



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

Jointly Organized by:

Indian Society of Chemists & Biologists (ISCB)

Department of Chemistry and Department of Pharmaceutical Sciences,  
Marwadi University, Rajkot, Gujarat, India

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

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## POSTERS

- | Poster Number | Title & Author  |
|---------------|---|
| P-1           | <p><b>Insights into Synergistic Effects of 1, 5- disubstituted Tetrazole Derivatives via a TMS-N<sub>3</sub> Based Ugi Reaction and their Anti-cancer Activity</b><br/>AMITA K. VYAS, Dr. RANJAN C. KHUNT*<br/><i>Department of Chemistry, Saurashtra University, Rajkot (Gujarat)-360005</i></p>   |
| P-2           | <p><b>Coumarin-Benzopyran Fused Bioheterocycles via Intramolecular Cross Dehydrogenative Coupling (CDC) Strategy: A Potential Scaffold against Monoamine Oxidase A and B</b><br/>Abdul Rahaman T A,<sup>1</sup> Ritu Sharma,<sup>2</sup> Janmejaya Sen<sup>1</sup> and Sandeep Chaudhary<sup>1,2,*</sup><br/><sup>1</sup>Laboratory of Bioactive Heterocycles and Catalysis (BHC Lab), Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research-Raebareilly (Transit Campus), Bijnor-Sisendi Road, Near CRPF Base Camp, Sarojini Nagar, Lucknow-226002, India.<br/><sup>2</sup>Laboratory of Organic and Medicinal Chemistry (OMC Lab), Department of Chemistry, Malaviya National Institute of Technology Jaipur, Jawaharlal Nehru Marg, Jaipur-302017, India.</p>   |
| P-3           | <p><b>Synthesis of Bis(oxazolones): A ligand system having antimicrobial activity</b><br/>Vidhi Bhatt<sup>b</sup>, Dr. Bragdish Iyer<sup>b</sup>, Akashkumar Purohit<sup>a b</sup>, Dr. Atanu Banerjee**<sup>a b</sup><br/><sup>a</sup> Dr. K C Patel Research &amp; development Centre, Charotar university of science &amp; technology, CHARUSAT Campus, Changa 388421, Gujarat, India.<br/><sup>b</sup> P D Patel Institute of Applied Sciences, Charotar University of Science and Technology, CHARUSAT Campus, Changa 388421, Gujarat, India.</p>  |
| P-4           | <p><b>The synthesis, biological evaluation and structure–activity relationship of 2-phenylaminomethylene-cyclohexane-1,3-diones as specific anti-tuberculosis agents</b><br/>Ali Mohd Lone,<sup>‡c</sup> Muzafar Ahmad Rather,<sup>‡ab</sup> Bisma Teli,<sup>cd</sup> Zubair Shanib Bhat,<sup>ad</sup> Paramjeet Singh,<sup>e</sup> Mubashir Maqbool,<sup>a</sup> Bashir Ahmad Shairgojray,<sup>c</sup> Mohd Jamal Dar,<sup>de</sup> Shajrul Amin,<sup>b</sup> Syed Khalid Yousuf,<sup>*cd</sup> Bilal A. Bhat<sup>*cd</sup> and Zahoor Ahmad<br/><sup>a</sup>Clinical Microbiology and PK/PD Division, Clinical Microbiology PK/PD/Laboratory, CSIR-Indian Institute of Integrative Medicine, Sanatnagar, Srinagar, India-190005<br/><sup>b</sup>Department of Biochemistry, University of Kashmir, Hazratbal Srinagar, India-190006<br/><sup>c</sup>Medicinal Chemistry Division, CSIR-Indian Institute of Integrative Medicine, Sanatnagar, Srinagar, India-190005</p> |
| P-5           | <p><b>Is CiNA a potential candidate for TNF-alpha induced atrophy as well?</b><br/>Anita Dua<sup>†</sup>, Prachi Gupta, Nirmaljeet Kaur, Ashwani Mittal, Sanjeev Gupta<br/><i>Skeletal Muscle Lab, Institute of Integrated &amp; Honors Studies, Kurukshetra University, Kurukshetra, Haryana -136119, India</i></p>  |



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**P-6 "Green Synthesis of Dihydropyranopyrazole Derivatives at Elevated Temperatures"**

Anjalee R. Khoyanee, Ranjan C. Khunt\*

*Chemical Research Laboratory, Department of Chemistry, Saurashtra University, Rajkot-360005*

**P-7 *In vitro* Assessment of Antioxidant and Anticancer Potential of *Tinospora cordifolia* Leaf Extract**

Ann Maria Joseph<sup>1</sup>, Vaibhavi Srivastava<sup>1</sup>, Khairah Ansari<sup>1</sup>, Priyesh Kumar<sup>1</sup>, Nilam Parmar<sup>2</sup>, Krupali Trivedi<sup>1</sup>, Devendrasinh Jhala<sup>1\*</sup>

<sup>1</sup>*Department of Zoology, Biomedical Technology, Human Genetics and Wildlife Biology & Conservation, University School of Sciences, Gujarat University, Ahmedabad-380009*

<sup>2</sup>*Department of Life Sciences, University School of Sciences, Gujarat University, Ahmedabad-380009*

**P-8 Organocatalytic Photoinduced Carboamination of Dienes**

Arun Yadav, Sabhya Sandha, Chandra Bhushan Tripathi\*

*Division Of Medicinal and Process Chemistry CSIR – Central Drug Research Institute, Lucknow U.P. India*

