




Shivaji College Faculty Details Proforma

Title	Dr	First Name	Reeta	Last Name		Photograph
Designation		Assistant Professor				
Address		Ghaziabad, Uttar Pardesh, India				
Office Phone No.						
Residence		Ghazibad, Uttar Pardesh, India				
Mobile		09582856184				
Email		dr.reeta@shivaji.du.ac.in				
Web-Page		linkedin.com/in/dr-reeta				
Educational Qualifications						
Degree		University/Institute			Year	
Ph.D.		Department of Chemistry, University of Delhi			2019	
M.Phil./M.Tech.						
PG		Chaudhary Charan Singh University Meerut			2013	
UG		Chaudhary Charan Singh University Meerut			2011	
Any Other Qualification		RSO Certification for Research Radiotracer and Column Scanning Applications of Ionizing Radiation conducted by Radiological Physics & Advisory Division, Bhabha Atomic Research Center (BARC)			2024	
		Certified with Laboratory Quality Management System, Internal Audit and measurement of uncertainty in accordance with ISO /IEC: 17025: 2017 (NABL).			2021	
NET		Secured 12th rank for Lectureship (UGC/CSIR-NET)			2015	
Career Profile						
Overall 10+ years of professional experience in Research and Development, Organic Synthesis, Analytical techniques, Project Management, Technical co-ordination & Planning, Radiation Safety Officer (RSO), Procurement Management, Organic Synthesis in the field of bioactive molecules by multistep at lab scale and subsequent up scaling, Chromatography techniques, Purification, Nuclear medicine research, Radioisotopes labeling, characterization						

and data interpretation, Qualitative and Quantitative analysis of drugs, Organic Molecules, Natural products, Pesticides residue analysis.

Administrative Assignments

Areas of Interest/Specialisation

- Organic Chemistry
- Research and Development
- Organic Synthesis
- Analytical techniques
- Project Management

Subjects Taught

- Chemistry of Carboxylic Acids & their Derivatives, Amines and Hetrocycles DSC-10
- Carbohydrates, Lipids and Heterocyclic Compounds (DSC-11, Organic Chemistry IV)
- VAC 1: Science and Society

Innovation Project/Research Projects (Major Grants/Research Collaboration)

National Post-Doc Fellow (N-PDF) - SERB

1. "Synthesis of Novel ¹⁸F-Labelled Pyrimidine based Radiotracer for Imaging of the Peripheral Benzodiazepine Receptor (PBR28) in the Brain: Radioactive Labelled Pyrimidine based Radiotracer valuable Biomarkers for various Neurological Disorders"

Publications Profile (*Research Papers/Books*)

RESEARCH PAPER PUBLICATIONS

1. "Network pharmacology and molecular docking study-based approach to explore mechanism of benzimidazole-based anthelmintics for the treatment of lung cancer" Aakriti Garg, Sonali Karhana, Aysha Bano, Imran A. Khan, **Reeta**, Nidhi, Mohd Ashif Khan, *Journal of Biomolecular Structure and Dynamics*, **2023**
2. "Formulation Engineering of Biowastes as Green Insecticide for Successful and Safe Control of German Cockroaches (*Blattella germanica* (L.)) and Possible Waste Management" Nusrat Iqbal, Dipak Kumar Hazra, Saurabh Dubey, Megha Pant, Satyawati Sharma, Kushal Roy, Abhishek Sharma, **Reeta Chaudhary**, *ACS Agricultural Science & Technology*, **2022**, 2, 2, 302.

3. "Aldoxime- and hydroxyl-functionalized chalcones as highly potent and selective monoamine oxidase-B inhibitors" Jong Min Oh, T. M. Rangarajan, **Reeta Chaudhary**, Nicola Gambacorta, Orazio Nicolotti, Sunil Kumar, Bijo Mathew, Hoon Kim, *Journal of Molecular Structure*, **2022**, 1250, 131817.
4. "Novel Class of Chalcone Oxime Ethers as Potent Monoamine Oxidase-B and Acetylcholinesterase Inhibitors" Jong Min Oh, T. M. Rangarajan, **Reeta Chaudhary**, Rishi Pal Singh, Manjula Singh, Raj Pal Singh, Anna Rita Tondo, Nicola Gambacorta, Orazio Nicolotti, Bijo Mathew, Hoon Kim, *Molecule*, **2020**, 25, 2356.
5. "An Easy Access to Oxime Ethers by Pd-Catalyzed C—O Cross-Coupling of Activated Aryl Bromides with Ketoximes and Chalcone Oximes" **Reeta**, T. M. Rangarajan, Rishi Pal Singh, R. P. Singh, *Chin. J. Chem.*, **2020**, 38, 830-836.
6. "Efficient solvent- and temperature-tuned access to aldoxime ethers and phenolic functions by Pd-Catalyzed C-O cross-coupling of aldoxime aryl bromides and bromo-chalcones" **Reeta**, T. M. Rangarajan, Kumar Kaushik, Rishi Pal Singh, Manjula Singh, Raj Pal Singh, *New J. Chem.*, **2020**, 44, 1326-1336.
7. "Ethyl acetohydroxamate containing chalcones: Discovery of a novel class of multimodal monoamine oxidase-B inhibitors against Alzheimer's disease", **Reeta**, Seung Cheol Baek, Jae Pil Lee, T. M. Rangarajan, Ayushee, Rishi Pal Singh, Manjula Singh, Giuseppe Felice Mangiatordi, Orazio Nicolotti, Hoon Kim, Bijo Mathew, *CNS & Neurological Dis.*, **2019**, 18, 643-650.
8. "Synthesis of novel chalcones through palladium-catalyzed C-O cross-coupling reaction of bromo-chalcones with ethyl acetohydroxamate and their antiplasmodial evaluation against Plasmodium falciparum in Vitro", **Reeta**, VinothRajendran, T. M. Rangarajan, Ayushee, Rishi Pal Singh, Manjula Singh, *Bioorg.Chem.*, **2019**, 86, 631-640.
9. "Palladium-Catalyzed Rapid Methoxylation and Deuteriomethoxylation of Bromo-chalcones: Uncovering the Catalytic Activity of the Pd/*t*BuXPhos Catalyst System", **Reeta**, T. M. Rangarajan, Ayushee, Rishi Pal Singh, R. P. Singh, *ChemSelect*, **2016**, 1, 6894-6901.

