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Work Experience

- 04 June, 2021 - Present** Associate Professor, Department of Medicinal Chemistry, **National Institute of Pharmaceutical Education and Research (NIPER-R) Raebareli**, Bijnor-Sisendi Road, Near CRPF Base Camp, Sarojini Nagar, Lucknow, Uttar Pradesh 226301, INDIA.
- 03 Oct, 2012 – 03 Jun, 2021** Assistant Professor, Department of Chemistry, MNIT Jaipur-302017, INDIA.
- Aug, 2013 – Aug, 2015** Adjunct Faculty, Materials Research Centre, MNIT Jaipur-302017, 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
“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
DST-SERB Young Scientist Award	Department of Science and Technology, Ministry of HRDG, New Delhi	2014

Certificate of Appreciation	<i>American Chemical Society, U.S.A</i>	2013
<i>2012 Top 10 Best Reviewer award for "Bioorganic and Medicinal Chemistry Letters" Journal</i>	Elsevier B.V. Registered Office, Amsterdam, The Netherlands & BMCL Regional Journal Office, Tokyo, Japan	2012
JSPS Postdoctoral Fellowship	<i>Japan Society for the Promotion of Science, Japan</i> Host Institute: <i>Institute of Microbial Chemistry, Microbial Chemistry Research Foundation (IMC-MCRF), Tokyo, Japan</i>	2010 – 2012
Postdoctoral Fellowship (NIH)	<i>The City University of New York at Hunter college, New York, U.S.A</i> Funding agency: <i>National institute of drug abuse (NIDA), National institute of health (NIH), U.S.A</i>	2009-2010
Postdoctoral Fellowship (NCRR-NIH)	<i>The City University of New York at Hunter college, New York, U.S.A</i> Funding agency: <i>National centre for research resources (NCRR), National institute of health (NIH), U.S.A</i>	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

Teaching Experience (~9 years)

At NIPER-Raebareli

M.Pharm level: MC 620 Logics in Organic Synthesis-II; MC 511 Spectral Analysis; MC 520 Logic in Organic Synthesis-I

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

UG level: CYT 101 Engineering Chemistry (Theory, Tutorial & Practical's)

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

Achievements in Nutshell

Sponsored Projects Ongoing = 03 (01 ICMR grant approved)	Projects Completed = 10	Projects as Host Researcher = 03
Total List of Publications in SCI journals = >60 [h-index: 17, i10 index 22, Citation: 877]	Invited Talks/ Plenary lecture/ Chaired Session = 37	Conferences/ Workshops/Invited lectures organized = 04
Patents = 02; Book Chapter = 03 (01 under production; 01 under review)	International Conferences = 21 National/ International Collaborations: 20	International/ National Conferences with proceedings = 64
Teaching Experience: 9 years Total Research Experience: 14 years	MOU Signed between MNIT Jaipur and PGNIU, Perm, Russia Foreign Expert in International Project	Postdoc Supervision: 04 Ph.D Supervision: 10 (06 completed & 02 ongoing at

	funded by Ministry of Education and Science, Perm, Russia	MNIT-J and 02 Ongoing at NIPER-R) M.Sc (Chemistry) Supervision: Completed (26 Students) M. S. Pharm (Med. Chem.) Supervision Ongoing (04 Students)
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International / National Assignments:

- (a) **Selection Committee Member (Chemistry)**, MEXT Research Fellowship 2020 & 2021, Embassy of Japan, Government of Japan.
- (b) **French Grant Reviewer**, French National Research Agency (ANR), 2021 Generic Call for Proposal (AAPG2021), France

Research Areas

- **Medicinal Chemistry, Drug Discovery & Process Development:** Mechanism/target/structure-based drug discovery, lead generation and lead optimization; Design, Synthesis and SAR study of new bioactive molecules, particularly in the field of novel antimalarials, antitubercular, anti-infective agents, anticancer agents.
- **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 arylation reactions. Investigation of cross coupling, hydroarylations, and Cyclization as well as addition reactions via development of metal-ligand catalytic systems will also be pursued.
- **Development of New Synthetic Methodologies.**
- **Total synthesis of biologically active Natural Products/Drugs/Therapeutics.**
- **Green chemistry:** Application of microwave-assisted/ ultrasound-assisted organic transformations; Explorations of organic reactions either under solvent-free conditions or using cheap innocuous alternate reaction media such as water and ionic liquids.
- **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.
- **Antiviral Drug Discovery:** Drug Designing, Synthesis and process development (special focus on SARS-COV-2).

Sponsored Projects Ongoing

1. **ICMR Grant (Extramural) in collaboration with AIIMS New Delhi.**
Funding Agency: ICMR (2021-2024)
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.
2. **Core Research Grant (CRG) in collaboration with AIIMS New Delhi.**
Funding Agency: SERB (2020-2023)
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.
3. **Russian International Project**
Funding Agency: Department of Science and Education, Perm, Russia Federation (2019-2022)
Project Title: Nitrogen- and Oxygen- containing heterocycles in the synthesis of drugs - from research to practice.

