Sandeep Chaudhary Ph.D, FICS, MRSC

Office Address:

Associate Professor, Department of Medicinal Chemistry
Laboratory of Bioactive Heterocycles and Catalysis (BHC lab)
National Institute of Pharmaceutical Education and Research Raebareli (NIPER-R)
***(An Institute of National Importance**, Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Government of India)*
Bijnor-Sisendi Road, Near CRPF Base Camp, Sarojini Nagar, Lucknow, Uttar Pradesh-226002, INDIA

Additional Positions:

Honorary Professor, Perm State University, Russia (2023- Present)
Member, Royal Society of Chemistry (2025-Present)
Member, Indian JSPS Alumni Association (2012- Present)
F.I.C.S, Fellow of Indian Chemical Society (2014-Present)

Editorial Board Memberships:

***Scientific Reports** (2025-Present)*
Arkivoc (2012- Present)
Current Organocatalysis (2020- Present)
Current Indian Science (2021- Present)
Current Drug Discovery Technologies (2024-Present)

Previous Assignments:

Former Dean (2022-2025)
Former HoD (2021-2025)

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Work Experience

27 Sep, 2023 – Present	***Honorary Professor***, Perm State University, Russia.
04 Jun, 2021 – Present	***Associate Professor***, Department of Medicinal Chemistry, NIPER-Raebareli, Lucknow, Uttar Pradesh, India.
22 Feb, 2022 – 01 May, 2025	***Dean***, NIPER-Raebareli, Lucknow, Uttar Pradesh, India.
04 Aug, 2021 – 14 Sep, 2025	***Head of the Department** (HoD)*, Department of Medicinal Chemistry, NIPER-Raebareli, Lucknow, Uttar Pradesh, India.
11 Feb, 2019 – 03 June, 2021	***Assistant Professor** Grade I*, Department of Chemistry, MNIT Jaipur, India.
03 Oct, 2012 – 10 Feb, 2019	***Assistant Professor** Grade II*, Department of Chemistry, MNIT Jaipur, India.
Aug, 2013 – Aug, 2015	***Adjunct Faculty***, Materials Research Centre, MNIT Jaipur, Rajasthan, India.
Nov, 2010 – Sep, 2012	***JSPS Postdoctoral Fellow*****,** *MCRF-Institute of Microbial Chemistry*, Tokyo, JAPAN. (Advisor: **Prof. Dr. Masakatsu Shibasaki,** Emeritus Professor, University of Tokyo & University of Hokkaido)
Aug, 2009 – Oct, 2010	***Postdoctoral Fellow** (NIH)***,** *The City University of New York at Hunter College*, New York, USA. (Advisor: **Prof. Wayne W. Harding**)
Jan, 2008 – July, 2009	***Postdoctoral Fellow** (NCRR-NIH)***,** *The City University of New York at Hunter College*, New York, USA. (Advisor: **Prof. Wayne W. Harding**)

Education

Feb, 2002- Aug, 2007 **Ph.D** from Division of Medicinal & Process Chemistry, CSIR-CDRI Lucknow [Affiliated to *Jawaharlal Nehru University* (JNU), New Delhi]; India. (Advisor: **Prof. Dr. Chandan Singh**)

2002-2003	**Pre-PhD** Course work (2 Semester) on Organic & Medicinal Chemistry, conducted jointly by JNU, New Delhi & CDRI, Lucknow.
1997-1999	**M.Sc** Chemistry (Specialization in Organic Chemistry), *DDU Gorakhpur University*, India.
1994-1997	**B.Sc** (Chemistry, Botany & Zoology), St. Andrew's College (*DDU Gorakhpur University)*, India.

Academic and Professional Awards

Award	University/Research Organization /Funding Sponsor	Year
JSPS Bridge Fellowship	Indian JSPS Alumni Association (IJAA) and Japan Society for the Promotion of Science (JSPS) Japan.	**2026**
Gyanoday Puraskar	NIPER-Raebareli	**2026**
Member of The Royal Society of Chemistry (MRSC)	Royal Society of Chemistry (2025)	**2025**
Honorary Professor	Perm State University, Russia	**2023**
Letter of Appreciation	Japan Information Centre, Embassy of Japan, MEXT Research Fellowships, New Delhi	**2020-2024**
AD Scientific Index Ranking	World Scientist and University Ranking	**2021-2024**
"Certificate of Reviewing" by Journals- Bioorganic Chemistry, Journal of Molecular Structure	Elsevier, Amsterdam, The Netherlands	**2019**
VIFA 2016 Outstanding Faculty Award	Venus International Foundation, Chennai	**2016**
BMCL Certificate of Outstanding Contribution in Reviewing	Elsevier, Amsterdam, The Netherlands	**2015, 2017**
BMCL Certificate of Reviewing	Elsevier, Amsterdam, The Netherlands	**2015, 2017**
Fellow of Indian Chemical Society	Indian Chemical Society, Kolkata	**2014-Present**
DST-SERB Young Scientist Award	Department of Science and Technology, Ministry of HRDG, New Delhi	**2014**
Certificate of Appreciation	*American Chemical Society, U.S.A*	**2013**
2012 Top 10 Best Reviewer award for "*Bioorganic and Medicinal Chemistry Letters*" Journal	Elsevier B.V. Registered Office, Amsterdam, The Netherlands & BMCL Regional Journal Office, Tokyo, Japan	**2012**
JSPS Postdoctoral Fellowship	*Japan Society for the Promotion of Science, Japan* Host Institute: *Institute of Microbial Chemistry, Microbial Chemistry Research Foundation (IMC-MCRF), Tokyo, Japan*	**2010 – 2012**
Postdoctoral Fellowship (NIH)	*The City University of New York at Hunter College, New York, U.S.A* Funding agency: *National Institute of Drug Abuse (NIDA), National Institute of Health (NIH), U.S.A*	**2009-2010**
Postdoctoral Fellowship (NCRR-NIH)	*The City University of New York at Hunter College, New York, U.S.A* Funding agency: *National Centre for Research Resources (NCRR), National Institute of Health (NIH), U.S.A*	**2008-2009**
CSIR S.R.F	Council of Scientific & Industrial Research, New Delhi, India	Jul, **2005**
CSIR J.R.F	Council of Scientific & Industrial Research, New Delhi, India	Jul, **2003**
CSIR-NET (Lectureship) (3 times Qualified)	CSIR-UGC, New Delhi, India	Jun, **2002** Dec, **2001** Jun, **2001**
GATE	Six old IIT's & IISc, Bangalore, India	Apr, **2002**
CDRI PGRT	Ministry of Health (MOH), New Delhi, India	Feb, **2002**
ASRB NET Certificate	Agricultural Scientist Recruitment Board, New Delhi, India	Oct, **2001**
Research Entrance Test	DDU Gorakhpur University, India	Mar, **2001**

PROFESSIONAL INTERNATIONAL / NATIONAL MEMBERSHIP:

- **Selection Committee Member** (Life Science-Biomedical Sciences) DST INSPIRE FACULTY FELLOWS under INSPIRE Faculty Fellowship component of Inspire Scheme, DST, GOI **2024-2026**
- **Selection Committee Member** (Chemical Sciences) DST INSPIRE FACULTY FELLOWS under INSPIRE Faculty Fellowship component of Inspire Scheme, DST, GOI **2024-2026**
- **Selection Committee Member (Chemistry)**, MEXT Research Fellowship **2020**, **2021**, **2022**, **2023**, **2024**, and **2025** Embassy of Japan, Government of Japan.
- PhD examiner for various national and international universities.
- Special invitees as Resource person in various DST, SERB, UGC sponsored conferences, workshops and symposiums.
- Member (**2023**-Present) Board of Studies, Madan Mohan Malviya University of Technology, Gorakhpur.
- Subject Expert in the Inspection team for Pharmacy Course (B.Pharm, M.Pharm, Pharm. D, Pharm. D (PB) of Devbhoomi Institute of Education Science and Technology, Dehradun for Session 2023-24 affiliated with Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun.
- **French Grant Reviewer Committee Member,** French National Research Agency (ANR), **2021** Generic Call for Proposal (AAPG2021), France.
- **SERB Grant Reviewer,** SERB, **2023, 2024, 2025**
- **DBT Grant Reviewer**, DBT, **2024-25, 2025-26**
- **UPCST Grant Reviewer 2025-26, 2026-27**

Achievements in Nutshell

Sponsored Projects Ongoing = 01; **Applied** = 04	**Sponsored Projects Completed** = 16	**Projects as Host Researcher** = 04
Total List of Publications in SCI journals = ~110 [h-index: 27, i10-index: 60, Citation: 2085]	**Invited Talks / Plenary lecture/ Chaired Session** = 80	**Conferences / Workshops / Invited lectures organized/ Attended** = 06
Patents = 06 [02 patents in process] **Book Chapter** = 12	**International Conferences** = 21 **National / International Collaborations:** 22	**International/ National Conferences with proceedings** = 72
Teaching Experience: ~14 years **Research Experience:** 14 years as Asst. / Asso. Prof. 4 years 9 months as Postdoc **Total Post-Ph.D Working Experience** = >18.5 years	MOU Signed between MNIT Jaipur and PGNIU, Perm, Russia Foreign Expert in International Project funded by the Ministry of Education and Science, Perm, Russia	**Postdoc Supervision: 04** **Ph.D Supervision: 14** (**09** completed & **06** ongoing) **PG Project Supervision:** Completed (**54** Students) Ongoing (**11** Students)

Research Areas

- **Organo-catalyzed C-H bond activation / Transition metal-catalyzed C—C & C—N bond formation**: Exploration with special emphasis by the use of cheaper transition metals; design and development of new metal-ligand catalyst systems and their investigations in direct C-H bond activation reactions; Investigation of cross Dehydrogenative coupling, hydroarylations, Cyclization/Annulation and addition reactions via development of novel metal-ligand catalytic systems.
- **Medicinal Chemistry, Drug Discovery & Process Development**: Mechanism/target/structure-based Drug Design & Drug Discovery, Scaffold Hopping, lead generation and lead optimization; Drug Design and Structure-Activity Relationship (SAR) study of new bioactive molecules/NCE's [Antimalarials, Antitubercular, Anti-infective, Anticancer]; Mechanism/target/structure-based drug design for neurodegenerative disorders.
- **Green chemistry:** Application of green organic synthetic transformations following 10 principals of Green Chemistry.
- **Development of New Synthetic Methodologies & its application in the Total synthesis of biologically active Natural Products/Drugs/Therapeutics.**
- **Asymmetric catalysis / Synthesis:** Development of catalytic asymmetric reactions, Design and development of new metallo-catalyst and organo-catalysts, development of direct catalytic asymmetric C-C bond-forming transformations.

Teaching Experience (~ > 14 years)

At NIPER-Raebareli

- **M.Pharm level:** MC 620 Logics in Organic Synthesis-II; MC 511 Spectral Analysis; MC 520 Logic in Organic Synthesis-1; MC 650 Stereochemistry and Drug Action; GE 511 and GE 611: Seminar; LG 510 and LG 610: Laboratory experience; PA 510 Topics in Pharmaceutical Analysis; PA 610 Pharmacopoeial Methods of Analysis; TH 598 Synopsis; TH 599 Presentation; TH 698 Thesis; TH 699 Defense of Thesis.
- **Ph.D level:** MC 810 Principle of Peptide Chemistry; MC 710 Stereoselective and Stereospecific synthesis; MC 730 - Organometallic and Sustainable Chemistry in the Synthesis of Pharmaceuticals.

At MNIT Jaipur

- **At UG level: CYT 101** Engineering Chemistry (Theory, Tutorial & Practical's)
- **At PG (M.Sc 1st, 2nd, 3rd and 4th Semester) Level:**
- **CYT 513** Organic Chemistry **CYT 632** Organic Synthesis **CYT 635** Bioorganic Synthesis
- **CYT 601** Bio-inorganic Chemistry **CYT 611** Stereochemistry, structure & reaction mechanism of Organic compounds
- **CYT 514** Analytical Chemistry **CYT 638** Heterocyclic Chemistry **CYT 643** Pharmaceutical Chemistry
- **CYP604** Chemistry Practicals **CYP614** Organic Chemistry Practicals **CYT 603** Analytical Chemistry

Sponsored Projects Ongoing

1. **UPCST Grant (2025-2028).**
   Funding Agency: UPCST (2025-2028); Total Sanctioned Amount: Rs. 14,86,000/-
   Project Title: Exploration of multi-targeted Novel Aza-/Thia-heterocycles as selective Acetylcholinesterase (AChE) and β-Secretase (BACE1) Inhibitors: A systematic Investigation towards the development of Anti-Alzheimer's agents.

Projects Completed as PI

2. **ICMR Grant (Adhoc) in collaboration with AIIMS New Delhi (2022-2025).**
   Funding Agency: ICMR (2022-2025); Total Sanctioned Amount: Rs. 88,98,000/- **NIPER-R Share:** ~12.50 lakhs
   Project Title: Discovering the anti-inflammatory effects of novel Toll-like receptor signaling inhibitors on rheumatoid arthritis mononuclear cells and synovial fibroblasts: An in vitro study to identify TLR signaling inhibition as future potential strategy to control inflammation in rheumatoid arthritis.
3. **Core Research Grant (CRG) in collaboration with AIIMS New Delhi (2020-2024).**
   Funding Agency: SERB (2020-2024); Total Sanctioned Amount: Rs. 67,81,480/- **NIPER-R Share:** 5.225 lakhs
   Project Title: Exploring the immunomodulatory activities of novel Toll-like receptor-signaling inhibitors in peripheral blood mononuclear cells from lupus patients: A study to identify TLRs as drug targets for lupus.
4. **Indo-Russian International Project**
   Funding Agency: Department of Science and Education, Perm, Russia Federation (2019-2022); Sanctioned Amount: 45 lakhs
   Project Title: Nitrogen- and Oxygen- containing heterocycles in the synthesis of drugs - from research to practice.
5. **FDCT Indo-Macao International Project (in collaboration with Macao University of Science and Technology (MUST), Macao, China)**
   Funding Agency: FDCT (2020-2021); Total Sanctioned Amount: 4,95,000 MOP (~ Rs. 45,82,764/-)
   Project Title: Investigation of Ozonide analogs for overcoming drug resistance in cancer and study of their mechanism of action.
6. **DST-NRF Indo-South Africa Joint Research Project**
   Funding Agency: DST (2016-2019); Sanctioned Amount: 33.36 lakhs
   Project Title: Development of innovative Indigenous Knowledge System (IKS)-based new cosmetic raw material: Isolation, extraction and chemical profiling of melanin biosynthesis pathways-based natural compounds from Indian and South-African medicinal plants.
7. **DST-ARRS Indo-Slovenian Joint Research Project**
   Funding Agency: DST (2015-2018); Sanctioned Amount: 14.5 lakhs
   Project Title: Exploring Antimalarial Peroxides from Bench-side to Bedside: Synthesis, Chemistry, Antimalarial Assessment and SAR studies of Novel functionalized 1, 2, 4-Trioxanes and 1, 2, 4, 5-Tetraoxanes against Multi-drug-Resistant Malaria.
8. **DST-RFBR Indo-Russian Joint Research Project**
   Funding Agency: DST (2014-2016); Sanctioned Amount: 26.236 lakhs

Project Title: Exploring nitrogen-based heterocycles from bench-side to bedside: Synthesis, chemistry, stereo-chemical assignment, structure-activity relationship studies and biological evaluation.

9. **CSIR Research Grant**
   Funding Agency: CSIR (2014-2017); Sanctioned Amount: 24.75 lakhs
   Project Title: Strategic investigation of organo-catalyzed direct arylation of arenes and hetero-arenes *via* sp^2 C-H bond activation: Application to an efficient synthesis of bioactive heterocycles.
10. **DST-SERB Start-up Research Grant (Young Scientist)**
    Funding Agency: SERB-DST (2014-2017); Sanctioned Amount: 25 lakhs
    Project Title: Exploring non-opioid analgesics from bench-side to bedside: An efficient, cost-effective, asymmetric synthesis and SAR study of new non-opioid anti-pain lead compound, Conolidine.
11. **Organizing International Conference - "Current Challenges in Drug Discovery Research (CCDDR 2015)"**
    Funding Agency: SERB (23^{rd} Nov- 25^{th} Nov, 2015); Sanctioned Amount: 0.75 lakh
12. **Seed Grant** (**2013-2016**)
    Funding Agency: MNIT Jaipur; Sanctioned Amount: 16 lakhs
    Project Title: Chemo- and regio-selective transition metal-catalyzed asymmetric hydroarylation of methylenecyclobutanes and methylenecyclopentanes.

Projects Completed as Co-PI

13. **TEQIP III "Collaborative Research Scheme (CRS)" Scheme Project with GEC, Jhalawar, Rajasthan**
    Funding Agency: NPIU, TEQIP III, New Delhi under MHRD; Sanctioned Amount: 23.80 lakhs
    Project Title: Strategic Investigation of Organocatalyzed Direct sp^2 C-H Arylation methodology on Antimalarial lead Cassiarin F Alkaloids: A Potential Chemotherapeutic approach towards Antimalarial Drug Development.
14. **TEQIP III "Collaborative Research Scheme (CRS)" Scheme Project with GWEC, Ajmer, Rajasthan**
    Funding Agency: NPIU, TEQIP III, New Delhi under MHRD; Sanctioned Amount: 18.30 lakhs
    Project Title: Small Molecule Fluorescent Probes for amyloid-β for the detection of Alzheimer's disease.

Sponsored Projects completed as Host Researcher

15. **SERB-DST Young Scientist Scheme; Sanctioned Amount:** 33.17 lakhs
    Funding Agency: SERB-DST (2016-2017)
    Project Title: Synthesis of hetero-substituted amino acids *via* C (sp^3)-H functionalization and its applications.
16. **SERB National Postdoctoral Fellowship; Sanctioned Amount:** 19.20 lakhs
    Funding Agency: SERB-DST (2016-2018)
    Project Title: Strategic Investigation of Novel Pincer-Based metal-catalyzed sp^2 and sp^3 C-H bond activation reactions: Application towards the synthesis of Novel Bioheterocycles.
17. **CSIR-RA (Direct)**
    Funding Agency: CSIR (2017-2020)
    Project Title: Design and synthesis of responsive cholesteryl-lipoic acid conjugates for drug transport to resistant cancer cell lines.

List of Publications in Peer-reviewed Journals (H index =27, i10 index 60, Total citations = 2072)

1. **Chaudhary, S.***; Yadav, D. K.; Chaturvedi, V.* "*Identification of Novel 1,2,4-Trioxolanes (Ozonides) Derived from Artemisinin as a New Class of Antitubercular Agents: Synthesis, in vitro/in vivo screening, cytotoxicity, structure-activity relationship and molecular docking studies*", *Eur. J. Med. Chem.*, **2026**, (Under review) **(I.F = 7.3)**
2. Mahajan, A.T.; Sahu, N. K.; **Chaudhary, S.*** "*Free-Radical Scavenging Bioactive Heterocycles: Deciphering Antioxidant Potential for Better Health*" *Current Pharmaceutical Design*, **2026** (Under Review).
3. Sarkar, E.;‡ Tantra, T.;‡ Misra, A.; Mohan, V.; Tripathi, P.; **Chaudhary, S.*** "*Diabetes Redefined: Exploring Hidden Variants and Therapeutic Innovations*" *ChemBioChem,* **2026**, (Under review). [DOI:] (**I.F.** = 4.7]
4. Nandini, Rathod. A. K.; **Chaudhary, S.*** (**2025**) "*Earth-Abundant Metals in C–H Bond Activation: Sustainable Approaches and Mechanistic Insights with Iron, Cobalt, and Nickel Catalysis" Top. Curr. Chem.*, **2026** (Under review).
5. Sen, J.; Shivani; **Chaudhary, S.*** "*Pd-catalyzed, $K_2S_2O_8$-promoted, Chelation-assisted, Regioselective Direct ortho–Nitration of 1-Aryl-1H-Indazoles via C–H Bond Activation: Access to Indazole-based Anticancer Agents*" *J. Org. Chem.* **2026**, (Under review). [DOI: .....] (**I.F.** = **3.6**)
6. Shivani; Sen, J.; **Chaudhary, S.*** "*Pd-catalyzed, Oxidant-promoted, Regioselective C(sp^2)-H/C(sp^2)-H Cross-Dehydrogenative Coupling for Direct ortho-alkoxylation of 1-Aryl-1H-indazoles via C-H Bond Activation*" *Org. Biomol. Chem.* **2026**, ……. [DOI: .....] (**I.F.** = **2.8**)

