




Faculty Details proforma

Title	Dr	First Name	Beena	Last Name	Negi	
Designation		Assistant Professor				
Address		Gargi College Sirifort Road New Delhi-110049				
Residence		210/D-1 Niti Khand-1 Indirapuram Ghaziabad UP-201014				
Mobile		9540141309				
Email		drbeenanegi5@gmail.com beenanegi@gargi.du.ac.in				
Web-Page		http://people.du.ac.in/~beena/ https://sites.google.com/view/beenanegi/home				
Educational Qualifications						
Degree	Institution				Year	
Ph.D	University of Delhi				2012	
M.Sc	Department of Chemistry, University of Delhi				2008	
B.Sc	Gargi College, University of Delhi				2005	
Career Profile						
Assistant Professor, Gargi College, Since 19-10-2015						
Administrative Assignments						
<ul style="list-style-type: none"> • Convener Chemical Society Gargi College (2023-24) • Member Secretary Editorial Team of the Brochure Committee in the 99th Annual Convocation (Feb 25, 2023) • Member of the Convocation Hall Preparation, Dias Management & Reception Committee (Feb 25, 2023) • Member of the Grievance redressal committee Examination, DU (2023) • Member, Centenary Brochure Committee, DU 2022 • Deputy Coordinator, Open Book Examination (OBE) Evaluation Committee, DU 2021-2022 • Editorial Board Member (DU Brochure - Highlights 2021 released on 98th Convocation (Feb 26, 2022) • Member, Committee of Courses for UG, Department of Chemistry, DU (2021-2023) • Member, Committee of Courses for PG, Department of Chemistry, DU (2021-2022) • Member, Coordinator, BSc Physical Science, Gargi College 01-04-221 to 31-07-21 						

- Member, India Today Ranking Survey Committee, Gargi College 2020-21
- Member, Admission Committee B.Sc. Physical Sciences, Gargi College 2021-22
- Member, Time Table Committee, Department of Chemistry, Gargi College 2020-21
- **Editorial Board Member** (DU Brochure - Highlights 2020 released on 97th Convocation (Feb 27, 2021))
- Member, Prospectus Committee, Gargi College 2020
- **Convener**, Chemical Society, Gargi College 2017-2018
- Member of NSS, Gargi College 2018-2023
- Member of B.Sc. Life science (Zenith) Gargi College, 2017-2021
- Member of Website Committee, Gargi College 2017-2019

Areas of Interest / Specialization

Synthetic Medicinal Chemistry, Green Chemistry

Subject/Papers Taught

BSc Prog: Basic Concepts of Organic Chemistry (UGCF NEP)
 GE14: Molecules of Life (UGCF NEP)
 GE6: Section: B Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy (LOCF)
 GE7: Molecules of Life (CBCS)
 GE1: Atomic structure, bonding, general organic chemistry and aliphatic hydrocarbons (CBCS)
 BSc Chem Hons DSE: Green Chemistry (CBCS)
 BSc Chem Hons: Organic chemistry V: Spectroscopy (CBCS)
 BSc Chem Hons: Basics and Hydrocarbons (CBCS)
 BSc Chem Hons: Oxygen Containing Functional Groups (CBCS)
 BSc Chem Hons: Pharmaceutical compound, natural products, polymers (FYUP)
 BSc Chem Hons: Carbonyl and Carboxylic acids (FYUP)
 BSc Chem Hons: Spectroscopy, dyes and polymers (FYUP)
 Foundation course: Science and Life (FYUP)

Research Guidance

Green Chemistry Projects to UG students

Research Projects (Major Grants/Research Collaboration)

UGC-BSR Research Start-UP Grant 2016 for an amount of Rs 10 Lakh titled **Design, SAR, docking studies and anticancer activity evaluation of novel benzothiazole linked hybrids.**

Publications

1. Ramya Vishwanath, **Beena Negi**. Conventional and green methods of synthesis of silver nanoparticles and their antimicrobial properties. **Curr. Res. Green Sust. Chem.** **2021**, 4, 100205. (Impact Score: 5.66)
2. Shristi Rawat, Diwan S Rawat, **Beena Negi**. Synthesis, in silico pharmacokinetic analysis and anticancer activity evaluation of benzothiazole-triazole hybrids. **Indian J. Chem.-Sec B (IJC-B)** **2021**, 60 (3), 409-417. (Impact factor: 0.456)
3. **Beena Negi**, Diwan S Rawat. Antituberculosis activity evaluation of thymol Schiff bases. **Chemistry & Biology Interface** **2018**, 8, 4, 244-254.

