

## CURRICULUM VITAE

### Dr. Beena



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### Education Qualifications

(Ph.D. & CSIR/NET-JRF)

#### Ph. D. Awarded

Thesis entitled “**Synthesis and Biological Activity Evaluation of Cyclohexane-1,2-diamine, Metronidazole, Curcumin and Thymol Derivatives**” under the supervision of **Professor Diwan S. Rawat**, Department of Chemistry, University of Delhi, Delhi 110007.

Date of registration **03-11-2008**, Date of submission of thesis **08-06-2012**,

Viva Voce examination held on **20-11-2012**, Degree conferred at convocation held on **19-03-2013**.

Degree/Course	University/Board	Year	Subjects	Percentage
M. Sc. (Organic Chemistry)	<b>Ramjas College</b> University of Delhi	2008	Organic, Inorganic and Physical Chemistry	73.6% (810/1100) “ <b>Certificate of Merit</b> ”
B. Sc. (Chemistry Honours)	<b>Gargi College</b> University of Delhi	2005	Chemistry, Physics, Mathematics, English, Computer Science	72.07% (973/1350) “ <b>Certificate of Merit</b> ”
10+2	CBSE Board	2002	Physics, Chemistry, Mathematics, Biology, English	80.8% (404/500)
10 <sup>th</sup>	CBSE Board	2000	English, Hindi, Science, Mathematics, Social Science	79.2% (396/500)

### Teaching Experience

College/University	Nature of Duty	Duration
Gargi College, DU	Adhoc Assistant Professor	21-07-14 till date
IGNOU CHE(L) 08	Counsellor	11-5-15 to 27-5-15
Bhim Rao Ambedkar College	Adhoc Assistant Professor	24-07-13 to 20-7-14
Swami Shraddhanand College	Guest Faculty	08-08-12 to 16-11-12; 04-01-13 to 30-04-13
Kirori Mal College, DU	Guest Faculty	09-08-12 to 16-11-12; 15-01-13 to 30-04-13
Department of Chemistry, DU	University Teaching Assistant (UTA)	23 <sup>rd</sup> March 2009 to 13 <sup>th</sup> August 2012

### Scholarships and Awards

- Qualified **National Eligibility Test** held by Council of Scientific and Industrial Research, New Delhi, India (**CSIR-JRF/NET**) 23<sup>rd</sup> December **2007 (10-2(5)/2007(ii)EU II)**
- Received University Teaching Assistantship (UTA) Letter No. Sch./UTA/2008 from 23<sup>rd</sup> March **2009** to 13<sup>th</sup> Aug **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**” 5<sup>th</sup> position in the University examination (South campus), B. Sc. Chemistry (Hons) 2<sup>nd</sup> year, **Gargi College**, University of Delhi **2004**.

### Books Published

- **Chemistry of Heterocyclic compounds** by Rakesh Kumar Parashar and **Beena Negi**, Ane Books Pvt.

**List of Publications**

**(11 Publications)**

**(Total impact factor: 36.756)**

1. **Beena Negi**, K. Kranthi Raj, Shadab Miyan Siddiqui, Dittakavi Ramachandran, Amir Azam, and Diwan S. Rawat. In vitro antimicrobial activity evaluation and docking studies of metronidazole–triazole hybrids. *Chem. Med. Chem. Commun.* ISSN: 1860-7187; (2014) 9, 2439–2444. (IF 3.046).
2. **Beena**, Deepak Kumar, Widuranga Kumbukgolla, Sampath Jayaweera, Mai Ann 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.* ISSN: 2046-2069; (2014), 4, 11962–11966 (IF 3.90).
3. **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* ISSN: 2249–4820; (2014), 4, 1-14.
4. **Beena**, Diwan S. Rawat. Antituberculosis drug research: A critical overview. *Med. Res. Rev.* ISSN: 1098–1128; (2013), 33, 693–764 (IF 10.22).
5. **Beena**, Deepak Kumar, Diwan S. Rawat. Synthesis and antioxidant activity of thymol and carvacrol based Schiff bases. *Bioorg. Med. Chem. Lett.* ISSN: 0960–894X; (2013), 23, 641–645 (IF 2.53).
6. **Beena**, Seema Joshi, Nitin Kumar, Saqib Kidwai, Ramandeep Singh, and Diwan S. Rawat. Synthesis and antitubercular activity evaluation of novel unsymmetrical cyclohexane-1,2-diamine derivatives. *Arch. Pharm. Chem. Life Sci.* ISSN: 1521–4184; (2012), 345, 896–901 (IF 1.52).
7. **Beena**, Nitin Kumar, Rajesh K. Rohilla, N. Roy, Diwan S. Rawat. Synthesis and antibacterial activity evaluation of metronidazole-triazole conjugates. *Bioorg. Med. Chem. Lett.* ISSN: 0960–894X; (2009), 19, 1396–1398 (IF 2.53).
8. Deepak Kumar, **Beena Negi**, Diwan S. Rawat. The anti-tuberculosis agents under development and the challenges ahead. *Fut. Med. Chem.* (2015), <http://www.future-science.com/doi/pdf/10.4155/fmc.15.128> (IF 3.744).
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.* ISSN 2040-2503; (2015), 6, 131-137. (IF 2.626).
10. Deepak Kumar, **Beena**, 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.* ISSN: 0223–5234; (2014), 81, 301-313 (IF 3.49).
11. Nitin Kumar, Shabana 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.* ISSN: 0968–0896; (2009), 17, 5632–5638 (IF 3.15).

