

DEPARTMENT OF CHEMISTRY, UNIVERSITY OF RAJASTHAN, JAIPUR

1. **Name & Qualification** : **Dr. Neelima Gupta**; M.Sc., NET, Ph.D.

2. **Present Designation** : Associate Professor

2006 – Associate Professor, University of Rajasthan, Jaipur
2009 Visiting Scientist, Philipps University of Marburg, Germany
1996-2006 Assistant Professor, University of Rajasthan, Jaipur
1996-1996 Post-doctoral Fellow (DFG); Institute of Inorganic Chemistry,
EMA University of Greifswald, Germany
1994-1995 Research Associate, University of Rajasthan, Jaipur
1992-1994 Lecturer, College Education, Govt. of Rajasthan
1991-1992 SRF (CSIR), Univ. of Rajasthan, Jaipur
1989-1991 JRF (UGC), Univ. of Rajasthan, Jaipur
1985-1987 M.Sc., Kurukshetra University, Kurukshetra



3. **Correspondence Address** : Department of Chemistry,
University of Rajasthan, Jaipur-302004

Contact No : +91-141-2722340 (R)
+919351334666 (M)

Email id : guptaniilima@gmail.com

4. **Major Areas of Research** : Organic Synthesis, Phosphorus Heterocycles,
Computational Chemistry

No. of Research Publications: 62

No. of Ph.D. supervised: 9

No. of Conferences/Seminars/Symposiums/Workshops participated:

a. National: 35

b. International: 12

c. Invited Speaker: 6

5. Foreign Visits

April 1996-Nov.1996

• *Post-Doctoral Fellow* (DFG) Institute of Inorganic Chemistry, EMA University of Greifswald, *Germany*.

Sep. 2009-Oct. 2009

• *Visiting Scientist* (DST-DFG) Philipps University of Marburg, *Germany*.

German Chemical Association Seminar at the Institute of Biochemistry, EMA University of Greifswald, *Germany*

6. R & D Projects :

Synthetic and theoretical investigations of novel heterocyclic systems incorporating σ^2, λ^3 -phosphorus stabilized by aromatization/delocalization; Rs 17,00,000/- DST, New Delhi, Feb 2008- Jan 2011.

Negative (Anionic) Hyper conjugation in Phosphonium /Pyridinium Ylidyl Di/Monohalophosphines and Related compounds - Experimental and Theoretical Aspect. Rs. 6,80,000/- DST, New Delhi (FTP scheme for Young Scientists) Oct 2002-Feb 2006.

Catalytic Asymmetric Diels–Alder Reaction of Azaphospholes; (As Co-PI with Prof. R.K. Bansal) Rs. 19,54,400/- DST, New Delhi, Sep 2009- Aug 2012.

Experimental and Theoretical Investigation of 1,5-Electrocyclization of Cycloiminium 2-Phosphaallylides (As Co-PI, with Prof. R.K. Bansal) Rs. 7,13,200/- UGC, New Delhi, May 2009-April 2012.

Pericyclic and Pseudopericyclic Mechanism in 1,5-Electrocyclization of Cycloiminium Allylides and 2-Phosphaallylides : A Theoretical Investigation; (As Co-PI, with Prof. R.K. Bansal and Prof. G. Frenking, Germany) (Indian component Rs. 4,60,950/-) DST-DFG Indo-German cooperation, Aug 2008-July 2010.

Facile synthesis of biodynamic chiral organophosphorus heterocycles (As Co-PI with Dr. V. Kabra) Rs. 9,25,800/- UGC, New Delhi, April 2008-Mar 2011.

Diels-Alder Reactions of Azaphospholes : Synthetic and Theoretical Aspects; (As Co-PI with Prof. RK Bansal). Rs. 16,92,000/- DST, New Delhi, July 2003-Oct 2008.

New amidophosphates and Amidothiophosphates as Potential Pesticidal Agents: synthesis and Pesticidal Activity; (As Co-PI with Dr. V. Kabra) Rs. 4,00,000/- CSIR, New Delhi, Dec 1999-Dec 2002

7. Member of various Academic Professional Bodies/Societies:

Council member (2014-2017) Chemical Research Society of India (Bangalore)

Co-convener, CRSI - Rajasthan Chapter

Life Member, Chemical Research Society of India, Bangalore

Life Member, Indian Chemical Society, Kolkata

Life Member, Indian Science Congress Association, Kolkata

Life Member, Society for Materials Chemistry, Mumbai

Life Member, Association of Chemistry Teachers, Mumbai

Life Member, Indo German Society, Jaipur

8. Achievements/Awards/Honors:

Received Award and *Certificate of Appreciation* for Excellence in Research by the University of Rajasthan on Republic Day (2009).

Honored for Excellence in Research during "National Seminar on Botanical Products", University of Rajasthan, Jaipur (2005).

Fast Track Project for Young Scientists (FTPYS) awarded by Department of Science and Technology, Government of India, 2002.

Post-Doc Fellow (DFG) Institute of Inorganic Chemistry, EMA University of Greifswald, *Germany* (April 1996-Nov.1996).

Visiting Scientist - Philipps University of Marburg, *Germany* (Sep.-Oct. 2009).

Council Member (2014-2017), Chemical Research Society of India, Bangalore.

9. Authored Book Chapters/Books /Books Edited by you (details with Title, Publisher, Place, Year):

- A chapter in *Topics in Heterocyclic Chemistry*, Volume 21: *Phosphorus Heterocycles II*, Springer-Verlag, Germany (2010).
- Six chapters in Reference Series - *Science of Synthesis, Houben-Weyl Methods of Molecular Transformations*, Vol.13, Thieme:Stuttgart, Germany (2003).

10. Contribution in University Corporate services (Past & Present):

Subject Coordinator-Chemistry, CCT, UOR (2010-11-contd.); Member, University Students Grievance Committee (2010); University Committee for Ph.D. Students (2010); University Flying Squad Committee (2011-13); University Unfair Means Standing Committee (2013-15). *Rector*, Department of Chemistry, UOR (2011-13); *Proctor*, Department of Chemistry, UOR (2014-16). Program Officer, NSS (2007-10; Univ. Maharaja's College); *Co-coordinator*, Refresher Course in Chemistry (ASC & Dept. of Chemistry, 2011, 2014) and Refresher Course in Physical Sciences (ASC, 2013).

11. Any other information(s):

Resource Person (Organic Chemistry) in Satellite Communication Program (SATCOM), DST, Govt. of Rajasthan, Jaipur (2011-contd.).

Resource Person in Refresher Courses for Teachers and Workshops for Research Scholars on "Research Methodologies", "Scientific Writing" and "Targeted Organic Synthesis" in various Universities.