

## Dr. Tripti Kumari

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### PROFILE

I completed my Masters in Chemistry in the year 2009 and pursued my doctoral research at the Department of Chemistry, University of Delhi on 'In Silico Studies of Peptide Deformylase Inhibitors'. I have been teaching undergraduate students at Gargi College, University of Delhi as an Assistant Professor since 2013.

**AREA OF SPECIALIZATION:** Physical Chemistry, Computational Chemistry and Molecular Modeling

### ACADEMIC PROFILE

Qualification	Institution	Year	Percentage
Ph. D	Prof. Rita Kakkar, Department of Chemistry, University of Delhi	2014	-
M. Sc. Chemistry (Physical Specialization)	Department of Chemistry, University of Delhi	2009	80.27% University ranker
B. Sc.(H) Chemistry	Miranda House, University of Delhi	2007	80.81% IInd rank in college
AISSCE (CBSE)	Pitts Modern School, Gomia, Jharkhand	2004	84.30% aggregate
AISSE (CBSE)	Pitts Modern School, Gomia, Jharkhand	2002	89.70% aggregate

### PROFESSIONAL CAREER

- Working as Assistant Professor (Ad-hoc) in Chemistry Department, **Gargi College**, University of Delhi from 1<sup>st</sup> August' 2013 – till date.
- Worked as a **University Teaching Assistant (UTA)** in the Department of Chemistry, University of Delhi since April' 2011 – July' 2013.
- **Guest Faculty** in the Department of Chemistry, **Daulat Ram College** from January' 2013 - May' 2013.

### PUBLICATIONS

#### *Articles in refereed periodicals*

Upasana Issar, **Tripti Kumari** & Rita Kakkar (2015) Assessment of Molecular Binding of Hoechst 33258 Analogues into DNA Using Docking and MM/GBSA approach. *Journal of Computational Science*.

**Tripti Kumari**, Upasana Issar & Rita Kakkar (2014) Docking modes of BB-3497 into the PDF active site – a comparison of the pure MM and QM/MM based docking strategies. *Current Computer-Aided Drug Design*, Volume 10, Issue No. 4, Pages 315-326

**Tripti Kumari**, Richa Arora & Rita Kakkar (2013) Peptide deformylase inhibitors for addressing the issue of bacterial resistance. *Int. Rev. Biophys. Chem. (IRERIC)* Volume 4, Issue

**Tripti Kumari**, Upasana Issar & Rita Kakkar (2014) Docking modes of BB-3497 into the PDF active site – a comparison of the pure MM and QM/MM based docking strategies. *Current Computer-Aided Drug Design*, Volume 10, Issue No. 4, Pages 315-326

**Tripti Kumari**, Richa Arora & Rita Kakkar (2013) Peptide deformylase inhibitors for addressing the issue of bacterial resistance. *Int. Rev. Biophys. Chem. (IREBIC)* Volume 4, Issue No. 1, Pages 19-48.

#### **CONFERENCES/ WORKSHOP ATTENDED**

- **Participated as a Resource person in the workshop on Electronic Structure, Atomistic and Statistical Modeling in Chemistry, Materials and Life Sciences organized by Schrödinger Materials and Royal Society of Chemistry in the University of Delhi from 8<sup>th</sup> – 10<sup>th</sup> October' 2014.**
- **Attended Recent Advances in Computer Aided Drug Design** workshop organized by Schrödinger at IISc, Bangalore in September' 2013.
- **Resource-person in Molecular Modelling workshop** organized by Department of Chemistry, Ramjas College, University of Delhi in March' 2013.
- **Attended the five day workshop on GAUSSIAN 09: Theory and Practice** held in New Delhi between 17<sup>th</sup> December – 21<sup>st</sup> December' 2013.
- **Attended the Computer-Aided Drug Design** workshop organized by Schrödinger, Inc. at INMAS, Delhi in December' 2011.
- **Science and Life Orientation Programme** conducted by the University of Delhi, South Campus

#### **AWARDS /SCHOLARSHIPS/GRANTS/ACHIEVEMENTS**

- **Awarded IIIrd Prize in Poster Presentation Competition** in the Recent Advances in Computer Aided Drug Design Workshop organized by Schrödinger at **IISc, Bangalore** in September'2013.
- **Qualified CSIR-JRF** with All-India Rank 235 in June' 2009. Upgraded to **CSIR-SRF** in January' 2012.
- **“All India Post Graduate Scholarship, 2008-09”** by the University of Delhi.
- **“Jeans and Ashit Ganguly Fellowship”** by the Department of Chemistry, University of Delhi.
- **“Post-Graduate Science Meritorious Award”** for two consecutive years from 2007-09 by the University of Delhi.
- **University Ranker's Prize in M. Sc. Chemistry**
- **Undergraduate and Post-Graduate Book Grants** by the University of Delhi during B.Sc and M.Sc.
- **Neeta Bhattacharya Memorial Prize** in Miranda House.
- **2<sup>nd</sup> rank holder** in B. Sc. Chemistry during college

#### **ACADEMIC ACHIEVEMENTS AND CONTRIBUTIONS**

- **Mentored Pathfinder Project** at Gargi college, University of Delhi in the year 2014-2015 and the team won the “Best Pathfinder Award for the Science Stream”.
- Project Title:** Solvent Systems: Exploring their various facets from utility to benignity to procurability
- **In February' 2014, mentored students of Chem(H), Gargi College** for the National Technex competition held at IIT(BHU) and Gargi College won the 5<sup>th</sup> prize out of a total of 35 teams that participated.
  - **Advisor to the Chemical Society, Gargi College** for the year 2014-2015.
  - **Advisor of the editorial board of Amalgam – the chemistry department annual magazine** in the year 2014-2015.
  - **Member of the College Committee** involved in Antardhvani Preparations for two

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- Member of the College Committee involved in Antardhvani Preparations for two consecutive years 2014 and 2015.

### **OTHER ACHIEVEMENTS**

- Selected by the esteemed “**Bhabha Atomic Research Centre (BARC), Trombay**” for the post of “**Scientific Officer- Grade C**”.
- Worked as a **summer trainee** in the R&D department of ORICA, Indian Explosives Limited, Gomia, Jharkhand.

### **EXTRACIRRICULAR ACTIVITIES AND AWARDS**

- **Published two articles** – one prose and one poem - in Delhi University's Creative Writing e-journal DU-VIDHA in December' 2013.
- Awarded the **1<sup>st</sup> prize in Creative Writing Competition** organized by “Gandhi Bhawan” on Gandhiji's bhajan “Peer Parai Jaane Re”.
- Worked towards representing the Department of Chemistry, University of Delhi at “**Antardhvani'2013-Awards of Good Practice**”.
- Actively participated and won several inter and intra college paper presentations, debates, and extempore competitions.
- Active member of the college Quiz Society and the compeer of several quiz events.
- Member of the “Editorial Board” of the college and Department magazines.

### **PERSONAL DETAILS**

- *Father's name* : B. N. Mishra
- *Date of birth* : 20<sup>th</sup> December, 1985
- *Sex* : Female
- *Marital Status* : Single
- *Nationality* : Indian
- *Interests*: Reading and writing are my passion. It gives me immense pleasure to write articles, poems and to pen down my thoughts on paper.