PATENT PUBLICATION

1. Composition for preventing of treating neurodegenerative disease comprising ethyl acetohydroxamate incorporated chalcones as an active Inventors. Prof. Hoon Kim, Dr. Seung Cheol Back, Dr. Lee Jae Phil, Dr. Bijo Mathew, Dr. T. M. Rangarajan, **Dr. Reeta**. *Patent No. 10-2459659 Korean Intellectual Property*

BOOK CHAPTER PUBLICATION

1. "Chapter 8 - Medicinally important natural bioactive compounds for leishmaniasis treatment: efficient alternate of toxic drugs" Nusrat Iqbal, **Reeta Chaudhary**, Vivek Ahluwalia, Amrisha Agrawal, Jitendra Kumar, Saurabh Dubey, *Elsevier, Studies in Natural Products Chemistry*, **2023**, 76, 247-297.

Conference/Seminar/Faculty Development Programme/Workshop

1. Participated in the International Conference on **Resurgent Bharat on the Global Canvas** organized by Shaikshik Foundation in collaboration with NCPSL & Shivaji College, University of Delhi, India on 25 Feb **2024**.
2. Participated in the **55th Annual Conference of the Society of Nuclear Medicine (INDIA) on NUCLEAR MEDICINE – THE KEY TO PRECISION MEDICINE (SNMICON-2023)** organized by AIIMS, Jodhpur, India on 16-19 Nov **2023**.
3. Participated in the **54th Annual Conference of the Society of Nuclear Medicine (INDIA) on THERANOSTICS – THE DAWN OF A NEW ERA (SNMICON-2022)** organized by AIIMS New Delhi on 08-11 Dec **2022**.
4. Participated in the **2nd International Conference on INTEGRATIVE CHEMISTRY, BIOLOGY AND TRANSLATIONAL MEDICINE (ICBTM-2022)** organized by Hansraj College, University of Delhi on 06-08 Dec **2022**.
5. Presented a paper, **“Molecular modeling of Aldoxime and Hydroxy Functionalized Chalcones as Highly Potent and Selective Inhibitors of Monoamine Oxidase-B”** in the **INTERNATIONAL CONFERENCE ON DRUG DISCOVERY (ICCD 2022)**, organized by BITS Pilani K K Birla Goa Campus on 10-11 Nov 2022.
6. Participated in the **4th IUPAC International Conference on AGROCHEMICALS PROTECTING CROPS, HEALTH AND NATURAL ENVIRONMENT – DISCOVERY AND DEVELOPMENT OF SYNTHETIC AND NATURAL PRODUCTS FOR HEALTH AND PESTS MANAGEMENT (APCHNE 2020)** organized by IPFT AND ICAR on 07-10 Jan **2020**.
7. Presented a paper, **“Palladium-Catalysed Cross-Coupling of Bromo-chalcones with Ethyl acetohydroxamate: Antimalarial Evaluation of O-chalcone ethyl acetohydroxamates”** in the **GREENING AN UNDERGRADUATE CHEMISTRY LAB: CREATING AWARENESS FOR ENVIRONMENT FRIENDLY METHODOLOGIES**, organized by Sri Vankateswara College University of Delhi on 8-9 Aug **2018**. Abstract No. PP16.
8. Presented a paper, **Entitled “Palladium-Catalysed Cross-Coupling of Bromo-chalcones with Ethyl acetohydroxamate”** in the **24th ISCB INTERNATIONAL CONFERENCE (ISCB-2018)**, organized by Manipal University Jaipur and Indian Society of Chemist & Biologists Lucknow on 11-16 Jan 2018. Abstract No. P-61.
9. Participated in the **CONTEMPORARY FACETS IN ORGANIC SYNTHESIS 2017 (CFOS 2017)**, organized by IIT Roorkee on 22-24 Dec **2017**.
10. Participated in the **INTERNATIONAL CONFERENCE ON ADVANCING GREEN CHEMISTRY: BUILDING A SUSTAINABLE TOMORROW**, organized by University of Delhi on 3-4 Oct 2017.
11. Presented a paper, Entitled **“Palladium-Catalysed Rapid Methoxylation and Deuteriomethoxylation of Bromo-chalcones”** in the **21st INTERNATIONAL CONFERENCE ON ORGANIC SYNTHESIS (ICOS 21)**, organized by IIT Bombay on 11-16 Dec 2016. Abstract No. P323.
12. Participated in the **2nd INDO-GERMAN WORKSHOP ON SUPRAMOLECULAR CHEMISTRY**, organized by University of Delhi on 30 March 2015.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

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Awards and Distinctions

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Memberships

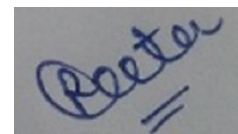
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Other Academic Activities

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Cultural/ Extracurricular Activities

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Signature of Faculty Member