**P-9 “Green Synthesis and Biological Studies of 5-(Trifluoromethyl)-4,7-Dihydro [1,2,4] triazolo[1,5-a]Pyrimidine-6-Carboxamide Based Hybrid Molecules as *Plasmodium Falciparum* DHFR Inhibitors”**

Arvind N. Prajapati<sup>1</sup>, Shaffiqali Y. Saiyad<sup>1</sup>, Ritu B. Dixit<sup>1\*</sup>

<sup>1</sup>*Ashok & Rita Patel Institute of Integrated Studies and Research in Biotechnology and Allied Sciences, Affiliated to CVM University, Vallabh Vidyanagar-388120, Gujarat, India.*

**P-10 Ethanol Gas Sensing Properties of La doped  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles**

A.V.Kadu<sup>1\*</sup>, N.N.Gedam<sup>2</sup> and S.V.Jagtap<sup>3</sup>

<sup>1</sup>*Department of chemistry, Prof Ram Meghe college of Engineering and Management, Badnera-Amravati (M.S) India*

<sup>2</sup>*Department of chemistry, Mahatma Jyotiba Fule Arts, Commerce and Science College, Bhatkuli, Dist. Amravati (M.S) India*

<sup>3</sup>*Department of Physics, R.D.I.K.N.K.D. Badnera-Amravati (M.S) India*

**P-11 Bioactive compound of cinnamon and garlic guard chemotherapy-induced cachexia**

Ashwani Mittal<sup>†</sup>, Onkar Sharma, Kritika Sharma, Sanjeev Gupta, Anita Dua

*Skeletal Muscle Lab, Institute of Integrated & Honors Studies, Kurukshetra University, Kurukshetra, Haryana -136119, India*

**P-12 “Synthesis and Characterization of chalconyl ester homologous series with different lateral and terminal group”**

Bharat H. Mevada, U.C. Bhoya\*

*Chemical Research Laboratory, Department of Chemistry, Saurashtra University, Rajkot 360005*



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**P-13 Paclitaxel-BODIPY Carrier Free Heterodimeric Nano-Prodrug as versatile Nanoplatfom for Cancer Chemotherapy and Bioimaging.**

Tayde Deepak Prabhakar<sup>a, c</sup>, Sumit Kumar Pramanik<sup>a\*</sup>, Amitava Das<sup>b\*</sup>.

<sup>a</sup>CSIR - Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, Gujarat 364002;

<sup>b</sup>Department of Chemical Sciences and Centre for Advanced Functional Materials, Indian Institute of Science Education and Research, Kolkata, West Bengal, India.

<sup>c</sup>Academy of Scientific and Innovative Research (AcSIR), CSIR-Human Resource Development Centre, Ghaziabad, Uttar Pradesh 201 002, India

**P-14 "An unconventional synthesis and characterization of nitrogen and oxygen infused heterocyclic compounds with anticancer activity"**

Dharmesh K. Katariya, Ranjan C. Khunt\*, Manish K. Shah\*

Chemical Research Laboratory, Department of Chemistry, Saurashtra University Rajkot 360005

**P-15 ARGYROPHILIC NUCLEOLAR ORGANIZER REGIONS STAINING BY SILVER NITRATE FOR HPV DETECTION**

Riya Mashru<sup>1</sup>, Pruthvi Gohel<sup>2</sup>, Dhaval Parmar<sup>3\*</sup>

<sup>1</sup> Research Scholar, Microbiology Department, Atmiya University, Rajkot.

<sup>2</sup> Multi-Disciplinary Research Unit, Shri M. P. Shah Government Medical College, Jamnagar.

<sup>3\*</sup> Multi-Disciplinary Research Unit, Shri M. P. Shah Government Medical College, Jamnagar.

**P-16 Catalytic Enantioselective Synthesis of Aryl-Methyl Organophosphorus Compounds**

Arun Yadav, Dileep Kumar, Manish Kumar Mishra, Deeksha Chandra Bhushan Tripathi\*

Division Of Medicinal and Process Chemistry CSIR – Central Drug Research Institute, Lucknow U.P. India

**P-17 Rhodium-Catalyzed Regioselective C<sub>7</sub>Ar-Functionalization of Tryptophan with Quinones and its Late-Stage Peptide Exemplification**

Disha Tank,<sup>a</sup> Narendra Dinkar Kharat,<sup>a</sup> Kiran Bajaj,<sup>b\*</sup> Rajeev Sakhuja<sup>a\*</sup>

<sup>a</sup>Department of Chemistry, Birla Institute of Technology & Science, Pilani, Rajasthan 333031, India

<sup>b</sup>Department of Chemistry, Amity Institute of Applied Sciences, Amity University, Noida, Uttar Pradesh, India

**P-18 The Effect of Laterally Substituted Methoxy -OCH<sub>3</sub> Group on Mesomorphicity**

Gaurang. P. Makavana<sup>1</sup>, Jwalant j. Travadi<sup>2</sup>

<sup>1&2</sup>Chemistry Department, Kamani Science. and Prataprai Arts College, Amreli, Gujarat. India.