7. Yadav, R. K.; Sen, J.; **Chaudhary, S.*** "*N-Heterocyclic Carbene Catalyzed Deoxygenative α-Benzylation of Ketones via C($_{sp^3}$)-H Bond Activation*" *Current Organocatalysis*, **2026**. (Under review) (**I.F = 1.0**)
8. Rahaman, A. T A.;† Tantra, T.;† Singh, P.;† Nandini.; Singh, Y.; Sen, J.; Datusalia, A. K.;* **Chaudhary, S.*** "*Novel Substituted O-Benzylated mono-/tris-arylated Pyrazoles as Selective Monoamine Oxidase-B Inhibitors: Synthesis, Bioevaluation, SAR and In Silico Studies*" *J. Mol. Struct.*, **2026** (Under review)
9. Jaiswal, S.K.; Yadav, R.K.; Dang, Q. L.; Mishra, D. K.; Sharma, K.; Shahin. R.; Mishra, S.; Singh, C.; **Chaudhary, S.**; Baeg, J. O.* "*Designing porphyrin-based covalent triazine framework polymer composites with Cp*Rh catalytic sites for solar-driven CO_2 conversion and oxidation reactions*" *Reactive and Functional Polymers*, **2026**, 227, 106849. [DOI: https://doi.org/10.1016/j.reactfunctpolym.2026.106849] (**I.F = 5.4**)
10. Sharma, R.; Mahajan A. T.; Shrivastava, V.; Idrisi, F.B.Z.H.; **Chaudhary, S.*** "*Fused 1H-/2H-Indazoles as Bioactive Privileged Scaffolds: Synthetic Strategies and Pharmaceutical Applications*" *Curr. Drug. Discovery Technologies.*, **2026**, [DOI: 10.2174/0115701638437454260321220944] (**I.F = 2.4**)
11. Yadav, R. K.; Atpadkar, P. P.;# Tantra, T.;# Sharma, R.; Singh, Y.; Kaundal, R. K.; **Chaudhary, S.*** "*Discovery of 2-Substituted-5H-imidazo[2,1-b][1,3]thiazin-5-ones as Cytotoxic Synthon: Green Synthesis, Photophysical Characterization, Bioevaluation, in Silico and DFT Studies*" *J. Mol. Struct.*, **2026**, *1372*, 146654. [DOI: 10.1016/j.molstruc.2026.146654] (**I.F = 4.9**)
12. Shivani; Sharma, K.; **Chaudhary, S.*** "*Green and Sustainable Approaches towards Synthesis of Anticancer Bioheterocycles via Microwave Irradiations*" *Bioorg. Chem.* **2026**, *176*, 109879. [DOI:https://doi.org/10.1016/j.bioorg.2026.109879] (**I.F. = 5.1**)
13. Mishra, S.; Yadav, R.K.; Singh, C.; Shahin, R.; Sharma, K.; Mishra, V.K.; Jaiswal, S.K.; **Chaudhary, S.**; Tantra, T.; Baeg, J.-O. "*Micellar-Colloidal Iron Oxyhydroxide-Integrated Hybrid-Composites Photocatalysts for Orthogonal Rhodium/Cobalt-Mediated NAD$^+$/NADH Cycling and Mediator-Free Boronic Acid Hydroxylation*" *New. J. Chem.,* **2026**, (**Accepted**). [DOI: https://doi.org/10.1039/D5NJ04983K] (**I.F. = 2.6**]
14. Yadav, A.; Yadav, R. K.; Yadav, A.; Sharma, K.; Shahin, R.; Mishra, S.; **Chaudhary, S.**; Baeg, J. -O. "*Solar-Driven Artificial Photosynthesis: Solar-Active D–π–A COFs Photocatalyst Using Cobalt Complex for CO2 Fixation and Difluoroalkylation via HAT Pathways*" *Chemistry - A European Journal*, **2026**, *32(25)*, e71014. [DOI: https://doi.org/10.1002/chem.71014] (**I.F. = 3.6**)
15. Sen, J.; Sharma, R.; Mahajan, A. T.; Rahaman, A. T A.; Sahu, S. T.; Novikov, A. S. **Chaudhary, S.*** "*Regioselective direct synthesis of mono- and bis-substituted benzimidazoles via base-switchable aerobic N-heterocyclic carbene organocatalysis*" *Catal. Sci. Technol..*, **2026**, *16*, 3366-3377. [DOI: https://doi.org/10.1039/D6CY00036C] (**I.F. = 4.0**)
16. Nandini and **Chaudhary, S.*** "*Earth-Abundant Transition Metals Catalyzed Alkylation, Alkenylation, and Alkynylation of Arenes via Cross Dehydrogenative Coupling: Synthetic Strategies and Mechanistic Pathways*" *Top. Curr. Chem.*, **2026**, *384*(*8*), … [DOI: https://doi.org/10.1007/s41061-026-00540-4] (**I.F = 10.9**)
17. Ambatwar, A.; Chandrakar, L.; Ghosh, S.; **Chaudhary, S.*** Khatik, G. L.* "*Exploration and Mechanistic Study of Ni(II)-catalyzed Biginelli Reaction for Regio- and Chemo-Selective Synthesis of Diverse 4H-Pyrimido[2,1-b]benzothiazoles*" *ChemistrySelect*, **2025**, (Accepted). [**DOI:** 10.1002/slct.202504278] (I.F = **3.1**)
18. Rai, A.; Yadav, R. K.; Gole, V. L.; Shahin, R.; Mishra, S.; Sharma, K.; Rahaman A. T A,; **Chaudhary, S.**; Baeg, J. -O. "A *Photosensitive Conjugated Pyromellitic-Based Covalent Organic Framework Composite for Visible-Light-Driven NADPH Cofactor Regeneration and Aerobic Oxidation in Green Photocatalytic Applications*" *New J. Chem.*, **2025**, *49*, 17951- 17958 [DOI: https://doi.org/10.1039/D5NJ02932E] (**I.F = 2.5**)
19. Rahaman, A. T. A.;‡ Nandini;‡ Tantra, T.; **Chaudhary, S.*** "*Natural-Product-Inspired Potent Anticancer Congeners: Chronological Advancements, Structure-Activity Relationship (SAR) Studies and Future Perspectives*" *Bioorg. Med. Chem.*, **2025** , 131, 118392. [DOI: https://doi.org/10.1016/j.bmc.2025.118392] (**I.F = 3.5**)
20. Shyamlal, B. R. K.; Mahajan, A.T.; Kumar, V.; Gupta, A.; Ronin, R. S.; Mathur, M.; Sen, J.; **Chaudhary, S.*** *"N-Arylsulphonated C-Homoaporphine Analogues as a New Class of Antiplatelet and Antimicrobial Agents: Synthesis, Bioevaluation, Structure-Activity Relationship and in silico studies" ACS Med. Chem. Lett.* **2025**, *16*, 1, 116-125. DOI: https://doi.org/10.1021/acsmedchemlett.4c00491 **(I.F = 3.9)**
21. Shivani; Mahajan, A.T.; **Chaudhary, S.*** "*Emerging Trends in Quinoxaline-based Analogs as Protein Kinase Inhibitors: Structural Developments and SAR Insights*" *ChemMedChem.* **2025**, *20(4)*, e202400592, 1-21. DOI: doi.org/10.1002/cmdc.202400592 **(I.F = 3.4)**
22. Tantra, T.; Rahaman, A.T.A.; Nandini.; **Chaudhary, S.*** "*Therapeutic Role of NLRP3 Inflammasome Inhibitors against Alzheimer's Disease*" *Bioorg. Chem.* **2024**, 153, 107912. DOI: https://doi.org/10.1016/j.bioorg.2024.107912. **(I.F = 5.1)**

23. Shivani; Rahaman, A.T.A.; **Chaudhary, S.*** "*Targeting Cancer using Scaffold-Hopping Approaches: Illuminating SAR to Improve Drug Design*" *Drug Discov. Today*, **2024**, 29(9), 1-16. DOI: https://doi.org/10.1016/j.drudis.2024.104115 **(I.F = 8.7)**
24. Mahajan, A.T.; Shivani; Datusalia, A.K.; Coluccini, C.*; Coghi, P.*; **Chaudhary, S.*** "*Pyrazolo[1,5-a]pyrimidine as a Prominent Framework for Tropomyosin Receptor Kinase (Trk) Inhibitors— Synthetic Strategies and SAR Insights*" *Molecules*, **2024**, *29*, 3560. DOI: https://doi.org/10.3390/molecules29153560 **(I.F = 5.1)**
25. Dubey, N.; Yadav, R. K.;* Mishra, S.; Shahin, R.; Singh, S.; Dwivedi, D. K.; **Chaudhary**, **S**.; Gupta, N. K.; Baeg, J.-O.;* "*Aerobic Acetalization of Ethylene Glycol by Newly Designed Highly Efficient Soft NiO@B@GCN Nanocubes Catalyst*" *Catal Lett*, **2024**, *154*, 4422-4431. DOI: [https://doi.org/10.1007/s10562-024-04694-y] (IF = **2.4**)
26. Sharma, R.;† Sharma, R.;† Yadav, L.; Sahu, N. K.; Mathur, M.; Yadav, D. K.; Pratap, R.; Abuyousef, F.; Ippagunta, S. K.; Saleh, N.;* Coghi, P.;* **Chaudhary, S.*** "*Chemo-/Regio-Selective Ultrasound-Assisted Synthesis of Novel Spirooxindole-Pyrrolidines/Spirooxindole-Pyrrolizines: Synthesis, Antimicrobial and Antitubercular Activities, SAR and in silico Studies*" *J. Mol. Struct*, **2024**, 1311, 138377. [DOI: 10.1016/j.molstruc.2024.138377] (I.F = **4.9**)
27. Pulukool, S. K.;# Bhagavatham, S. K. S.;# Vijay, S. K.; Almansour, A. I; **Chaudhary**, **S**.; Abuyousef, F.; Saleh, N.;* Tripathi, P.* "*Noninvasive Cardiac-Specific Biomarkers for the Diagnosis and Prevention of Vascular Stenosis in Cardiovascular Disorder*" *Front. Pharmacol.* **2024**, *15*, 1376226. [DOI: 10.3389/fphar.2024.1376226] (I.F = **4.4**)
28. Rahaman, A.T.A.; Rajendra T. N.; Suhas K. P.; Ippagunta, S. K.;* **Chaudhary**, **S**.* "*1,2,4,5-Tetraoxane Derivatives/ Hybrids as Potent Antimalarial Endoperoxides: Chronological Advancements and Future Perspectives*" *Med Res Rev.*, **2024**, *44*, 2266-2290. [DOI: 10.1002/med.22040] (I.F = **13.6**)
29. Sahu, N. K.; Priyanka, Mahajan, A.T.; Sharma, V.; Suhas, K. P.; Tripathi, P.; Mathur, M.; Jain, M.;* **Chaudhary, S.*** "*'Cephalandole A' Analogues as a New Class of Antioxidant Agents: Design, Microwave-Assisted Synthesis, Bioevaluation, SAR and In Silico Studies*" *J. Mol. Struct.*, **2024**, *1303*, 137445. [DOI: 10.1016/j.molstruc.2023.137445] (I.F = **4.9**)
30. Singh, S.; Yadav, R. K.;* Umar A.;* Ibrahim, A. A.; Kim, T. W.; Singh, A. P.; Kumar, R.; **Chaudhary**, **S**.; Dwivedi, D. K..; Singh, R. V.; Gupta, N. K.; Singh, C.; Baeg, J. -O.;* Baskoutas, S. "*Transformation of PMMA from sunlight-blocking to sunlight-activated coupled with DNH photocatalytic platform for oxidative coupling of amines and generation/regeneration of LDC/NADH*" *Photochem. Photobiol.*, **2023**, *100(5)*, 1247-1261. [DOI: 10.1111/php.13888] [I.F = **2.5**]
31. Sharma, R.; Yadav**,** L.; Nasim, A. A.; Yadav, R. K.; Ruihong**,** C.; Kumari**,** N.; Ruiqi**,** F.; Sharon**,** A.; Sahu, N.K.; Ippagunta, S. K.; Coghi, P.;* Wong, V. K. W.;* **Chaudhary S.*** "*Chemo-/Regio-Selective Synthesis of Novel Functionalized Spiro[pyrrolidine-2,3'-oxindoles] under Microwave Irradiation and Their Anticancer Activity*" *Molecules* **2023**, *28*, 6503. [DOI: 10.3390/molecules28186503] (I.F = **5.1**)
32. Shchepina, N. E.; Alexandrova, G. A.; Balandina, S. Y.; Boiko, I. I.; **Chaudhary, S.;*** Shchepin, R. V.* **"***Antifungal Activity of N-Arylbenzoquinaldinium Derivatives against a Clinical Strain of M. Canis*" *Indian J Dermatol* **2023**, *68*, 487-491. [**DOI:** 10.4103/ijd.IJD_261_16] (I.F = **1.3**)
33. Sahu, N.K.;† Sharma, R.;† Suhas, K.P.; Joshi, J.; Prakash, K.; Sharma, R.; Pratap, R.; Hu, X.; Kaur, S.; Jain, M.; Coluccini, C.;* Coghi, P.;* **Chaudhary, S.*** "*Natural-Product-Inspired Microwave-Assisted Synthesis of Novel Spirooxindoles as Antileishmanial Agents: Synthesis, Stereochemical Assignment, Bioevaluation, SAR, and Molecular Docking Studies*" *Molecules* **2023**, *28(12)*, 4817-4837. [DOI: 10.3390/molecules28124817] (I.F = **5.1**)
34. Sharma, R.; Tiwari M. K.; Nasim A. A.; Yadav D. K.; Coghi P.*; Wong, V. K. W.;* **Chaudhary S.*** "*Artemisinin-Inspired Novel Functionalized Aryloxy-Arylvinyl-1,2,4-trioxanes as Potent Anticancer Agents: Design, Synthesis, Bioevaluation, SAR and in silico Studies*" *J. Mol. Struct*, **2023**, *1288*, 135707. [DOI: 10.1016/j.molstruc.2023.135707] (I.F = **4.9**)
35. Sharma, R.; Rahaman, A.T.A.; Sen, J.; Mashevskaya, I. V.; **Chaudhary, S.*** "*Discovering the role of N-Heterocyclic Carbene as Hydrogen Borrowing Organocatalyst: Metal-free, Direct N-Alkylation of Amines with Benzyl Alcohols*" *Org. Chem. Frontiers* **2023,** *10*, 730 – 744. [DOI: 10.1039/D2QO01522F] (I.F = **4.7**)
36. Sharma, R.; **Chaudhary, S.*** "*Regiodivergent Cu-Promoted, AcOH switchable Distal vs Proximal Direct Cyanation of 1-Aryl-1H-Indazoles and 2-Aryl-2H-Indazoles via Aerobic Oxidative C−H Bond Activation*" *J. Org. Chem.* **2022**, 87, 24, 16188–16203. DOI: 10.1021/acs.joc.2c01603 (I.F = **3.3**)
37. Yadav, L.; Shyamlal, B. R. K.; Tiwari, M. K.; Rahaman, A.T.A.; Sen, J.; **Chaudhary, S.*** "*TMEDA-Catalyzed Regioselective Decarboalkoxy C-N Bond Formation: A Unified Direct Access to Indolo[2,1-a]isoquinoline and Dibenzopyrrocoline Alkaloids*" *Chemistry-An Asian Journal*, **2022**, *17(16)*, e202200398 [DOI: 10.1002/asia.202200398] (I.F = **3.2**)
38. Ng, J. P. L.;† Tiwari M. K.;† Nasim A. A.; Zhang, R. L.; Qu Y.; Sharma, R.; Law, B. Y. K.; Yadav D. K.;* **Chaudhary S.***; Coghi P.*; Wong, V. K. W.* "*Biological Evaluation in Resistant Cancer Cells and Study of*

Mechanism of Action of Arylvinyl-1,2,4-Trioxanes" *Pharmaceuticals*, **2022**, *15(((3)*, 360. [DOI: 10.3390/ph15030360] (I.F = **4.8**)

39. Sharma, R.; Yadav, R. K.; Jain.; M.; Joshi, J.; **Chaudhary, S.*** "*Oxidant-Switched Palladium-catalyzed Regioselective Mono- versus Bis-ortho-Aroylation of 1-Aryl-1H-indazoles with Aldehydes via C–H Bond Activation*" *J. Org. Chem.*, **2022**, *87(5)*, 2668-2685. [DOI: 10.1021/acs.joc.1c02628] (I.F = **3.6**)
40. Shyamlal, B. R. K.; Mathur, M.; Yadav, D. K.; Mashevskaya, I. V.; El-Shazly, M.; Saleh, N.;* **Chaudhary, S.*** "*Discovery of Natural Product Inspired 3-Phenyl-1H-isochromen-1-ones as Highly Potent Antioxidant and Antiplatelet Agents: Design, Synthesis, Bio-evaluation, SAR and in silico studies*" *Current Pharmaceutical Design*, **2022**, *28(10)*, 829-840. [DOI: 10.2174/1381612827666211116102031] **(I.F = 2.8)**
41. Lukmanova, D. N.; Pchelintseva, D. I.; Dmitriev, M. V.; Balandina, S. Y.; Mashevskaya, I. V.; **Chaudhary, S.** "*Reaction of Hetareno[e]pyrrole-2,3-diones with Thiols: An Approach to Two Distinct 5-Thio-substituted Pyrrole-2-one Derivatives" ChemistrySelect*, **2021**, *6(45)*,12623-12627. [**DOI:** 10.1002/slct.202103243] (I.F = **3.1**)
42. Tiwari, M. K.;† Coghi, P.;† Agarwal, P.;† Yadav, D. K.; Yang, L. J.; Congling, Q.; Sahal, D.;* Wong, V. K.W.;* **Chaudhary, S.*** "*Novel Halogenated Arylvinyl-1,2,4 Trioxanes as Potent Antiplasmodial as well as Anticancer Agents: Synthesis, Bioevaluation, Structure-Activity Relationship and in-silico Studies*" *Eur. J. Med. Chem.*, **2021**, *224,* 113685. (I.F = **6.7**) **[DOI:** 10.1016/j.ejmech.2021.113685]
43. Anand, A.; Saran, M.; **Chaudhary, S.**; Ronin R. S.; Swami A.K.; Mathur, M.; Burov, A.; Bagaria, A. "*A novel approach towards green synthesis of nanodiamonds as biocompatible agents*" *J. nano-electron. phys.*, **2021**, *13*, 03040-(1-6). [DOI: 10.21272/jnep.13(3).03040]. (I.F = **0.58**)
44. Sharma, R.; Yadav, R. K.; Sharma, R.; Sahu, N. K.; Jain, M.; **Chaudhary, S.*** "*Recent Advancements in the Synthesis and Chemistry of Benzo-fused Nitrogen- and Oxygen-based Bioactive Heterocycles*" *Current Topics in Medicinal Chemistry*, **2021**, *21,* 1538-1571**.** [DOI:10.2174/1568026621666210715122919] **[Invited Article]** (I.F = **2.9**)
45. Yadav, L.; **Chaudhary, S.*** "*Developments in Organocatalyzed $C_{(sp^2)}$-H bond formation reactions involving single electron transfer mechanism: An Overview*" *Current Organocatalysis*, **2021**, *8(3)*, 289-307 **[Invited Article]** (I.F = **0.9**) **[DOI**: 10.2174/2213337208666210114125815**]**
46. Yadav, R. K.; Sharma, R.; Gautam, D.; Joshi, J.; **Chaudhary, S.*** "*Lewis Acid/Oxidant as Rapid Regioselective Halogenating Reagent system for Direct Halogenation of Fused Bi-/Tri-cyclic Hetero-aromatic Congeners via C(sp2)–H bond Functionalization*" *Asian J. Org. Chem.*, **2021**. *10(7)*, 1726-1741. (I.F = **2.8**) [DOI: 10.1002/ajoc.202100156]
47. Sharma, R.; Yadav, L.; Yadav, R. K.; **Chaudhary, S.*** "*Oxidative Cross-Dehydrogenative Coupling (CDC) via $C_{(sp^2)}$–H bond Functionalization: tert-Butyl Peroxybenzoate (TBPB)-promoted Regioselective Direct C-3 Acylation of 2H-Indazoles with Aldehydes/Benzyl Alcohols/Styrenes*" *RSC Advances*, **2021**, *11*, 14178 – 14192. (I.F = **6.1**) [DOI: 10.1039/D1RA02225C]
48. Maksimov, A. Y.; Balandina, S. Y.; Topanov, P. A.; Mashevskaya, I. V.; **Chaudhary, S.** *"Organic Antifungal Drugs and Targets of Their Action" Curr Top Med Chem,* **2021**, *21*, 705-736. (I.F = **3.3**) [DOI:10.2174/1568026621666210108122622]
49. Tiwari, M. K.; Yadav, L.; **Chaudhary, S.*** "*[2,3-Bis-(2-pyridyl) pyrazine] as an Efficient Organocatalysis for the Direct $C_{(sp^2)}$-H Arylation of Unactivated Arenes/Heteroarenes via C-H bond activation*" *ChemistrySelect,* **2020**, *5*, 11968-11975. [DOI: 10.1002/slct.202003140] (I.F = **3.1**)
50. Yadav, L.; **Chaudhary, S.*** "*Bu_4NI-Catalyzed, oxidative $C_{(sp^2)}$–$C_{(sp^3)}$ cross-dehydrogenative coupling for the regioselective direct C-3 Benzylation of 2H-indazoles" Org. Biomol. Chem.,* **2020**, *18,* 5927 - 5936. [DOI: 10.1039/D0OB01282C] (I.F = **2.9**).
51. Yadav, R. K.; Kumar, Y.; **Chaudhary, S.*** "*Metal-free, H_2O_2-mediated regioselective direct C-3 hydroxylation of imidazo[1,2-a]pyridines via $C(sp^2)$–H bond functionalization*" *ChemistrySelect* **2020**, *5*, 9235-9239. [DOI: 10.1002/slct.202002219] (I.F = **3.1**)
52. Yadav, L.; Tiwari, M. K.; Shyamlal, B. R. K.; **Chaudhary, S.*** "*Organocatalyst in Direct $C(sp^2)$–H Arylation of Unactivated Arenes: [1-(2-Hydroxyethyl)-piperazine]-catalyzed Inter-/Intra-molecular C–H bond activation." J. Org. Chem.*, **2020**, *85*, *12*, 8121–8141. [DOI: 10.1021/acs.joc.0c01019] (I.F = **3.3**)
53. Roy, E.; Nagar, A.; **Chaudhary, S.**; Pal, S. "*Advanced Properties and Applications of AIEgens-Inspired Smart Materials*" *Ind. Eng. Chem. Res.* **2020**, *59 (23)*, 10721-10736 [**DOI:** 10.1021/acs.iecr.0c01869] (I.F = **3.8**)
54. Tiwari, M. K.;† Coghi, P.;† Agarwal, P.;† Shyamlal, B. R. K.; Yang, L. J.; Yadav, L.; Peng, Y.; Sharma, R.; Yadav, D. K.; Sahal, D.; Wong, V.K.W.; **Chaudhary, S.*** "*Design, synthesis, structure-activity relationship and docking studies of novel functionalized arylvinyl-1,2,4-trioxanes as potent antiplasmodial and anticancer agents*" *ChemMedChem.,* **2020**, *15*, 1216-1228. [DOI" 10.1002/cmdc.202000045] (I.F = **3.4**)

