

# Dr. POONAM KUMARI

## Present Address

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**Present Profile :** Female, Indian, Married

**Date of Birth :** 10 June 1986

**Languages Known:** Hindi, English



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## OBJECTIVE:

To be placed in a reputed concern, where my skills and talent will be used to achieve the Organization's goals and which in turn will enhance my capabilities.

## ACADEMIC QUALIFICATION DETAILS:

**Ph.D : Organic Chemistry** (Degree Awarded 2018) , University of Delhi.

Title - “**Studies on exploration of synthetic strategies for development of fluoro and trifluoromethylated heterocycles and some marine natural compounds of biological interest**”.

**Research Supervisor-** Dr. Sunita Bhagat, Associate Professor, ARSD College, University of Delhi.

**M.Sc : Organic Chemistry** from M.D University, Rohtak **2010**, First Division.

**B.Sc : Program** from M.D University, Rohtak **2007**, First Division.

**Intermediate:** C.B.S.E **2004**, First Division.

**Matriculation :** H.B.S.E **2002**, First Division.

## AWARDS AND DISTINCTIONS

Qualified the CSIR-JRF-NET in June 2012 (Rank 72).

## RESEARCH EXPERIENCE:

- Worked as senior research fellow in ARSD College, Department of Chemistry, University of Delhi, from Nov.2014 to Oct.2017
- Worked as Junior research fellow from Oct.2012 to Oct.2014

### Outline of Work Experience:

- Literature search from chemical abstracts, journals and patents and also from computerized databases on internet, planning strategies for synthesizing target molecules.
- Optimization and standardization of the reaction and scale up the process.
- Synthesis of heterocyclic systems such as Benzodizapines, Isoxazole, Pyrazoles, Pyridines etc.
- Protection and Deprotection of amines, acids, hydroxyl functional groups.
- Basic Knowledge of the fundamentals and experimental applications of Spectroscopic Techniques MASS, <sup>1</sup>HNMR, <sup>13</sup>CNMR, <sup>19</sup>FNMR, IR
- Chromatographic Techniques: Thin layer Chromatography, Preparative TLC.

## COMPUTER SKILLS:

- Office Tools : Chem Sketch, Chem Draw, Chembiodraw, ISIS draw, Bielstein search, Sci finder search
- Operating Systems : Microsoft Windows

## AREAS OF INTEREST / SPECIALIZATION

Organic Chemistry, Green Chemistry

## SUBJECTS TAUGHT

Organic Chemistry: Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons, Functional Group Organic Chemistry, Molecules of Life, Green Chemistry, Cosmetic Chemistry, Forensic Chemistry, Basic IT Tool.

## ADMINISTRATIVE ASSIGNMENTS

1. Member of GARGI prize committee.
2. Member of NSS.

## TEACHING EXPERIENCE:

**Feb2021-Till Date** : Assistant Professor (Ad-hoc) in Gargi College, University of Delhi.  
**Aug2019-Apr2020** : Assistant Professor (Ad-hoc) in Gargi College, University of Delhi.  
**Jan2019-Apr2019** : Assistant Professor (guest) in Dyal singh College, University of Delhi.  
**Aug2019-Oct2019** : Assistant Professor (guest) in ANDC College, University of Delhi.  
**Jan2019-Apr2019** : Assistant Professor (guest) in ANDC College, University of Delhi.  
**July2018-Apr2019** : Assistant Professor (guest) in Kalindi College, University of Delhi.  
**Jan2018-Apr2018** : Assistant Professor (guest) in ANDC College, University of Delhi.  
**Aug2017-Dec2017** : Assistant Professor (Ad-hoc) in Gargi College, University of Delhi.