Projects Completed as PI

4. **FDCT Indo-Macao International Project (in collaboration with Macao University of Science and Technology (MUST), Macao, China)**
Funding Agency: FDCT (2020-2021)
Project Title: Investigation of Ozonide analogs for overcoming drug resistance in cancer and study of their mechanism of action.
5. **DST-NRF Indo-South Africa Joint Research Project**
Funding Agency: DST (2016-2019)

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.

6. **DST-ARRS Indo-Slovenian Joint Research Project**

Funding Agency: DST (2015-2018)

Project Title: Exploring Antimalarial Peroxides from Bench-side to Bed-side: 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.

7. **DST-RFBR Indo-Russian Joint Research Project**

Funding Agency: DST (2014-2016)

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

8. **CSIR Research Grant**

Funding Agency: CSIR (2014-2017)

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.

9. **DST-SERB Start-up Research Grant (Young Scientist)**

Funding Agency: SERB-DST (2014-2017)

Project Title: Exploring non-opioid analgesics from bench-side to bed-side: An efficient, cost-effective, asymmetric synthesis and SAR study of new non-opioid anti-pain lead compound, Conolidine.

10. **Organizing International Conference - "Current Challenges in Drug Discovery Research (CCDDR 2015)"**

Funding Agency: SERB (23rd Nov- 25th Nov, 2015)

11. **Seed Grant (2013-2016)**

Funding Agency: MNIT Jaipur

Project Title: Chemo- and regio-selective transition metal-catalyzed asymmetric hydroarylation of methylenecyclobutanes and methylenecyclopentanes.

Projects Completed as Co-PI

12. **TEQIP III "Collaborative Research Scheme (CRS)" Scheme Project with GEC, Jhalawar, Rajasthan**

Funding Agency: NPIU, TEQIP III, New Delhi under MHRD

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.

13. **TEQIP III "Collaborative Research Scheme (CRS)" Scheme Project with GWEC, Ajmer, Rajasthan**

Funding Agency: NPIU, TEQIP III, New Delhi under MHRD

Project Title: Small Molecule Fluorescent Probes for amyloid-beta for the detection of Alzheimer's disease.

Sponsored Projects completed as Host Researcher

14. **SERB-DST Young Scientist Scheme**

Funding Agency: SERB-DST (2016-2019)

Project Title: Synthesis of hetero-substituted amino acids via C (sp^3)-H functionalization and its applications.

15. **SERB National Postdoctoral Fellowship**

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.

16. **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.

Projects Submitted as Co-PI (in 2020)

17. **DST-ARRS Indo-Slovenian Joint Research Project**

Funding Agency: DST, New Delhi

Status: In process

Project Title: Development of Novel Artificially-synthesized Antimicrobial Peptides as Potential Substitutes for Antibiotics Against *Campylobacter* Species: A Commercial Approach Towards Improving Activity and Selectivity against *C. jejuni*.

18. **DST-FCT Indo-Portugal Joint Research Project**

List of Publications in Peer-reviewed Journals (H index =17, Total citations = 855)