55. Yadav, D. K.; Kumar, S.; Choi, E. H.; **Chaudhary, S.** Kim, M. –H. "*Computational Modeling on Aquaporin-3 as Skin Cancer Target: A Virtual Screening Study*" *Front. Chem.* **2020**, *8*, 250. [**DOI**: 10.3389/fchem.2020.00250]. **(I.F = 5.3)** *Preprints* **2019**, 2019100174 (DOI: 10.20944/preprints201910.0174.v1).
56. Kumar, K.;‡ Shyamlal, B. R. K.;‡ Verma, R. B.; Kondaiah. P.; **Chaudhary, S.*** *Self-assembled nanospheres of lipoylated caffeine for reduction-triggered doxorubicin delivery" ChemMedChem, **2020**, 15,* 733-737. [**DOI**: 10.1002/cmdc.202000070] (I.F = **3.6**) ***Special Collection on Nanomedicine (2020 Hot Topic Series)*** bit.ly/cmc-2020-nanomed
57. Shyamlal, B. R. K.; Mathur, M.; Yadav, D. K.; **Chaudhary, S.*** *"Microwave-Assisted Modified Synthesis of C_8-Analogues of Naturally Occurring Methylxanthines: Synthesis, Biological Evaluation and their Practical Applications" Fitoterapia*, **2020**, *143,* 104533. [**DOI**: 10.1016/j.fitote.2020.104533] **(I.F = 2.9)**
58. Shyamlal, B. R. K.; Yadav, L.; Tiwari, M. K.; Mathur, M.; Prikhodko, J. I.; Mashevskaya, I. V.; Yadav, D. K.*; **Chaudhary, S.*** *"Synthesis, Bioevaluation, Structure-Activity Relationship and in silico Docking Studies of Natural Product Inspired (Z)-3-benzylideneisobenzofuran-1(3H)-ones as Highly Potent antioxidants and Antiplatelet agents" Sci Rep*, **2020**, 10, 2307. [**DOI**: https://doi.org/10.1038/s41598-020-59218-6]. **(I.F = 3.8)**
59. Roy, E.; Nagar, A.; **Chaudhary, S.**; Pal, S. "*AIEgen-Based Fluorescent Nanomaterials for Bacterial Detection and its Inhibition-Mini review on present and future prospects*" *ChemistrySelect*, **2020**, 5(2), 722-735. [**DOI:** 10.1002/slct.201904092] (I.F = **3.1**)
60. Tiwari, M. K.; **Chaudhary, S.*** "*Artemisinin-derived antimalarial endoperoxides from bench-side to bed-side: Chronological advancements and future challenges*" *Med Res Rev.*, **2020**, *40(4)*, 1220-1275. [**DOI:** 10.1002/med.21657] (I.F = **13.6**)
61. Pchelintseva, D.I.; Lukmanova, D.N.; Prikhodko, J.I.; Pavlov, P. T.; Mashevskaya, I.V.; **Chaudhary, S.** "*Reactions of 3-aroyl-1H-pyrrolo[2,1-c][1,4]benzoxazine-1,2,4-triones with Gewald thiophenes*" *Bulletin of Perm University. Chemistry*, **2019**, *9(4)*, 416-421. [DOI: 10.17072/2223-1838-2019-4-416-421]
62. Tiwari, M. K.; Yadav, L.; Shyamlal, B. R. K.; **Chaudhary, S.*** "*Weak bases-Mediated Modified Favorskii Reaction Type Direct Alkynylation/(E)-Alkenylation: A Unified Rapid Access to α, β-Unsaturated Ketones and Propargyl Alcohols*" *Asian J. Org. Chem.,* **2019**. *8*, 2257– 2268. [**DOI:**10.1002/ajoc.201900601] (I.F = **2.8**)
63. Kumar, K.; Yadav, L.; Kondaiah. P.; **Chaudhary, S.*** "*Efficacious doxorubicin delivery using glutathione responsive hollow non-phospholipid vesicles bearing lipoyl cholesterols*" *ChemMedChem*, **2019**, *14*, 1633-1640. [DOI: 10.1002/cmdc.201900335] (I.F = **3.4**)
64. Tiwari, M. K.; Yadav, D. K.; **Chaudhary, S.*** "*Recent Developments in Natural Product Inspired Synthetic 1,2,4-Trioxolanes (Ozonides): An Unusual Entry into Antimalarial Chemotherapy*" *Curr Top Med Chem,* **2019**, *19*, 852-864. **(I.F = 3.3) [Invited Article]**
65. Yadav, D. K.; Kumar, S.; Teli, M. K.; Yadav, R. K.; **Chaudhary, S.** "M*olecular targets for antimalarial Chemotherapy- A Review*", *Curr Top Med Chem,* **2019**, *19*, 824-838. **(I.F = 3.3)**
66. Yadav, D. K.; Kumar, S.; Choi, E. –H.; **Chaudhary, S.**; Kim, M. –H. "*Molecular dynamic simulations of oxidized skin lipid bilayer and permeability of reactive oxygen species*" *Scientific Reports*, **2019,** 9(4496), 1-10. **(I.F = 3.9)**
67. Kumar, K.; Saran, M.; Yadav, L.; Shyamlal, B. R. K.; Mathur, M.; Bagaria, A.; **Chaudhary, S.*** "*Efficient antibacterial and low cytotoxic potential of silver nanoparticles produced instantaneously using dimeric gallate*" *ChemistrySelect*, **2018**, *3(48)*, 13716- 13721. [DOI: 10.1002/slct.201803145] (IF: **3.1**)
68. Jaiswal, P. K.; Sharma, V.; Mathur, M.; **Chaudhary, S.*** "*Corrections to Organocatalytic Modified Guareschi−Thorpe Type Regioselective Synthesis: A Unified Direct Access to 5,6,7,8-tetrahydroquinolines and Other Alicyclic[b]-fused Pyridines*" *Org. Lett.*, **2018**, *20(24)*, 8086-8086. **(I.F = 4.9)** [DOI: 10.1021/acs.orglett.8b03587]
69. Jaiswal, P. K.; Sharma, V.; Mathur, M.; **Chaudhary, S.*** "*Organocatalytic Modified Guareschi−Thorpe Type Regioselective Synthesis: A Unified Direct Access to 5,6,7,8-tetrahydroquinolines and Other Alicyclic[b]-fused Pyridines*" *Org. Lett.*, **2018**, *20 (19)*, 6059-6063. **(I.F = 4.9)** [DOI: 10.1021/acs.orglett.8b02132]
70. Sharma, V.; Jaiswal, P. K.; Kumar, S.; Mathur, M.; Swami, A. K.; Yadav, D. K.; **Chaudhary, S.*** "*Discovery of novel aporphine analogues as potential antiplatelet and antioxidant agents: Design, synthesis, SAR, biological evaluation and in silico molecular docking studies*" *ChemMedChem*, **2018**, *13(17)*, 1817-1832. **(I.F = 3.4)** [DOI:10.1002/cmdc.201800318]
71. Kumar, K.; Shyamlal, B. R. K.; Gupta, A.; Mathur, M.; Swami, A. K.; **Chaudhary, S.*** "*Efficacious fungicidal potential of composite derived from nano-aggregates of Cu-Diclofenac complexes and ZnO nanoparticles*" *Composite Communications*, **2018**, *10*, 81-88. [DOI: 10.1016/j.coco.2018.07.004]. **(I.F = 8.6)**
72. **Chaudhary, S.***; Shyamlal, B. R. K.; Yadav, L.; Tiwari, M. K.; Kumar, K. "*Ag_2O Nanoparticle-Catalyzed Substrate-Controlled Regioselectivities: Direct Access to 3-Ylidenephthalides and Isocoumarins" RSC Advances*, **2018**, *8*, 23152-23162. **(I.F = 6.1)**

73. Sharma, V.; Jaiswal, P. K.; Kumar, K.; Saran, M.; Mathur, M.; Swami, A. K.; **Chaudhary, S.*** "*An efficient synthesis and biological evaluation of novel analogues of natural product Cephalandole A: A new class of antimicrobial and antiplatelet agents" Fitoterapia*, **2018**, *129*, 13-19. **(I.F = 2.9)**
74. Yadav, D. K.; Kumar, S.; Saloni; Misra, S.; Yadav, L.; Teli, M.; Sharma, P.; **Chaudhary, S.**; Kumar, N.; Choi, E. H.; Kim, M. –H. "*Molecular Insights into the Interaction of RONS and Thieno[3,2-c]pyran Analogs with SIRT6/COX-2: A Molecular Dynamics Study*" *Scientific Reports*, **2018**, *8*, 4777. **(I.F = 3.9) [DOI**:10.1038/s41598-018-22972-9]
75. Sharma, V.; Jaiswal, P. K.; Saran, M.; Yadav, D. K.; Saloni.; Mathur, M.; Swami, A. K.; Misra, S.; Kim, M.-H.; **Chaudhary, S.*** "*Discovery of C-3 Tethered 2-oxo-benzo [1, 4] oxazines as potent antioxidants: Bio-inspired based design, synthesis, biological evaluation, cytotoxic and in silico molecular docking studies" Front. Chem.*, **2018**, *6(56)*, 1-17. **[DOI**: 10.3389/fchem.2018.00056] **(I.F = 5.3)**
76. Jaiswal, P. K.; Sharma, V.; Saloni; Mathur, M.; Swami, A. K.; Yadav, D. K.;*** Chaudhary, S.*** "N*on-peptide-based new class of platelet aggregation inhibitors: Design, synthesis, biological evaluation, SAR and in silico studies*" *Archiv Der Pharmazie*, **2018**, 351 (3-4), 1-17. **(I.F = 3.6)** [**DOI**: 10.1002/ardp.201700349]
77. Negi, A.; Bhandari, N.; Shyamlal, B. R. K.; **Chaudhary, S.*** "*Inverse docking based screening and identification of protein targets for Cassiarin alkaloids against Plasmodium falciparum*" *Saudi Pharmaceutical Journal*, **2018**, *26(4)*, 546-567. **(I.F = 3.4)**
78. Kumar, V.; **Chaudhary, S.**; Mathur, M.; Swami, A. K.; Malakar, C. C.; Singh, V. "*A Tandem Approach towards Diastereoselective Synthesis of Quinoline C-3 Tethered γ-Lactones*" *ChemistrySelect*, **2018**, *3*, 399-404. **(IF = 3.1)**
79. Sharma, V.; Jaiswal, P. K.; Yadav, D. K.; Saran, M.; Prikhodko, J.; Mathur, M.; Swami, A. K.; Mashevskaya, I. V.; **Chaudhary, S.*** "*Microwave-assisted one-pot efficient synthesis of functionalized 2-oxo-2-phenylethylidenes-linked 2-oxo-benzo[1,4]oxazines and 2-oxo-quino[1,4]oxalines: Synthetic Applications, Antioxidant activity, SAR and Cytotoxic Studies*" *Acta Chimica Slovenica,* **2017**, *67(4)*, 988-1004. DOI: 10.17344/acsi.2017.3709 (IF: **1.2**)
80. Kumar, K.; Vulugundam, G.; Jaiswal, P. K.; Shyamlal, B. R. K.; **Chaudhary, S.*** "*Cellular codelivery of doxorubicin and EGFP siRNA mediated by the composition of PLGA and PEI protected Gold Nanoparticles*" *Bioorg. Med. Chem. Lett.,* **2017**, *27(18)*, 4288-4293. (IF: **2.5**)
81. Sharma, R.; Yadav, L.; Lal, J.; Jaiswal, P. K.; Mathur, M.; Swami, A. K.; **Chaudhary, S.*** *"Synthesis, antimicrobial activity, structure-activity relationship and cytotoxic studies of a new series of functionalized (Z)-3-(2-oxo-2-substituted ethylidene)-3,4-dihydro-2H-benzo[b] [1,4]oxazin-2-one" Bioorg. Med. Chem. Lett.,* **2017**, *27(18)*, 4393-4398. (IF: **2.5**)
82. Jaiswal, P. K.; Sharma, V. Prikhodko, J. I.; Mashevskaya, I. V.; **Chaudhary, S.*** *"On water" ultrasound-assisted one pot efficient synthesis of functionalized 2-oxo-benzo [1, 4] oxazines: First application to the synthesis of anticancer indole alkaloid, Cephalandole A" Tetrahedron Lett.,* **2017**, *58(22)*, 2077-2083. (IF: **1.4**)
83. Singh, S.; Shaw, R.; Shally; **Chaudhary, S.;** Kumar, A.; Pratap R. *Synthesis of arylated and aminated naphthalenes and their synthetic applications for aza-heterocycles. Tetrahedron*, **2016**, 72, 6436-6443. (IF: **2.1**)
84. Devi, N.; Singh, D.; Honey; Mor, S.; **Chaudhary, S.**; Rawal, R. K.; Kumar, V.; Chowdhury, A. K.; Singh, V. **"***In(OTf)$_3$catalysed an expeditious synthesis of β-Carboline-imidazo[1,2-a]pyridine and imidazo[1,2-a]pyrazine Conjugates***"** *RSC Advances*, **2016**, *6*, 43881-43891. (IF: **6.1**)
85. Yadav, L.; Tiwari, M. K.; Shyamlal, B. R. K.; Mathur, M.; Swami, A. K.; Puri, S. K.; Naikade, N. K.; **Chaudhary, S.*** "*Synthesis and Antimalarial Activity of Novel Bicyclic and Tricyclic Aza-peroxides*" *RSC Advances*, **2016**, *6*, 23718-23725. (IF: **6.1**)
86. **Chaudhary, S.***; Naikade, N. K.; Tiwari, M. K.; Yadav, L.; Shyamlal, B. R. K.; Puri, S. K. "*New orally active diphenylmethyl-based ester analogues of dihydroartemisinin: Synthesis and antimalarial activity against multidrug-resistant Plasmodium yoelii nigeriensis in Swiss mice*", *Bioorg. Med. Chem. Lett.,* **2016**, *26(6)*, 1536-1541. (IF: **2.5**)
87. Yadav, L.; Tiwari, M. K.; Shyamlal, B. R. K.; Mathur, M.; Swami, A. K.; Puri, S. K.; Naikade, N. K.; **Chaudhary, S.*** "*Synthesis and Antimalarial Activity of Novel Bicyclic and Tricyclic Aza-peroxides*" *ChemInform*, **2016**, *47(28)*, 215. (IF: **1.4**)
88. Singh, S.; Panwar, R.; Althagafi, I.; Sharma, V.; **Chaudhary, S.**; Pratap, R. "*Base-mediated regioselective synthesis of highly functionalized conjugated enones*" *ChemInform*, **2015**, *47(1)*, 148. (IF: **1.4**)
89. **Chaudhary, S.***; Sharma, V.; Jaiswal, P. K.; Gaikwad, A. N.; Sinha, S. K.; Puri, S. K.; Sharon, A.; Maulik, P. R.; Chaturvedi, V. "*Stable tricyclic antitubercular ozonides derived from Artemisinin"*, *Org. Lett.*, **2015,** *17 (20)*, 4948-4951. (IF: **4.9**)
90. Singh, S.; Panwar, R.; Althagafi, I.; Sharma, V.; **Chaudhary, S.**; Pratap, R. "*Base-mediated regioselective synthesis of highly functionalized conjugated enones*", *Tetrahedron lett.,* **2015**, *56(37)*, 5203–5208. (IF: **1.4**)
91. Kawato, Y.; **Chaudhary, S.**; Kumagai, N.; Shibasaki, M. "*Streamlined catalytic asymmetric synthesis of Atorvastatin*" *Chemistry- An European Journal* **2013**, *19 (12)*, 3802-3806. (IF: **3.9**) ***(VIP paper, Synfact, 2013, 9, 508)***

92. Singh, C.; Kanchan, R.; **Chaudhary, S.**; Puri, S. K. "*Linker-based hemisuccinate derivatives of artemisinin: Synthesis and antimalarial assessment against multidrug-resistant Plasmodium yoelii nigeriensis in Mice*", *J. Med. Chem.* **2012**, *55(3)*, 1117-1126. (IF: **7.3**)
93. **Chaudhary, S.**; Ponnala, S.; Legendre, O.; Gonzales, J. A.; Navarro, H. A.; Harding, W. W. "*New aporphinoid 5-HT_{2a} and α_{1A} antagonists via structural manipulations of nantenine*", *Bioorg. Med. Chem.*, **2011**, *19 (19)*, 5861-5868. (IF: **3.5**)
94. Ponnala, S.; **Chaudhary, S.**; González-Sarrias, A.; Seeram, N. P.; Harding, W. W. "*Cytotoxicity of aporphines in human colon cancer cell lines HCT-116 and Caco-2: an SAR study*", *Bioorg. Med. Chem. Lett.*, **2011**, *21(15)*, 4462-4464. (IF: **2.5**)
95. **Chaudhary, S.**; Harding, W. W. "*Synthesis of C-homoaporphines via microwave- assisted direct arylation*", *Tetrahedron*, **2011**, *67(3),* 569-575. (IF: **2.1**)
96. Legendre, O.; Pecic, S.; **Chaudhary, S.**; Zimmerman, S. M.; Fantegrossi, W. E.; and Harding, W. W. "*Synthetic Studies and pharmacological evaluation on the MDMA ("Ecstasy") antagonist nantenine*" *ChemInform*, **2010**, *41(25)*, 175. (IF: **1.4**)
97. Pecic, S.; Makkar, P.; **Chaudhary, S.**; Reddy, B. V.; Navarro, H. A.; Harding, W. W. "*Affinity of aporphines for the human 5-HT_{2A} receptors: Insights from homology modelling and molecular docking studies*", *Bioorg. Med. Chem.* **2010**, *18 (15)*, 5562-5575. (IF: **3.5**)
98. Legendre, O.; Pecic, S.; **Chaudhary, S.**; Zimmerman, S. M.; Fantegrossi, W. E.; Harding, W. W. "*Synthetic Studies and pharmacological evaluation on the MDMA ("Ecstasy") antagonist nantenine*", *Bioorg. Med. Chem. Lett.*, **2010**, *20(2)*, 628-631. (IF: **2.5**)
99. **Chaudhary, S.**; Pecic, S.; Legendre, O.; and Harding, W. W. (Sep, **2009**), "*Microwave-assisted direct biaryl coupling: First application to the synthesis of Aporphines*" *ChemInform*, **2009**, *40(35)*, 190. (IF: **1.4**)
100. **Chaudhary, S.**; Pecic, S.; Legendre, O.; Navarro, H. A.; Harding, W. W. "*(±)-Nantenine analogs as antagonists at 5-HT_{2A} receptors: C1 and flexible congeners*", *Bioorg. Med. Chem. Lett.* **2009**, *19*, 2530-2532. (IF: **2.5**)
101. **Chaudhary, S.**; Pecic, S.; Legendre, O.; Harding, W. W. "*Microwave-assisted direct biaryl coupling: First application to the synthesis of aporphines*", *Tetrahedron lett.* **2009**, *50*, 2437-2439. (IF: **1.4**)
102. **Chaudhary, S.**; Thomas, V.; Todaro, L.; Legendre, O.; Pecic, S.; Harding, W. W. "*New drimane sesquiterpenoids from Tidestromia oblongifolia*", *Natural Product Communication*, **2008**, *3 (11)*, 1747-1750. (IF: **1.5**)
103. Singh, C.; **Chaudhary, S.**; Puri, S. K. "*Orally active esters of dihydroartemisinin: Synthesis and antimalarial activity against multidrug-resistant Plasmodium yoelii in mice*", *Bioorg. Med. Chem. Lett.* **2008**, *18(4),* 1436-1441. (IF: **2.5**)
104. Singh, C.; **Chaudhary, S.**; Kanchan, R.; Puri, S. K. "*Conversion of antimalarial drug artemisinin to a new series of tricyclic 1, 2, 4-trioxanes*", *Org. Lett.* **2007**, *9 (21)*, 4327-4329. (IF: **4.9**)
105. Singh, C.; **Chaudhary, S.**; Puri, S. K. "*New orally active artemisinin derivatives with high efficacy against multidrug-resistant malaria in mice*", *J. Med. Chem.* **2006**, *49 (24)*, 7227-7233. (IF: **7.3**)
106. **Chaudhary, S.**; Gaikwad, A. N.; Sinha, S.; Chaturvedi, V. Manju, Y. K. and Singh, C. "*Artemisinin derived stable ozonides: Synthesis and antitubercular activities*", *Med. Chem. Res.*, **2006**, *15* (*1/6*), 246-247. (Impact factor: **2.6**)
107. **Chaudhary, S.**; Puri, S. K. and Singh, C. "*Orally active artemisinin derivatives*", *Med. Chem. Res.*, **2004**, *12* (*6/7*), 362. (Impact factor: **2.6**)

List of Publications (*Ready for Communication*)

108. Yajnashri, M.;† Sumanth, G.;† Atpadkar, P. P.;† **Chaudhary, S.*** "*Recent Developments and Practical Applications of Biosurfactant as Stabilization Agents*" *J. Indian Chem. Soc.*, **2025**
109. **Chaudhary, S.*** "*Analysis of diastereomeric (α/β) ratio in artemisinin analogues: 3D conformational effects of sterically hindered and bulky substituent's*" *J. Chem. Sci.*
110. **Chaudhary, S.*** "Insights on synthetic strategies and structure-activity relationship studies of *Linezolid* and its derivatives", *Current Pharmaceutical Design,* **2025, in progress.**
111. **Chaudhary, Sandeep*** "*Microwave–assisted direct arylations: Recent developments in transition-metal catalysed C-C bond formations*" *Mini Rev. Org. Chem.* **2025, in progress.**

Patents

1. **Chaudhary, S.**; Kaundal, R.K.; Tantra, T. Chauhan, C.; Rahaman, A.T.A.; Sen, J.; Shrivastava, V.; "*Novel Substituted Urea Derivatives as NOD-like receptor protein-3 (NLRP-3)Inhibitors*" Indian patent, **2026**, Patent No. ……. **[Filing date: ……**]
2. Tripathi, P.; Shukla, R.; **Chaudhary, S.**; Harsh, Handa, M. "*A Novel Formulation of Artemisinin for management of Inflammation and thereof*" Indian patent, **2023**, Patent No. 202311049238. **[Filing date: 21 July, 2023]**

3. Tripathi, P.; Priyanka; and **Chaudhary, S.** *"A Method of preparing Beta Glucan Nanoparticles and nanoformulations thereof"* Indian patent, **2023**, Patent No. 202311044926. **[Filing date: 21 July, 2023]**
4. **Chaudhary, S.**; Sen, J.; Mahajan, A. T.; Rahaman, A.T.A.; Sahu, S.T. "*An improved procedure for the synthesis of mono- and bis-substituted benzimidazoles*" Indian patent, **2025**, Patent No. 591419 Application No. 202511044614 (Filing date: 08-05-2025) [**Date of Grant: 05 June, 2026**]
5. **Chaudhary, S.**; Sahu, K.N. Mahajan, A. T.; Suhas K. P.; Rajendra T. N.; Dash, S. G.; Sen, J. "*Acid-catalyzed Guareschi-Thorpe condensation for the synthesis of substituted pyridines*" Indian patent, **2026**, Patent No. 586518 Application No. 202511057047 (Filing date: 13-06-2025). [**Date of Grant: 08 April, 2026**]
6. Singh, C.; **Chaudhary, S.**; and Puri, S. K. "*Novel ester derivatives of dihydroartemisinin as Antimalarials*" Indian Patent, **2012**, Patent No. **253045** A1 20120622 (IN**2006**DE00391). [**Date of Grant: 20 June, 2012**]
7. Singh, C.; **Chaudhary, S.**; and Puri, S. K. "*Novel lipophilic ether derivatives of dihydroartemisinin as antimalarials*", Indian Patent, **2010**, Patent No. **271422** A 20100326 (IN **2004**DE00209). [**Date of Grant: 19 Feb, 2016**]