**P-19 New Directions in Diene Functionalization: Regioselective Hydroalkoxylation and Hydroxyperoxidation of 1-Aryl/Alkyl-1,3-dienes**

Gulenur N. Khatun and Rodney A. Fernandes\*

Department of Chemistry, Indian Institute of Technology Bombay, Powai Mumbai 400076, Maharashtra, India



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- P-20**      **Synthesis of thiazolidin-4-one bearing pyrimidine analogues by Microwave irradiation and their *in vitro* antimicrobial, antituberculosis, antimalarial and anti protozoal studies**  
Hetal I. Soni<sup>1\*</sup>, Navin B. Patel<sup>2</sup>  
<sup>1</sup>C. B. Patel Computer College & J. N. M. Patel Science College, Bharthana-Vesu, Surat-395 017, Gujarat, India.  
<sup>2</sup>Department of Chemistry, Veer Narmad South Gujarat University, Surat-395 007.
- P-21**      **Synthesis of novel Diclofenac N-Derivatives as Therapeutic Agents**  
<sup>a</sup>Hina.D. Jadav, Dr. Denish. J. Viradaiya<sup>\*</sup>  
<sup>a</sup>Department of Chemistry, Shri Govind Guru University
- P-22**      **Exploring the Antimicrobial Potential of *Cynodon dactylon*: Phytochemical Profiling and Efficacy Against Pathogenic Organisms**  
**Janki Joshi\***  
Dr. Archana Rana  
Department of Biosciences, Saurashtra University, Rajkot-360005
- P-23**      **Rapid analytical technique for determining pendimethalin and metribuzin in suspoemulsion formulation**  
Jayesh Dhalani<sup>\*</sup>, Rakesh Singh, Bhavin Dhaduk  
School of Science, RK University, Rajkot, Gujarat, India
- P-24**      **Synthesis of Pyrimido[4',5':3,4] pyrazolo[1,2-b]phthalazine-4,7,12-triones and their *In silico* Docking Studies**  
Jayesh Sarvaiya<sup>a</sup>, Dr. Paritosh Shukla<sup>a</sup>  
Department of Chemistry, Birla Institute & Science, Pilani, Rajasthan, 33301, India.
- P-25**      **Evaluation of JAK Inhibitor in Modulation of Astrocyte Expression in Scopolamine-induced Cognitive Impairment Model in Rats**  
Faldu Khushboo, Shah Jigna<sup>\*</sup>  
Department of Pharmacology, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat, India.
- P-26**      **Role of Probiotics and Pharmabiotics in Clinical Diseases**  
Kinjal Parmar<sup>1</sup>, Amishi Bhatt<sup>1</sup>, Dhyey Kothari<sup>2</sup> and Ramesh Kothari<sup>1</sup>  
<sup>1</sup>UGC-CAS Department of Biosciences, Saurashtra University, Rajkot, India <sup>2</sup>Government Medical College, Bhavnagar, Gujarat, India
- P-27**      **3D-QSAR Studies, Molecular Docking, Molecular Dynamic Simulation, and ADMET Proprieties of Novel *Pf*DHODH Enzyme as *Pf*DHODH Inhibitors for the Treatment of Malaria**  
Manmohan Sharma<sup>1</sup>, Vivek Vyas<sup>1</sup>, Marco L. Lolli<sup>2</sup>, Donatella Boschi<sup>2</sup>, Agnese Chiara Pippione<sup>2</sup>  
<sup>1</sup>Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad 382481, India.  
<sup>2</sup>Department of Science and Drug Technology, University of Turin (UniTo), via Pietro Giuria 9, 10125 Turin (Italy).



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**P-28 Antimycotic sensitivity evaluation and synthesis of 1,2,4-triazole containing pyrimidine analogous**

Meghana V. Panchal and Hetal I. Soni \*

*C.B. Patel Computer College & J.N.M. Patel Science College, New City Light Road, Bharthana (Vesu), Surat -395017*

**P-29 Phytochemical Characterization of Two Marketed Anti-urolithiatic Herbal Formulations**

Nagja Tripathi, Shreya Lungariya

*Department of Pharmacognosy, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat.*

**P-30 Synthesis and Characterization of Schiff Bases Containing Quinazolinones as Potent Biological Scaffolds**

Naimish Ramani<sup>1</sup>, Bonny Patel<sup>2</sup>

*<sup>1,2</sup> School of Science, RK University, Rajkot, Gujarat, India.*

**P-31 Synthesis, antimalarial and antiprotozoal evaluation of 1, 2, 4-triazole containing pyrimidine analogous**

Naveen Sahu and Hetal I. Soni \*

*C.B. Patel Computer College & J.N.M. Patel Science College, New City Light Road, Bharthana (Vesu), Surat -395017*

**P-32 Imidazolium-based Chemosensor for dual Detection of Al<sup>3+</sup> and As<sup>3+</sup>**

Nidhi<sup>a</sup>, Pragya<sup>a</sup>, Ronak Bhaskar<sup>b</sup> and Bharti Khungar<sup>a\*</sup>

*<sup>a</sup>Department of Chemistry, Birla Institute of Technology and Science Pilani, Pilani Campus, Pilani, Rajasthan, 333031, India*

*<sup>b</sup>Department of Chemistry, Birla Institute of Technology and Science, Pilani, K.K. Birla, Goa Campus, Zuari Nagar, Goa 403726, India*

**P-33 HIGH PERFORMANCE OF PALLADIUM DOPED MoO<sub>3</sub> FOR ADVANCE APPLICATION TOWARDS AMMONIA GAS SENSING**

N. N. Gedam<sup>\*1</sup>, A. V. Kadu<sup>2</sup>, S. V. Jagtap<sup>3</sup>

*<sup>1</sup> Department of Chemistry, M. J. F. Commerce, Science and V. R. Art's College, Bhatkuli, Dist. Amravati.*

*<sup>2</sup> Department of Chemistry, Prof. Ram Meghe College of Engineering and Management, Badnera, Amravati.*

*<sup>3</sup> Department of Physics, Bar. R.D.I.K. & N.K.D., Badnera, Amravati.*

**P-34 Design, Synthesis and Characterizations of Some New Series of Fused Pyrimidines for their Pharmacological Activity**