1. Shyamlal, B. R. K.; Mathur, M.; Yadav, D. K.; Mashevskaya, I. V.; Mohamed El-Shazly, Na'il Saleh,* and **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*, **2021**, (Under Review). (I.F = 3.116)
2. 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 and Anticancer Agents: Synthesis, Bioevaluation, Structure-Activity Relationship and in-silico Studies" *Eur. J. Med. Chem.*, **2021**, 224, 113685 (I.F = 6.514)
3. 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).
4. Sharma, R.; Yadav, R. K.; Sharma, R.; Sahu, N. K.; Jain, M. and **Chaudhary, S.*** "Recent Advancements in the Synthesis and Chemistry of Benzo-fused Nitrogen- and Oxygen-based Bioactive Heterocycles" *Current Topics in Medicinal Chemistry*, **2021**, (Accepted) **[Invited Article]** (I.F = 3.295)
5. Yadav, L. and **Chaudhary, S.*** "Developments in Organocatalyzed C_(sp²)-H bond formation reactions involving single electron transfer mechanism: An Overview" *Current Organocatalysis*, **2021**, 8, (Accepted) **[Invited Article]** (I.F = 1.06) [DOI: [10.2174/2213337208666210114125815](https://doi.org/10.2174/2213337208666210114125815)]
6. Yadav, R. K.; Sharma, R.; Gautam, D.; Joshi, J. and **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**. (I.F = 3.319) [DOI: [10.1002/ajoc.202100156](https://doi.org/10.1002/ajoc.202100156)]
7. Sharma, R.; Yadav, L.; Yadav, R. K. and **Chaudhary, S.*** "Oxidative Cross-Dehydrogenative Coupling (CDC) via C_(sp²)-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 = 3.361) [DOI: [10.1039/D1RA02225C](https://doi.org/10.1039/D1RA02225C)]
8. Maksimov, A. Y.; Balandina, S. Y.; Topanov, P. A.; Mashevskaya, I. V. and **Chaudhary, S.** "Organic Antifungal Drugs and Targets of Their Action" *Current Topics in Medicinal Chemistry*, **2021**, 21, 705-736. (I.F = 3.295) [DOI: [10.2174/1568026621666210108122622](https://doi.org/10.2174/1568026621666210108122622)]
9. Tiwari, M. K.; Yadav, L.; and **Chaudhary, S.*** "[2,3-Bis-(2-pyridyl) pyrazine] as an Efficient Organocatalysis for the Direct C_(sp²)-H Arylation of Unactivated Arenes/Heteroarenes via C-H bond activation" *ChemistrySelect*, **2020**, 5, 11968-11975. [DOI: [10.1002/slct.202003140](https://doi.org/10.1002/slct.202003140)] (I.F = 2.109)
10. Yadav, L. and **Chaudhary, S.*** "Bu₄Ni-Catalyzed, oxidative C_(sp²)-C_(sp³) cross-dehydrogenative coupling for the regioselective direct C-3 Benzoylation of 2H-indazoles" *Org. Biomol. Chem.*, **2020**, 18, 5927 - 5936. [DOI: [10.1039/D0OB01282C](https://doi.org/10.1039/D0OB01282C)] (I.F = 3.876).
11. Yadav, R. K.; Kumar, Y.; **Chaudhary, S.*** "Metal-free, H₂O₂-mediated regioselective direct C-3 hydroxylation of imidazo[1,2-a]pyridines via C(sp²)-H bond functionalization" *ChemistrySelect* **2020**, 5, 9235-9239. [DOI: [10.1002/slct.202002219](https://doi.org/10.1002/slct.202002219)] (I.F = 2.109)
12. Yadav, L.; Tiwari, M. K.; Shyamlal, B. R. K.; **Chaudhary, S.*** "Organocatalyst in Direct C_(sp²)-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](https://doi.org/10.1021/acs.joc.0c01019)] (I.F = 4.354)
13. 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](https://doi.org/10.1021/acs.iecr.0c01869)] (I.F = 3.720)
14. 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/cmhc.202000045](https://doi.org/10.1002/cmhc.202000045)] (I.F = 3.466)
15. 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](https://doi.org/10.3389/fchem.2020.00250)]. (I.F = 5.221) *Preprints* **2019**, 2019100174 (DOI: [10.20944/preprints201910.0174.v1](https://doi.org/10.20944/preprints201910.0174.v1)).
16. 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/cmhc.202000070](https://doi.org/10.1002/cmhc.202000070)] (I.F = 3.466) **Special Collection on Nanomedicine (2020 Hot Topic Series)** bit.ly/cmhc-

17. Shyamlal, B. R. K.; Mathur, M.; Yadav, D. K.; **Chaudhary, S.*** “Microwave-Assisted Modified Synthesis of C₈-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 = **2.882**)
18. 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 = **4.379**)
19. 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 = **2.109**)
20. 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 = **12.994**)
21. Pchelintseva, D.I.; Lukmanova, D.N.; Prikhodko, J.I.; Pavlov, P. T.; Mashevskaya, I.V.; **Chaudhary, S.** “Reactions of 3-aryl-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]
22. Tiwari, M. K.; Yadav, L.; Shyamlal, B. R. K.; and **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 = **3.319**)
23. Kumar, K.; Yadav, L.; Kondaiyah. P.; **Chaudhary, S.*** “Efficacious doxorubicin delivery using glutathione responsive hollow non-phospholipid vesicles bearing lipoyl cholesterol” *ChemMedChem*, **2019**, *14*, 1633-1640. [DOI: [10.1002/cmde.201900335](https://doi.org/10.1002/cmde.201900335)] (I.F = **3.466**)
24. 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” *Current Topics in Medicinal Chemistry*, **2019**, *19*, 852-864. (I.F = **3.295**) **[Invited Article]**
25. Yadav, D. K.; Kumar, S.; Teli, M. K.; Yadav, R. K.; and **Chaudhary, S.** “Molecular targets for antimalarial Chemotherapy- A Review”, *Current Topics in Medicinal Chemistry*, **2019**, *19*, 824-838. (I.F = **3.295**)
26. 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 = **4.379**)
27. 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](https://doi.org/10.1002/slct.201803145)] (I.F = **2.109**)
28. Jaiswal, P. K.; Sharma, V.; Mathur, M.; and **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 = **6.005**) [DOI: 10.1021/acs.orglett.8b03587]
29. Jaiswal, P. K.; Sharma, V.; Mathur, M.; and **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 = **6.005**) [DOI: 10.1021/acs.orglett.8b02132]
30. 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 = **3.466**) [DOI:10.1002/cmde.201800318]
31. 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](https://doi.org/10.1016/j.coco.2018.07.004)]. (I.F = **6.617**)
32. **Chaudhary, S.***; Shyamlal, B. R. K.; Yadav, L.; Tiwari, M. K.; Kumar, K. “Ag₂O Nanoparticle-Catalyzed Substrate-Controlled Regioselectivities: Direct Access to 3-Ylidenephthalides and Isocoumarins” *RSC Advances*, **2018**, *8*, 23152-23162. (I.F = **3.361**)
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2. Gautam, D.; **Chaudhary, S.** "First Row Transition metal-based Symmetrical NCN Pincer Complexes via C_(sp²)-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.
3. 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