## POSTER PRESENTATION / SEMINAR / WORKSHOP / CONFERENCES

- **Attended, National Conference on Scientific Innovation for Human Wellbeing**, Department of Chemistry, University of Delhi, 17 march 2023
- **Participated, Two-Day International conference on “Revisiting Wellbeing: Perspectives, challenges, and the road ahead”**, Gargi College, University of Delhi, 1-2 feb 2023
- **Co-Convener in Three day “Inter-College Workshop for Laboratory Staff ”** organised by Department of Chemistry, Gargi College, on 13-15 July 2022.
- **Attended, Faculty Development Program cum Workshop, Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching TROP** ICSU, Sri Venkateswara College, University of Delhi, 13-14 Oct 2018
- **Poster Presentation, Poonam kumari, Amit Kumar, Sunita Bhagat\* “A Highly Efficient Approach for the Synthesis of Novel Trifluoroacetylated Enaminones using DBU as a Base”**, International Conference on Frontiers at the Chemistry-Allied Sciences Interface(FCASI-2017) held at Department of Chemistry, University of Rajasthan, Jaipur from 22-23 july 2017
- **Attended, workshop on scientific writing and communication (WSWC-I)** Atma Ram Sanatan Dharma College, University of Delhi, 20-21 Feb 2017
- **Participated and completed the software training and awareness program(STP-4)**, Atma Ram Santan Dharama College, University of Delhi, Dhaula kuan, New Delhi-21 held in 16-20 jan 2017
- **Oral Presentation, Poonam kumari, Nutan Sharma, Sunita Bhagat\* Microwave-Assisted Nickel-Catalyzed One-Pot Synthesis of 2,4,5-Trisubstituted Imidazoles**, UGC-Sponsored National Conference in Chemistry, Environment & Harmonious Development (NCC-2016)’ held at India International Centre, 40 Max Mueller Marg, New Delhi from 7 and 8 April 2016
- **Attended, Workshop on Green Chemistry**, Atma Ram Sanatan Dharma College, University of Delhi, 11 Feb 2016
- **Attended, Workshop on Computational Methods in Drug Discovery** Miranda House, University of Delhi, 16 and 17 April 2015
- **Poster Presentation, Poonam kumari, Nutan Sharma, Sunita Bhagat\* “Chemo- and regioselective synthesis of 3H-1,5-benzodiazepines from diversely substituted  $\alpha$ -oxo ketene dithioacetals using solid support”**, 5<sup>th</sup> Asia Oceania conference on Green and Sustainable chemistry(AOC-5 GSC)’ held at Indian Habitat Center, Lodhi Road, New Delhi from 15-17 jan 2015
- **Attended, 20<sup>th</sup> RSC India Roadshow – Analytical Workshops** held at IIT Delhi, 4 Nov 2014

- **Attended, 20<sup>th</sup> ISCB International Conference on Chemistry and Medicinal Plants in Translational Medicine for Healthcare, University of Delhi, 1-4<sup>th</sup> march, 2014**

## **RESEARCH PUBLICATION:**

- 1) A simple and highly efficient synthesis of novel fluorinated 4,6-disubstituted aminopyrimidines using  $\text{Cd}(\text{OAc})_2$ . Amit Kumar, **Poonam Kumari**, Sunita Bhagat\* *Synthetic communication* **2020**, 50, 3830-3835.
- 2) “A highly efficient approach for the synthesis of novel trifluoroacetylated enaminones using DBU as a base” **Poonam Kumari**, Nutan Sharma, Amit kumar, Subash Chandra Mohapatra, Sunita Bhagat\* *Synlett* **2017**, 28, 2008-2013.
- 3) “Ultrasound-Accelerated Amide Coupling Reactions Directed toward the Synthesis of 1-Acetyl-3-carboxamide- $\beta$ -carboline Derivatives of Biological Importance” Nutan Sharma, **Poonam Kumari**, Pankaj Sharma, Sunita Bhagat\* *Synopen* **2017**, 1, 8-10.
- 4) “Strategic Synthesis and *in-vitro* Antimicrobial Evaluation of Novel Difluoromethylated 1-(1,3-diphenyl-1*H*-pyrazol-4-yl)-3,3-difluoro-1,3-dihydro-indol-2-ones”. Tejpal Singh Chundawat, **Poonam Kumari**, Nutan Sharma, Sunita Bhagat\* *Med. Chem. Research*, **2016**, 25, 2335-2348.
- 5) “Microwave-Assisted Nickel-Catalyzed One-Pot Synthesis of 2,4,5-Trisubstituted Imidazoles” Tejpal Singh Chundawat, Nutan Sharma, **Poonam Kumari**, Sunita Bhagat, *Synlett* **2016**, 27, 404–408.
- 6) “Synthesis, Spectral and Thermo analytical Studies of Nickel (II) and Ruthenium (II) Complexes of Schiff Base Ligands for Hydrogenation of Benzene” Tejpal Singh Chundawat<sup>a,b</sup>, **Poonam Kumari**<sup>a</sup>, Subash Chandra Mohapatra<sup>a</sup>, Sunita Bhagat<sup>a\*</sup>, Sanjay Baweja<sup>b</sup>, Sachin U. Nandanwar<sup>b</sup>, Mousumi Chakraborty<sup>b\*\*</sup> *Current Catalysis* **2015**, 4, 43-56.

## **RESEARCH GUIDANCE**

Mentored Pathfinder Winner Project “Synthesis of bioplastics from starch: Incorporated with silver nanoparticles using cocoa powder and turmeric.” in the year 2022-2023.