Book Chapters

1. Nandini, Tantra, T.; Chaudhary, S.* (**2026**) "*C_{sp}^3– C_{sp}^2 Cross Dehydrogenation Coupling (CDC) via C-H Bond Activation: Earth-Abundant Transition Metals (Fe, Co, Ni and Cu) Catalysed Synthesis and Practical Applications*" In: Atta-Ur-Rahman Series Editor of *Advances in Organic Synthesis*. *Vol 19*, Elsevier Science Publishing, Netherlands. DOI:
2. Shivani; Khan, T.; Chaudhary, S.* **(2026)** "*Bioactive Natural Product-Driven Anticancer Chemotherapy: Chronological Advancements and Future Perspectives of Evodiamine Analogues*" In: Prof. Atta-ur-Rahman, Editors, (19th Ed.) "*Studies in Natural Products Chemistry (SNPC)*" (Bioactive Natural Products), *Vol 89*, Elsevier Science Publishers, Netherlands. DOI: https://doi.org/10.1016/B978-0-443-49144-3.00003-4; Book ISBN: 978-0-443-49144-3; ISSN: 1572-5995
3. Sharma, V.;† Mahajan, A. T.;† Khatik, G. L.;*** Chaudhary, S.* (2025)** "*Natural-Product-Inspired Bioactive Alkaloids via C–C/C–N Coupling Reactions – Synthetic Developments, Current Challenges and Future Opportunities*" In: Prof. Atta-ur-Rahman, Editors, (18th Ed.) "*Studies in Natural Products Chemistry (SNPC)*" (Bioactive Natural Products), Elsevier Science Publishers, Netherlands. DOI: 10.1016/B978-0-443-23754-6.00003-3; Book ISBN: 9780443237546.
4. Sahu, N. K.; Mahajan, A.T.; **Chaudhary, S.*** "(**2024**) "*Pharmaceutically Privileged Bioactive Pyridine Derivatives as Anticancer Agents: Synthetic Developments and Biological Applications*" In: Dr. Rashed Ali (Ed.) "*Heterocyclic Chemistry - New Perspectives*" 1st Edition, IntechOpen, London, U.K. DOI: http://dx.doi.org/10.5772/intechopen.1005589; Book ISBN: 978-0-85466-908-0.
5. Tantra, T.; Shivani; **Chaudhary, S.* (2024)** "*Spirooxindole Derivatives as an Anti-viral Agents: Structure-Activity Relationship Studies and Biological Perspectives*" In: Dr. Gautam Patel, Dr. Vraj R. Shah, Dr. Kalim Deshmukh and Prof. Tuan Anh Nguyen, Editors, book entitled "*Spirooxindole: Chemistry, synthesis, characterization and biological significance*", Page 471-489, Elsevier Science Publishers, The Netherlands. DOI: 10.1016/B978-0-443-22324-2.00019-9; Book ISBN: 9780443223242.
6. Shivani; Tantra, T.; **Chaudhary, S.* (2024)** "*Spirooxindole Derivatives as an Anti-cancer Agents: Synthetic Developments, SAR and Biological Applications*" In: Dr. Gautam Patel, Dr. Vraj R. Shah, Dr. Kalim Deshmukh and Prof. Tuan Anh Nguyen, Editors, book entitled "*Spirooxindole: Chemistry, synthesis, characterization and biological significance*", Page 387-409, Elsevier Science Publishers, The Netherlands. DOI: 10.1016/B978-0-443-22324-2.00015-1; Book ISBN: 9780443223242.
7. Yadav, R.K.; Sen, J.; Rahaman, A.T.A.; **Chaudhary, S.* (2023)** "*Microbes/Microbial Enzyme-Catalyzed Synthesis of Natural-Product-Inspired Bioactive Scaffolds/Therapeutics/Molecules: Application in Microbial Industry and Technology*" In: Atta-Ur-Rahman Series Editor of *Advances in Organic Synthesis Vol 18*, 1-34. Elsevier Science Publishing, Netherlands. DOI:
8. Atpadkar, P. P.;† Sumanth, G.;† **Chaudhary, S.* (2023)** "*Natural–Product–Inspired Bioactive Alkaloids agglomerated with Potential Antioxidant Activity: Recent Advancements on Structure-Activity Relationship studies and Future Perspectives*" In: Gerald Litwack "*Antioxidants*", Series Editor of *Vitamins and Hormones*, *Vol 120,* 1st Ed., Ch.13., p. 355-393, Academic Press/Elsevier, UK. DOI: 10.1016/bs.vh.2022.10.002
9. Mahajan, A. T.;† Khatik, G. L.;*** Chaudhary, S.* (2022)** "*Anti-Biofilm Properties of Biosurfactants: A Tool against the food pathogens*" In: Inamuddin and Charles Oluwaseun Adetunji, Editors, (1st Ed.) "*Next Generational Biosurfactant and their Practical Application in Food Sector*", Elsevier Science Publishing, The Netherlands. DOI: 10.1016/B978-0-12-824283-4.00017-4; ISBN: 978-0-12-824283-4.
10. Yadav, R. K.; Deshmukh, V. V.; Boralkar, T. M., Jain, M.; **Chaudhary, S.* (2022)** "*Cheaper Transition-Metals-Based Nanocatalyzed Organic Transformations towards Synthesis of Bio-heterocycles: Strategic Approaches and*

Sustainable Developments" In: Ravi Kant and K.L. Ameta, Editors, (1st Ed.) "*Nanocatalysis: Synthesis of Bioactive heterocycles*", CRC Press, Taylor and Francis group, USA. DOI: 10.1201/9781003141488-5; ISBN: 9780367693541.

11. Tiwari, M.K.; **Chaudhary, S.* (2022)** "*Artemisinin Analogues as a Novel Class of Antimalarial Agents: Recent Developments, Current Scenario and Future Perspectives"* In: Atta-ur-Rahman and M. Iqbal Choudhary (Eds.) "**Frontiers in Drug Design and Discovery**" *(FDDD)*, Bentham Science Publishers, Vol. 11, 1-41. Book ISBN: 978-981-5036-87-9; Book ISSN: 2212-1064
12. Yadav, R.K.; **Chaudhary, S.* (2021)** "*Microwave-Assisted Synthesis of Imidazo[1,2-a]pyridine Class of Bio-heterocycles: Green Avenues and Sustainable Developments*." In: Inamuddin, Rajender Boddula, Mohd. Imran Ahamed and Anish Khan, Editors, (1st Ed.) "**Advances in Green Synthesis: Avenues and Sustainability**", Springer Nature, UK. DOI: https://doi.org/10.1007/978-3-030-67884-5_12; Book ISBN: 978-3-030-67883-8; Book ID: 492753_1_En

International/ National Conferences/ Symposium with proceedings (Abstract published) (Total = 69)

1. Rahaman, A. T. A.; Sharma, R.; Sen, J.; **Chaudhary, S.*** "*Ultrasonic-Assisted 1, 3-Dipolar Cycloaddition Reaction for the Synthesis of Novel Spirooxindole Derivatives as Anti-cancer Agent*", **8-10 Jan, 2024** (P-2) 28th ISCB international conference (ISCBC 2024)- Recent Advances in Biological, Chemical, Biotechnological, and Pharmaceutical Sciences for Innovation in Healthcare, Faculty of Science and Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, India.
2. Shivani.; Boralkar, T. M.; Tantra, T.; **Chaudhary, S.*** "*Ultrasonic-Assisted 1, 3-Dipolar Cycloaddition Reaction for the Synthesis of Novel Spirooxindole Derivatives as Anti-cancer Agent*", **8-10 Jan, 2024** (P-54) 28th ISCB international conference (ISCBC 2024)- Recent Advances in Biological, Chemical, Biotechnological, and Pharmaceutical Sciences for Innovation in Healthcare, Faculty of Science and Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, India.
3. Tantra, T.; Boralkar, T. M.; Shivani.; **Chaudhary, S.*** "*2-Phenylbenzo[d]imidazo[2,1-b] thiazoles as Potential Anticancer Agents: Design, Synthesis, Bioevaluation and in-silico studies*", **8-10 Jan, 2024** (P-58) 28th ISCB international conference (ISCBC 2024)- Recent Advances in Biological, Chemical, Biotechnological, and Pharmaceutical Sciences for Innovation in Healthcare, Faculty of Science and Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, India.
4. Mahajan, A. T.; Shyamlal, B.R. K.; Kumar, V.; Gupta, A.; Sen, J.; Ronin, R. R.; Mathur, M.; **Chaudhary, S.*** "*Natural-Product-Inspired Synthesis of C-Homoaporphine Alkaloids as a New Class of Antiplatelet and Antimicrobial Agents*" **18-19 Dec, 2023** International Symposium on 4th Flow Chemistry and Natural Product Synthesis, organized by NIPER-Kolkata, W.B.
5. Sen, J.; Yadav, L.; Rahaman, A. T. A.; **Chaudhary, S.*** *"Synthesis of Indolo[2,1-a]isoquinoline and Dibenzopyrrocoline Alkaloids via TMEDA-Catalyzed Regioselective Decarboalkoxy C-N Bond Formation"* **18-19 Dec, 2023** International Symposium on 4th Flow Chemistry and Natural Product Synthesis, organized by NIPER-Kolkata, W.B.
6. Mahajan, A. T.; Shyamlal, B.R. K.; Kumar, V.; Gupta, A.; Sen, J.; Ronin, R. R.; Mathur, M.; **Chaudhary, S.*** "*Novel C-Homoaporphine Analogues as a New Class of Antiplatelet and Antimicrobial Agents*" **10-12 Aug, 2023** NIPER Student Research Symposium, NSRS-2023, at NIPER, S.A.S. Nagar, Punjab, India.
7. Sen, J.; Sharma, R.; Rahaman, A. T. A.; **Chaudhary, S.*** "*Organocatalyzed Hydrogen Borrowing Reaction: NHC-Catalysed Direct N-Alkylation of Amines with Benzyl Alcohols*" **14-16 Sep, 2023** "International Conference on **New Horizons in Drugs, Devices & Diagnostics** (NIPER PHARMACON-2023)", organized by NIPER-Hyderabad at Kanha Shanti Vanam, Hyderabad, India.
8. Sen, J.; Yadav, L.; Rahaman, A. T. A.; **Chaudhary, S.*** "*Design, Synthesis and In silico Studies of Substituted Dibenzopyrrocolines Alkaloids: A Promising Scaffold as Anti-Alzheimer's Agents*" **16-19 Nov, 2022** "27th ISCBC-2022 International Conference on Research and Innovation in Chemical, Pharmaceutical and Biological Sciences", organized at Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi (JH).
9. Rahaman, A. T. A.; Yadav, L.; Sen, J.; **Chaudhary, S.*** "*Organocatalyzed, Regioselective Synthesis of Indolo[2,1-a]isoquinoline via Decarboalkoxy C-N Bond Formation: A Potential Scaffold as Anti-Alzheimer's Agents*" **10-12 Nov, 2022** "International Conference on **Recent Trends and Future Opportunities in Pharmaceuticals** (NIPER PHARMACON-2022)", organized at NIPER-SAS Nagar, Punjab.
10. Sharma, R.; **Chaudhary, S.** "*Oxidant-Switched Palladium-Catalyzed Regioselective Mono- versus Bis-ortho-Aroylation of 1-Aryl-1H-indazoles with Aldehydes via C–H Bond Activation*" **6-8 Dec, 2021** Abstracts of papers ISBN 978-5-7944-3752-2 (Page-4) All-Russian Scientific Conference with International Participation on "Resource-saving and environmentally friendly processes in chemistry and chemical technology", Faculty of Chemistry, Department of Organic Chemistry, Perm State National Research University, Perm, Russia Federation.

11. Sahu, N. K.; Jain, M.; **Chaudhary, S.** "*Polymeric Acid-catalyzed Modified Guareschi Thorpe Type Regioselective Modular Synthesis: Access to Novel Bioactive Indole-tethered Alicyclic[b]fused Pyridines*" **6th-8th Dec, 2021** Abstracts of papers ISBN 978-5-7944-3752-2 (Page-5) All-Russian Scientific Conference with International Participation on "Resource-saving and environmentally friendly processes in chemistry and chemical technology", Faculty of Chemistry, Department of Organic Chemistry, Perm State National Research University, Perm, Russia Federation.
12. Sharma, R.; **Chaudhary, S.** "*Transition-Metal Free $C(sp^2)$–$C(sp^2)$ Cross Dehydrogenative Coupling: TBPB-promoted, Regioselective, Direct C-3 Benzoylation/Acylation of 2H-Indazoles with Aldehydes/Benzyl Alcohols/Styrenes*" at Virtual International Conference on '*Emerging Trends in Medicinal Chemistry–2021' (ETMC-2021*) organized by the Department of Chemistry, S. V. National Institute of Technology (SVNIT), Surat during **18 - 19 March, 2021**.
13. Gautam, D.; **Chaudhary, S.** "*First Row Transition metal-based Symmetrical NCN Pincer Complexes via $C_{(sp^2)}$ -H Bond Functionalization: Synthesis and its Practical Applications*" **20th-22th Oct, 2020** Abstracts of papers ISBN 978-5-7944-3566-5 (Page-18-19) All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine 2020***", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
14. Sahu, N. K.; **Chaudhary, S.** "*Ultrasound-irradiated, one-pot, efficient synthesis of functionalized novel analogues natural product Cephalandole A: A new class of antimalarial as well as antileishmanial agents*" **20th-22th Oct, 2020** Abstracts of papers ISBN 978-5-7944-3566-5 (Page-16-17) All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine 2020***", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
15. Sharma, R.; **Chaudhary, S.** "*Oxidant-promoted $C(sp^2)$ –$C(sp^2)$ Cross-Dehydrogenative Coupling for the Direct C-3 Benzoylation of 2H-Indazoles*" **20th-22th Oct, 2020** Abstracts of papers ISBN 978-5-7944-3566-5 (Page-15-16) All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine 2020***", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
16. Yadav, R. K.; **Chaudhary, S.** "*Oxidant-Promoted, Rapid, Regioselective Direct C-3 Halogenation of Imidazo[1,2-a]pyridines and their congeners via $C_{(sp^2)}$-H Functionalizations*" **20th-22th Oct, 2020** Abstracts of papers ISBN 978-5-7944-3566-5 (Page-14-15) All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine 2020***", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
17. **Chaudhary, S.** "Artemisinin, a Nobel Medicine: A Flourishing Drug in Antimalarial Chemotherapy" **28th-29th Feb, 2020** International Conference on "*Frontier Areas of Chemistry (ICFAC) 2020"*, Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, Bihar-845401, India. (*Oral presentation*)
18. Yadav, L.; Shyamlal, B. R. K.; Tiwari, M. K.; **Chaudhary, S.** "*A Decarboxylative Transition-Metal-free Facile Synthesis of Indolo[2,1-a]isoquinolines and Dibenzopyrrocoline Alkaloids*" **28th-29th Feb, 2020** International Conference on "*Frontier Areas of Chemistry (ICFAC) 2020"*, Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, Bihar-845401, India.
19. Tiwari, M. K.; Shyamlal, B. R. K.; Yadav, L.; **Chaudhary, S.** "*Novel functionalized 1,2,4-trioxanes as potent antimalarial and anticancer agents*" **28th-29th Feb, 2020** International Conference on "*Frontier Areas of Chemistry (ICFAC) 2020"*, Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, Bihar-845401, India.
20. Shyamlal, B. R. K.; Yadav, L.; Tiwari, M. K.; **Chaudhary, S.** "*(Z)-3-benzylideneisobenzofuran-1(3H)-ones as Highly Potent antioxidants and Antiplatelet agents: Synthesis, Bioevaluation, SAR and Docking Studies*" **28th-29th Feb, 2020** International Conference on "*Frontier Areas of Chemistry (ICFAC) 2020"*, Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, Bihar-845401, India.
21. Sharma, R.; Tiwari, M.K.; **Chaudhary, S.** "*Weak Bases-Mediated Metal Free A^3 Coupling Reaction for the Synthesis of Propargylamines*" **26th-29th Feb, 2020** (Poster No. 70) International Conference on "Recent Trends in Catalysis", Department of Chemistry, NIT Calicut, Kerala, India.
22. Yadav, R. K.; **Chaudhary, S.** "*Oxidant-Promoted Selective C-3 Hydroxylation of Imidazole-based heterocycles via $C_{(sp^2)}$-H bond Activation*" **26th-29th Feb, 2020** (Poster No. 71) International Conference on "Recent Trends in Catalysis", Department of Chemistry, NIT Calicut, Kerala, India.
23. Sahu, N.K.; **Chaudhary, S.** "*Organocatalytic, Regioselective, Modified Guareschi–Thorpe Synthesis of Indole-based alicyclic [b]-fused pyridines*" **26th-29th Feb, 2020** (Poster No. 72) International Conference on "Recent Trends in Catalysis", Department of Chemistry, NIT Calicut, Kerala, India.

24. Yadav, L.; Kumar, K.; Shyamlal, B. R. K.; **Chaudhary, S.** "*Efficient antibacterial and low cytotoxic potential of Silver nanoparticles produced instantaneously using dimeric gallate*" **15th-18th May, 2019** Abstracts of papers ISBN 978-5-7944-3288-6 (Page-10) International Conference on "Polycarbonyl compounds 2019 dedicated to the 85th anniversary of Yu. S. Andrejchikov", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
25. Tiwari, M. K.; Yadav, L.; Shyamlal, B. R. K.; **Chaudhary, S.** "*Transition Metal-Free Terminal Alkyne Activation: A Rapid Access to Pharmaceutically Privileged Scaffolds*" **15th-18th May, 2019** Abstracts of papers ISBN 978-5-7944-3288-6 (Page-11) International Conference on "Polycarbonyl compounds 2019 dedicated to the 85th anniversary of Yu. S. Andrejchikov", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
26. Sahu, N. K.; Jaiswal, P. K.; Sharma, V.; Mathur, M.; and **Chaudhary, S**. "*Novel 2-(3-indolo)-pyridine fused heterocycles as a new class of antifungal agents: Design, synthesis, structure-activity relationship and in silico molecular docking studies*" **15th-18th May, 2019** Abstracts of papers ISBN 978-5-7944-3288-6 (Page-12) International Conference on "Polycarbonyl compounds 2019 dedicated to the 85th anniversary of Yu. S. Andrejchikov", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
27. Shyamlal, B. R. K.; Kumar, K.; Gupta, A.; Mathur, M.; Swami, A. K.; **Chaudhary, S.** "*Efficacious fungicidal potential of composite derived from nano-aggregates of Cu-Diclofenac complexes and ZnO nanoparticles*" **15th-18th May, 2019** Abstracts of papers ISBN 978-5-7944-3288-6 (Page-13) International Conference on "Polycarbonyl compounds 2019 dedicated to the 85th anniversary of Yu. S. Andrejchikov", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
28. Sharma, R.; Yadav, L.; **Chaudhary, S.** "*One-pot Chemo/Regio-Selective Synthesis of a Library of Functionalized Spirooxindole from Nitrostyrene as starting materials: An attempt towards potential anticancer agents*" **15th-18th May, 2019** Abstracts of papers ISBN 978-5-7944-3288-6 (Page-15) International Conference on "Polycarbonyl compounds 2019 dedicated to the 85th anniversary of Yu. S. Andrejchikov", Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
29. Sharma, R.; Yadav, L.; Lal, J.; Mathur, M.; Swami, A. K.; **Chaudhary, S.** *"Synthesis of a new series of 5'-(indoline-2-ylmethyl)-3'-(4-methylbenzoyl)-4'-(p tolyl)spiro[indoline-3,2'-pyrrolidin]-2-ones via 1,3-dipolar cycloaddition: x-ray crystal structure, SAR and biological evaluation"* 16th-18th May, **2018** Abstracts of papers ISBN 978-5-7944-3095-0 (Page-55) International Conference on "100 Years of Development of Chemistry: From Synthesis of Polyethylene to Stereodivergence", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
30. Shyamlal, B. R. K.; Yadav, L.; Tiwari, M. K.; Kumar, K.; **Chaudhary S.** "*Microwave-assisted synthesis of c-homoaporphines as potent anticancer and antimalarial agents*" 16th-18th May, **2018** Abstracts of papers ISBN 978-5-7944-3095-0 (Page-58) International Conference on "100 Years of Development of Chemistry: From Synthesis of Polyethylene to Stereodivergence", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
31. Tiwari, M. K.; Yadav, L.; Shyamlal, B. R. K.; **Chaudhary, S.** "*Transition metal-free direct coupling of aldehydes with terminal alkynes: A fast, convenient process for the synthesis of propargylic alcohols*" 16th-18th May, **2018** Abstracts of papers ISBN 978-5-7944-3095-0 (Page-59) International Conference on "100 Years of Development of Chemistry: From Synthesis of Polyethylene to Stereodivergence", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
32. Yadav, L.; Tiwari, M. K.; Shyamlal, B. R. K.; Rawat, N.; **Chaudhary, S.** "*One-pot chemo/regio-selective generation of library of functionalized spirooxindoles/pyrrolidines from naturally occurring chalcones as potential anti-tyrosinase agents*" 16th-18th May, **2018** Abstracts of papers ISBN 978-5-7944-3095-0 (Page-60) International Conference on "100 Years of Development of Chemistry: From Synthesis of Polyethylene to Stereodivergence", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
33. Yadav, R. K.; **Chaudhary S.** "*Metal-free, solvent free direct hydroxylation of imidazo [1, 2-a] pyridines via C (sp^2)-H activation: Synthesis, chemistry and its applications*" 16th-18th May, **2018** Abstracts of papers ISBN 978-5-7944-3095-0 (Page-61) International Conference on "100 Years of Development of Chemistry: From Synthesis of Polyethylene to Stereodivergence", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
34. Jaiswal, P. K.; Sharma, V.; Prikhodko, J. I.; Mashevskaya, I. V.; **Chaudhary, S.** *"On water" ultrasound-assisted one pot efficient synthesis of functionalized 2-oxo-benzo [1, 4] oxazines: First application to the synthesis of anticancer indole alkaloid, Cephalandole A"* 15th-20th July, **2017** Abstracts of papers ISBN No. 978-5-7944-2925-1 (PP-01)

International Conference on "*The study of the biological activities heterocycles with the purpose of creating innovative medicines*", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.