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33. Tiwari, M. K.; Yadav, L.; Bharti Shyamlal, R. K. and **Chaudhary, S.** (Nov, **2015**), "Development of New Organocatalysed 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.

41. 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.
42. 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.
43. 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.
44. 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.
45. *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*”, National 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.
46. *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*”, National 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.
47. **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 (ISCB **2015**)-Current trends in drug discovery and developments, CSIR-Central Drug Research Institute, Lucknow, India.
48. *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 (ISCB **2015**)-Current trends in drug discovery and developments, CSIR-Central Drug Research Institute, Lucknow, India.
49. *Poster presentation*, **Chaudhary, S.**; Naikade, N. K. & Singh, C. (26 Sep, **2014**) “*¹O₂-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
50. *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 ISCB international conference on Chemistry and Medicinal Plants in Translational Medicine for Healthcare (ISCB **2014**), Dept. of Chemistry, University of Delhi, India.
51. **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.
52. *Poster presentation*, **Chaudhary, S.** “*Frontiers of medicinal science*” 8th AFMC International medicinal chemistry symposium (AIMECS), Nov-Dec, **2011**, Tokyo, JAPAN.
53. *Poster presentation*, **Chaudhary, S.** “*Chemiomolecular Science: at the frontier of Chemistry and Biology*”, The Uehara memorial foundation international symposium, (June, **2011**), Tokyo, JAPAN.

54. 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.
55. **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.
56. 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.
57. **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.
58. **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 Sci Finder and *Poster presentation*, 238th ACS national meetings & expositions, Washington D C, U.S.A.
59. 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.
60. *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.
61. *Poster presentation*, **Chaudhary, S.**; Puri, S. K. and Singh, C. (Jan, **2006**) “*Novel orally active C-10a 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.
62. **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: **1.436**)
63. *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.
64. **Chaudhary, S.**; Puri, S. K. and Singh, C. “*Orally active artemisinin derivatives*”, *Med. Chem. Res.*, **2004**, 12 (6/7), 362. (Impact factor: **1.436**)

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

1. 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).
2. 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**.
3. 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**.
4. Attended/Participated in “*Workshop on the Application of Direct Analysis in Real Time Mass Spectroscopy (DART-MS) Techniques*, **2013**, CSIR-CDRI, Lucknow.
5. Attended/Participated in “*Brainstorming Conference/Workshop on Science, Technology and Innovation Policy (STI Policy, DST), 2013*” organized by MNIT Jaipur (**30th April, 2013**), India.
6. National Workshop attended on “*Modern Sophisticated Instruments*”, Indian Institute of Technology, Indore (Feb, **2013**), India.
7. “21st Symposium on optically active compounds” Institute of microbial chemistry, Microbial chemistry research foundation, **Nov, 2011**, Tokyo, JAPAN.
8. Workshop attended on “*Responsible conduct of research*”, (May, **2010**), the City University of New York, New York, U.S.A.
9. “*Sponsored Program & Funding: CUNY postdoctoral development program*”, (April, **2010**), The City University of New York, U.S.A.
10. “*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.

11. Workshop attended on “*Responsible conduct of research*”, (Oct, **2009**), The City University of New York, New York, U.S.A.
12. “*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.
13. 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

1. **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. (Convener & Organizing Secretary, CCDDR 2015)
2. “*AIDS Awareness Programme*” as part of Community Development Programme organized at Department of Chemistry, MNIT Jaipur on 1st Dec, **2014**. (Programme Coordinator)
3. “*CANCER Awareness Programme*” as part of Community Development Programme organized at Department of Chemistry, MNIT Jaipur on 19th Nov, **2014**. (Programme Coordinator)
4. Served as **Programme coordinator** for organizing several “*Invited Lecture*” by eminent expert in the Department of Chemistry, MNIT Jaipur from **2013-2018**.

