




## Shivaji College Faculty Details Proforma

<b>Title</b>		<b>First Name</b>		<b>Last Name</b>		<b>Photograph</b>
	<b>Dr.</b>		<b>Priti</b>		<b>Kumari</b>	
<b>Designation</b>	<b>Assistant Professor</b>					
<b>Address</b>	S-9, Mangalam Villas apartment, Abhaykhand-3, Indirapuram, Ghaziabad					
<b>Office Phone No.</b>	NA					
<b>Residence</b>	9999303089					
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<b>Web-Page</b>						
<b>Educational Qualifications</b>						
<b>Degree</b>	<b>University/Institute</b>				<b>Year</b>	
<b>Ph.D.</b>	Shiv Nadar University, Gautam Budhha Nagar				2019	
<b>M.Phil./M.Tech.</b>						
<b>PG</b>	Jai Prakash University, Chapra				2009	
<b>UG</b>	Jai Prakash University, Chapra				2006	
<b>Any Other Qualification</b>						
<b>Career Profile</b>						

- Assistant Professor(Permanent)  
Department of Chemistry, Shivaji College, University of Delhi, Delhi-110027(from **12<sup>th</sup> Feb 2024 to till date**)
- Guest Assistant Professor, Department of Chemistry, University Of Delhi(**June 2023-feb 2024**)
- D S Kothari postdoctoral fellow(**2019-2022**), Department of Chemistry, University of Delhi

#### **Administrative Assignments**

#### **Areas of Interest/Specialisation**

- Multistep synthesis of complex Carbohydrate molecules and their spectral characterization.
- Drug discovery and Medicinal chemistry.
- Development of novel synthetic methodologies.
- Synthesis of carbohydrate derived heterocycles.
- Organic synthesis.

#### **Subjects Taught**

- ❖ **Theoretical Courses: BSC(Program)**
  1. Chemistry of Carboxylic acid & their derivatives, Amines and heterocycles
  2. Organometallic, Bioinorganic chemistry, polynuclear hydrocarbon and UV, IR spectroscopy
- ❖ **Practical Classes**
  1. Chemistry of Carboxylic acid & their derivatives, Amines and heterocycles, DSC-10 Practical
  2. Chemical bonding and element in biologic system, Chem-DSC-02 Practical
  3. Green method in chemistry(SEC courses) practical
  4. Science & Society(VAC) Practical

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

- Dr. DS Kothari Postdoctoral fellowship(2019-2022), Department of Chemistry, University of Delhi
- Wise Postdoctoral fellowship(**awarded Jan 2024**)

**Publications Profile (Research Papers/Books)****Research Papers published in peer reviewed journal****Citations:** 184, **h-index:** 7

1. **Priti Kumari**, Chintam Narayana, Shraddha Dubey, Ashish Gupta and Ram Sagar. Stereoselective synthesis of natural product inspired carbohydrate fused pyrano [3,2-c] quinolones as antiproliferative agents. *Org. Biomol. Chem.* 2018, **16**, 2049- 2059.
2. **Priti Kumari**, Sonal Gupta, Chintam Narayana, Shailja Singh, Ram Sagar. Stereoselective synthesis of carbohydrate fused pyrano [3,2-c] pyranones as Anticancer agents. *New J. Chemistry.*, 2018, **42**, 13985-13997.
3. **Priti Kumari**, Shraddha Dubey, Sneha V, Chintam Narayana, Ashish Gupta and Ram Sagar Synthesis of new triazole linked Carbohybrids with ROS-mediated toxicity in breast cancer. *New J. Chem.*, 2019, 43, 18590-18600.
4. **Priti Kumari**, Vishnu Mishra, Chintam Narayana, Ashish Khanna, Anindita chakrabarty and Ram Sagar. Design and efficient synthesis of pyrazoline and isoxazole bridged indoles C-glycoside hybrids as potential anticancer agents *Sci. Rep.* 2020, 10, 6660.
5. Sonal Gupta, Juveria Khan, **Priti Kumari**, Chintam Narayana, R. Ayana, Malabika Chakrabarti, Ram Sagar; Shailja Singh. Enhanced uptake, high selective and microtubule disrupting activity of carbohydrate fused pyrano-pyranones derived from natural coumarins attributes to its antimalarial potential. *Malar. J.*, 2019, 18, 346. (Equal contribution, Joint First author)
6. Chintam Narayana, **Priti kumari**, Ram Sagar, Regioselective synthesis of chirally enriched Tetrahydrocarbazolones and Tetrahydrocarbazoles. *Org.Lett.* 2018, **20**, 4240-4244.
7. Chintam Narayana, **Priti Kumari**, Daisuke Ide, Nasako Hoshino, Atshushi Kato, Ram Sagar Design and synthesis of N-Acetylglucosamine derived 5a-carbasugar analogous as glycosidase inhibitors *Tetrahedron* 2018, **74**, 1957-1964
8. Chintam Narayana, **Priti Kumari**, Ghanshyam Tiwari, Ram Sagar, Triazole Linked N-acetylglucosamine Based Gelators for Crude Oil Separation and Dye Removal *Langmuir*, 2019, 35, 16803-16812.
9. Chintam Narayana, Ashish Khanna, **Priti Kumari**, and Ram Sagar. Total Syntheses of Kirkamide and N-acetyl ent-Conduramine B-1 *Asian J. Org. Chem.* 2021, 10, 392 –399.