N. Verma and D. N. Singh\*

*Department of Chemistry, K. S. Saket PG College, Dr. R.M.L. Avadh University Ayodhya-224001, India.*

**P-35 Stability Indicating RP-HPLC Method for Assay of Flucloxacillin From Tablet Dosage Form**

Nrupesh Patel\*, Yugant Jain

*Department of Pharmaceutical Analysis, Institute of Pharmacy, Nirma University, Sarkhej-Gandhinagar Highway, Ahmedabad-382481, Gujarat, India*



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- P-36**      **Revolutionizing Agriculture with Nanotechnology: Rice-Based Silica Nanoparticles for the Remediation and Quantification of Toxic Heavy Metals in Potatoes**  
Meet Kumar Thakar, Pankaj Sharma \*  
*Department of Applied Chemistry, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara – 390 001, Gujarat, India*
- P-37**      **Biological and catalytic applications of the newly synthesised and characterized benzothiazole-based Pd (II) metal complex in the Suzuki reaction**  
Parth S. Unjiya, Manish K. Shah\*  
*Department of Chemistry, Saurashtra University, Rajkot-360005, Gujarat, India*
- P-38**      **Sonochemical synthesis and characterization of rod-like nano-sized Cobalt (III) complexes and their application as textile dyeing agents**  
Pooja M. Bhandari, Ranjan C. Khunt\*  
*Central Research Laboratory, Department of Chemistry, Saurashtra University, Rajkot-Gujarat*
- P-39**      **Marble Slurry Waste Material as Solid Support for Palladium-Catalysed Heck and Suzuki Reactions**  
Prabhat K Baroliya\* and Jaishri Chopra  
*Department of Chemistry, Mohanlal Sukhadia University, Udaipur-313001*
- P-40**      **“Synthesis and characterization of thiazole compounds as biologically active agent”**  
Priyank M. Shah, Ranjan C. Khunt\*  
*Department Of Chemistry, Saurashtra University, Rajkot*
- P-41**      **Multivariate Application of Post Synthetically Modified Co-Coordination Polymer Based on bis-pyridyldiamide.**  
Priyanka Bhardwaj<sup>[a]</sup>, Moyna Das<sup>[a]</sup> and Madhushree Sarkar\*<sup>[a]</sup>  
*Department of Chemistry, BITS Pilani, Pilani Campus, Rajasthan 333031, India.*
- P-42**      **AGGREGATION INDUCED EMISSION-BASED PRODRUG FOR TARGETED DRUG DELIVERY**  
Priyanka Patra, Sumit kumar Pramanik  
*AESD & CIF, CSIR-CSMCRI, Bhavnagar, Gujarat-364002*
- P-43**      **ARGYROPHILIC NUCLEOLAR ORGANIZER REGIONS STAINING BY SILVER NITRATE FOR HPV DETECTION**  
Riya Mashru<sup>1</sup>, Pruthvi Gohel<sup>2</sup>, Dhaval Parmar<sup>3\*</sup>  
<sup>1</sup> *Research Scholar, Microbiology Department, Atmiya University, Rajkot.*  
<sup>2</sup> *Multi-Disciplinary Research Unit, Shri M. P. Shah Government Medical College, Jamnagar.*  
<sup>3\*</sup> *Multi-Disciplinary Research Unit, Shri M. P. Shah Government Medical College, Jamnagar.*



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- P-44**      **"Synthesis and Characterization of Bromo-Terminated Azoester Derivatives: Mesophase Behavior and Comparative Study for Liquid Crystal Materials Design"**  
Pushprajsinh Zala, U.C.Bhoya\*  
*Chemical Research Laboratory, Department of Chemistry, Saurashtra University Rajkot 360005*
- P-45**      **Biogenic synthesis of Surface Engineered copper oxide nanoparticles using *Tridax procumbens* leaf extract and their biological activities**  
Ramhari Meena<sup>1</sup>, Nighat Fahmi\*<sup>1</sup>  
*<sup>1</sup>Department of Chemistry, University of Rajasthan, JLN Marg, Jaipur, Rajasthan, India-302004*
- P-46**      **Syntheses and biological evolution of some novel pyrrolo [2, 3-d]pyrimidine urea derivatives**  
Mr. Ranjitkumar Ravatbhai Pada<sup>1</sup>, \*, Dr. Jyotindra J. Bhatt<sup>1</sup>  
*<sup>1</sup>Department of Chemistry, Faculty Block "A", KSKV Kachchh University, Mundra Road, Bhuj - 370 001, Gujarat, INDIA*
- P-47**      **Effect of diverse chemically modified bis(pyrenyl) spacer group-di-imines on the photophysical properties.**  
Ritu Rani<sup>a</sup>, Vishakha Jaswal<sup>a</sup>, and Madhushree Sarkar<sup>a</sup>  
*Department of Chemistry, Birla Institute & Science, Pilani, Rajasthan, 333031, India.*
- P-48**      **ARGYROPHILIC NUCLEOLAR ORGANIZER REGIONS STAINING BY SILVER NITRATE FOR HPV DETECTION**  
Riya Mashru<sup>1</sup>, Pruthvi Gohel<sup>2</sup>, Dhaval Parmar<sup>3\*</sup>  
*<sup>1</sup>Research Scholar, Microbiology Department, Atmiya University, Rajkot.  
<sup>2</sup>Multi-Disciplinary Research Unit, Shri M. P. Shah Government Medical College, Jamnagar.  
<sup>3\*</sup>Multi-Disciplinary Research Unit, Shri M. P. Shah Government Medical College, Jamnagar.*
- P-49**      **Efficient Synthesis and Comprehensive Characterization of Oxomorpholine-Imidazole Derivatives: Investigating Remarkable Antimicrobial Efficacy**  
Sachin M. Sitapara<sup>1</sup>, Dr. Jignesh H. Pandya<sup>2\*</sup>  
*<sup>1</sup>Department of Chemistry, Government Science college, Veraval-362266 (Gujarat-India)  
<sup>2</sup>Department of Chemistry, D.K.V. Arts & Science college, Jamnagar-361310(Gujarat-India)*
- P-50**      **mIBG-Doxorubicin conjugate for neuroblastoma targeted chemotherapy: synthesis and in-vitro evaluation**  
Sahil Kumar,<sup>a</sup> Riddhi Pal,<sup>a</sup> Ananda G. Majumdar,<sup>a,b</sup> B. S. Patro,<sup>a,b\*</sup> D. Goswami<sup>a,b\*</sup>  
*<sup>a</sup>Bio-Organic Division, Bhabha Atomic Research Centre, Trombay, Mumbai, India-400094;  
<sup>b</sup>Homi Bhabha National Institute, Anushaktinagar, Mumbai, India-400094*