35. Sharma, V.; Jaiswal, P. K.; Saran, M.; Prikhodko, J. I.; Mathur, M.; Swami, A. K.; Mashevskaya, I. V.; **Chaudhary, S.** *An Efficient MW-Assisted, Green Synthesis of Functionalized 2-oxo-3,4-dihydro-2H-benzo[1,4]oxazines and 2-oxo-3,4-dihydroquinoxalines as Potential Antioxidant Agents"* 15th-20th July, **2017** Abstracts of papers ISBN No. 978-5-7944-2925-1 (PP-04) International Conference on "*The study of the biological activities heterocycles with the purpose of creating innovative medicines*", Department of Organic Chemistry, Perm State University, Perm, Russia Federation.
36. Prikhodko, J. I.; Maslivets, A. N.; Mashevskaya, I. V.; **Chaudhary, S.**; Mathur, M. and Swami, A. K. "*Antifungal and Antibacterial activity of products of reaction between hetareno[E]pyrrole-2,3-diones with 2-aminothiophenols"* International Conference on "*Current Trends in Chemical Sciences*" held at Department of Organic Chemistry, Perm State University, Perm, Russia on **19th – 21st Oct, 2016.**
37. Prikhodko, J. I.; Pchelintseva, D. V.; Maslivets, A. N.; Mashevskaya, I. V.; **Chaudhary, S.**; Mathur, M. and Swami, A. K. "*Substituted Methanobenzo[5.6][1,4]Diazepin[1,7-A]Quinoxalin-1,4,8-Triones, displaying antibacterial activity"* International Conference on "*Current Trends in Chemical Sciences*" held at Department of Organic Chemistry, Perm State University, Perm, Russia on **19th – 21st Oct, 2016.**
38. Lal, J.; **Chaudhary, S.** *"Synthesis of Symmetrical NCN Pincer Complexes of First Row Transition Metals: An Attempt towards C-H (Sp^2) Bond Functionalization" National Conference on* "Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges" (**OCSD-2016) 30-31 Aug, 2016** Abstract of papers at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani, Pilani, India.
39. Sharma, R.; Lal, J.; **Chaudhary, S.** *"Microwave-assisted synthesis and antimicrobial activity of novel 2-oxo-benzo-[1, 4]-oxazine analogues" National Conference on* "Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges" (**OCSD-2016) 30-31 Aug, 2016** Abstract of papers at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani, Pilani, India.
40. Yadav, L.; Tiwari, M. K.; Bharti Shyamlal, R. K. and **Chaudhary, S.** (Nov, **2015**), "*New Piperazine-based Organocatalysis for Intramolecular Direct Arylation Reactions*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-100) International Conference on "*Current Challenges in Drug Discovery Research **CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
41. Yadav, L.; Tiwari, M. K.; Bharti Shyamlal, R. K.; Mathur, M.; Swami, A. K.; Naikade, N. K. and **Chaudhary, S.** (Nov, **2015**), "*Novel 1, 2-dioxa-4-aza-indenones and 1, 2-dioxa-4-aza-fluorenones: Synthesis and their in vitro Antimalarial Activity*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-101) International Conference on "*Current Challenges in Drug Discovery Research **CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
42. Tiwari, M. K.; Yadav, L.; Bharti Shyamlal, R. K. and **Chaudhary, S.** (Nov, **2015**), "*Development of New Organo-catalysed Intermolecular Direct Arylation of Arenes with haloarenes/ halo-heteroarenes*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-114) International Conference on "*Current Challenges in Drug Discovery Research **CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
43. Tiwari, M. K.; Naikade, N. K.; Puri, S.K.; Singh, C. and **Chaudhary, S.** (Nov, **2015**), "*New Orally Active Diphenylmethyl-based Ester Analogues of Dihydroartemisinin: Synthesis and Antimalarial Assessment against multidrug-resistant Plasmodium Yoelii Nigeriensis in Swiss mice*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-115) International Conference on "*Current Challenges in Drug Discovery Research **CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
44. Tiwari, M. K.; Naikade, N. K.; Puri, S.K. and **Chaudhary, S.** (Nov, **2015**), "*Synthesis & Antimalarial activity of novel Artemisinin-1, 2, 4-Trioxane hybrids*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-116) International Conference on "*Current Challenges in Drug Discovery Research **CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
45. Jaiswal, P. K. and **Chaudhary, S.** (Nov, **2015**), "*Organocatalytic, Natural Product Inspired C-C bond forming domino approaches: Application towards the synthesis of bioactive heterocycles*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (SIL-48) International Conference on "*Current Challenges in Drug Discovery Research **CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
46. Jaiswal, P. K.; Sharma, V. and **Chaudhary, S.** (Nov, **2015**), "*Development of highly efficient one pot green synthetic protocol for the construction of benzo [1, 4] oxazin-2-one incorporated novel Antiplatelet agents*" 23rd-25th Nov, 2015

Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-128) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.

47. Jaiswal, P. K.; Sharma, V.; Gaikwad, A. N.; Sinha, S. K.; Puri, S. K.; Sharon, A.; Maulik, P. R.; Chaturvedi, V. and **Chaudhary, S.** (Nov, **2015**), "*An expedient Synthesis of Stable Tricyclic Antitubercular Ozonides Derived from Artemisinin*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-129) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
48. Bharti Shyamlal, R. K.; Yadav, L.; Tiwari, M. K. and **Chaudhary, S.** (Nov, **2015**), "*Silver-Catalysed Highly Regio-selective modified Castro-Stephens Reaction: Application to the Synthesis of Substituted-Isocoumarins*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-80) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
49. Bharti Shyamlal, R. K.; Yadav, L.; Tiwari, M. K.; Mathur, M.; Swami, A. K.; and **Chaudhary, S.** (Nov, **2015**), "*Synthesis of Novel Dimeric Aporphines and their Acetylcholinesterase Inhibitory Activity*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-81) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
50. Sharma, R.; Jaiswal, P. K. and **Chaudhary, S.** (Nov, **2015**), "*A metal free domino approach towards the microwave assisted direct synthesis of novel 2-oxo-benzo-(1, 4)-oxazine analogues as potential antimicrobial agents*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-151) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
51. Sharma, R.; Jaiswal, P. K. and **Chaudhary, S.** (Nov, **2015**), "*A new insight towards the development of green synthetic protocol for Chalcone derived pharmaceutically demanding N-heterocycles and their biological activity evaluation*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-152) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
52. Sharma, V.; Jaiswal, P. K. and **Chaudhary, S.** (Nov, **2015**), "*Studies towards Benzo (1, 4) oxazine-2-one based novel antifungal agents: Design, Synthesis and their in vitro antifungal activities*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-181) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
53. Sharma, V.; Jaiswal, P. K. and **Chaudhary, S.** (Nov, **2015**), "*Microwave-assisted green synthesis of novel functionalized Benzo (1, 4) oxazine analogues and their Anti-oxidant activity*" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-182) International Conference on "*Current Challenges in Drug Discovery Research* ***CCDDR-2015***", MNIT Jaipur-302017, Rajasthan, India.
54. *Poster presentation*, Sharma, V.; Jaiswal, P. K.; Prikhodko, J. I.; Mathur, M.; Swami, A. K.; Mashevskaya, I. V.; and **Chaudhary, S.** (PP-235)"*Microwave-assisted synthesis of five-membered 2,3-dioxo-heterocycles and their anti-fungal, anti-bacterial and anti-oxidant activity evaluation*", N*ational conference on "Frontiers at the Chemistry-Allied Interface" (FCASI-2015)*, 13th-14th March, **2015**, Centre of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur-302017, India.
55. *Poster presentation*, Jaiswal, P. k.; **Chaudhary, S.**; and Samanta, S. (PP-234) "*A novel C-C bond forming domino approach for the direct synthesis of highly substituted tetrahydrocarbazoles and carbazoles under organocatalytic environment*", N*ational conference on "Frontiers at the Chemistry-Allied Sciences Interface (FCASI-2015)*, 13th-14th March, **2015**, Centre of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur-302017, India.
56. **Chaudhary, S.** (27 Feb, **2015**) "*An enantioselective synthesis of an anti-hypercholesterolemic drug atorvastatin calcium (Lipitor) via direct catalytic asymmetric aldol reaction of thioamides*", *21st ISCB international conference* (ISCBC ***2015***)-*Current trends in drug discovery and developments*, CSIR-Central Drug Research Institute, Lucknow, India.
57. *Poster presentation*, Pradeep k. Jaiswal, **Chaudhary, S.**; and Sampak Samanta (27 Feb, **2015**) "*An organocatalytic novel C-C bond forming approach for the direct synthesis of highly substituted tetrahydrocarbazoles and carbazoles*", *21st ISCB international conference* (ISCBC ***2015***)-*Current trends in drug discovery and developments*, CSIR-Central Drug Research Institute, Lucknow, India.
58. *Poster presentation*, **Chaudhary, S.**; Naikade, N. K. & Singh, C. (26 Sep, **2014**) "*$^1O_2$-Mediated Photo-oxygenation Ene Reaction on Artemisinin-Linked Allyl Alcohols: An Efficient methodology to Generate Antimalarial Artemisinin-1,2,4-Trioxane hybrid*", *3rd international conference on Advanced oxidation Process* (AOP ***2014***), East end Hotel, Munnar, Organized by Mahatma Gandhi University, Kottayam, Kerala, India

59. *Poster presentation*, **Chaudhary, S.**; Puri, S. K. & Singh, C. (Mar, **2014**) "*Novel seco-artemisinin analogues: Design, synthesis and in vivo antimalarial assessment in search for putative antimalarial structural motif via pruning of artemisinin framework*", *20th ISCBC international conference on Chemistry and Medicinal Plants in Translational Medicine for Healthcare* (***ISCBC 2014***), Dept. of Chemistry, University of Delhi, India.
60. **Chaudhary, S.** and Harding, W. W. (December, **2012**), "*Microwave-Assisted Direct Arylation for the Synthesis of Novel Aporphines as 5-HT_{2a} and α_{1A} Receptor Antagonist*" Abstracts of papers "Chemistry for a Sustainable future" International workshop on Green Chemistry, Jaipur, Rajasthan, India.
61. *Poster presentation*, **Chaudhary, S.** "*Frontiers of medicinal science*" 8th AFMC International medicinal chemistry symposium (AIMECS), **Nov-Dec, 2011**, Tokyo, JAPAN.
62. *Poster presentation*, **Chaudhary, S.** "*Chembiomolecular Science: at the frontier of Chemistry and Biology*", The Uehara memorial foundation international symposium, (June, **2011**), Tokyo, JAPAN.
63. **Chaudhary, S.** and Harding, W. W. (August **2010**), "*Synthesis of homoaporphines via microwave-assisted direct arylation*", Abstracts of papers in Sci Finder and *Poster presentation,* 240th ACS national meetings & expositions, Boston, MA, U.S.A.
64. Pecic, S.; **Chaudhary, S.**; Navarro, H. A.; and Harding, W. W. (March, **2010**), "*Nantenine analogs as 5-HT_{2A} receptor antagonists: Synthesis, biological evaluations and receptor docking studies*", Abstracts of papers in Sci Finder and *Poster presentation,* 239th ACS national meetings & expositions, San Francisco, California, U.S.A.
65. **Chaudhary, S.** and Harding, W. W. (August, **2009**), "*Application of microwave-assisted direct biaryl coupling reaction for the synthesis of aporphine alkaloids*" Abstracts of papers in SciFinder and *Poster presentation*, 238th ACS national meetings & expositions, Washington D C, U.S.A.
66. Pecic, S.; **Chaudhary, S.**; Legendre, O.; and Harding, W. W. (August, **2008**), "*Development of 5HT_{2A} antagonists based on the aporphine alkaloid nantenine*" Abstracts of papers in Sci Finder & *Poster presentation*, 236th ACS national meetings & expositions, Philadelphia, Pennsylvania, U.S.A.
67. *Poster presentation*, **Chaudhary, S.**; Gaikwad, A. N.; Sinha, S.; Chaturvedi, V. Manju, Y. K. and Singh, C. (Feb, **2007**) "*Artemisinin derived stable ozonides: Synthesis and antitubercular activities*", 3rd international symposium on current trends in drug discovery research (**CTDDR-2007**), CSIR-Central Drug Research Institute, Lucknow, India.
68. *Poster presentation*, **Chaudhary, S.**; Puri, S. K. and Singh, C. (Jan, **2006**) "*Novel orally active C-10α ester analogues of dihydroartemisinin as antimalarials*", *Joint international conference on building bridges, forging bonds for 21st century organic chemistry and chemical biology* (***ACS CSIR OCCB-2006***), CSIR-National Chemical Laboratory, Pune India.
69. *Poster presentation*, **Chaudhary, S.**; Puri, S. K. & Singh, C. (Feb, **2004**) "*Orally active artemisinin derivatives*", 2nd international symposium on current trends in drug discovery research (**CTDDR-2004**), CSIR-Central Drug Research Institute, Lucknow, India.

Presentations/ Participation in International/National Meetings/ Workshops/ Sponsored Programs

1. Served as "**Guest of Honour**" on 10 April, 2026 in "Annual Award function" of the Chemical Society, Department of Chemistry, St. Andrew's College, Gorakhpur.
2. Attended National Seminar on "*Novel Paradigms in Controlled Drug Delivery to Strengthen Innovation and Translation in Pharmaceutical Formulations*" Organized by NIPER-Raebareli in Collaboration with "*Controlled Release Society-Indian Chapter (CRSIC)*", Hotel Hilton Garden Inn, Gomti Nagar, Lucknow on **Dec 22, 2023**.
3. Attended International Webinar (Online mode) on 'Post-COVID Challenges and opportunities for the chemist', jointly organized by Indian Science Congress Association (Delhi Chapter) and Department of Chemistry, University of Delhi on **Dec 28, 2021**.
4. Attended International Virtual Workshop 'Bioelectronic Medicine', jointly organized by IIT (BHU) Varanasi and IISc Bangalore and co-hosted by the Henry Royce Institute, The University of Manchester, UK on **Dec 16, 2021**.
5. Attended RSC-IISER Desktop Seminar with OBC, organized by RSC publishing Webinars, Royal Society of Chemistry, UK on **Nov 25, 2021**.
6. Attended RSC-IISER Desktop Seminar with ChemComm, organized by RSC publishing Webinars, Royal Society of Chemistry, UK on **Aug 06, 2021**.
7. Attended 1st Virtual International Symposium on C-H Bond activation, **2021**, organized by Georg-August-Universität Göttingen, Germany from **27-30 July, 2021**.
8. Certified and Attended E-seminar on "Research and Ethics" on **8th July, 2020** Organized by Department of Applied Science, SAGE Institute of Research and Technology, SAGE University, Indore (M.P).

9. Participated in International e-Symposium on "Diversification of Indian Agricultures: Ancient to Modern" Organized by School of Agriculture, Suresh Gyan Vihar University, Jaipur from **17-18 June, 2020**.
10. Attended 3 days Online National Workshop in Structural Bioinformatics in "*In Silico Techniques in Drug Designing"*, **2020**, Jointly organized by Bioinformatics Centre (SubDIC), Department of Biotechnology, Barkatullah University, Bhopal & Corporate Institute of Pharmacy, Bhopal from **27-29 May, 2020**.
11. Attended/Participated in "*Workshop on the Application of Direct Analysis in Real Time Mass Spectroscopy (DART-MS) Techniques*, **24-25 Sep**, **2013**, CSIR-CDRI, Lucknow.
12. Attended/Participated in "*Brainstorming Conference/Workshop on Science, Technology and Innovation Policy (STI Policy, DST), 2013*" organized by MNIT Jaipur (**30th April, 2013**), India.
13. National Workshop attended on "*Modern Sophisticated Instruments*", Indian Institute of Technology, Indore (Feb, **2013)**, India.
14. "21st Symposium on optically active compounds" Institute of microbial chemistry, Microbial chemistry research foundation, **Nov, 2011**, Tokyo, JAPAN.
15. Workshop attended on "*Responsible conduct of research*", (May, **2010)**, the City University of New York, New York, U.S.A.
16. "*Sponsored Program & Funding: CUNY postdoctoral development program*", (April, **2010),** The City University of New York, U.S.A.
17. "*Autism: Integrating genes, brain and behavior*" 23rd annual international symposium, (Jan, **2010**), Center for study of gene structure & function, The City University of New York, New York, U.S.A.
18. Workshop attended on "*Responsible conduct of research*", (Oct, **2009)**, The City University of New York, New York, U.S.A.
19. "*Autism: Integrating genes, brain and behavior*" 22nd Annual International Symposium, (Jan, **2009**), Center for study of gene structure & function, the city university of New York, New York, U.S.A.
20. Workshop attended on "*CUNY Postdoc development programme",* (Oct, **2008**), The City University of New York, New York, U.S.A.

Conferences/ Workshops/ Symposia /Short Term Training Programme/ Short Term Course/ Community Development Programme (CDP) / Faculty Development Programme (FDP)/ Invited lectures Organized

1. *Programme on* ***"Leadership Development Programme for Scientists (DST Sponsored)"*** organized by Administrative Staff College of India (ASCI), Bella Vista, Hyderabad from 14-18 Oct, 2024.
2. ***International Symposium*** on "***Toxicology and Applied Pharmacology***" at NIPER-Raebareli on 29-30 Sep, 2022. (as **Patron**)
3. ***SERB-DST Sponsored International Conference*** on **"*Current Challenges in Drug Discovery Research*" CCDDR 2015** at Department of Chemistry, MNIT Jaipur on 23-25 Nov, 2015. (as **Convener & Organizing Secretary, CCDDR 2015**)
4. **"*AIDS Awareness Programme*"** as part of Community Development Programme organized at Department of Chemistry, MNIT Jaipur on 1st Dec, **2014**. (as Programme Coordinator)
5. **"*CANCER Awareness Programme*"** as part of Community Development Programme organized at Department of Chemistry, MNIT Jaipur on 19th Nov, **2014**. (as Programme Coordinator)
6. Served as ***Programme coordinator*** for organizing several "***Invited Lecture***" by eminent expert in the Department of Chemistry, MNIT Jaipur from **2013-2015**.

Invited Talks/ Plenary lecture/ Chaired Session

1. **Invited Lecture** on "*Natural-Product-Inspired AI/ML-Assisted Drug Discovery with Special Emphasis on Virtual Screening: Challenges and Opportunities*" **11 June, 2026** *National Faculty Development Programme (Online)*, organized by College of Pharmacy, Integral University, Lucknow-226026, India.
2. **Invited Lecture** on "*From Curiosity to Contribution: Fueling Research Excellence and Motivation to Next Generation towards Chemical Science*" **13 April, 2026** organized by the Department of Chemistry, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur-273009, U.P, India.
3. **DISTINGUISHED LECTURE** on "*Reengineering 1,2,4-Trioxane Pharmacophore Toward Next-Generation Anticancer Therapeutics: From Rational Design and Synthesis to Bioevaluation and Computational Exploration*" **26-28 Mar, 2026** International Conference on "*Biotech Innovations 2026: From Discovery to Translation*", organized by Suresh Gyan Vihar University- Biotechnology Business Incubator and School of Applied Sciences, SGVU, Jaipur, India.

4. **Invited Lecture** on "*N-Heterocyclic Carbene Organocatalysis in C–H Activation: Sustainable Strategies for C–C/C–N Bond Construction in Bioactive Aza-Heterocycles*" **6-7 Mar, 2026** *International Conference on Chemical Synthesis and Advanced Materials* (ICCSAM 2026), organized by the Department of Chemistry, SVNIT Surat-395007, Gujarat, India.
5. **Invited Lecture** on "*Harnessing Nature's Blueprint for the Development of Next-Generation Anticancer Congeners*" **30-31 Jan, 2026** *International Conference - Comprehensive Approaches to Cancer: Prevention, Diagnosis and Holistic Management-2026* (IC-CPDHM-2026), organized by the Department of Pharmacy, Suresh Gyan Vihar University, Jaipur, India.
6. **Invited Lecture** on "*Natural Product-Driven Discovery of Intrinsically Fluorescent Imidazo[2,1-b][1,3]thiazin-5-one as Cytotoxic Synthon*" **16 Jan, 2026** One-Day Hands-on Training on Fluorescence Spectrophotometer conducted under Scientific Social Responsibility (SSR) activity of ANRF, at the Department of Medicinal Chemistry, NIPER-Raebareli, Lucknow, India.
7. **KEYNOTE LECTURE** on "*Exploration of Natural-Product-Inspired Bioactive Alkaloids and Terpenes: Synthetic Strategies and Practical Applications*" **3-4 Sep, 2025** *International Symposium on "Integrated Computational and Experimental Methods for Innovation in Chemistry and Interdisciplinary Sciences (ICEMI-CHEMIS 2025)*," organized by School pf Sciences, P. P. Savani University, Surat, Gujarat, India.
8. **Invited Lecture** on "*Artemisinin, A Sesquiterpene Peroxide-based Antimalarial Drug: A Nobel Medicine for Malaria*" **24-25 Feb, 2025** National Conference on "*Recent Breakthrough in Pharmaceutical Sciences- From bench Innovations to laboratory applications and beyond*" February 24-25, 2025 Organized by the Department of Pharmacy, Amity University, Lucknow (U.P).
9. **Invited Lecture** on "*Role of Pharmaceutical Chemistry in Drug Discovery: Current Scenario, Scope and Future Opportunities*" **20 Feb, 2025** Guest Lecture organized by Department of Pharmacy, Amity University, Lucknow, U.P.
10. **Invited Lecture** on "*Artificial Intelligence and Machine Learning-Assisted Drug Discovery in AYUSH/Traditional Medicine with Special Emphasis on Virtual Screening: Challenges and Opportunities*" **12 Feb, 2025** International Conference on "Innovation in Unani Medicine for integrative Health Solution: A Way forward", organized by CCRUM, Ministry of Ayush, GOI at Vigyan Bhawan, New Delhi.
11. **CHAIRED SESSION** Technical Session II: 13:45 – 16:15 on **16 Dec, 2024** in *National Seminar on "Harnessing Artificial Intelligence and Machine learning for Ayush: Prospectus and Challenges"*, organized by Central Research Institute of Unani Medicine (CRIUM), Lucknow in collaboration with CCRUM, Ministry of Ayush, GOI.
12. **Invited Lecture** on "*Artificial Intelligence and Machine Learning-Assisted Drug Discovery in Unani Medicine with special emphasis on Virtual Screening: Challenges and Opportunities*" **16 Dec, 2024** *National Seminar on "Harnessing Artificial Intelligence and Machine learning for Ayush: Prospectus and Challenges"*, organized by Central Research Institute of Unani Medicine (CRIUM), Lucknow in collaboration with CCRUM, Ministry of Ayush, GOI.
13. **KEYNOTE LECTURE** delivered in National Conference entitled "D*rug Discovery in Pharmaceutical Sciences and its Future Prospectives*" on title "*Artemisinin, A Sesquiterpene Peroxide-based Antimalarial Drug: A Major Breakthrough in the Chemotherapy of Malaria*" Organized by Siddhartha Institute of Pharmacy, Dehradun on **9 May, 2024** in collaboration with APTI, Uttarakhand and Uttarakhand Technical University, Dehradun, India.
14. **KEYNOTE LECTURE** on "*Exploration of Artemisinin Analogues as Potent Antimalarials: A Journey towards Drug discovery and development*" **26-27 Apr, 2024** *International Conference on "Recent Advances in Biotechnology & Biomedical Sciences" (BIOTECH NEXUS 2024)*, organized by Suresh Gyan Vihar University- Biotechnology Business Incubator and School of Applied Sciences, SGVU, Jaipur, India.
15. **CHAIRED SESSION** "*Oral Presentation Session-VII*" on **26-27 Apr, 2024** at *International Conference on "Recent Advances in Biotechnology & Biomedical Sciences" (BIOTECH NEXUS 2024)*, organized by Suresh Gyan Vihar University- Biotechnology Business Incubator and School of Applied Sciences, SGVU, Jaipur, India.
16. **Invited Lecture** on "*Exploration of Natural-Product-Inspired Bioactive Alkaloids and Terpenes: Synthetic Strategies and Practical Applications*" **20-21 Mar, 2024** *National Conference on Recent Trends in Chemical Sciences Research and Future prospects (NCRTCSRFP 2024)*, organized by Department of Chemistry, St. Andrew's College, Gorakhpur-273008, U.P., India.
17. **CHAIRED SESSION** at "*Oral Session-I: 3:00 PM – 6:30 PM Best Oral Presentation Award Competition"* **16-18 Feb, 2024** *International Conference on Traditional Medicine & Phytopharmaceuticals, and the 11th International Congress of the Society for Ethnopharmacology (ICTMP-SFEC 2024)*, organized by Natural Product and Medicinal Chemistry Division, CSIR-IIIM, Jammu-180001, J.K., India.
18. **Invited Lecture** on "*Exploration of Natural-Product-Inspired Bioactive Alkaloids/Terpenes: Synthetic Strategies and Applications*" **16-18 Feb, 2024** *International Conference on Traditional Medicine & Phytopharmaceuticals, and the*

11th International Congress of the Society for Ethnopharmacology (ICTMP-SFEC 2024), organized by Natural Product and Medicinal Chemistry Division, CSIR-IIIM, Jammu-180001, J.K., India.