10. Sandeep Kumar, Ram Krishna Sahu, **Priti Kumari**, Jyotirmoy Maity, Binayak Kumar, Rajni Johar Chhatwal, Brajendra K. Singh and Ashok K. Prasad. Efficient and stereoselective synthesis of sugar fused pyrano[3,2-c]pyranones as anticancer agents **RSC Adv.**, 2023, 13, 24604- 12616.
11. Sumit Kumar, Aditi Arora, Sandeep Kumar, **Priti Kumari**, Sunil K. Singh, Brajendra K. Singh. Diastereoselective Synthesis of Carbohydrate Conjugates: Pyrano[3,2-c]quinolones. **Synthesis**, 2023, 55, A–J.
12. Priti Kumari, Rakhi yadav, Sunil Sharma, Yogesh Yadav, Ramesh Kumar, Ram Sagar. Important Synthetic developments in the synthesis of C-glycosides as Glycohybrids. **Trends in carbohydrate research**, 2023
13. Ghanshyam Tiwari, Vinay Kumar Mishra, **Priti Kumari**, Ashish Khanna, Sunil Sharma and Ram Sagar. Synthesis of triazole bridged N-glycosides of pyrazolo[1,5-a]pyrimidinones as anticancer agents and their in silico docking studies, **RSC Adv.**, 2024, 14, 1304.

#### **Book Chapter**

**Priti Kumari**, Chintam Narayana, Ghanshyam Tiwari, Ram Sagar (2020), Glycohybrid molecules in medicinal Chemistry: Present status and future prospective, **Elsevier**, 451- 477.

**Conference/Seminar/Faculty Development Programme/Workshop**

- Presented Poster in CARBO- xxiv International Carbohydrate conference on “**Emerging frontiers in carbohydrate chemistry and glycobiology**,” University of Lucknow, Lucknow 8-10<sup>th</sup> Dec 2019.
- Presented Poster in CARBO-XXXI International Conference on “**New Frontiers in Carbohydrate Chemistry and Biology**”, University of Delhi, Delhi, India, November 2016.
- Presented Poster entitled “**Microwave assisted synthesis of Natural product inspired Carbohydrate fused Pyranoquinolone molecules** in International conferences on Advancing Green Chemistry: Building A Sustainable Tomorrow held on 3-4 oct 2017 at Delhi University.
- Presented Poster in RSC workshop on **chemistry for tomorrow’s world** during 8<sup>th</sup> December 2015 Organized by Royal Society of Chemistry at Hotel Maiden New Delhi.
- Oral presentation in RSC workshop on **Recent Advances in Chemistry and Biology** on 15<sup>th</sup> Dec 2016 at Shiv Nadar University.
- Presented Poster in one day symposium entitled **Current Trends In Drug Discovery Research** In India at Shiv Nadar University during 11<sup>th</sup> April 2015.
- Presented Poster in Symposium on **Emerging Trends in Translational Research** in India at Shiv Nadar University during 9<sup>th</sup> April 2016.

#### **Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)**


#### **Awards and Distinctions**

- Worked as Junior Research fellow Aug 2013 to Sep 2014 at Delhi Technological University.
- Qualified CSIR JRF Dec 2012 with rank 49.
- Qualified CSIR JRF in June 2012 with rank 90.
- Received National Merit Scholarship in M.Sc.
- University first rank holder in M.Sc. with 71.7% marks.
- University first rank holder in B.Sc.(H) with distinction with 75.5% marks.

#### **Memberships**

#### **Other Academic Activities**

<b>Cultural/Extracurricular Activities</b>



Pooja Kumari

**Signature of Faculty Member**