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**P-51 Cinnamaldehyde and its derivatives: Potential protective agents against oxidative-stress induced myotube atrophy using chemical, biological and computational analysis**

Sanjeev Gupta<sup>†</sup>, Prachi Gupta, Nirmaljeet Kaur, Anita Dua, Ashwani Mittal

*Skeletal Muscle Lab, Institute of Integrated & Honors Studies, Kurukshetra University, Kurukshetra, Haryana -136119, India*

**P-52 "Design, Synthesis, and Molecular Docking Analysis of Novel Benzo[4,5]imidazo[1,2-a]pyrimidine Hybrids Targeting Plasmodium falciparum DHFR: A Comprehensive *In Silico* and Biological Study"**

Shaffiqali Y. Saiyad, Arvind N. Prajapati, Ritu B. Dixit\*

*Ashok & Rita Patel Institute of Integrated Studies and Research in Biotechnology and Allied Sciences, Affiliated to Charutar Vidya Mandal University, Vallabh Vidyanagar-388120, Gujarat, India.*

**P-53 Computational Designing of Novel Inhibitors Targeting Dengue Virus RdRp: A Promising Avenue for Antiviral Drug Development**

Shailaja Mallya<sup>1</sup>, Raghuvir R Pissurlenkar<sup>2</sup>

<sup>1</sup>Department of Pharmacology

<sup>2</sup>Department of Pharmaceutical Chemistry

*Goa College of Pharmacy, 18<sup>th</sup> June Road, Panaji- Goa*

**P-54 Ultrasonic-Assisted 1, 3-Dipolar Cycloaddition Reaction for the Synthesis of Novel Spirooxindole Derivatives as Anti-cancer Agents**

Shivani, Tushar Mohanlal Boralkar, Tanmoy Tantra and Sandeep Chaudhary\*

*Laboratory of Bioactive Heterocycles and Catalysis (BHC lab), Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research-Raebareli, Bijnor-Sisendi Road, Near CRPF Base Camp, Sarojini Nagar, Lucknow-226002, India.*

**P-55 In vitro Antioxidant and Anticancer Activity of Hydro-methanolic and n-Hexane Extract of *Ocimum basilicum* L. Leaves: A Comparative Analysis**

Vaibhavi Srivastava<sup>1</sup>, Ann Maria Joseph<sup>1</sup>, Priyesh Kumar<sup>1</sup>, Khairah Ansari<sup>1</sup>, Krupali Trivedi<sup>1</sup>, Nilam Parmar<sup>2</sup>, Devendrasinh Jhala<sup>1\*</sup>

<sup>1</sup>Department of Zoology, Biomedical Technology, Human Genetics and Wildlife Biology & Conservation, University School of Sciences, Gujarat University, Ahmedabad-380009

<sup>2</sup>Department of Life Sciences, University School of Sciences, Gujarat University, Ahmedabad-380009

**P-56 Novel Pyrazole-Oxindole Conjugates with Cytotoxicity in Human Cancer Cells via Apoptosis.**

**Pravesh M. Jain<sup>1</sup>, Denisse A. Gutierrez<sup>2</sup>, Sujeet Kumar<sup>\*1,3</sup>, Renato J. Aguilera<sup>2</sup>, Subhas S. Karki<sup>1</sup>**

<sup>1</sup>Department of Pharmaceutical Chemistry, KLE College of Pharmacy (A Constituent unit of KLE Academy of Higher Education & Research-Belagavi), Rajajinagar, Bengaluru-560010, Karnataka, India.

<sup>2</sup>Cellular Characterization and Biorepository Core Facility, Border Biomedical Research Center, Department of Biological Sciences, College of Science, The University of Texas at El Paso, 500 West University Avenue, El Paso, TX 79968-0519 USA.

<sup>3</sup>Department of Pharmaceutical Chemistry, NITTE College of Pharmaceutical Sciences (A Constituent unit of NITTE Education Trust), Gollahalli, NMIT Campus, Yelahanka, Bengaluru-560064, Karnataka, India.