Invited Talks/ Plenary lecture/ Chaired Session

1. **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.
2. **ONLINE Invited Lecture** on “*Transition-Metal-Free/Oxidant-Promoted C_(sp²)-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.
3. **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 [12:00 Noon to 12:45 PM]**.
4. **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 [4:35 PM to 5:20 PM]**.
5. **ONLINE Invited Lecture** on “*2,3-Bis-(2-pyridyl)Pyrazine as an Efficient Organocatalyst for the Direct C_(sp²)-H Arylation of Unactivated Arenes/Heteroarenes*” at the Faculty of Chemistry, Department of Organic Chemistry, Perm State University, Perm, Russia on **30th Oct, 2020 [3:45 PM to 4:30 PM]**.
6. **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 [4:35 PM to 5:20 PM]**.
7. **ONLINE Invited Lecture** on “*Microwave-Assisted Synthesis of C₈-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 [3:45 PM to 4:30 PM]**.
8. **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 [4:35 PM to 5:20 PM]**.
9. **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 [3:45 PM to 4:30 PM]**.

10. **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**.
11. **ONLINE Invited Lecture** on “*Metal-Free, Oxidant-Promoted, Csp²-Csp³ 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**.
12. **ONLINE Plenary Lecture** on “*Organocatalysis in C_(sp²)-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**.
13. “*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.
14. **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**.
15. “*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**.
16. “*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**.
17. “*Ag₂O 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**.
18. **Invited Lecture** “*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**.
19. **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**.
20. “*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**.
21. “*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**.
22. “*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**.
23. **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**.
24. “*Recent developments in the Chemistry and biology of Antimalarial drug Artemisinin*” at National Conference (**OCS-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**.
25. “*Carbon-Carbon Bond Forming Reactions: Classical vs Modern*” at Department of Chemistry, Goa University, Goa, India on **22nd March, 2016**.

26. "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**.
27. "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**.
28. "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**.
29. "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**.
30. "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**.
31. "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**.
32. "Stable Bio-active Novel Peroxides: Synthesis, Chemistry and their Biological Evaluation" at Department of Chemistry, University of Ljubljana, Ljubljana, Slovenia on **10th September, 2015**.
33. "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**.
34. "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**.
35. "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**.
36. "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*)
37. "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.
38. "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.
39. "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

1. **Indo-Macau Collaboration (Project: Anticancer Drug Discovery Programme)**
Prof. Vincent Wong & 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.
2. **Indo-Russian Collaborators**
Prof. Irina V. Mashevskaya, Department of Organic Chemistry, Faculty of Chemistry, Perm State University, Perm, Russia Federation.
- Indo-Korean Collaboration (In Silico Molecular Docking Studies)**
3. Dr. Dharmendra Kumar Yadav, College of Pharmacy, Gachon University of Medicine and Science, Yeonsu-gu, Incheon City, 21924, Korea

National/International Collaborations (2013-2020)

1. Prof. Andrey N. Maslivets, Department of Organic Chemistry, Faculty of Chemistry, Perm State University, Perm, Russia Federation.
2. Dr. Vinita Chaturvedi, CSIR-CDRI, Lucknow.

3. **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*)
4. **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*)
5. **Prof. Kristof Kranjc**, Department of Chemistry and Biochemistry, University of Ljubljana, Slovenia.
6. **Prof. Franc Perdih**, Department of Chemistry and Biochemistry, University of Ljubljana, Slovenia.
7. Department of Advance Molecular Microbiology, **M/s Seminal Applied Sciences Pvt. Ltd, Jaipur.**
8. **Dr. Roman V. Shchepin**, Department of Radiology & Radiological Sciences, Vanderbilt University, Institute of Imaging Science, Vanderbilt University Medical Center, Nashville, Tennessee, USA.
9. **Prof. Nadezhda Shchepina**, Head of the Laboratory of Radiochemistry, Natural Sciences Institute of Perm State University, 4, Genkel St., Perm-614990, Russia.
10. **Prof. Nonhlanhla P. Khumalo**, Hair and Skin Research lab, Head of Dermatology, Groote Schuur Hospital & the University of Cape Town, Capetown, South Africa.
11. **Dr. Ahmed Mohammed**, Department of Chemistry, Faculty of the Natural Sciences, University of the Western Cape, Cape Town, South Africa.
12. **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]
13. **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*)
14. **Prof. Paturu Kondaiah**, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore-560012, India.
15. **Dr. Rajbala Verma**, Department of Zoology, University of Rajasthan, Jaipur-302004, India. (Biological Investigation = Antitubercular, Antimicrobials, Antioxidants, Antiplatelets etc.)
16. **Dr. Dinkar Sahal**, International Centre for Genetic Engineering and Biotechnology. Aruna Asaf Ali Marg, New Delhi, New Delhi. (*Antimalarial Drug Development Programme*)
17. **Dr. Ramendra Pratap**, Department of Chemistry, University of Delhi.

