Drugs Controller (India), CDSCO, Hyderabad

DR MUKUL PATEL

Vice Chancellor, Gujarat Ayurved University, Jamnagar

DR EDMUND DIFFERDING

Managing Director, Differding Consulting, Luxembourg

#### PRESIDED BY

SHRI KETAN MARWADI

President. Marwadi University

PROF. (DR) R B JADEJA

Pro Vice-Chancellor, Marwadi University

SHRI JITUBHAI CHANDARANA

Vice-President. Marwadi University

SHRI NARESH JADEJA

Registrar, Marwadi University

#### 08 JANUARY, 2024 | 10:00 AM ONWARDS

Venue: Auditorium, Tagore Building, Marwadi University

#### **INVITEES**

PROF. PMS CHAUHAN General Secretary, ISCB

PROF. ANAMIK SHAH President, ISCB

DR KANTHA D ARUNACHALAM Dean, Faculty of Science

DR LALJI BALDANIYA

Principal, Faculty of Pharmacy

DR VICKY JAIN

Principal, Faculty of Science















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Faculty of Science and Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, India

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**ISCBC-2024** 

# Inaugural Ceremony



HON'BLE PROF. (DR) G D YADAV
Padma Shri, Former Vice-Chancellor,
ICT, Mumbai
Has kindly consented to be the Chief Guest



DR ANIL GUPTA
Founder, The Honey Bee Network,
National Innovation Foundation, SRISTI,
will grace the occasion as Guest of Honor



DR MUKUL PATEL
Vice Chancellor, Gujarat
Ayurved University, Jamnagar
will grace the occasion as Guest of Honor



DR EDMOND DIFFERDING

Managing Director,
Differding Consulting, Luxembourg
will grace the occasion as Guest of Honor



DR A RAMKISHAN
Deputy Drugs Controller (India),
CDSCO, Hyderabad
will grace the occasion as Guest of Honor



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# **VALEDICTORY CEREMONY**

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28TH ISCB INTERNATIONAL CONFERENCE

ISCBC-2024

Jointly organized by

Indian Society of Chemists & Biologists (ISCB)

**CHIEF GUEST** 

HON'BLE PROF. (DR) M M SHARMA

Padma Vibhushan, Former Director, UDCT, Mumbai

#### **GUEST OF HONOR**

#### **DR UNNAT PANDIT**

Controller General of Patents, Design, and Trademarks, Government of India

#### DR KESHAV DEO

Executive Director, Almelo Pvt. Ltd., CEO, Lifeactivus Pvt. Ltd.

#### PROF. (DR) J S YADAV

Former Director, CSIR-IICT, Hyderabad; Director, Research, Indrashil University

#### PROF. (DR) NISHEETH DESAI

Chief Editor,

Analytical Chemistry Letters, Taylor & Francis

### PRESIDED BY

#### SHRI KETAN MARWADI

President, Marwadi University

### PROF. (DR) R B JADEJA

Pro Vice-Chancellor, Marwadi University

### SHRI JITUBHAI CHANDARANA

Vice-President, Marwadi University

#### SHRI NARESH JADEJA

Registrar, Marwadi University

#### 10 JANUARY, 2024 | 12:30 PM ONWARDS

Venue: Auditorium, Tagore Building, Marwadi University

#### **INVITEES**

PROF. PMS CHAUHAN General Secretary, ISCB PROF. ANAMIK SHAH President, ISCB DR KANTHA D ARUNACHALAM

Dean, Faculty of Science

#### DR LALJI BALDANIYA

Principal, Faculty of Pharmacy

#### DR VICKY JAIN

Principal, Faculty of Science















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**ISCBC-2024** 

# Valedictory Ceremony



HON'BLE PROF. (DR) M M SHARMA
Padma Vibhushan, Padma Bhushan,
Former Director, UDCT, Mumbai
Has kindly consented to be the Chief Guest



DR UNNAT PANDIT
Controller General of Patents, Design, and Trademarks, Government of India will grace the occasion as Guest of Honor



PROF. (DR) J S YADAV
Former Director, CSIR-IICT, Hyderabad;
Director, Research, Indrashil University
will grace the occasion as Guest of Honor



DR KESHAV DEO
Executive Director,
Almelo Pvt. Ltd., CEO, Lifeactivus Pvt. Ltd.
will grace the occasion as Guest of Honor



PROF. (DR) NISHEETH DESAI Chief Editor, Analytical Chemistry Letters, Taylor & Francis will grace the occasion as Guest of Honor