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- P-57**      **Trans-Palladium Dichloride Complex of Macrocyclic Organoselenium Ligand as Catalyst for Dehydroxymethylation of Dihydroxy Compounds**  
Sunil Kumar, and Hemant Joshi\*  
*ISC Laboratory, Department of Chemistry, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, NH-8, Bandarsindri, Ajmer, Rajasthan 305817, India*
- P-58**      **2-Phenylbenzo[d]imidazo[2,1-b] thiazoles as Potential Anticancer Agents: Design, Synthesis, Bioevaluation and *in-silico* studies**  
Tanmoy Tantra, Neha Rjendra Thakar, Shivani, Sandeep Chaudhary\*  
*Laboratory of Bioactive Heterocycles and Catalysis (BHC lab), Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research-Raebareli, Bijnor-Sisendi Road, Near CRPF Base Camp, Sarojini Nagar, Lucknow-226002.*
- P-59**      **Synthesis of Quinoline Derivatives Using Acceptorless (de)hydrogenation Strategy**  
Umang P. Patel, Manish K. Shah\*  
*Department of Chemistry, Saurashtra University, Rajkot-360005, Gujarat, India.*
- P-60**      **Rapid synthesis of highly functionalized novel asymmetric 1,4 dihydropyrimidines using glacial acetic acid as solvent**  
Madhuri V. Vaghamashi, Dr. Mehul L. Savaliya  
*Department of Chemistry, Atmiya University, Rajkot.*
- P-61**      **Synthesis and antimicrobial evaluation pyrrole and coumarin fused derivatives.**  
Dr. R.D.Bhambhani, Dr. A.J.Bavishi, Dr. H.D.Joshi  
<sup>1</sup>*Department of Chemistry, Harivandana College, Affiliated to Saurashtra University, Rajkot.*  
<sup>2</sup>*Christ College, Rajkot, Vidyaniketan, P.O.Box No.5, Rajkot-360005*
- P-62**      **Synthesis, characterizations, biological activity of Pd(II), Ni(II), Zn(II), Cu(II) metal complexes of quinazolinone Schiff-bases**  
Vaishali K. Rathod, Manish K. Shah\*  
*Department of Chemistry, Saurashtra University, Rajkot-360005, Gujarat, India*
- P-63**      **Distractive Impact of Lepidopteran Larvae Infestation on Kesar Mango (*Mangifera indica L.*): An Anatomical and Physiological Analysis**  
Vijay R. Parmar\*  
Corresponding author: Dr. Suhas J. Vyas  
*Department of Life Science, Bhakta Kavi Narsinh Mehta University, Junagadh, Gujarat, India-362001*
- P-64**      **Phytochemical Analysis and Medicinal Potential of *Punica granatum L.* Leaves: A Gas Chromatography-Mass Spectrometry Study**  
Vijaykumar R. Ram  
*Department of Chemistry, KSKV Kachchh University, Bhuj-Kachchh, Gujarat*



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- P-65**      **Design, synthesis and biological evaluation of Thieno[2,3-*d*] pyrimidine derivatives**  
<sup>1</sup>Vikunjana K. Akbari, <sup>2</sup>Navnit. J. Chothani, <sup>3</sup>Paresh. S. Patel and Keshav. C. Patel  
<sup>1</sup>Department of Chemistry, C.B. Patel Computer Science and J. N. M. Patel Science College, Bharthana, Surat  
<sup>2</sup>Department of Chemistry, Vanita Vishram Women's University, Vanita Vishram, Athwagate Surat-395 001, Gujarat  
<sup>3</sup>Department of Chemistry, Veer Narmad South Gujarat University, Surat-395 007, Gujarat (INDIA)
- P-66**      **SYNTHESIS, CHARACTERIZATION, BIOLOGICAL ACTIVITIES, AND MOLECULAR DOCKING STUDIES OF NOVEL BIS-SCHIFF BASES**  
Abhishek Munjapara, Dr. Subrata Patra\*  
Department of Chemistry, Faculty of Science, Marwadi University, Rajkot, Gujarat
- P-67**      **Stability Indicating UPLC method for Quantification of Famotidine from its pharmaceutical Dosage: Green Analytical Approach and Stress Study**  
Jenish Parekh<sup>b</sup>, Batuk Dabhi<sup>a</sup>, Hetal Jebaliya<sup>a\*</sup>, Subrata Patra<sup>b\*</sup>  
<sup>a</sup> National Facility for Drug Discovery Through NCE's Development and Instrumentation Support to small pharma Enterprises, Department of Chemistry, Saurashtra University Rajkot-360005, Gujarat, India  
<sup>b</sup> Department of Chemistry, Marwadi University, Rajkot-360-003, Gujarat, India
- P-68**      **A Quality By Design Approach For Bacoside Nanosuspension For Improved Solubility And Herbal Drug Registration: An Indian, US And EU Perspective**  
Priya Kakasaniya<sup>1</sup>, Harsh Ladolkar<sup>2</sup>, Jigna Vadalia<sup>2</sup>, Dr. Nasir Vadia<sup>1\*</sup>  
<sup>1</sup>Department of Pharmaceutical Science, Faculty of Health Science, Marwadi University, Rajkot- Morbi Highway, Rajkot- 360003, Gujarat  
<sup>2</sup>Department of Pharmaceutical Science, Saurashtra University, Rajkot- 360005, Gujarat
- P-69**      **Neuroprotective Role of Apremilast In Scopolamine & Lipopolysaccharide Induced Experimental Model Of Alzheimer's Disease**  
Falak Mehta, Arun Soni, Lalji Baldaniya\*  
Faculty of pharmacy, Marwadi University, Rajkot, Gujarat, India-360003
- P-70**      **Ameliorative effect of Curcumin in combination with probiotic (L.rhamnosus) in rotenone induced Parkinson's disease in Sprague Dawley rats.**  
Shreya Joshi, Arun Soni, Lalji Baladanyi  
Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, 360003, India.
- P-71**      **Formulation Optimization and Charactrization of Compression Coated Tablet of Budesonide for Colon Specific Drug Delivery**  
Sonu Subba<sup>1</sup> Sunil Chopda<sup>2</sup>, Ramesh Parmar\*<sup>1</sup>  
<sup>1</sup>Faculty of Pharmacy, Marwadi University, Rajkot-360003, Gujarat, India.  
<sup>2</sup>S J Thakkar Pharmacy College, Rajkot-360005, Gujarat, India.



