

A. EMPLOYMENT

1. **August 5, 2016 – Till date** – Assistant Professor at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune, Maharashtra.
2. **Oct 14, 2015- March 24, 2016** - Research Associate at Indian Institute of Science Education and Research (IISER), Pune, Maharashtra.
3. **June 15, 2010- Nov 30, 2012** - Asst. Prof. at the Graphic Era University, Dehradun, Uttarakhand.
4. **July 2009 - May 2010** - Lecturer at the Dehradun Institute of Technology (DIT) Dehradun, Uttarakhand.
5. **Dec 2004- June 2009** - Ph.D. Student at the Chemistry Department, University of Delhi, Delhi.

B. EDUCATION

- **PhD (2009):** Thesis title - *Synthesis and Characterization of Biologically Relevant Nitrogen and Oxygen Heterocycles.*
Supervisor: Dr. Diwan S. Rawat, Prof.
Department of Chemistry, University of Delhi, Delhi, India.
- **M.Sc. (2002):** Specialization in Organic Chemistry.
Department of Chemistry, Shri Guru Ram Rai Post Graduate College, Dehradun.
(H.N.B. Garhwal University, Srinagar Garhwal India)
[1st Div.62.5%]
- **B.Sc. (2000):** Chemistry, Botany and Zoology.
M.K.P. Post Graduate College, Dehradun.
(H.N.B. Garhwal University, Srinagar Garhwal, India)[1st Div . 67.61%].
- **Intermediate (1997):** Physics, Chemistry, Biology, English, and Hindi.
[1st Div 63.60%].
- **High School (1995):** Indian Council of Secondary Education Examination.
[1st Div., 70%].

C. COMPUTER SKILLS

1. Operating System – Windows 7, Windows 10
2. Software: Microsoft Word, Power Point.
3. Packages: ISIS, Chemdraw, Sci-Finder Scholar, ChemSketch, ChemDraw.

D. RESEARCH DETAILS

Publications:

1. Himanshu Atheaya, Shabana I. Khan, **Ritu Mamgain** and Diwan S. Rawat, Bioorg. Med. Chem. Lett. (2008), 18, 1446-1449. *Synthesis, thermal stability, antimalarial activity of symmetrically substituted tetraoxanes.*
2. Ram Singh, M. Sharma, **Ritu Mamgain** and Diwan S. Rawat, J. Braz. Chem. Soc. (2008), 19,357-379. *Ionic liquids: A versatile medium for Palladium-catalyzed reactions.*
3. **Ritu Mamgain**, Ram Singh, D. S. Rawat, J. Heterocycl. Chem. (2009) ,46, 69-73. *DBU-catalyzed three-component one pot synthesis of highly functionalized pyridines in aqueous ethanol.*
4. Nitin Kumar, Shabana I. Khan, Himanshu Atheaya, **Ritu Mamgain**, and Diwan S. Rawat, Eur. J. Med. Chem. (2011), 46 (7), 2816-27. *Synthesis and in vitro antimalarial activity of tetraoxane - amine /amide Conjugates.*
5. Vikrant Kumar, **Ritu Mamgain**, Neha Singh. Research Journal of Recent Sciences (2012), 1(4),pp. 18-23. *Synthesis of substituted imidazoles via a multi-component condensation catalyzed by p-toluene sulfonic acid, PTSA.*
6. Madhuri S Kulkarni, Ritu Mamgain, Ketaki Saravate and Revati R Nagarkar, The Pharma Innovation Journal 2018; 7(1): 153-155, *One pot Solvent free synthesis of 2, 4, 5-Trisubstituted Imidazoles using wet cyanuric chloride.*
7. **Ritu Mamgain**, Himanshu Atheaya, Shabana I. Khan, Sunny Manohar and Diwan S. Rawat, J. Indian Chem. Soc. (2014), 91, 1443-1450. *Synthesis of Novel 1,2,3-Triazole*

Incorporated Quinoline Derivatives via Click Chemistry and Evaluation of their Antimalarial Activity.

School/Conference/Workshop attended:

1. 2018, Jan 18 - 20 National Conference on "Chemical Sciences: An Interdisciplinary Approach" (CSIA 2018), Department of Chemistry, Modern College of Arts Science and Commerce, Ganeshkhind.
2. 2016, Dec 10: Workshop on Teaching Pedagogy in Medicinal Chemistry at Post Graduate Level, Department of Chemistry, Savitribai Phule Pune University, Pune, Maharashtra.
3. 2015, sept 25: National Workshop on Sensitization and Technological Empowerment of Women Teacher / Researcher / Scientist / for Their S & T Endeavors, The National Academy of Sciences, India -Pune Chapter.
4. 2011, June 4-5 National Seminar on Natural products Chemistry and Sustainable Development, Department of Chemistry and Environment, Graphic Era University, Dehradun, Uttarakhand.
5. 2007, Nov 26-27: National Seminar on Green Chemistry and Natural Products, Department of chemistry, University of Delhi, Delhi-110007.
6. 2007, Feb 4- 9th CRSI National Symposium Chemistry, Department of Chemistry, University of Delhi, Delhi -07, India.
7. 2007, Jan 13: National Symposium on Nanotechnology in Medicine Society of Young Scientist (SYS) & Department of Pathology, All India Institute of Medical Sciences, New Delhi, Delhi -29, India.

Professional Competence:

1. Familiar with techniques of Thin Layer Chromatography, Column Chromatography, Flash Chromatography.
2. Proficient with recrystallization and Prep-TLC technique to isolate highly pure product.
3. Interpretation of routine Spectroscopic Data such as NMR, FTIR, UV/VIS, HPLC, MASS etc.

