




## Faculty Details: Dr. Poonam Sharma

<b>TITLE</b>	DR.	<b>FIRST NAME</b>	POONAM	<b>LAST NAME</b>	SHARMA	
<b>DESIGNATION</b>	<b>ASSOCIATE PROFESSOR</b>					
<b>ADDRESS</b>	DEPARTMENT OF ZOOLOGY GARGI COLLEGE SIRIFORT ROAD, DELHI 110049					
<b>PHONE NO OFFICE</b>	011-26494544					
<b>EMAIL</b>	<a href="mailto:poonam.sharma@gargi.du.ac.in">poonam.sharma@gargi.du.ac.in</a> <a href="mailto:poonamsharma.gargi@gmail.com">poonamsharma.gargi@gmail.com</a>					
<b>EDUCATIONAL QUALIFICATIONS</b>						
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
<b>B.Sc. Zoology (Hons)</b>	University of Delhi, Delhi, India				1999	
<b>M.Sc. Zoology Specialization (Cell &amp; Molecular Biology)</b>	University of Delhi, Delhi, India				2001	
<b>Ph.D.</b>	University of Delhi, Delhi, India				2007	
<b>BOYSCAST Fellow Ecological Engineering</b>	LIEBE-CNRS, Université Paul Verlaine, Metz, France				2010	
<b>Others</b>	CSIR-UGC NET				2001	
	ICMAR NET				2001	
	National Award for Advance Studies (Masters)				2000	
<b>CAREER PROFILE</b>						
<ol style="list-style-type: none"><li>1. July, 2019- continuing: <b>Associate Professor</b> at Department of Zoology, Gargi College, University of Delhi, India.</li><li>2. July, 2007- July, 2019: <b>Assistant Professor</b> at Department of Zoology, Gargi College, University of Delhi, India</li><li>3. July, 2010 - July 2011: <b>BOYSCAST FELLOW</b> at Laboratoire des Interactions Ecotoxicologie, Biodiversité, Ecosystemes (LIEBE), Université Paul Verlaine, CNRS UMR 7146, Metz, France.</li><li>4. May, 2004 - March 2007: <b>Senior Research Fellow</b> at Molecular Biology Laboratory, Department of Zoology, University of Delhi, Delhi, India.</li><li>5. March, 2006 - August, 2006: <b>Visiting fellow</b> at Swiss Federal Institute for Environmental Science and Technology (EAWAG), Dübendorf, Switzerland.</li><li>6. January 2002 - May 2004: <b>Junior Research Fellow</b> at Molecular Biology Laboratory, Department of Zoology, University of Delhi, Delhi, India.</li></ol>						
<b>ASSOCIATION WITH PROFESSIONAL BODIES</b>						
<ol style="list-style-type: none"><li>1. <b>Editor and Subject Expert</b> for Life Science under-graduate <b>Indira Gandhi National Open University (IGNOU)</b>.</li><li>2. <b>Textbooks and Laboratory Manuals Development Committee Member</b> in Biotechnology for Higher Secondary Stage, <b>NCERT</b>.</li><li>3. <b>Editor and Subject expert</b> for Textbook and Laboratory Manuals of Biotechnology for Higher Secondary Stage.</li></ol>						



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4. **E-content Writer** for post graduate and under-graduate student under **e-pathshala** Sponsored by **UGC, Government of India** for Zoology.
5. **E-content Writer and Language Editor** for under-graduate student under NME-ICT (Project Sponsored by **MHRD Government of India** for Zoology.
6. **Subject Expert** for developing Online Quizzes in Life Science” at Institute of Life Long Learning (ILLL), University of Delhi
7. **Editorial Board** member of *Journal of Advanced Research in Biology*.
8. **Editorial board:** Assistant Editor of *BioJournal*.
9. **Reviewer** for *Journal of Entomology and Nematology*.
10. **Reviewer** for Pearson Education Books.
11. Member of **American Society for Microbiology:** ID 57104945.

### ADMINISTRATIVE ASSIGNMENTS

1. **Invited Expert** for NCERT **Programme Advisory Committee (PAC)** “**Development of Learning Outcomes** at Higher Secondary Stage (Class XI and XII) for subject: **Biology**.”
2. **Invited Judge** for **International Symposium** on “*Breast Cancer Awareness -2020*” organized by NSS, **Miranda House** Unit in collaboration with Department of Zoology, Unnat Bhart Abhiyan, Miranda House; ACBR, University of Delhi.
3. **Invited Judge** for “**Mission Shakti - Government of Uttar Pradesh**” organized by Internal Complaint Committee (ICC), **University of Lucknow-2020**.
4. **University of Delhi Syllabus Committee 2019: Convenor and Member**
5. **Teacher In charge** (September 2018) Department of Zoology, Gargi College
6. **Coordinator** of Add-on course “*Biotechcellence: Insights and Innovations*” 2020, 2019, 2018, 2017.
7. **Departmental Coordinator of Star College** (Grant by DBT).
8. **Departmental Convenor** for Time Table and Workload (2018,2017).
9. **Pathfinder Committee** Member: Science
10. **Convenor and Member** of Syllabus Committee for Semester System Papers: Applied Biology and Biotechnology, Developmental biology, Genetics and Genomics and Bioinformatics of B.Sc Zoology (Hons). B.Sc. Life Science.
11. **Teacher In charge** (2014) Department of Zoology, Gargi College.
12. **Coordinator** of Add-on course “*Molecular and Computation Biology: A Practical Approach*”.
13. **Coordinator** for departmental admissions 2008, 2009, 2012, 2013, 2014.
14. College Computer Lab committee member.
15. College Prize committee member 2009.
16. **Editor**, Departmental magazine ‘Flight’ 2009, 2008.