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- P-72 Identification of Biomarkers for the sex determination in Date Palm (*Phoenix dactylifera L.*) Cultivars using ISSR Markers**  
\*Asmita Detroja, Munir Ibrahim, \*Ashok Kumar Bishoyi  
*Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, Gujarat, India.*
- P-73 Development of Green novel Nano catalyst for Catalytic degradation of dye in Water**  
Herish N. Ribadiya, Vinitkumar K Rathod, Meet R. Parmar, Vishal J. Mayani<sup>2</sup> and Suranjana V. Mayani<sup>\*1</sup>  
<sup>\*1</sup>*Department of Chemistry, Marwadi University, Rajkot-Morbi Road, P.O. Gauridad, Rajkot 360003, Gujarat, India*  
<sup>2</sup>*Hansgold ChemDiscovery Center (HCC), Hansgold ChemDiscoveries Pvt. Ltd. Rajkot, Gujarat, India*
- P-74 Synthesis and Application of Sustainable Strontium Ferrite Nanocomposite for fluoride removal in water**  
Revantkumar S. Gorfad, Jatin K. Rajani, Suranjana V. Mayani<sup>\*1</sup> And Vishal J. Mayani<sup>2</sup>  
<sup>\*1</sup>*Department of Chemistry, Marwadi University, Rajkot-Morbi Road, P.O. Gauridad, Rajkot 360003, Gujarat, India,*  
<sup>2</sup>*Hansgold ChemDiscovery Center (HCC), Hansgold ChemDiscoveries Pvt. Ltd. Rajkot, Gujarat, India*
- P-75 Screening and isolation of novel nattokinase-producing microorganisms from marine sources**  
\*Tirth Bhatt, Avani Bhimani, \*Ashok Kumar Bishoyi  
*Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, Gujrat, India.*
- P-76 Authentication of Medicinal Plants and Detection of Adulterants: A Molecular Approach Using ISSR Markers**  
\*Munir Ibrahim, Asmita Detroja, Ashok Kumar Bishoyi\*  
*Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, Gujarat, India.*
- P-77 Sustainable Copper and Zinc Bimetal-Immobilized SBA-15 Composite for Improved Wet Catalytic Oxidation of Dye Capacity**  
Hardvi Mehta<sup>1</sup>, Jay Malaviya<sup>1</sup> and Suranjana V. Mayani<sup>1\*</sup>  
<sup>1\*</sup>*Department of Chemistry, Marwadi University, Rajkot-Morbi Road, P.O. Gauridad, Rajkot 360003, Gujarat, India*
- P-78 Next Generation Diagnosis Techniques for the Accurate Diagnosis of Urinary Tract Infections**  
\*Avani Bhimani, Tirth Bhatt, \*Ashok Kumar Bishoyi  
*Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, Gujrat, India.*
- P-79 Synthesis and Biological evaluation of 1,2,3-triazole derivatives of Ranolazine**  
Riddham Hadavani, Bharvi Lakkad, Umang Pithadiya, Vicky Jain\*, Sabera Bijani\*  
*Department of Chemistry, Marwadi University, Rajkot, Gujarat-360005, India*



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- P-80**      **A Series of Dipeptide Derivatives Containing (S)-5-Oxopyrrolidine-2-carboxylic acid Conjugates: Design, Solid Phase Peptide Synthesis, in vitro Biological Evaluation, and Molecular Docking Studies**  
Naurin Lalani, Sunil Tiwari and Yashwantsinh Jadeja\*  
*Department of Chemistry, Marwadi University, Rajkot-360003(Gujarat), India*
- P-81**      **Document Requirement for Marketing Authorization Application of Generic Parenteral Products – A Comparison**  
Ms. Heli Patel, Dr. Mausami Vaghela  
*Department of Pharmaceutical Sciences, Faculty of Health Sciences, Marwadi University, Rajkot – 360005, Gujarat, India.*
- P-82**      **1,4-Dihydropyridines-Based Triazole Derivatives: In Silico and In Vitro Study on Green Synthesis and Anticancer Potential**  
Pooja Gupta, Vimal Parmar, Dr. Sabera Bijani, Dr Vicky Jain  
*Department of chemistry, Marwadi University, Rajkot Gujarat*
- P-83**      **Identification of Bio-Markers for Dengue Serotype Discrimination**  
Dimple Kothari<sup>1</sup>, Ashok Kumar Bishoyi, Niralee Patel\*  
*Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, India.*
- P-84**      **Assessment of Genetic Diversity in Date Palm Cultivars collected from different locations of Gujarat using SCoT marker**  
\*Jaykumar Koradiya, Asmita Detroja, \*Ashok Kumar Bishoyi  
*Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, Gujarat, India.*
- P-85**      **Triethyl amine catalyzed, thermal oxidopyrylium ion and [3+2] cycloaddition reaction for Synthesis of Oxa-bridged cyclic ethers**  
Abhaykumar Ram, Pravin Bhalerao\*  
*Department of Chemistry, Marwaadi University, Rajkot, Gujarat, India*
- P-86**      **HPLC profile of Organic acid secreted by various Phosphate solubilizing Groundnut nodule endophytes**  
Ms Rinku Manvani<sup>1</sup>, Mr Jenish Parekh<sup>2</sup>, Dr Mahendrapalsingh Rajput<sup>1</sup>  
*<sup>1</sup>Department of Microbiology, Faculty of Science, Marwadi University, <sup>2</sup>Department of Chemistry, Faculty of Science, Marwadi University*
- P-87**      **Design, Synthesis, Characterization and Biological Evaluation Study of Tetrazole Containing or N-Containing Heterocyclic Compounds**  
Dhaval Ghaghra and Subrata Patra\*  
*Department of Chemistry, Marwadi University, Rajkot, Gujarat, India*
- P-88**      **Synthesis and Characterization of Pyrrolopyridone Derivatives: Potential Drug Candidates**  
Nikunj Radadiya, Chirag Gajjar, Dr. Subrata Patra\*  
*Department of Chemistry, Marwadi University, Rajkot-360003, Gujarat, India*