4. **Beena Negi**, Diwan S Rawat, Synthesis, Characterization and Antituberculosis Activity of Novel Thymol Triazole Hybrids, **Indian J. Hetro. Chem.** **2018**, 28, 113-124. (Impact factor: 0.12)
5. **Beena Negi**, Prija Poonan, Mohammad Fawad Ansari, Deepak Kumar, Sakshi Aggarwal, Ramandeep Singh, Amir Azam, Diwan S. Rawat. Synthesis, antiamoebic activity and docking studies of metronidazole triazole-styryl hybrids. **Eur. J. Med. Chem.** **2018**, 150, 633-641. (Impact factor: 7.08)
6. **Beena Negi**, Deepak Kumar and Diwan S. Rawat. Marine peptides as anticancer agents: A remedy to mankind by nature. **Current Protein & Peptide Science** **2017**, 18, 1-20. (Impact factor: 3.11)
7. **Beena Negi**, Deepak Kumar, Widuranga Kumbukgolla, Sampath Jayaweera, Prija Ponnann, Ramandeep Singh, Sakshi Agarwal, Diwan S. Rawat, Anti-methicillin resistant Staphylococcus aureus activity, synergism with oxacillin and molecular docking studies of metronidazole triazole Hybrids. **Eur. J. Med. Chem.** **2016**, 115, 426-437. (Impact factor: 7.08)
8. Deepak Kumar, **Beena Negi**, Diwan S. Rawat. The anti-tuberculosis agents under development and the challenges ahead. **Fut. Med. Chem.** **2015**, 7, 1981-2003. (Impact factor: 4.76)
9. Deepak Kumar, Garima Khare, **Beena Negi**, Saqib Kidwai, Anil K. Tyagi, Ramandeep Singh, DS Rawat. Novel isoniazid-amidoether derivatives: Synthesis, characterization and antimycobacterial activity evaluation. **Med. Chem. Commun.** **2015**, 6, 131-137. (Impact factor: 5.12)
10. Deepak Kumar, **Beena Negi**, Garima Khare, Anil K. Tyagi, Ramandeep Singh, Diwan S Rawat. Synthesis of novel 1,2,3-triazole derivatives of isoniazid and their in vitro antimycobacterial activity evaluation. **Eur. J. Med. Chem.** **2014**, 81, 301-313. (Impact factor: 7.08).
11. **Beena Negi**, K. Kranthi Raj, Shadab Miyan Siddiqui, Dittakavi Ramachandran, Amir Azam, and Diwan S. Rawat. In vitro antiamoebic activity evaluation and docking studies of metronidazole–triazole hybrids. **Chem. Med. Chem. Commun.** **2014**, 9, 2439–2444. (Impact factor: 5.12)
12. **Beena**, Deepak Kumar, Widuranga Kumbukgolla, Sampath Jayaweera, MaiAnn Bailey, Torey Alling, Juliane Ollinger, Tanya Parish, Diwan S Rawat. Antibacterial activity of adamantyl substituted cyclohexane diamine derivatives against methicillin resistant Staphylococcus aureus and Mycobacterium tuberculosis. **RSC Adv.** **2014**, 4, 11962–11966. (Impact factor: 4.03)
13. **Beena**, Deepak Kumar, Mai Ann Bailey, Tanya Parish, Diwan S Rawat. Synthesis and antituberculosis activity evaluation of cyclohexane-1,2-diamine derivatives. **Chem. Biol. Interface** **2014**, 4, 1-14.
14. **Beena**, Diwan S Rawat. Antituberculosis drug research: A critical overview. **Med. Res. Rev.** **2013**, 33, 693–764. (Impact factor: 12.38).
15. **Beena**, Deepak Kumar, Diwan S Rawat. Synthesis and antioxidant activity of thymol and carvacrol based Schiff bases. **Bioorg. Med. Chem. Lett.** **2013**, 23, 641–645. (Impact factor: 2.94).
16. **Beena**; Seema Joshi, Nitin Kumar, Saqib Kidwai, Ramandeep Singh, Diwan S Rawat. Synthesis and antitubercular activity evaluation of novel unsymmetrical cyclohexane-1,2-diamine derivatives. **Arch. Pharm. Chem. Life Sci.** **2012**, 345, 896–901. (Impact factor:

5.1).