International Visits

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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 March, 2015.

Facilities Established at NIPER-Raebareli: *In process*

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

Ph.D Supervision at MNIT Jaipur (08 Students)

S. No.	Name of Ph.D student	Title of Thesis	Status
1.	Dr. Vashundhra Sharma (Jan, 2013- Dec, 2017)	<i>Synthetic Studies towards Coupling Reactions: Chemistry and Biology of Bio-Active Alkaloids</i>	Thesis submitted on 05-12-2017 & Ph.D awarded on 22-12-2018 (2018)
2.	Dr. Ritu Sharma (Jan, 2014-Feb, 2019)	<i>Synthesis, Chemistry and Bio-evaluation of some Biologically active Heterocycles</i>	Thesis submitted on 21-02-2019 & Ph.D awarded on 03-12-2019 (2019)
3.	Dr. Mohit K. Tiwari (July, 2014- Dec, 2019)	<i>Synthetic Studies on Pharmaceutically Privileged Bioactive Heterocycles: Synthesis, Chemistry & Biological Evaluation</i>	Thesis submitted on 31-12-2019 & Ph.D awarded on 07-07-2020 (2020)
4.	Dr. Bharti Rajesh Kumar Shyamlal (July, 2014-July, 2020)	<i>Studies towards Natural Product-Inspired Bioactive Heterocycles: Synthesis, Chemistry and their Medicinal Applications</i>	Thesis submitted on 27-07-2020 & Ph.D awarded on 10-02-2021 (2021)
5.	Dr. Lalit Yadav (Jan, 2015- July, 2020)	<i>Synthetic Studies Towards Organocatalyzed $C_{(sp^2)}$-H Bond Activation Reactions: Development of New Strategies for the Synthesis of Bioactive Heterocycles</i>	Thesis submitted on 26-08-2020 & Ph.D awarded on 11-02-2021 (2021)
6.	Ravi Kant Yadav, M.Sc, M.Tech, UGC-SRF	<i>Synthetic Studies on C-H Bond Functionalization Reactions: Chemistry of Imidazole[1,2-a]pyridine-based Fused Bio-active Heterocycles and its Congeners</i>	Thesis submitted on & Ph.D awarded on (2021)
7.	Nawal Kishore Sahu (TEQIP Part-Time Scholar) Current Position: Asst. Professor, Govt. Engg. College, Bharatpur	<i>Indole-Based Novel Bioactive Alkaloids: Synthesis, Chemistry and Biological Assessment</i>	Ongoing (2018-Present)
8.	Richa Sharma	<i>Chemistry on Natural Product Inspired Fused Bio-heterocycles: Synthesis and Practical Applications</i>	Ongoing (2019-Present)

Postdoc Supervised at MNIT Jaipur (04)

1st March, 2016- 28th Feb, 2018: Dr. Jaggi Lal, Ph.D (Jiwaji University, Gwalior) *SERB N PDF*

1st April, 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 April, 2020: Dr. Krishan Kumar, Ph.D (IISc Bangalore), *CSIR-RA*

M.Pharm (Med Chem) Supervision at NIPER-Raebareli

S. No.	Name of M.Pharm Student	Title of Dissertation Thesis	Year of Completion
1.	Pooja Prakash Atpadkar (666/MS-MC/20)	<i>Yet to decide (due to COVID-19)</i>	Ongoing (2021-22)
2.	Tushar M. Boralkar (673/MS-MC/20)	-----do-----	Ongoing (2021-22)
3.	Yajnashri M (675/MS-MC/20)	-----do-----	Ongoing (2021-22)
4.	Vedant Desmukh (674/MS-MC/20)	-----do-----	Ongoing (2021-22)