### AREAS OF INTEREST / SPECIALIZATION

Biotechnology, Immunology, Molecular Biology, Computational Biology, Xenobiotics and Nanotoxicology.

### SUBJECTS TAUGHT

Biotechnology, Immunology, Bioinformatics, Functional Genomics, Environmental sciences, Physiology, and Evolution



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### WORKSHOP/CONFERENCES ORGANIZED

1. **Co-convenor** International e-conference “**NeuroEunoia 2020**” on 16<sup>th</sup>-17<sup>th</sup> October, 2020 organized by Gargi College.
2. **Advisory Committee Member** of one week Online Faculty Training Program on “**Pedagogical training for effective online teaching learning**” from 3<sup>rd</sup> to 10<sup>th</sup> August, 2020 organized by Deen Dayal Upadhyaya College (University of Delhi) and K.T.H.M. College, Nashik.
3. **Co-convenor** National Webinar series on “**Current global pandemic of COVID-19**” held on 1<sup>st</sup> -3<sup>rd</sup> May, 2020 organized by Gargi College, University of Delhi
4. **Convenor** intercollege workshop “**Biotechnology**” under DBT Star College Scheme in association of IQAC conducted from 23<sup>rd</sup>-24<sup>th</sup> December 2019.
5. **Convenor** “**Summer Immersion Program**” under Star College scheme funded by DBT (Ministry of science and Technology) held at Gargi College, 11<sup>th</sup> to 18<sup>th</sup> July 2018.
6. Organized a symposium on “**Wanderers of Nature: Exploring Wildlife**” held at Gargi College, University of Delhi, Delhi on 12<sup>th</sup> March, 2018.
7. **Convenor** a workshop on “**It’s in My Genes: A Molecular Biology Approach**” as held at Department of Zoology, Gargi College on March 14- 15, 2017.
8. Organized Workshop on “**Molecular Biology Equipment**”, Department of Zoology, Gargi College on 9<sup>th</sup> October 2014.
9. **Convenor** Interdisciplinary “**Summer School**” as Deputy Coordinator held at Gargi College on May 26<sup>th</sup>- 31<sup>st</sup> 2014.
10. Organized Workshop on “**Laboratory Training for Technical Staff**” of science departments of Gargi College on September 2013.
11. **Deputy Coordinator** Interdisciplinary Science Seminar as on “**New Frontiers in Biotechnology**” Under “Star College Scheme” Funded by DBT 2<sup>nd</sup> December 2009.
12. Organized Bioinformatics Workshop for Faculty Workshop on “**Introduction to Bioinformatics**” as BIF committee member held at Gargi College on September 15-16, 2009.
13. **Deputy Coordinator** Interdisciplinary “**Summer School**” as held at Gargi College on June 15-30, 2009.

### RESEARCH GUIDANCE

1. Supervised one student in project “**Determining Early onset of Alzheimer's disease: Disease Causing and Risk Factors**” for one-year **2020**.
2. Supervised two students in project “**Comparative analysis of infectious organisms to comprehend the mechanism of infection and classify potential antimicrobial drug targets**” for 2018.
3. Supervised two students in project “**Analysis of Reprogramming Factors in Cell Transformation**” for one-year **2016**.
4. Supervised two students in project “**Ebola Virus: To Ascertain Drug’s Aim and Hitting the Target**” for one-year **2015**.
5. Supervised three students in project “**Determining Parkinson's genes: Disease causing and risk factors**” for one-year **2014**.
6. Supervised four students in project “**Drugs & Genetics: Aspirin resistance: An emerging clinical predicament is associated with single nucleotide polymorphisms**” for one-year 2014.
7. Supervised three students in project “**BLAST into the Past to Identify T. Rex's Closest Living Relative**” for two months **2013**.
8. Supervised three students in project “**Computational Exploration of Protein Function**” for two



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months 2013.

- Supervised one student in project “**in silico analysis of gene expression profile in human breast cancer cells and study its applications**” for twelve months under Pathfinder Award 2009.
- Supervised two summer trainees in project “**Polyphasic Approach of Bacterial Classification**” April - June 2009 funded by University Grant Commission under Centre for Potential and Excellence Scheme.