17. **Beena**, Nitin Kumar, R K Rohilla, Nilanjan Roy, Diwan S Rawat. Synthesis and antibacterial activity evaluation of metronidazole-triazole conjugates. **Bioorg. Med. Chem. Lett.** **2009**, 19, 1396–1398. (Impact factor: 2.94).
18. Nitin Kumar, S I Khan, **Beena**, G Rajalakshmi, P Kumaradhas, Diwan S Rawat. Synthesis, antimalarial activity and cytotoxicity of substituted 3,6-diphenyl-[1,2,4,5]tetraoxanes. **Bioorg. Med. Chem.** **2009**, 17, 5632–5638. (Impact factor: 3.46).

Book/Book Chapter Published

Book:

Chemistry of Heterocyclic compounds by Rakesh Kumar Parashar and **Beena Negi**, Ane Books Pvt. Ltd. and CRC Press Taylor and Francis Group; (**2015**) ISBN: 978-146-6517-13-4.

Book Chapters:

1. Diverse Pharmacological Activities of 4-Aminoquinoline and Its Derivatives. Beena Negi, Deepak Kumar and Diwan S Rawat. Book titled Recent Advances in Pharmaceutical Innovation and Research. DOI : 10.1007/978-981-99-2302-1 (accepted Springer Natures) (**2023**)
2. **Beena Negi**. Chapter 6 titled “From ancient medical knowledge to the modern drug development in India.” Book titled *Indian and western knowledge traditions* at CPDHE, University of Delhi, Page 40-47 (**2016**), ISBN: 978-93-85144-82-0, By Shivalik Prakashan, Delhi.

e-Content Writer

e-PG Pathshala by NMEICT and UGC, **Modules** of Paper 5: Organic chemistry-2 (Reaction Mechanisms), Paper 12: Organic spectroscopy and Paper 14: Disconnection Approach.

<http://epgp.inflibnet.ac.in>

1. *CHE_P5_M1 Types of organic reactions*
2. *CHE_P5_M2 Overview of different types of organic reaction mechanisms*
3. *CHE_P5_M3 Thermodynamics and kinetic requirements of a reaction*
4. *CHE_P5_M4 Intermediates, transition states, potential energy diagrams and Hammond postulate*
5. *CHE_P5_M5 Methods of determining mechanism and isotope effects*
6. *CHE_P5_M6 Generation, structure, stability and reactivity of carbocations*
7. *CHE_P5_M7 Generation, structure, stability and reactivity of carbanions*
8. *CHE_P5_M8 Generation, structure, stability and reactivity of free radicals*
9. *CHE_P5_M9 Reactive intermediates: Carbenes and nitrenes*
10. *CHE_P5_M10 Linear free energy relationship, the hammett equation and substituent and reaction constants*
11. *CHE_P5_M31 Diazonium coupling, Vilsmeier reaction and Gattermann-Koch reaction*
12. *CHE_P5_M35 The Von Richter, Sommelet-Hauser and Smiles rearrangements*
13. *CHE_P12_M24 Mass spectrometry: Theory, instrumentation and modifications*
14. *CHE_P12_M25 Terms in mass spectrometry, nitrogen rule, rule of thirteen and isotopic abundance*

15. CHE_P12_M26 General fragmentation rules
16. CHE_P12_M27 Fragmentation of various classes of organic molecules
17. CHE_P12_M228 Alpha, beta, allylic, benzylic cleavage and McLafferty rearrangement
18. CHE_P12_M32 Combined problem on UV, IR, ¹H NMR, ¹³C NMR and Mass-Part IV
19. CHE_P12_M34 Combined problem on UV, IR, ¹H NMR, ¹³C NMR and Mass-Part VI
20. CHE_P14_M16 Total synthesis of complex organic compounds using disconnection approaches

Conference/Seminar/Webinar Organized

1. **Member** of Certificate and Abstract Committee for ‘International conference on Contributions of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter’ held on August 2 and 3, 2022, organized by Department of Chemistry, DU and Vijnana Bharti.
2. **Convener** of Webinar held via ZOOM on 21-5-2020 at 11:00 am to 11:45am on the topic OPEN EDUCATIONAL RESOURCES, Dr. Rohit Bhatia as Resource Person.
<https://www.youtube.com/watch?v=F6fZTr9BjYI&t=3257s>