M.Sc (Chemistry) Supervision [Completed (26)] at MNIT Jaipur

S. No.	Name of M.Sc Student	Title of M.Sc Dissertation Thesis	Year of
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			Completion
1.	Mukul Yadav (2019PCY5608)	<i>Synthetic Studies Towards Novel 5H-imidazo[2,1-b][1,3]thiazin-5-one and its sulphonamides</i>	2021
2.	Vishal Yadav (2019PCY5628)	<i>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</i>	2021
3.	Govind (2018PCY5402)	<i>Microwave-Assisted Synthesis of Imidazo[1,2-a]pyridine Class of Heterocycles</i>	2020
4.	Vikas Kumar (2018PCY5314)	<i>An efficient synthesis of substituted 1-phenethyl-1,2,3,4-terahydroisoquinolines: A precursor for the synthesis of bioactive C-homoaporphines</i>	2020
5.	Dinesh Yadav (2017PCY5358)	<i>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</i>	2019
6.	Shaifali Mittal (2017PCY5353)	<i>Synthesis and Characterization of 2H-Indazole based bioactive heterocycles</i>	2019
7.	Satyam Doley (2017PCY5311)	<i>Synthetic studies towards novel 4H-1,3-oxazin-2-amine and 5H-imidazo[2,1-b][1,3]oxazine class of heterocycles</i>	2019
8.	Poonam Meena (2016PCY5377)	<i>An efficient synthesis of various 2'-bromoacetophenones and 2-aminothiazines: A starting precursor for the synthesis of various substituted imidazo[2,1-b]azines</i>	2018
9.	Neelam Rawat (2016PCY5141)	<i>Synthesis, Characterization of Curcumin Analogues Bearing Pyrazole/ Pyrimidine Ring Targeting Anti-tyrosinase activity.</i>	2018
10.	Vishal (2015PCY 5454)	<i>Synthetic studies towards antimalarial peroxides: synthesis of various starting materials for the synthesis of antimalarial bicyclic azaperoxides</i>	2017
11.	Ruchi Aggarwal (2015PCY5433)	<i>Synthesis of N-substituted indoles: An important precursor for the synthesis of Indole-based natural products</i>	2017
12.	Aarohi Gupta (2015PCY5388)	<i>An efficient synthesis of substituted amides via reaction of various phenethylamines with bromoacids: a starting precursor for the synthesis of bio-active C-Homoaporphines</i>	2017
13.	Renu (2014PCY5302)	<i>Synthesis, characterization and analytical studies of reaction intermediates- Application towards synthesis of antimicrobial benzo[1,4]oxazines</i>	2016
14.	Sapna Yadav (2014PCY5281)	<i>Synthesis, Characterization and Analytical Study of Reaction Intermediates- Application towards synthesis of antioxidant Benzo[1,4]oxazines</i>	2016
15.	Bhawna Lekhwani (2013PCY7022)	<i>Synthesis and Characterization Of O-Amino Thiophenol</i>	2015
16.	Mahadeva Singh Jat (2013PCY7038)	<i>Synthesis and Characterization of benzothiazoles</i>	2015
17.	Pushpa Chaudhary (2013PCY7068)	<i>Synthesis and Characterization of Antimalarial Quinoline derivatives</i>	2015
18.	Kamna Sharma (2013PCY7048)	<i>Synthesis and Characterization of benzodiazepines</i>	2015
19.	Gurmeet Singh (2013PCY7013)	<i>Synthesis of Versatile intermediate "2H-Pyran-2-ones" for organic transformations</i>	2015
20.	Monika Choudhary (2012PCY7051)	<i>Synthetic Utilities of Ketene Dithioacetal</i>	2014

21.	Deep Shikha Vyas (2012PCY7039)	<i>Synthesis and Study of Oral rehydration salt</i>	2014
22.	Hansa Arya (2012PCY7010)	<i>A Simple and Efficient Synthesis of Highly Functionalized 2H-Pyran-2-Ones = Versatile Intermediate for Diverse Transformations</i>	2014
23.	Rajnikant Mahawar (2011PCY5062)	<i>Study of Cement Chemistry and its Manufacturing</i>	2013
24.	Neelam (2011PCY5056)	<i>Pharmaceutical Drug Metronidazole</i>	2013
25.	Sharda Saini (2011PCY5075)	<i>Surface Active Agents</i>	2013
26.	Manisha Bhagat (2011PCY5072)	<i>Aqueous Film Forming Foam</i>	2013

Reviewer for Journals:

<i>Bioorganic and Medicinal Chemistry Letters</i>	<i>DARU Journal of Pharmaceutical Sciences</i>	<i>Organic Chemistry Frontiers</i>
<i>RSC Advances</i>	<i>Process Biochemistry</i>	<i>The Journal of Organic Chemistry</i>
<i>Medicinal Research Reviews</i>	<i>ACS Omega</i>	<i>Organic and Biomolecular Chemistry</i>
<i>ChemMedChem</i>	<i>Journal of Chemistry (HINDAWI)</i>	<i>Reviews in Cardiovascular Medicine (RCM)</i>
<i>New Journal of Chemistry</i>	<i>Journal of Molecular Structure</i>	<i>Synthetic Communications</i>
<i>Plasma Processes and Polymers</i>	<i>Chemical Papers</i>	<i>Indian Journal of Pharmaceutical Sciences</i>
<i>Bioorganic Chemistry</i>	<i>BMC Infectious Diseases</i>	<i>Research on Chemical Intermediates</i>
<i>Ultrasonic Sonochemistry</i>	<i>Medicinal Chemistry Research</i>	<i>Acta Chimica Slovenica (Slovenian Chemical Society),</i>
<i>Saudi Pharmaceutical Journal</i>	<i>Arkivoc (Arkut USA)</i>	<i>Journal of Agricultural and Food Chemistry (ACS)</i>
<i>Current Organic Synthesis</i>	<i>Scientific Reports</i>	<i>Current Trends in Medicinal Chemistry</i>
<i>BMC Chemistry</i>		<i>Studies in Natural Product Chemistry (SNPC)- Book Chapter</i>