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- P-89**      **Molybdovanadophosphoric acid supported kaolin hybrid catalyst for dye degradation in water: A review**  
Nidhi Upadhyay, Dhara Parmar and Suranjana V. Mayani.  
*Department of Chemistry, Marwadi University, Rajkot Morbi highway, Rajkot*
- P-90**      **Cur-cumin a therapy for covid -19**  
Krishi Tilara, Gopi Kotadiya, Shraddha Chudasama  
*Faculty of pharmacy, Marwadi University, Rajkot, Gujarat ,360003, India*
- P-91**      **HPTLC method for rapid chemical screening and simultaneous determination of major bioactive constituents of Butterfly pea**  
Khushbu Takodara<sup>1</sup>, Khushbu Soni<sup>1</sup>, Jaimini Agravat<sup>1</sup>, Narendra Gajbhiye<sup>2</sup>, Bharat Dholakiya<sup>3</sup>, Jayanti Makasana<sup>\*1</sup>  
<sup>1</sup>*Department of Chemistry, Marwadi University, Rajkot-Morbi Highway, Rajkot, Gujarat, India*  
<sup>2</sup>*Division of Organic Chemistry, ICAR-Directorate of Medicinal and Aromatic Plants Research, Anand, Gujarat, India*  
<sup>3</sup>*Applied Chemistry Department, S.V. National Institute of Technology, Surat, Gujarat, India*
- P-92**      **Rapid, diversity-focused method for producing 3-tetrahydropyrimidinyl coumarins using MCRA gentle, efficient, and practical synthetic method for producing unknown tetrahydropyrimidinyl substituted 3-coumarins.**  
Devashish Pandya  
*Marwadi University, Rajkot, India*
- P-93**      **One-pot synthesis and structural elucidation of barbiturate analogues**  
Divya Panchani<sup>1</sup>, Bhaveshkumar D Dhorajiya<sup>2</sup>, Jayanti Makasana<sup>\*1</sup>  
<sup>1</sup>*Department of Chemistry, Marwadi University, Rajkot-Morbi Highway, Rajkot- 360003, Gujarat, India*  
<sup>2</sup> *Department of Industrial Chemistry, V.P. & R.P.T.P. Science College, Vallabh Vidyanagar-388120, Gujarat, India*
- P-94**      **Development of assay method and forced degradation study of Multaq by RP-HPLC in Pharmaceutical Dosage Form**  
Darshan Vachhani, Mital Soni, Hetal Jabaliya\*  
*Department of Chemistry, Marwadi University, Rajkot, Gujarat, India*
- P-95**      **Development of the Bio Active Pyridine Based Hetero Cyclic Compounds for Medicinal Application.**  
Tejas Makadia<sup>1</sup> and Suranjana V. Mayani<sup>1\*</sup>  
*Department of Chemistry, Marwadi University, Rajkot, Gujarat, India*
- P-96**      **In-Silico molecular docking studies on drug molecules to treat the breast cancer**  
Dharmesh H Sur<sup>1\*</sup>, Pratik Dave<sup>1</sup>, Isha Gajjar<sup>1</sup>, Vicky Jain<sup>2</sup>, Kedar Joshi<sup>1</sup>  
<sup>1</sup> *Department of Chemical Engineering, Faculty of Technology, Marwadi University, Rajkot 360003*  
<sup>2</sup> *Faculty of Sciences, Marwadi University, Rajkot 360003*



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- P-97**      **Biomass Derived Green Solvents – A Review**  
Naeh Steven Manongi, Emmanuel Mtatilo Saimon, Bellisima Dunstan Chatumba, Kedar H.Joshi\*  
*Department of Chemical Engineering, Faculty of Diploma Studies, Marwadi University, Rajkot – 360003.*
- P-98**      **Mesomorphic Study of some chiral derivatives involving of 6-n-alkoxy-2-naphthoic acid**  
N. J. Chothani, Vikunjana K. Akbari, P. S. Patel and K. C. Patel  
*Department of Chemistry, Vanita Vishram Women's University, Vanita Vishram, Athwagate Surat-395 001, Gujarat*  
*Department of Chemistry, Veer Narmad South Gujarat University, Surat-395 007, Gujarat*
- P-99**      **Removal of Lead Ions from aqueous solutions using Bimetallic Oxide Impregnated Silicate Composites**  
Maryam Bagia<sup>1\*</sup>  
*<sup>1</sup>Department of Chemistry, School of Science and Technology, Vanita Vishram Women's University, Surat-395001, Gujarat, India*
- P-100**     **Novel Dihydropyrimidinone Derivatives as Potent Drugs that inhibit of P-Glycoprotein**  
Aayushi Ashish Navre  
*Marwadi University, Rajkot, India*
- P-101**     **Design, Synthesis and Biological Evaluation of Piperazine-arylamide Derivatives as Antitubercular Agents.**  
Vadodariya Palak Kanjibhai, Ms. Divya Teli  
*Marwadi University, Rajkot, India*