## Content Writer

- **e-PG Pathshala** by NMEICT and UGC, **Modules** of Paper 5: Organic chemistry-2 (Reaction Mechanisms) and Paper 12: Organic spectroscopy; <http://epgp.inflibnet.ac.in>

## Mentored Path finder project

- Titled “An investigation of the toxic chemicals present in toys and their effect on health of the children” (2014-2015), Gargi College, DU.

## Oral Presentation

1. Delivered a talk titled as “**Synthesis of cyclohexane diamine derivatives as antimicrobial agents**” at the 7<sup>th</sup> Junior National Organic Symposium Trust (J-NOST) Conference for research scholars at IISER Mohali, India, on dated 15<sup>th</sup>-18<sup>th</sup> Dec, **2011**.

## Poster Presentations

1. Presented a poster titled as “**Synthetic library of cyclohexane-diamine derivatives as potential antimicrobial agents**” in the 16<sup>th</sup> ISCBC-International Conference at Solapur, India on dated 21<sup>st</sup>-24<sup>th</sup> 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 20<sup>th</sup>-21<sup>st</sup> April, **2011**.
3. Presented a poster titled as “**Cyclohexane-1,2-diamine derivatives: Synthesis and antimicrobial activity evaluation**” in the 15<sup>th</sup> ISCB International Conference (Commemorating 2011 as the international year of chemistry) at Rajkot, Gujrat, India, on dated 4<sup>th</sup>-7<sup>th</sup> 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 4<sup>th</sup> Indo-Italian Seminar on Green Chemistry and Natural Products, at Department of Chemistry, University of Delhi, India, on dated 17<sup>th</sup> 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 19<sup>th</sup>-21<sup>st</sup>, **2010**.
6. Presented a poster titled as “**Metronidazole-triazole conjugates as antibacterial and antiamebic agents**” in the 14<sup>th</sup> ISCB International Conference, Chemical Biology for Discovery: Perspective and Challenges, at CDRI-Lucknow, on dated 15<sup>th</sup>-18<sup>th</sup> January, **2010**.

## Workshops/Symposiums Attended

1. Attended Saksham-IT champion training program conducted by Microsoft from 24-09-2015 to 30-09-2015.
2. 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.
3. Attended 3<sup>rd</sup> Workshop on “**Bioinformatics and molecular modelling in drug design**” at Dr. BR Ambedkar center for biomedical research, Delhi University, New Delhi, on dated 24<sup>th</sup>-26<sup>th</sup> February, **2011**.
4. Attended a Workshop on “**Information literacy and competency**” organized by Central science library, University of Delhi, on dated 23<sup>rd</sup> February, **2010**.
5. Attended National Seminar on “**Green chemistry and natural products**” organized by Department of Chemistry, University of Delhi, Delhi-07, India, on dated 26<sup>th</sup>-27<sup>th</sup> December, **2009**.
6. Attended Conference cum workshop on “**Current trends in medicinal chemistry**” organized by IIT-Madras, on dated 2<sup>nd</sup>-4<sup>th</sup> April, **2009**.
7. Attended 13<sup>th</sup> 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 26<sup>th</sup> February-1<sup>st</sup> March, **2009**.

8. Attended DU-NERI (AU) Workshop on “**Atmospheric science and climate change**” organized by Department of Chemistry, University of Delhi, 27<sup>th</sup>-28<sup>th</sup> February, **2009**.
9. Attended National Seminar on “**Open source drug discovery**” organized by Department of Chemistry, University of Delhi, Delhi -110007, on dated 26<sup>th</sup> February, **2009**.
10. Attended Indo-Italian Seminar on “**Green chemistry and natural products**” organized by Department of Chemistry, University of Delhi, Delhi-110007, India, on dated 5<sup>th</sup>-6<sup>th</sup> December, **2008**.
11. Attended National Seminar on “**Recent trends in chemistry**” organized by Department of Chemistry, Maitreyi College, New Delhi, on dated 22<sup>nd</sup>-24<sup>th</sup> September, **2004**.

### **Computer and Scientific Journal Literacy**

- Ubuntu, MS Word, Power Point, Microsoft Excel, Internet
- Chem Draw, Delta (NMR), Schrodinger
- Moodle, Sci-Finder, Scopus, Science direct, Literature search in different scientific journals (Elsevier, American Chemical Society, Wiley & Sons etc).

### **Professional Competence**

- Capable of taking theory and conducting practical classes of chemistry.
- Proficiency in handling instruments such as rotator evaporator, pH meter, polarimeter, UV, IR
- Proficiency in handling moisture and air sensitive reactions and separation of reaction mixture by column chromatography.
- Characterization of compounds by using analytical techniques *viz.* UV-Visible, FT-IR, NMR, Mass data.

**Place:** Delhi (NCR)

**Dr. Beena Negi**