19. **Chairperson** in National Seminar on "*Novel Paradigms in Controlled Drug Delivery to Strengthen Innovation and Translation in Pharmaceutical Formulations*" organized by NIPER-Raebareli in collaboration with Controlled Release Society-Indian Chapter(CRSIC) on **22 Dec, 2023**.
20. **CHAIRED SESSION** at "*Sessions II- Natural Product Synthesis 18 Dec, 2023*" "**18-19 Dec, 2023** *International Symposium on 4th Flow Chemistry and Natural Product Synthesis*, organized by Department of Medicinal Chemistry, NIPER-Kolkata, W.B.
21. **Invited Lecture** on "*Artemisinin, A Sesquiterpene Peroxide-based Antimalarial Drug: A Nobel Medicine for Malaria*" **18-19 Dec, 2023** *International Symposium on 4th Flow Chemistry and Natural Product Synthesis*, organized by Department of Medicinal Chemistry, NIPER-Kolkata, W.B.
22. **KEYNOTE SPEAKER** (Guest of Honour at Valedictory Ceremony) on "*An Overview of Drug Discovery: Journey from bench-side to Bed-side*" at Valedictory ceremony of International Conference cum Workshop on "*Alternatives to animal experiments: Exploring imminent possibilities in preclinical drug discovery using computational tools*" [AAE-2023] at Amity Institute of Pharmacy, Amity University, Lucknow campus (UP)" held on **3 Nov, 2023**.
23. **CHAIRED SESSION** at "*Parallel Sessions IX-C 18 Nov, 2022*" 16-19 Nov, 2022 "27th ISCBC-2022 International Conference on Research and Innovation in Chemical, Pharmaceutical and Biological Sciences", organized at Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi (JH).
24. **Invited Lecture** on "*Oxidant-Promoted, Palladium-catalyzed, Regioselective Synthesis of Bioactive Heterocycles via C–H Bond Activation: Chemistry on 1-Aryl-1H-indazoles and 2-Aryl-2H-indazoles*" 16-19 Nov, **2022** "27th ISCBC-2022 International Conference on Research and Innovation in Chemical, Pharmaceutical and Biological Sciences", organized at Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi (JH).
25. **CHAIRED SESSION** at "T-5 Development of key intermediates and APIs" 11 Nov, **2022** "International Conference on Recent Trends and Future Opportunities in Pharmaceuticals (NIPER PHARMACON-2022)", organized at NIPER-SAS Nagar, Punjab.
26. **Oral Presentation** on "*Synthetic Halogenated Arylvinyl-1,2,4 Trioxanes as Potential Anticancer Agents: Synthesis, Bioevaluation, SAR and In-silico Studies*" **10-12 Nov, 2022** "International Conference on Recent Trends and Future Opportunities in Pharmaceuticals (NIPER PHARMACON-2022)", organized at NIPER-SAS Nagar, Punjab.
27. **ONLINE Invited Lecture** on "*An Enantioselective Synthesis of an Anti-hypercholesterolemic drug Atorvastatin Calcium (Lipitor)*" in NIPER Research Symposium, organized by NIPER-Kolkata, India on **15th Feb, 2022**.
28. **ONLINE Invited Lecture** on "*Practical Approaches in C-H Bond Activation: Theory and Practical Applications*" at *ALL RUSSIAN SCIENTIFIC AND PRACTICAL CONFERENCE WITH INTERNATIONAL PARTICIPATION* on "*RESOURCE-SAVING AND ENVIRONMENTALLY FRIENDLY PROCESSES IN CHEMISTRY AND CHEMICAL TECHNOLOGY*" held on **8 Dec, 2021** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **6th – 8th Dec, 2021.**
29. **ONLINE Plenary Lecture** on "*Oxidative Cross-Dehydrogenative Coupling (CDC) via $C_{(sp^2)}$–H bond Functionalization: tert-Butyl Peroxybenzoate-promoted Regioselective Direct C-3 Acylation/ Benzoylation of 2H-Indazoles with Aldehydes/Benzyl Alcohols /Styrenes*" at *ALL RUSSIAN SCIENTIFIC AND PRACTICAL CONFERENCE WITH INTERNATIONAL PARTICIPATION* on "***RESOURCE-SAVING AND ENVIRONMENTALLY FRIENDLY PROCESSES IN CHEMISTRY AND CHEMICAL TECHNOLOGY***" held on **8 Dec, 2021** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **6th – 8th Dec, 2021**.
30. **ONLINE Plenary Lecture** on "*Oxidant-Promoted C-H Bond Activation Reactions: Chemistry and Practical Approaches Towards Natural-Product-Inspired Bio-Heterocycles*" at *ALL RUSSIAN SCIENTIFIC AND PRACTICAL CONFERENCE WITH INTERNATIONAL PARTICIPATION* on "***RESOURCE-SAVING AND ENVIRONMENTALLY FRIENDLY PROCESSES IN CHEMISTRY AND CHEMICAL TECHNOLOGY***" held on **7 Dec, 2021** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **6th – 8th Dec, 2021.**
31. **ONLINE Plenary Lecture** on "*Organocatalyzed C-H Bond Activation Reactions: Environmentally Benign Strategies towards the Synthesis of Bioactive Heterocycles*" at *ALL RUSSIAN SCIENTIFIC AND PRACTICAL CONFERENCE WITH INTERNATIONAL PARTICIPATION* on "***RESOURCE-SAVING AND ENVIRONMENTALLY FRIENDLY PROCESSES IN CHEMISTRY AND CHEMICAL TECHNOLOGY***" held on **6 Dec, 2021** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **6th – 8th Dec, 2021.**
32. **ONLINE Invited Lecture** on "*Microwave-Assisted, Regio-/Stereo-selective Synthesis of Novel Functionalized Spiro[pyrrolidine-2',3'-oxindoles]: Design, X-Ray Crystal Studies, Anticancer Activities and SAR Studies*" in "**Perm**

Scientific Forum: Science and Global Challenges of the XXI century" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **19th Nov, 2021**.

33. **ONLINE Invited Lecture** on "*Novel functionalized para-(Aryloxy)-Arylvinyl-1,2,4 Trioxanes as Anti-cancer Agents: Synthesis, Bioevaluation and SAR Studies*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **19th Nov, 2021**.
34. **ONLINE Invited Lecture** on "*Ultrasound-Assisted Synthesis of Novel Spirooxindole Derivatives via One-Pot Three-Component 1,3-Dipolar Cycloaddition Reactions: Synthesis, Stereochemical Assignment, Antimicrobial and Antitubercular Activities, SAR and in silico Studies*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **18th Nov, 2021**.
35. **ONLINE Invited Lecture** on "*Oxidative Cross-Dehydrogenative Coupling (CDC) via $C_{(sp^2)}$–H bond Functionalization: tert-Butyl Peroxybenzoate (TBPB)-promoted Regioselective Direct C-3 Acylation/Benzoylation of 2H-Indazoles with Aldehydes/Benzyl Alcohols/Styrenes*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **18th Nov, 2021**.
36. **ONLINE Invited Lecture** on "*Pd-Catalyzed Oxidant Switched Regioselective Mono- and Bis-ortho-Aroylation of 1-Aryl-1H-Indazole with Aldehydes via $C_{(sp^2)}$–H Bond Activation*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **17th Nov, 2021**.
37. **ONLINE Invited Lecture** on "*N-Heterocyclic Carbene-Catalyzed Deoxygenative α-Benzylation of Ketones via $C_{(sp^3)}$-H bond activation: Synthesis, Chemistry, and Practical Applications*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **17th Nov, 2021**.
38. **ONLINE Invited Lecture** on "*Cu-Catalyzed C-N Bond formation via $C_{(sp^2)}$-H bond functionalization: Application to the synthesis of Novel 2-Phenyl-5H-imidazo[2,1-b][1,3]thiazin-5-ones - Sulphonamide Hybrids*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **16th Nov, 2021**.
39. **ONLINE Invited Lecture** on "*Microwave-Assisted Synthesis of 2-Phenyl-5H-imidazo[2,1-b][1,3]thiazin-5-ones: Design, Synthesis, Chemistry and Photophysical and Cytotoxicity Activity*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **16th Nov, 2021**.
40. **ONLINE Invited Lecture** on "*Lewis Acid/Oxidant as Rapid Regioselective Halogenating Reagent System for Direct Halogenation of Fused Bi-/Tri-cyclic Hetero-aromatic Congeners via $C_{(sp^2)}$–H bond Functionalization*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **15th Nov, 2021**.
41. **ONLINE Invited Lecture** on "*Metal-Free, H_2O_2-Mediated, Regioselective Direct C-3 Hydroxylation of Imidazo[1,2-a]pyridines via $C_{(sp^2)}$-H Bond Functionalization*" in "**Perm Scientific Forum: Science and Global Challenges of the XXI century"** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **15th Nov, 2021**.
42. **ONLINE CHAIRED SESSION** at Virtual International Conference on '***Emerging Trends in Medicinal Chemistry–2021' (ETMC-2021)*** organized by the Department of Chemistry, S. V. National Institute of Technology (SV NIT), Surat on 18th - 19th March, 2021.
43. **ONLINE Invited Lecture** on "*Transition-Metal-Free/Oxidant-Promoted $C_{(sp^2)}$-H Bond Activation/ Functionalization Reactions: Chemistry and Practical Approaches towards Bioactive Heterocycles*" at Virtual International Conference on '***Emerging Trends in Medicinal Chemistry–2021' (ETMC-2021*)** organized by the Department of Chemistry, S. V. National Institute of Technology (SV NIT), Surat during 18th - 19th March, 2021.
44. **ONLINE Invited Lecture** on "*Learning and Teaching Online in Indian Education System During Covid-19 Pandemic: An Overview*" at V Prikamsky congress of Chemistry Teachers "*Continuous chemical education- trends and directions of developments*" held on **5th Nov, 2020** at the Faculty of Chemistry, Perm State University, Perm, Russia on **5th Nov, 2020**.
45. **ONLINE Invited Lecture** on "*Transition Metal-Free Direct Coupling of Aldehydes with Terminal Alkynes: An Efficient Process for the Synthesis of Pharmaceutically Privileged α, β-Unsaturated Ketones (Chalcones) and Propargylic Alcohols*" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **30th Oct, 2020**.

46. **ONLINE Invited Lecture** on "*2,3-Bis-(2-pyridyl)Pyrazine as an Efficient Organocatalyst for the Direct $C_{(sp^2)}$-H Arylation of Unactivated Arenes/Heteroarenes*" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **30th Oct, 2020**.
47. **ONLINE Invited Lecture** on "*Novel Functionalized 1,2,4-Trioxanes as Antimalarial and Anticancer agents: Synthesis, Chemistry, Bioevaluation, SAR and in silico studies*" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **29th Oct, 2020**.
48. **ONLINE Invited Lecture** on "*Microwave-Assisted Synthesis of C_8-Substituted Methylxanthines via Cross-Dehydrogenative Coupling (CDC) Strategy: Synthesis, Chemistry, Bioevaluation and their Practical Applications*" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **29th Oct, 2020**.
49. **ONLINE Invited Lecture** on "*Novel C-Homoaporphine Analogues: Synthesis, Chemistry, Bioevaluation and their Structure-Activity Relationship studies*" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **26th Oct, 2020**.
50. **ONLINE Invited Lecture** on "*C-3 Tethered isobenzofuran-1(3H)-ones and ortho-Substituted-1H-isochromen-1-ones as Potent Antioxidant and Antiplatelet Agents: Design, Synthesis, Biological Evaluation, SAR and in silico Studies*" at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **26th Oct, 2020**.
51. **ONLINE Invited Lecture** on "*Organocatalyzed Decarboethoxy C-N Bond Formation: Application to the Synthesis of Indolo[2,1-a]isoquinoline and Dibenzopyrrocolone Alkaloids*" at All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine***" held on **22 Oct, 2020 [5:00 PM-5:30 PM]** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **20th – 22nd Oct, 2020**.
52. **ONLINE Invited Lecture** on "*Metal-Free, Oxidant-Promoted, Csp^2-Csp^3 Cross-Dehydrogenative Coupling: Chemistry and its Practical Application*" at All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine***" held on **22 Oct, 2020 [4:30 PM-5:00 PM]** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **20th – 22nd Oct, 2020**.
53. **ONLINE Plenary Lecture** on "*Organocatalysis in $C_{(sp^2)}$-H Bond Activation Reactions: Chemistry and Applications to the Synthesis of Bioactive Heterocycles*" at All-Russian Scientific Conference with International Participation on "***Organic Chemistry for Agriculture and Medicine***" held on **21 Oct, 2020** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **20th – 22nd Oct, 2020**.
54. "*Metal-Free C-H Bond Activation Reactions: Approach to Access Bioactive Heterocycles via Modifying Guareschi-Thorpe & Favorskii Reactions*" at **28th-29th Feb, 2019** International Conference on "*Frontier Areas of Chemistry (ICFAC) 2020"*, Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, Bihar-845401, India.
55. **Plenary Lecture** on "*Artemisinin, a Nobel Medicine: A Booming Drug in Antimalarial Chemotherapy*" at *4th International Conference on Pharmacy and Pharmaceutical Sciences 2019* with the Theme: "*Innovative Approaches, analysis and Developments in Pharmacy and Pharmaceutical Science*" (4th ICPPS, 2019) on **14 Dec, 2019** at Bangkok, Thailand from **December 13th - 14th, 2019.**
56. "*Exploration of natural product inspired bioactive heterocycles from bench-side to bed-side: A journey towards drug discovery and development.*" on **17 May, 2019** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **15th – 18st May, 2019.**
57. "*Development of Organocatalyzed sp2 C-H bond activation reactions: Synthesis, Chemistry, Scope and its practical applications*" on **17 May, 2019** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **15th – 18st May, 2019.**
58. "*Ag_2O nanoparticle-catalyzed substrate-controlled regioselectivities: Direct access to bioactive 3-ylidenephthalides and isocoumarins*" on **16 May, 2019** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **15th – 18st May, 2019.**
59. **Invited Lecture** on "*Indian education system: An overview*" at IV Prikamsky congress of Chemistry Teachers "*Continuous chemical education- trends and directions of developments*" held on **17 May, 2019** at the Faculty of Chemistry, Perm State University, Perm, Russia on **15th – 18st May, 2019.**
60. **Plenary Lecture** on "*Carbonyl compounds as universal synthetic precursors for the direct access to natural product inspired bioactive pyridine-based heterocycles*" at International Conference on "*Polycarbonyl compounds 2019 dedicated to the 85th anniversary of Yu. S. Andrejchikov*" held on **15 May, 2019** at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **15th – 18st May, 2019.**
61. "*Role of Chemistry in Drug Discovery: Current Scenario, Scope and Future Opportunities*" at the Faculty of Basic and Applied Science, Vivekananda Global University, Jaipur on **31 January, 2019**.

62. "*Recent Development in Interdisciplinary Research in Chemical Sciences at Laboratory of Organic and Medicinal Chemistry, MNIT Jaipur*" at National Workshop on "*MIND-MELD - How Interdisciplinary are you*" held at Manipal University, Jaipur on **29 July, 2017**.
63. "*Transition metal-catalyzed/Organo-Catalyzed C-H Bond Activation/Functionalization: Scope and Applications*" at Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, Slovenia. on **27th Dec, 2016**.
64. **Plenary Lecture** on "*Artemisinin Derived Stable Ozonides: Synthesis, Chemistry, X-ray studies, in vitro and in vivo Antitubercular activities, SAR and molecular docking studies*" at International Conference on "*Current Trends in Chemical Sciences*" held at Department of Organic Chemistry, Perm State University, Perm, Russia on **19th – 21st Oct, 2016.**
65. "*Recent developments in the Chemistry and biology of Antimalarial drug Artemisinin*" at National Conference (**OCSD-2016**) on "Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges" held at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani, Pilani, India on **29th-30th August, 2016**.
66. "*Carbon-Carbon Bond Forming Reactions: Classical vs Modern*" at Department of Chemistry, Goa University, Goa, India on **22nd March, 2016**.
67. "*Recent Advances in Antimalarial Peroxide-based Natural Product, Artemisinin: A Nobel Medicine for Malaria*" at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani-Goa Campus, Goa, India on **21st March, 2016**.
68. "*Recent Advances in Antimalarial Peroxide-based Chemotherapy for Malaria: Artemisinin, A Nobel Medicine*" at One Day Symposium (**ETACS-2016**) on "Emerging Trends in Applied Chemical Sciences (ETACS-2016)" held at Department of Chemistry, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Bandarsindri, Kishangarh, Ajmer, India on **18th March, 2016**.
69. "*Artemisinin, an Nobel Medicine: Still Only Drug of Choice for the Treatment of Malaria*" at Department of Chemistry, Mohanlal Sukhadia University, Udaipur, India on **23th February, 2016**.
70. "*Wittig Reaction in Organic Synthesis*" at Department of Chemistry, Alankar P.G. Girls College (Affiliated to University of Rajasthan), Jaipur, India on **12th February, 2016**.
71. "*Discovery of Artemisinin as Nobel medicine: A Gift from Traditional Chinese herb Artemisia Annua*" at Department of Chemistry, Sardar Vallabhbhai National Institute of Technology, Surat, India on **9th February, 2016**.
72. "*Perspective and Challenges in Antimalarial Chemotherapy: Design and Synthesis of Novel Artemisinin Analogues as Antimalarials*" at 22nd ISCB International Conference (**ISCBC-2016**) on "Recent Trends in Affordable and sustainable Drug Discovery and Developments" held at Uka Tarsadia University, Bardoli, Surat, India on **6th February, 2016**.
73. "*Stable Bio-active Novel Peroxides: Synthesis, Chemistry and their Biological Evaluation"* at Department of Chemistry, University of Ljubljana, Ljubljana, Slovenia on **10th September, 2015**.
74. "*Systematic Investigation of Bio-active Ozonides and Aza-Peroxides: Synthesis, Chemistry and their Biological Evaluation*" at Department of Physical and Organic Chemistry, Jožef Stefan Institute, Ljubljana, Slovenia on **8th September, 2015**.
75. "*Synthesis of Aza-heterocyclic compounds via transition metal-catalyzed direct arylation strategy*" at Department of Organic Chemistry, Faculty of Chemistry, Perm State University, Perm, Russia on **25rd March, 2015**.
76. "*Synthesis, Chemistry and Bioevaluation of Antimalarial Peroxide Drug Artemisinin*" at Department of Organic Chemistry, Faculty of Chemistry, Perm State University, Perm, Russia on **23rd March, 2015**.
77. "*An enantioselective synthesis of an anti-hypercholesterolemic drug atorvastatin calcium (Lipitor) via direct catalytic asymmetric aldol reaction of thioamides*" in 21st ISCB International Conference on Current Trends in Drug Discovery and Developments (ISCBC-2015), Jointly organized by ISCB, India and CSIR-CDRI, Lucknow, India on 25th-28th Feb, **2015**. ***(oral presentation)***
78. "*Artemisinin analogues: Synthesis, Chemistry and antimalarial assessment*" UGC-Sponsored *National Conference on Current Trends in Chemical Sciences* (**NCCTCS 2014**), 15th-16th Oct, **2014**, Department of Chemistry, St. Andrew's College, Gorakhpur, India.
79. "*Transition metal-catalyzed C-C bond formation via C-H bond activation: Versatility and practicality in natural product synthesis*" Chemical Society (30th Oct, **2013**), Department of Chemistry, St. Andrew's College, Gorakhpur, India.
80. "*Direct catalytic asymmetric aldol reaction of thioamides-An efficient route to atorvastatin calcium (Lipitor)"* Intra-Institute Conference (24 Feb, **2012**), Microbial Chemistry Research Foundation, Tokyo, Japan

Current National /International Collaborations (2026-2028)