Resource Person/Invited Talk

1. **Invited speaker** to deliver talk on the topic Samarth Portal and Open Book Examination (OBE): Concerns and Challenges, at SGND Khalsa College for IQAC’s mentoring the mentor programme held online organized by SGND Khalsa College on 20-11-21.
2. Participated as a **Resource Person** in the *Virtual Workshop on Collating Chemistry Resources for Teachers in Higher Education* organized by National Resource Centre for Education of this Institute during June 18-19, 2020 at NIEPA, New Delhi.
3. Resource person at **DU Pre Entrance Summer School 2018** held from 1-6-18 to 16-6-18.
4. **Invited Lecture** titled Multiple biological activities and docking studies of metronidazole triazole hybrids, 49th Annual conference of the society of nuclear medicine-India (SNMICON) 14th-17th Dec, 2017 at Manekshaw Centre, New Delhi.
5. Delivered **oral talk** titled as “Synthesis of cyclohexane diamine derivatives as antimicrobial agents” at the 7th Junior National Organic Symposium Trust (J-NOST) Conference for research scholars at IISER Mohali, India, on dated 15th-18th Dec, 2011.

Conference Organization/ Presentations

Poster Presentations

1. Presented a poster titled as “**Synthetic library of cyclohexane-diamine derivatives as potential antimicrobial agents**” in the 16th ISCBC-International Conference at Solapur, India on dated 21st-24th Jan, **2012**.
2. Presented a poster titled as “**Synthesis and biological activity of cyclohexane diamine derivatives against *Mycobacterium tuberculosis* and other Gram-positive and Gram-negative bacterial strains**” in the INDO-US NIAID Drug Discovery Forum: Exploring Opportunities for Research Collaboration Joint Conference-DBT, DHR, ICMR and NIAID/NIH, at Oberoi Hotel, New Delhi, India, on dated 20th-21st April, **2011**.

3. Presented a poster titled as “**Cyclohexane-1,2-diamine derivatives: Synthesis and antimicrobial activity evaluation**” in the 15th ISCB International Conference (Commemorating 2011 as the international year of chemistry) at Rajkot, Gujrat, India, on dated 4th-7th Feb, **2011**.
4. Presented a poster titled as “**Synthesis of benzyl-[3-(benzylamino-methyl)-cyclohexylmethyl]-amine derivatives and metronidazole–triazole conjugates and their antibacterial activity evaluation**” in the 4th Indo-Italian Seminar on Green Chemistry and Natural Products, at Department of Chemistry, University of Delhi, India, on dated 17th Nov, **2010**.
5. Presented a poster titled as “**Synthesis and antibacterial activity evaluation of metronidazole–triazole conjugates and benzyl[3-(benzylamino-methyl)-cyclohexylmethyl]-amine derivatives**” in the National Conference on Green and Sustainable Chemistry, at BITS-Pilani, India, on dated February 19th-21st, **2010**.
6. Presented a poster titled as “**Metronidazole-triazole conjugates as antibacterial and antiamebic agents**” in the 14th ISCB International Conference, Chemical Biology for Discovery: Perspective and Challenges, at CDRI-Lucknow, on dated 15th-18th January, **2010**.

Workshops/Symposiums Attended

1. Attended International conference on Contributions of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter’ held on August 2 and 3, 2022, organized by Department of Chemistry, DU and Vijnana Bharti.
2. Attended Saksham-IT champion training program conducted by Microsoft from 24-09-2015 to 30-09-2015.
3. Attended workshop/course on Digital Literacy for Teachers under **UKIERI (UK-INDIA Education and Research Initiative)** conducted by University of Delhi & Edinburgh College, UK, at Campus of Open Learning, from November 18 to 22, **2013** at Campus of Open Learning, Keshav Puram.
4. Attended 3rd Workshop on “**Bioinformatics and molecular modelling in drug design**” at Dr. BR Ambedkar center for biomedical research, Delhi University, New Delhi, on dated 24th-26th February, **2011**.
5. Attended a Workshop on “**Information literacy and competency**” organized by Central science library, University of Delhi, on dated 23rd February, **2010**.
6. Attended National Seminar on “**Green chemistry and natural products**” organized by Department of Chemistry, University of Delhi, Delhi-07, India, on dated 26th -27th December, **2009**.
7. Attended Conference cum workshop on “**Current trends in medicinal chemistry**” organized by IIT-Madras, on dated 2nd-4th April, **2009**.
8. Attended 13th ISCB International Conference on “**Interplay of chemical and biological sciences: impact on health and environment**” organized by Department of Chemistry, University of Delhi, Delhi-110007, on dated 26th February-1st March, **2009**.
9. Attended DU-NERI (AU) Workshop on “**Atmospheric science and climate change**” organized by Department of Chemistry, University of Delhi, 27th-28th February, **2009**.
10. Attended National Seminar on “**Open source drug discovery**” organized by Department of Chemistry, University of Delhi, Delhi -110007, on dated 26th February, **2009**.
11. Attended Indo-Italian Seminar on “**Green chemistry and natural products**” organized by Department of Chemistry, University of Delhi, Delhi-110007, India, on dated 5th -6th