Membership of Professional Scientific Societies / National and International Advisory Board

Editorial Advisory Board Member:

- *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 Chemist and Biologist, CSIR-CDRI Lucknow (2013 - Present)*
- *The 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)
- **Membership:** American chemical society, USA (2008 - Present)

Professional Training Received

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

List of Equipments purchased at MNIT Jaipur

Equipment available in my Research Group	Generic Name of Equipment	
PI & his group	(a) 02 Low temperature Reaction bath (b) 02 Two Rotavapor with vacuum pump and chiller (c) 14 Magnetic Stirrers with hot plate (d) 04 Weighing balance (e) 10 UV lamp with box (f) 10 Computer with printer (g) 01 Vertex Mixer (h) 05 Oil Free Diaphragm Vacuum Pump (i) 03 Laboratory Oven	(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

Administrative Assignments at Institute level

Organization	Designation	From	To	Nature of Work
NIPER-Raebareli (NIPER-RBL/Cte/2021/10 dated 11-06-2021)	Member, Physical Verification Committee	11-06-2021	Present	Physical verification of Assests of Computer Centre and Library

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	Present	General Duties and Responsibility related to Department of Medicinal Chemistry including academic and Administrative works

Administrative Experiences: Responsibilities and Professional Activities done at MNIT Jaipur

Administrative Assignments at Institute level

Organization	Designation	From	To	No. of Semester	Nature of Work
MNIT Jaipur (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 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 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 Jaipur (MNIT/DIR/2013/460 dated 23-07-2013)	Co-coordinators (SC/ST/OBC/Persons with Disability (PWD) Development and	23-07-2013	22-07-2014	2	SC/ST/OBC/Persons with Disability Development and Liaison Officer

	Liaison Officer				
MNIT Jaipur (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
MNIT Jaipur (circulated by Dean Academics, MNIT)	External Member for DPGC, DSC and Guest Faculty Committee " in Department of Mechanical Engineering.	16-06-2017	15-06-2019	4	External Member for DPGC, DSC and Guest Faculty Committee " in Dept. of Mechanical Engineering, MNIT Jaipur
Organizing Member	MNIT convocation 7 th (04 Nov, 2012) 8 th (10 July, 2014) 9 th (19 th Jan, 2015), 10 th (11 th Dec, 2015), 11 th (21 st Jan, 2017), 12 th (6 th Jan, 2018) 13 th (29 th 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	15-09-2013	1 year	Propose a detailed plan and devise 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			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.
TA Chemistry Recruitment	Evaluator for Screening test	25-04-2015			Recruitment of non-teaching post

(F. No. AES-22/1/13/2014-Vol-III/94)			
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.
Department of Chemistry, MNIT Jaipur	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.
Department of Chemistry, MNIT Jaipur	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.
Department of Chemistry, MNIT Jaipur	Member, DPGC	04-07-2013	03-06-2021	16	Roles of members given in DPGC rules and regulation of Institute
Department of Chemistry, MNIT Jaipur	Member, DUGC	04-07-2013	03-06-2021	16	As per given in DUGC rules and regulation of MNIT Institute.
Department of Chemistry, MNIT Jaipur	Faculty-In-Charge, Placement	18-07-2016	03-06-2021	16	To look upon and guide students for placement to various companies.
Department of Chemistry, MNIT Jaipur	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.

List of Referees:

Name	Prof. Dr. Chandan Singh	Prof. Wayne W. Harding	Prof. Dr. Masakatsu Shibasaki
Email ID	chandandri@yahoo.com	whardi@hunter.cuny.edu	mshibasa@bikaken.or.jp
Address and Phone No	Scientist-G [Director Grade (Retd.)], Division of Medicinal & Process Chemistry, Central Drug Research Institute, Mahatma Gandhi Marg, Lucknow - 226001, INDIA. Phone No.: 919909975127	Associate Professor Department of Chemistry, The City University of New York at Hunter College, office 1307A HN 695 park Avenue, New York 10065, USA. Phone No.: +1-(212) 772 5359	Emeritus professor, The University of Tokyo Emeritus professor, Hokkaido University & Director, IMC 3-14-23 Kamiosaki, Shinagawa-Ku, Tokyo 141-0021, JAPAN Phone No.: 334477779
Relationship with the applicant	Ph.D. Supervisor	Postdoc Supervisor	Host Researcher for JSPS Fellowship