1. **Prof. Irina V. Mashevskaya**, Department of Organic Chemistry, Faculty of Chemistry, Perm State University, Perm, Russia Federation.
2. **Prof. Jernej Iskra**, Department of Chemistry and Biochemistry, University of Ljubljana, Slovenia.
3. **Dr. Paolo Coghi**, Macau Institute for Applied Research in Medicine and Health, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology, Taipa, Macau, China.
4. **Prof. Sirish K. Ippagunta**, Department of Biotechnology, AIIMS, New Delhi.
5. **Dr. Ashok K. Datusalia**, Department of Pharmacology and Toxicology, NIPER-Raebareli.
6. **Dr. Ravinder K. Kaundal,** Department of Pharmacology and Toxicology, NIPER-Raebareli.
7. **Dr. Girijesh K. Patel**, Department of Biotechnology, MNNIT Allahabad.
8. **Prof. Nikolai Petrovsky**, Professor of Immunology and Infectious Disease, The Australian Respiratory and Sleep Medicine Institute, and Professor and Research Director, Vaxine Pty Ltd, Adelaide, Australia

National/International Collaborations (2013-2025)

9. **Prof. Na'il Saleh**, Department of Chemistry, College of Science, United Arab Emirates (UAE) University, Al Ain, United Arab Emirates.
10. **Prof. Carmine Coluccini**, Institute of New Drug Development, China Medical University, Taiwan.
11. **Prof. Dr. Vincent Wong**, Macau Institute for Applied Research in Medicine and Health, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology, Taipa, Macau, China.
12. **Dr. Dharmendra Kumar Yadav**, College of Pharmacy, Gachon University of Medicine and Science, Yeonsu-gu, Incheon City, 21924, Korea
13. **Prof. Andrey N. Maslivets**, Department of Organic Chemistry, Faculty of Chemistry, Perm State University, Perm, Russia Federation.
14. **Prof. Mohamed El-Shazly**, Department of Pharmaceutical Biology, Faculty of Pharmacy and Biotechnology, The German University in Cairo, Cairo, Egypt.
15. **Dr. Vinita Chaturvedi**, CSIR-CDRI, Lucknow.
16. **Prof. Jernej Iskra**, Laboratory of Organic & Bioorganic Chemistry, Department of Physical and Organic Chemistry (K-3), "Jozef Stefan" Institute, Jamova 39, 1000 Ljubljana, Slovenia. (*DST-ARRS Indo-Slovenia Project*)
17. **Prof. Stojan Stavber**, Laboratory of Organic & Bioorganic Chemistry, Department of Physical and Organic Chemistry (K-3), "Jozef Stefan" Institute, Jamova 39, 1000 Ljubljana, Slovenia. (*DST-ARRS Indo-Slovenia Project*)
18. **Prof. Kristof Kranjc**, Department of Chemistry and Biochemistry, University of Ljubljana, Slovenia.
19. **Prof. Franc Perdih**, Department of Chemistry and Biochemistry, University of Ljubljana, Slovenia.
20. Department of Advance Molecular Microbiology, **M/s Seminal Applied Sciences Pvt. Ltd, Jaipur**.
21. **Dr. Roman V. Shchepin**, Department of Radiology & Radiological Sciences, Vanderbilt University, Institute of Imaging Science, Vanderbilt University Medical Center, Nashville, Tennessee, USA.
22. **Prof. Nadezhda Shchepina**, Head of the Laboratory of Radiochemistry, Natural Sciences Institute of Perm State University, 4, Genkel St., Perm-614990, Russia.
23. **Prof. Nonhlanhla P. Khumalo**, Hair and Skin Research lab, Head of Dermatology, Groote Schuur Hospital & the University of Cape Town, Capetown, South Africa.
24. **Dr. Ahmed Mohammed**, Department of Chemistry, Faculty of the Natural Sciences, University of the Western Cape, Cape Town, South Africa.
25. **Prof. (Dr.) S. L. Kothari**, FBS, FISPM, FNAAS, FNASc Dy. Vice Chancellor, Director, Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur. [Former Dean (Science) and Director, Centre for Convergent Technology, University of Rajasthan, Jaipur]
26. **Prof. Lester M. Davids,** Redox laboratory, Department of Human Biology, Health Sciences faculty, University of Cape Town Medical School, Cape Town, South Africa. **(***DST-NRF Indo-South Africa Project)*
27. **Prof. Paturu Kondaiah**, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore-560012, India.
28. **Dr. Rajbala Verma**, Department of Zoology, University of Rajasthan, Jaipur-302004, India. (Biological Investigation = Antitubercular, Antimicrobials, Antioxidants, Antiplatelets etc.)
29. **Dr. Dinkar Sahal**, International Centre for Genetic Engineering and Biotechnology. Aruna Asaf Ali Marg, New Delhi, New Delhi. (*Antimalarial Drug Development Programme*)
30. **Dr. Ramendra Pratap**, Department of Chemistry, University of Delhi.

International Visits

1. Visited **Murdoch University, Perth campus, AUSTRALIA** from 22-28 Nov, 2025 for teaching and research collaboration in association with iSTEP, an associated partner of Murdoch University.

2. Visited **Bangkok, THAILAND** to deliver **Plenary lecture in International Conference** on Pharmacy and Pharmaceutical Sciences 2019 with the Theme: "*Innovative Approaches, analysis and Developments in Pharmacy and Pharmaceutical Science*" (4th ICPPS, 2019) from 13th -14th Dec 2019.
3. Visited Perm State University, Department of Organic Chemistry, **Perm, Russian Federation** under Indo-Russian International Project (under the agreement C-25/174.5 from 31-01-2019; work contract No. 1-01-10, MOU between MNIT Jaipur and PGNIU, Perm, Russian Federation) from 14th -19th May, 2019.
4. Visited Laboratory of Organic and Bioorganic Chemistry, Department of Physical and Organic Chemistry (K-3), "**Jozef Stefan" Institute**, **Ljubljana, SLOVENIA** under the DST-ARRS Indo-Slovenian joint research project. (*DST/INT/Slovenia/P-14/2014*) from 23rd Dec, 2016 to 02nd Jan, 2017.
5. Visited Perm State University, Department of Organic Chemistry, **Perm, Russian Federation** under DST-RFBR Indo-Russian Joint Research Project (*DST/INT/RFBR/P-169*) from 10th -22nd Oct, 2016.
6. Visited Laboratory of Organic and Bioorganic Chemistry, Department of Physical and Organic Chemistry (K-3), "**Jozef Stefan" Institute**, **Ljubljana, SLOVENIA** under the DST-ARRS Indo-Slovenian joint research project. (*DST/INT/Slovenia/P-14/2014*) from 5th -14th Sep, 2015.
7. Visited Perm State University, Department of Organic Chemistry, **Perm, Russian Federation** under DST-RFBR Indo-Russian Joint Research Project (*DST/INT/RFBR/P-169*) from 18th -31st Mar, 2015.

Facilities Established at NIPER Raebareli:

In Department of Medicinal Chemistry: Established "***Laboratory of Bioactive Heterocycles and Catalysis (BHC lab)***" having all basic chemistry-based facilities.

Facilities Established at MNIT Jaipur:

Committee Member at Institute Level: ECS 400 MHz Jeol NMR, Gevo G-2 QTOF LCMS & HRMS (ESI), FT-IR, UV-Vis fluorescence, N2 gas plant, Powder X-RD, Tunnel Electron Microscope (TEM), Scanning electron microscope (SEM), MW-reactor and many other small instruments TGA, DSC, Fume Hood.

In Department of Chemistry: Established "***Laboratory of Organic and Medicinal Chemistry (OMC lab)***" having all basic chemistry-based facilities.

Postdoc Supervision (01)

ANRF-NPDF Applied = 02

Ph.D Supervision [14 Students: 08 Awarded and 06 Ongoing]

S. No.	Name of Ph.D student	Title of Thesis	Status
1.	**Dr. Vashundhra Sharma (Jan, 2013- Dec, 2017)**	*Synthetic Studies towards Coupling Reactions: Chemistry and Biology of Bio-Active Alkaloids*	Thesis submitted on 05-12-2017 & Ph.D awarded on 22-12-2018 (**2018**)
2.	**Dr. Ritu Sharma (Jan, 2014-Feb, 2019)**	*Synthesis, Chemistry and Bio-evaluation of some Biologically active Heterocycles*	Thesis submitted on 21-02-2019 & Ph.D awarded on 03-12-2019 (**2019**)
3.	**Dr. Mohit K. Tiwari (July, 2014- Dec, 2019)**	*Synthetic Studies on Pharmaceutically Privileged Bioactive Heterocycles: Synthesis, Chemistry & Biological Evaluation*	Thesis submitted on 31-12-2019 & Ph.D awarded on 07-07-2020 (**2020**)
4.	**Dr. Bharti Rajesh Kumar Shyamlal (July, 2014-July, 2020)**	*Studies towards Natural Product-Inspired Bioactive Heterocycles: Synthesis, Chemistry and their Medicinal Applications*	Thesis submitted on 27-07-2020 & Ph.D awarded on 10-02-2021 (**2021**)
5.	**Dr. Lalit Yadav (Jan, 2015- July, 2020)**	*Synthetic Studies Towards Organocatalyzed $C_{(sp^2)}$-H Bond Activation Reactions: Development of New Strategies for the Synthesis of Bioactive Heterocycles*	Thesis submitted on 26-08-2020 & Ph.D awarded on 11-02-2021 (**2021**)
6.	**Dr. Ravi Kant Yadav (July, 2016-Sep, 2021)**	*Studies on Bioactive Heterocycles via $C_{(sp^2)}$–H and $C_{(sp^3)}$–H Bond Functionalization Reactions: Synthesis, Chemistry and Practical Applications*	Thesis submitted on 08-09-2021 & Ph.D awarded on 26-03-2022 (**2022**)
7.	**Dr. Richa Sharma (Aug, 2019 – July, 2023)**	*Chemistry on Natural Product Inspired Fused Bio-heterocycles: Synthesis, Functionalizations and its Applications*	Thesis submitted on 03-07-2023 & Ph.D awarded on 12-01-2024 (**2024**)

8.	**Dr. Nawal Kishore Sahu** (TEQIP Part-Time Scholar) **(Aug, 2018 –June, 2024)**	*Indole-Based Novel Bioactive Alkaloids: Synthesis, Chemistry and Biological Assessment* **Current Position:** Asst. Professor, Govt. Engg. College (Affiliated to RTU, Kota), Bharatpur	Thesis submitted on 20-03-2024 & Ph.D awarded on 24-06-2024 (**2024**)
9.	**Abdul Rahaman T A** (823/PhD-MC/21) (**Sep, 2021-June, 2026)**	*Aza-/Oxa-Based Heterocycles as Selective MAO-B and NLRP3 Inhibitors: Synthesis, Chemistry and Biological Evaluation*	Thesis submitted on 30-06-2026 & Ph.D awarded on …..… (**2026**)
10.	**Janmejaya Sen** (825/PhD-MC/21)	*Chemistry on Bioactive Aza-Heterocycles: Synthesis, Methodology Development, and Their Practical Applications*	Ongoing **(Sep, 2021-Present)**
11.	**Amol Tarachand Mahajan** (953/Ph.D.-MC/22)	*Studies on Development of Fused Bio-Heterocycles as Anticancer Agents: Synthesis, Chemistry, and Medicinal Applications"*	Ongoing **(23 Aug, 2022-Present)**
12.	**Shivani** (956/PhD-MC/22)	*Bioactive Heterocycles as Anticancer Agents: Synthesis, Chemistry and Biological Assessment*	Ongoing **(22 Aug, 2022-Present)**
13.	**Tanmoy Tantra** (957/PhD-MC/22)	*Studies on the Development of Fused Aza-Heterocycles as NLRP3 Inhibitors: Synthesis, Chemistry, and Medicinal Applications*	Ongoing **(22 Aug, 2022- Present)**
14.	**Nandini** (1120/PhD-MC/23)	*Synthetic Studies on Pharmaceutically Important Bioactive Alkaloids: Synthesis, Chemistry and Bioevaluation and in silico studies*	Ongoing **(Sep, 2023-Present)**
15.	**Pushpendra Kumar** (UPCST project Staff, Registered at Amity University, Gurgaon)	*Biological Evaluation of Pharmaceutically Privileged Aza-/Thia-Heterocycles*	Ongoing **(Jan, 2026-Present)**

ALUMNI

Postdoc Supervised (04)

1st Mar, 2016- 28th Feb, 2018: Dr. Jaggi Lal, Ph.D (Jiwaji University, Gwalior) ***SERB N PDF***
1st Apr, 2016 – 21st Aug, 2017: Dr. Yogesh Kumar, Ph.D (University of Delhi), ***DST-SERB Young Scientist Scheme***
1st Oct, 2014 – 30th Sep, 2017: Dr. Pradeep k. Jaiswal, Ph.D (CSIR-CDRI, Lucknow), **CSIR Project**
1st May, 2017- 30th Apr, 2020: Dr. Krishan Kumar, Ph.D (IISc Bangalore), ***CSIR-RA***

M.Pharm (Med Chem)/ M.S. Pharm [Pharmaceutical Analysis] Supervision [Completed 28; Ongoing 6]

S. No.	Name of M.S. Pharm Student(s)	Title of Dissertation / M.S. Thesis	Year of Completion
1.	Pandey Muskan Sachivkumar (03/MS-MC/25)	*Yet to decide*	**2025-2027 (ongoing)**
2.	Saurabh (06/MS-MC/25)	*Yet to decide*	
3.	Sourabh Yadav (09/MS-MC/25)	*Yet to decide*	
4.	Devesh K. Singh (60/MS-PA/25)	*Yet to decide*	
5.	K. Gurucharan (61/MS-PA/25)	*Yet to decide*	
6.	Mude Naveen Kumar Naik (123/MS-MC/25)	*Yet to decide*	
7.	Idrisi Fatima Bano Zakir Husain (07/MS-MC/24)	*Synthesis and Characterization of Impurities in Active Pharmaceutical Ingredients*	**2026**
8.	Khushi Sharma (08/MS-MC/24)	*Synthetic Approaches and Analytical Characterization of Impurities in New Drug Substances*	
9.	Kriti (09/MS-MC/24)	*Process-Related Impurities in Active Pharmaceutical*	

		Ingredients (APIs): Synthesis, Chemistry and their Characterization	
10.	Divya (62/MS-PA/24)	*Development of an Analytical Method for the Determination of Impurities present in Raw material used for the Synthesis of Dipeptidyl Peptidase-4 (DPP-4) Inhibitor Drug Substance*	
11.	Himanshu Dagar (109/MS-PA/24)	*Establishment of the Degradation Profile of Drug-A used in the Treatment of Neuropsychiatric Disorders Using Various Analytical Techniques*	
12.	Krishna Kumar (1000/MS-MC/23)	*Design, Synthesis and In silico Studies of Novel Indazolo-Thiazole Hybrids as FGFR4 Inhibitors*	**2025**
13.	Nirwan Sweety Anil (1003/MS-MC/23)	*Novel Conjugated Thiazolidine-2,4-dione-Ferulic Acid Congeners as NLRP3 Inhibitors: Design, Synthesis and In silico Studies*	
14.	Rathod Abhijit Kundalik (1006/MS-MC/23)	*Design, Synthesis and In silico Studies of Novel Quinazoline Analogues as TLR4 Inhibitors towards the Development of anti-Alzheimer's Agents*	
15.	Toufeek Khan (1015/MS-MC/23)	*Novel 1-phenyl-2-((3-(pyrazolo[1,5-a]pyrimidin-7-yl)phenyl)amino)ethan-1-one Derivatives as Epidermal Growth Factor Receptor (EGFR) Inhibitors: Design, Synthesis and In Silico Studies*	
16.	Vivek Kumar Gupta (1017/MS-MC/23)	*Design, Synthesis and In silico Studies of Novel Chromene-Triazole Hybrids as Anticancer agents*	
17.	Deeksha Upadhyay (in association with NFSU Gandhinagar)	*Synthesis, Characterization and In Silico studies of 1-Phenyl-1H-Indazole Derivatives as Anticancer Agents*	
18.	Anand K. Dubey (845/MS-MC/22)	*Novel Heteroaryl/Alicyclic-Pyridine Hybrid Analogues as EGFR Inhibitors: Design, Synthesis and In silico Studies*	**2024**
19.	Arun C (847/MS-MC/22)	*Design, Synthesis and In silico Studies of Novel Bioactive Aza-Heterocycles as FGFR4 Inhibitors*	
20.	Gaurav Kesharwani (850/MS-MC/22)	*Design, Synthesis, and In-silico studies of Novel Quinazoline Analogues as SIRT1 Activator Towards the Development of anti-Parkinson's agents*	
21.	Jalasutram Pavani Durga Chaturvedi (854/MS-MC/22)	*Design, Synthesis and In silico Studies of Novel Isoxazole Derivatives as TLR antagonists Towards the Development of Anti-Alzheimer's Agents*	
22.	Tushar Panwar (867/MS-MC/22)	*Design, Synthesis, and In Silico Studies of Novel Imidazo[1,2-a]pyridine Derivatives as SIRT 1 Activators Towards the Development of Anti-Alzheimer's Agents*	
23.	Vidit Shrivastava (868/MS-MC/22)	*Design, Synthesis and In-silico studies of Novel Sulphonylurea derivatives as NLRP3 Inflammasome Inhibitors for the Management of Alzheimer's disease*	
24.	Sweety Yadav (in association with Pt. Deen Dayal Upadhyay Govt. Girls P.G. College, Lucknow)	*Synthesis, purification and characterization of spirooxindoles derivatives as Anticancer agents*	
25.	Samir Tikaram Sahu (753/MS-MC/21)	*Pyrazoles-Based Bioactive Aza-heterocycles as Potential Acetylcholinesterase Inhibitors: Design, Synthesis and In silico Studies*	**2023**
26.	Kshirsagar Prasad Suhas (746/MS-MC/21)	*Novel 3-(Pyridin-2-yl)-1H-Indoles and its Congeners as Anti-Cholinesterase Agents / NMDA Antagonists: Design, Synthesis and In silico Studies*	
27.	Thakar Neha Rajendra (760/MS-MC/21)	*Design, Synthesis and In Silico Studies of Novel 2-Phenylbenzo[d]imidazo[2,1-b]thiazoles and Alicyclic[b]-fused pyridines as Anti-Alzheimer Agents*	
28.	Saswat Gaurab Dash	*Design, Synthesis and In Silico Studies of Functionalized*	

	(754/MS-MC/21)	*Alicyclic[b]-fused Pyridines as anti-Alzheimer's Agents*	
29.	Prem S (751/MS-MC/21)	*Design, synthesis and in silico studies of benzyloxy substituted triaryl pyrazole derivatives as anti-Alzheimer agents*	
30.	Vijeta Choudhary (NIT Warangal)	*Chalcones as potential acetylcholinesterase inhibitors: Design, synthesis and molecular docking studies*	**2022**
31.	Pooja Prakash Atpadkar (666/MS-MC/20)	*Design, synthesis and molecular docking studies of 2-Phenyl-5H-imidazo[2,1-b][1,3]thiazin-5-ones derivatives as anti-Alzheimer agents*	
32.	Tushar M. Boralkar (673/MS-MC/20)	*Ultrasonic-Assisted One-pot Multi-component Reaction via 1,3-Dipolar Cycloaddition Reaction: Synthesis of Novel Spirooxindole Derivatives as Anti-Alzheimer Agents*	
33.	Vedant V. Deshmukh (674/MS-MC/20)	*Microwave-Assisted Synthesis of Novel Spirooxindole Derivatives as Anti-Alzheimer Agents*	
34.	Yajnashri M (675/MS-MC/20)	*Substituted Triaryl Pyrazoles as Anti-Alzheimer Agents: Design, Synthesis and Molecular Docking Studies*	

M.Sc Project Supervision [Completed (26)]

S. No.	Name of M.Sc Student	Title of M.Sc Dissertation / Thesis	Year of Completion
1.	Mukul Yadav (2019PCY5608)	*Synthetic Studies Towards Novel 5H-imidazo[2,1-b][1,3]thiazin-5-one and its sulphonamides*	**2021**
2.	Vishal Yadav (2019PCY5628)	*Synthetic Studies Towards phenylimidazo[1,2-a]pyridine and Novel 4H-1,3-Oxazin-2-amine and 5H-Imidazo[2,1-b][1,3]oxazine Class of Heterocycles*	
3.	Govind (2018PCY5402)	*Microwave-Assisted Synthesis of Imidazo[1,2-a]pyridine Class of Heterocycles*	**2020**
4.	Vikas Kumar (2018PCY5314)	*An efficient synthesis of substituted 1-phenethyl-1,2,3,4-tertahydroisoquinolines: A precursor for the synthesis of bioactive C-homoaporphines*	
5.	Dinesh Yadav (2017PCY5358)	*Synthetic Studies Towards Novel 5H-imidazo[2,1-b][1,3]thiazin-5-one and Isochromeno[4,3-c]chromen-11(6H)-one Class of Heterocycles*	**2019**
6.	Shaifali Mittal (2017PCY5353)	*Synthesis and Characterization of 2H-Indazole based bioactive heterocycles*	
7.	Satyam Doley (2017PCY5311)	*Synthetic studies towards novel 4H-1,3-oxazin-2-amine and 5H-imidazo[2,1-b][1,3]oxazine class of heterocycles*	
8.	Poonam Meena (2016PCY5377)	*An efficient synthesis of various 2'-bromoacetophenones and 2-aminothiazines: A starting precursor for the synthesis of various substituted imidazo[2,1-b]azines*	**2018**
9.	Neelam Rawat (2016PCY5141)	*Synthesis, Characterization of Curcumin Analogues Bearing Pyrazole/ Pyrimidine Ring Targeting Anti-tyrosinase activity.*	
10.	Vishal (2015PCY 5454)	*Synthetic studies towards antimalarial peroxides: synthesis of various starting materials for the synthesis of antimalarial bicyclic azaperoxides*	**2017**
11.	Ruchi Aggarwal (2015PCY5433)	*Synthesis of N-substituted indoles: An important precursor for the synthesis of Indole-based natural products*	
12.	Aarohi Gupta (2015PCY5388)	*An efficient synthesis of substituted amides via reaction of various phenethylamines with bromoacids: a starting precursor for the synthesis of bio-active C-Homoaporphines*	

13.	Renu (2014PCY5302)	*Synthesis, characterization and analytical studies of reaction intermediates- Application towards synthesis of antimicrobial benzo[1,4]oxazines*	**2016**
14.	Sapna Yadav (2014PCY5281)	*Synthesis, Characterization and Analytical Study of Reaction Intermediates- Application towards synthesis of antioxidant Benzo[1,4]oxazines*	
15.	Bhawna Lekhwani (2013PCY7022)	*Synthesis and Characterization Of O-Amino Thiophenol*	**2015**
16.	Mahadeva Singh Jat (2013PCY7038)	*Synthesis and Characterization of benzothiazoles*	
17.	Pushpa Chaudhary (2013PCY7068)	*Synthesis and Characterization of Antimalarial Quinoline derivatives*	
18.	Kamna Sharma (2013PCY7048)	*Synthesis and Characterization of benzodiazipines*	
19.	Gurmeet Singh (2013PCY7013)	*Synthesis of Versatile intermediate "2H-Pyran-2-ones" for organic transformations*	
20.	Monika Choudhary (2012PCY7051)	*Synthetic Utilities of Ketene Dithioacetal*	**2014**
21.	Deep Shikha Vyas (2012PCY7039)	*Synthesis and Study of Oral rehydration salt*	
22.	Hansa Arya (2012PCY7010)	*A Simple and Efficient Synthesis of Highly Functionalized 2H-Pyran-2-Ones = Versatile Intermediate for Diverse Transformations*	
23.	Rajnikant Mahawar (2011PCY5062)	*Study of Cement Chemistry and its Manufacturing*	**2013**
24.	Neelam (2011PCY5056)	*Pharmaceutical Drug Metronidazole*	
25.	Sharda Saini (2011PCY5075)	*Surface Active Agents*	
26.	Manisha Bhagat (2011PCY5072)	*Aqueous Film Forming Foam*	

Visiting Researcher

2014-2015: Dr. Rajpratap B. Kshatriya, Ph.D (University of Pune); Postdoc (South Africa), RA (ICT, Mumbai), Present Affiliation: Assistant Professor, Uka Tarsadia University, Surat, Gujarat.