December, 2008.

12. Attended National Seminar on “**Recent trends in chemistry**” organized by Department of Chemistry, Maitreyi College, New Delhi, on dated 22nd-24th September, 2004.

Awards and Distinctions

- Qualified **National Eligibility Test** held by Council of Scientific and Industrial Research, New Delhi, India (**CSIR-JRF/NET**)
- Received University Teaching Assistantship (**UTA**) from **2009 to 2012**
- Award of “**Jeans and Ashit Ganguly Education Scholarship**” University of Delhi **2007-2008**
- “**Certificate of Merit**” M. Sc. Chemistry, College topper, **Ramjas College**, University of Delhi **2008**
- “**Science Meritorious Award**” M. Sc. (Previous) by University of Delhi **2007**
- “**Certificate of Merit**” M. Sc. Chemistry, College topper, **Ramjas College**, University of Delhi **2007**
- “**Certificate of Merit**” 5th position in the University examination (South campus), B. Sc. Chemistry (Hons) 2nd year, **Gargi College**, University of Delhi **2004**.

Association With Professional Bodies

- Life Member of the Association of Chemistry Teachers (ACT)
- Life Member of The Indian Science Congress Association (ISCA)
- Life Member of Chemical Research Society of India (CRSI)
- Life Member of Indian Society of Chemist and Biologist (ISCB)

Orientation/Refresher Course Attended

1. One week (Online) Interdisciplinary **Faculty Development Programme** on “Research and Beyond” organised by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi from 9-10-21 to 14-10-21.
2. **Refresher course** from 1 Dec 2020 to 31 march 2021 ARPIT organized by GAD-TLC, Khalsa College, DU.
3. **FDP** on “Instrumental methods of analysis”, organized by GAD TLC and Bishop Moorre College, affiliated to Kerala University, from 07-10-20 to 13-10-20
4. **Refresher course** in Chemistry scheduled from **16-07-18 to 04-08-2018** at Kumaun University, Nainital (UGC-HRDC).
5. **Participated in faculty Development Program Entitled** "From Chemistry of Life to Chemistry of Diseases: Understanding Clinical Biochemistry (UCB-17) from 15 June to 22 June 2017 at Daulat Ram College, University of Delhi.
6. **Orientation course** OR-81 at CPDHE, University of Delhi

Web links

<http://people.du.ac.in/~beena/>

<https://orcid.org/0000-0003-1198-9478>

<https://vidwan.inflibnet.ac.in/profile/297349>

https://www.researchgate.net/profile/Beena_Negi2

<https://scholar.google.co.in/citations?user=6XxaxsgAAAAJ&hl=en>

<https://www.youtube.com/watch?v=6sGDo6UW89w&t=18s>

<https://sites.google.com/view/beenanegi/home>
<https://gargicollege.academia.edu/BeenaNegi>

Educational videos on the topic Green Chemistry You Tube Video Link

<https://youtu.be/6sGDo6UW89w>
https://youtu.be/bsq5rc5_xhg
<https://youtu.be/hUekON4fX88>
https://youtu.be/2R_4rIWGqCY
<https://youtu.be/SI0NIDD-uJQ>
<https://youtu.be/BdKjWcAfTcQ>
<https://youtu.be/7nAOSaK3mdc>
https://youtu.be/2R_4rIWGqCY
<https://www.youtube.com/watch?v=fcXCUihrDV8>