Research Intern/Visiting Students from other institutions (12 Students)

June, 2026–July, 2026: Yogita Singh, MMMUT, Gorakhpur.
Dec, 2025–Feb, 2026: Parshavi Verma, Delhi Technical University, Delhi
June, 2025: Umme Kulsum, Singh, MMMUT, Gorakhpur.
June–July, 2024: Sweety Yadav, Pt. Deen Dayal Upadhyay Govt. Girls P.G. College (University of Lucknow), U.P.
June-July, 2023: Rewa Dwivedi, Banasthali Vidyapeeth (Deemed University), Rajasthan
15 May – 15 Aug, 2022: Vijeta Choudhary, NIT Warangal
1 June, 2019: Shweta Choudhary, IIS University, Jaipur [*Ph.D, University of Manchester, UK*]
20 May - 31 Aug, 2019: Chitra Goswami, IIS University, Jaipur [*Ph.D (Pursuing), IIT Kanpur*]
20 May - 10 July, 2019: Shagun Singh, and Ruchita Goyal, IIS University, Jaipur
1 July -30 June, 2019: Richa Sharma [*Ph.D, MNIT Jaipur & Postdoc (Pursuing), Vrije Universität, Brussels, Belgium*]
1 June, 2017-31 May, 2018: Aarohi Gupta [*Ph.D, University of Massachusetts, Amherst, USA*]
2017: Mukesh Saharan, Manipal University, Jaipur [*Ph.D, University of Massachusetts, Amherst, USA*]
2015: Rahul Meena, Pratik Yadav **(IISER Bhopal)**

Reviewer for Journals:

Journal of Biochemical and Molecular Toxicology, European Journal of Medicinal Chemistry, Archiv Der Pharmazie, Journal of Chemistry (HINDAWI), DARU Journal of Pharmaceutical Sciences, Organic Chemistry Frontiers, Organic and Biomolecular Chemistry, Process Biochemistry, The Journal of Organic Chemistry, Medicinal Research Reviews, ACS Omega, RSC Advances, ChemMedChem, Bioorganic and Medicinal Chemistry Letters, BMC Chemistry, New Journal of Chemistry, Journal of Molecular Structure, Synthetic Communications, Plasma Processes and Polymers, BMC Infectious Diseases, Chemical Papers, Indian Journal of Pharmaceutical Sciences, Bioorganic Chemistry, Research on Chemical Intermediates (RINT), Ultrasonic Sonochemistry, Medicinal Chemistry Research, Acta

Chimica Slovenica (Slovenian Chemical Society), Saudi Pharmaceutical Journal, Arkivoc (Arkat USA), Journal of Agricultural and Food Chemistry (ACS), Current Organic Synthesis, Scientific Reports, Current Trends in Medicinal Chemistry, Studies in Natural Product Chemistry (SNPC)- Book Chapter, Reviews in Cardiovascular Medicine (RCM), Biomedicine & Pharmacotherapy

Membership of Professional Scientific Societies / National and International Advisory Board

- **Editorial Advisory Board Member:** Scientific Reports (Springer Nature) (**2025**- Present); *Current Drug Discovery Technologies* (**2024**- Present); *Current Indian Science* (**2021**-Present); *Current Organocatalysis* (**2020-Present**); *Arkivoc* **(2011-Present)**; *National Advisory Board Member, 22nd ISCBC-2016* **(6th-8th Feb, 2016);** *International Journal of Pharmaceutical Sciences and Research* **(2012-Present)**;
- **Life Memberships**: Chemical Research Society of India, IISc Bangalore (**2013** – **Present**); Indian Association of Nuclear Chemists and Allied Scientists, BARC, Mumbai (**2014** – **Present**); Indian Society of Chemists and Biologists, CSIR-CDRI Lucknow (**2013** – **Present**); Indian Science Congress Association, Kolkata (**2014** – **Present**)
- **Fellows of Professional Societies:**
  Fellow of Indian Chemical Society (F.I.C.S.), Indian Chemical Society, Kolkata (**2014** – **Present**)
  MRSC: Member, Royal Society of Chemistry (UK) (**2025**-Prersent)
- **Membership:** American Chemical Society, USA (**2008** – **Present**)

Professional Training Received

- "Principles and Hand-on expertise on ICP-MS Technologies", (**24-26** Sep, **2013**), Centre of Excellence, Agilent Technologies, Bangalore, India.
- "***GRANT WRITING SEMINAR***", Centre for study of gene structure and function, (9-10 Nov, **2009**), The City University of New York, U.S.A.

List of Equipment's made available at MNIT Jaipur/ NIPER-Raebareli

Equipment available in my Research Group	**Generic Name of Equipment**	
PI & his group	(a) 02 Low temperature Reaction bath (b) 02 Two Rotavapors with vacuum pump and chiller (c) 14 Magnetic Stirrers with hot plate (d) 04 Weighing balance (e) 10 UV lamps with box (f) 10 computers with printer (g) 01 Vertex Mixer (h) 05 Oil-Free Diaphragm Vacuum Pump (i) 03 Laboratory Ovens	(j) 01 Melting point apparatus (k) 03 Refrigerator (l) 03 Recirculating Chiller (m) 05 Working Fumehoods (n) 01 Centrifuge (o) 01 Overhead Stirrer (p) 01 Vertex Mixture (q) 02 Ultrasonicator Bath (r) 01 Microwave (s) 01 Overhead Magnetic Stirrer
PI's Department/ Institute	FT- IR Spectrometer, UV/Vis Spectrometer, LC-MS, UPLC-MS, GC, HRMS, FT NMR Spectrophotometer, TEM Spectrophotometer, CD spectrometer, Powder X-Ray Diffractometer, CEM Microwave	

Administrative Experiences: Responsibilities and Professional Activities at NIPER-Raebareli

Dean, NIPER-Raebareli [Feb, 2022 - May, 2025]

Designation	**From**	**To**	**Nature of Work**
Dean, NIPER-Raebareli (NIPER-R/REG/2022/ dated 21-02-2022)	21-02-2022	01-05-2025	Academic and Administrative Responsibilities of the Institute
Secretary, Academic Planning and Development Committee (APDC0 NIPER-R/22-23/Office of Registrar dated 21-04-2023	21-04-2023	01-05-2025	As per para 3.3.1 of NIPER Statutes
Chairperson, Board of Studies and Research (BSR) NIPER-RBL/2022-23/Committee/23/653 dated 17-01-2023	17-01-2023	01-05-2025	Work assigned to the committee as per NIPER ordinance
Chairperson, Constitution of Executive Board of Alumni Association (NIPER-	18-05-2023	01-05-2025	Draft the term of reference of the association and act accordingly.

R/Admin/2023-24/AAC/01 dated 18-05-2023)			
Member, Results Committee (NIPER-RBL/Cte/15/2021-22 dated 03-11-2021)	21-02-2022	01-05-2025	Result preparation and declaration
Member, Timetable and Academic Committee (NIPER-RBL/Cte/14/2021-22 dated 03-11-2021)	21-02-2022	01-05-2025	Time-Table preparation and declaration
Senate Member, NIPER-R (NIPER-RBL/2023/committee/39/1080 dated 27-09-2023)	21-02-2022 27-09-2023	26-09-2023 (1st tenure) 01-05-2025(2nd tenure)	Academic duties and responsibilities
Ex-officio member, Finance Committee (NIPER-RBL/2023-24/Committee/40/182 dated 27-09-2023)	27-09-2023	01-05-2025	All financial matters of NIPER-R
Chairperson, Institute Safety Committee (Chemical/Biological/Electrical Hazard Committee) [NIPER-RBL/2022-23/Committee/18/548 dated 11-08-2022	11-08-2022	01-05-2025	To draft a safety policy at the institute /dept. level and look upon all matters related to safety (Chemical/Biological/ Electrical Hazard)
Ex-Officio member, Proctorial Board, NIPER-Raebareli	05-08-2024	01-05-2025	To foster a conducive environment for academic excellence and holistic development of students
Director's Representative, Assessment of Acute Toxicity of Agrochemicals (NanoBioDAP) of NIPER-Raebareli	16-03-2023	31-03-2024	Finalization of accounts and disbursement of intellectual fees for consultancy work

Administrative Assignments at NIPER-Raebareli (Institute level)

Assignments	Designation	From	To	Nature of Work
BOG-Member	Member-Professor of the Institute	02-11-2022	01-11-2025	Academic and Administrative Responsibilities of the Institute
NIPER-Raebareli/2022-23/Admin/ Internal Order dated 23-09-2022	Patron, International Symposium on Toxicology and Applied Pharmacology	29-09-2022	30-09-2022	Support and Cooperation to all the working committees and work as organizing team
NIPER-R/2021-22/Committee/ dated 04-03-2022	Coordinator, Common Research Program	04-03-2022	01-05-2025	To coordinate the Common Research Plan (CRP) going on NIPER-R campus.
NIPER-R/2021-22/Committee/ dated 04-03-2022	Member, SC/ST, OBC and PwD Welfare Cell	04-03-2022	01-05-2025	To work as Liaison officer and look after the matters related to the welfare of the SC/ST/OBC/PwD peoples.
Committee Member	Member, Tender Evaluation Committee	19-08-2021	31-03-2022	Technical and Financial Evaluation of the Tender for lab furniture of different departments
NIPER-RBL/Cte/04/2021-22 dated 05-08-2021	Member, Committee for Technical and Financial Evaluation	05-08-2021	31-03-2022	Technical and Financial Evaluation of the Tender dated 05-07-2021
NIPER-RBL/Cte/2021/10 dated 11-06-2021	Member, Physical Verification Committee	11-06-2021	30-09-2021	Physical verification of Assets of Computer Centre and Library
NIPER-RBL/2022-23/Swachhata packwada/2022 dated 31-08-2022 NIPER-RBL/2023-24/Swachhata Pakhwada/2023 dated 23-08-2023	Committee member	01-09-2022 01-09-2023 01-09-2024	15-09-2022 15-09-2023 15-09-2024	Execution of Swachhata Mass Pledge and various cleanliness activities
NIPER-Raebareli/2022-23/Special Campaign Swacchata) 2.0/479 dated 03-10-2022	Committee member	02-10-2022	31-10-2022	Clearance of pending references from MPs; state government; cabinet-note; PMO references; parliamentary assurances; Record management, Identification of Cleanliness campaign sites
NIPER-RBL/CTE/Administration /2022-23 dated 06-12-2022	Chairman, Committee for formulating the policy for establishing Canteen in NIPER-Raebareli	06-12-2022	31-03-2023	To formulate a policy for establishment of canteen

NIPER-R/Recruit/01/2021-22/695 dated 22-02-2023	Centre-In-Charge, Exam Centre management for 25-26 Feb, 2023	25-02-2023	26-02-2023	Recruitment exam for various non-teaching posts 25-26 Feb, 2023
NIPER-RBL/2022-23/Committee/31/837 dated 10-05-2023	Chairperson, Evaluation of Specification of equipments for Central Purchase Committee of all NIPERs	10-05-2023	01-05-2025	To evaluate specification of equipments which are proposed to be sent for CPC evaluation.
NIPER-R/Approval/23-24/32 dated 08-09-2023	Institute Academic Committee, Dept. of Medicinal Chemistry	08-09-2023	31-03-2024	Document verification of new admitted students through NIPER JEE 2023
NIPER-Raebareli/2022-23/Hindi Pakhwada/2022 dated 13-09-2022; NIPER-Raebareli/2022-23/Hindi Pakhwada/2022 dated 13-09-2022	Committee member, Hindi Pakhwada	14-09-2022 14-09-2023	28-09-2022 28-09-2023	Celebration of Hindi Pakhwada in NIPER-Raebareli campus
NIPER-R/2023-24/Recruitments/Faculty positions/III dated 04-10-2023	Scrutiny committee member, Professor (Pharmaceutical Analysis) and Assistant Professor (AI/ML & Data Analysis)	04-10-2023	31-03-2024	With ref. to adv. No. NIPR-R/2023-24/Recruitment/Faculty positions/III date 07 July, 2023.
NIPER-RBL/2023-24/Committee/43/ dated 03-01-2024	Chairperson, Assessing the modalities for procurement of laboratory consumables considering the guidelines issued by GOI, for NIPER_R	03-01-2024	31-03-2024	To assess the modalities for procurement of laboratory consumables as per GFR 2017.
NIPER-RBL./2023-24/Committee/44/1203 dated 02/05-01-2024	Member, Preparation and Finalization of Reservation Roster of NIPER-R	02/05-01-2024	31-03-2024	To prepare and finalize reservation roster
NIPER-RBL/2023-24/Committee/46/1222 dated 30-01-2024	Chairperson, Reviewing and recommending the Guests/students for their stay in the Guest House and Hostel room	30-01-2024	01-05-2025	To establish an operational Guest house in the institute and to review and recommend the guest/students for their stay in the guest house and hostel rooms of NIPER-Raebareli
NIPER-RB</2023-24/Admin.9Estt.)/Probation/1259 dated 23/26-02-2024	Member, Probation Assessment committee for non-teaching employees due for their probation confirmation	23/26-02-2024	31-03-2024	To assess the probation confirmation of non-teaching employees
NIER-R/2023-24/Recruitment/Non Faculty/IV & V/1277 dated 05-03-2024	Centre-In-Charge, Exam Centre Management Committee, 9-10 March, 2024	09-03-2024	10-03-2024	Management and fair conduct of recruitment exam scheduled on 9-10 Mar, 2024 for various non-teaching positions adv. No. NIPER-R/2023-24/Recruitment/ Non Faculty/IV & V dated 0-07-2023 & 04-10-2023
NIPER-R/A7E/OO/24-25/06 dated 13-08-2024	Member [Degree preparation and Registration of Students Committee, 9th Convocation	13-08-2024	01-10-2024	Preparation and printing of Degree/mark sheets, Fabrication of medals; Registration of Students, Correspondence with students
NIPER-RBL/2022-23/Committee/27/7649A) dated 29-03-2023	Chairperson, Asset Verification Committee-for laboratory Consumable (Chemicals)	29-03-2023	01-05-2025	Physical verification of assets for laboratory consumables in each lab of NIPER_R as per GFR 2017, Rule 213(I).
NIPER-R/Recruit/01/2021-22	Member, Selection Committee for Library and Information officer, Estate and Security	03-03-2023	31-03-2023	Selection of suitable candidates for various post adv. No. NIPER-R/Recruit/01/2021-22 dated 20-12-2021

	officer, Medical officer, Public Relation officer, Guest house and Hostel Supervisor, Junior Hindi Translator, Receptionist and Telephone operator			
NIPER-RBL/2023-24/Committee/34/972 dated 07-08-2023	Member, Investment of funds lying in the internal revenue account of NIPER-Raebareli	07-08-2023	31-03-2024	To invest funds lying in the internal revenue account of NIPER-R

Administrative Assignments at Department level

Organization	Designation	From	To	Nature of Work
NIPER-Raebareli (NIPER-RBL/01/2020-21/10 dated 04-08-2021)	Head of Department **(HoD)**	04-08-2021	14-09-2025	General Duties and Responsibilities related to the Department of Medicinal Chemistry including academic and Administrative works
NIPER Raebareli (NIPER/RBL/Cte/02/2021-22 dated 28 Sep, 2021)	Departmental Academic Advisory Committee (Medicinal Chemistry)	28-09-2021	14-09-2025	Duties as per NIPER Ordinance.

Administrative Assignments at Other/Previous Organizations

Organization	Designation	From	To	Nature of Work
Madan Mohan Malviya University of Technology, Gorakhpur	Member, Academic Expert, Board of Studies (BOS), Dept. of Chemistry and Environmental Science, MMMUT	08-11-2023	Present	Duties and Responsibilities related to academic works

Administrative Experiences: Responsibilities and Professional Activities done at MNIT Jaipur

Administrative Assignments at MNIT Jaipur (Institute level)

Order No.	Designation	From	To	No. of Semester	Nature of Work
MNIT/Chief Warden/ 2013-14/07 dated 16-08-2013	Warden	16-08-2013	09-06-2014	**2**	Responsibility and Maintenance of Hostel No. 3, MNIT Campus, MNIT Jaipur.
MNIT/CW/2014-5/24R dated 09-06-2014	Warden	11-06-2014	10-06-2015	**2**	Responsibilities and maintenance of Hostel No.1, MNIT Campus, MNIT Jaipur
MNIT/CW/2015-16/42 dated 31-07-2015	Warden	01-08-2015	07-08-2016	**2**	Responsibilities and Maintenance of Hostel No.1, MNIT Campus, MNIT Jaipur.
MNIT/DIR/2013/460 dated 23-07-2013	Co-coordinators (SC/ST/OBC/Persons with Disability (PWD) Development and Liaison Officer	23-07-2013	22-07-2014	**2**	SC/ST/OBC/Persons with Disability Development and Liaison Officer
Dean FW/MNITJ/2013/ dated 3rd Sep, 2013	Adjunct Faculty Position, Faculty-in-charge (Spectroscopy lab), MRC, MNIT Jaipur	22-08-2013	21-08-2015	**4**	Faculty-In-Charge (Spectroscopy lab)- Supervision and Maintenance of Instruments of Spectroscopy Lab
MNIT Jaipur	DPGC Convener	20-07-2017	03-06-2021	**8**	As per MNIT Rules and Regulations of PG Schemes under the section no. 1.5.2: Responsibilities of DPGC
Dean Academics, MNIT	External Member	16-06-2017	15-06-2019	**4**	External Member for DPGC, DSC

Jaipur	for DPGC, DSC and Guest Faculty Committee " in Department of Mechanical Engineering.				and Guest Faculty Committee " in Dept. of Mechanical Engineering, MNIT Jaipur
Organizing Member	MNIT convocation 7th (04 Nov, 2012) 8th (10 July, 2014) 9th (19th Jan, 2015), 10th (11th Dec, 2015), 11th (21st Jan, 2017), 12th (6th Jan, 2018) 13th (29th Dec, 2018)	----	----	**11**	Printed Committee, Convocation brochure & Invitation cards
MNIT Faculty Recruitment (01/MNIT/Estt/2013) (No. MNIT/Dir./F-65/2013/)	Scrutiny/Shortlisting committee member	30-01-2013	30-05-2013	**4 months**	Shortlisting/Scrutiny of candidates based on selection criteria.
MNIT Library Automation and up-gradation	Task Force Member	16-09-2013	15-09-2014	**1 year**	Proposed a detailed plan and devised scheme to upgrade automation of central Library
CSAB-2013, 2014, 2015, 2016	Reporting officer	June-July period of academic year			Admission through JEE- Exam
Annual Technical and Cultural Event, Blitzschlag, 2014	Finance, Registration & Prizes Committee member	April 4-6, 2014			MNIT Institute Cultural Event
MNIT Faculty Recruitment (01/MNIT/Estt/2014) (No. MNIT/Dir./F-65/2014/	Scrutiny/Shortlisting committee member	24-04-2014	24-09-2014	**5 months**	Shortlisting/Scrutiny of candidates based on selection criteria.
West Zone Vice Chancellor Meet 2014-15 Association of Indian Universities	Protocol Committee	30/11/2014 to 03/12/2014			To plan and execute the protocol for the WZ VC meet 2014-15
Felicitation Ceremony-Silver Jubilee and Alumni Day celebration	Committee member	27-12-2014			Organizing the felicitation ceremony as committee member.
MNIT TA Chemistry Recruitment (F. No. AES-22/1/13/2014-Vol-III/94	Evaluator for Screening test	25-04-2015			Recruitment of non-teaching post
PHED JEN Exam, 2014	Observer	15-02-2015			Observe and inspect the exam
Hon'ble HRM and Co-NIT meet, 2015	Committee member	Oct, 10-12, 2015			Duties for coordinating visit

Administrative Assignments at Department level

Organization	Designation	From	To	No. of Semester	Nature of Work
Department of Chemistry, MNIT Jaipur	Programme Advisor	07-07-2015	06-07-2017	**4**	Serving as M.Sc (Chemistry) Course advisor to M.Sc Students 2015-2017 related to academic affairs.
	Member, Department Purchase Committee	07-07-2015	06-07-2016	**2**	Serving as member in the DPC for procurement of equipment, chemicals, glassware, software etc.
	Committee member for Construction of New Research lab including OMC lab	07-07-2015	06-07-2016	**2**	To monitor the progress of construction work of new research OMC lab.
	Member, DPGC	04-07-2013	03-06-2021	**16**	Roles of members given in DPGC rules and regulation of MNIT Institute
	Member, DUGC	04-07-2013	03-06-2021	**16**	As per given in DUGC rules and regulations of MNIT Institute.
	Faculty-In-Charge,	18-07-2016	03-06-2021	**16**	To look upon and guide students for placement to

	Placement				various companies.
	Member, Department Selection Committee (DSC)	01-06-2016	03-06-2021	**16**	To carry out written exam and interviews for Ph.D admissions, Guest Faculty etc.