### REFRESHER COURSE/ORIENTATION PROGRAMME/ FDP ATTENDED:

- Participated and Successfully Completed one-week **Faculty Development Programme** on “**Open-Source Tools for Research**” from 8<sup>th</sup> June- 14<sup>th</sup> June 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi
- Participated and successfully Completed Two-week **Faculty Development Programme** on “**Managing Online Classes and Co-Creating MOOCS**” from 18<sup>th</sup> May- 1<sup>st</sup> June 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi.
- Participated and successfully Completed **SWAYAM Annual Refresher Programme in teaching (ARPIT) Online Course** March 2019 for Career Advancement Scheme (CAS) promotion in “**Biotechnology**” offered by Mohanlal Sukhadia University, Udaipur, Rajasthan.
- Participated in **Faculty Development Programme** on “Research Methodology” held on 16<sup>th</sup>-22<sup>th</sup> December 2017 at Bhaskaracharya College of Applied Sciences, University of Delhi, Delhi, India.
- Participated in the four-week **Refresher Course** in “**1<sup>st</sup> Interdisciplinary course in Contemporary Studies**” from 8<sup>th</sup> February -4<sup>th</sup> March 2016 conducted at the Academic Staff College, Jawaharlal Nehru University, Delhi.
- Participated 1<sup>st</sup> **Refresher Course** in **Life Sciences & Biotechnology**, Jawaharlal Nehru University, New Delhi, July 20- August 14, 2015.
- Participated in **Orientation Programme** (OR 62): CPDHE, University of Delhi, Delhi March 02- March 30, 2010.

### PUBLICATIONS

#### A. RESEACH PUBLICATIONS:

- Sharma., P. 2021.** Characterization and bacterial toxicity of Titanium dioxide NPs. *International Journal of Scientific Research*. Volume 10, Issue 6, 2021, doi: 10.36106/ijsr.
- Pandey, P., **Sharma, P. 2021.** Analysis of Early Onset of Alzheimer’s Disease Genes: Disease Causing and Risk Factors. *European Journal of Biological Research*, 11, 251-259.
- N. Bisht, N. Chakraborty, I. Prasad and **Sharma. P 2016.** Analysis of Reprogramming Factors in Cell Transformation. *International Journal of Biotechnology and Biomedical Sciences*. Volume 2, Issue 2, pp. 156-159. (ISSN: 2454 -4582).
- S. Majumdar, S. Rustagi and **Sharma. P 2016.** *In Silico* Analysis of Gene Expression Profile in Human Breast Cancer Cells. *International Journal of Biotechnology and Biomedical Sciences*. Volume 2, Issue 1, pp. 9-13. (ISSN 2454-4582)
- S. Majumdar, S. Rustagi and **Sharma. P 2015.** Ebola Virus: To Ascertain Drug’s Aim and Hitting the Target. *International Journal of Basic and Applied Biology*. Volume 4, pp. 274-278. (ISSN: 2349 -5820).
- S. Majumdar, S. Rustagi, S. Mondal, V. Rijhwani, J. Kaur, **Sharma. P 2014.** Aspirin resistance:



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- An emerging clinical predicament is associated with single nucleotide polymorphisms. *International Journal of Basic and Applied Biology*. Volume 2, pp.63-68. (ISSN: 2349 -5820).
7. P. Sharma, P. S. Shyamli, R. Singh, J. Kaur, **Sharma, P** 2014. Determining Parkinson's genes Disease causing and risk factors. *International Journal of Basic and Applied Biology*. Volume 2, pp.91- (ISSN: 2349 -5820).
  8. Raina V., Rentsch D, Geiger T., **Sharma, P.**, Buser HR., Holliger C, Lal R, Kohler HP 2008. Metabolites in the Degradation of alpha- and gamma-Hexachlorocyclohexane (HCH): Pentachlorocyclohexenes Are Hydroxylated to Cyclohexenols and Cyclohexenediols by the Haloalkane Dehalogenase LinB from *Sphingobium indicum* B90A. *Journal of Agricultural Food Chemistry* 2008 Aug 13; 56(15):6594-603.
  9. Raina V., Hauser A, Buser HR, Rentsch D, **Sharma, P**, Lal R, Holliger C, Poiger JT, Müller MD, Kohler H.P 2007. Hydroxylated metabolites of beta- and delta-hexachlorocyclohexane: bacterial formation, stereochemical configuration, and occurrence in groundwater at a former production site. *Environmental Science Technology* 2007 Jun 15; 41(12):4292-8.
  10. Lal, R., Jit, S., Verma, M., Dadhwal., M., Singh, A., Prakash, O., **Sharma, P** and Khanna, M. 2006. Nanoorganisms: Smallest form of Life got smaller! (Research News). *Indian Journal of Microbiol.* 46: 413.
  11. **Sharma, P.**, Raina, V., Kumari, R., Malhotra, S., Dogra, C., Kumari, H., Kohler, H.P E., Buser, H.R., Holliger, C and Lal, R. 2006. Haloalkane Dehalogenase (LinB) is responsible for  $\beta$ - and  $\delta$ - HCH (Hexachlorocyclohexane) transformation in *Sphingobium indicum* B90A. *Applied Environmental Microbiology* 2006 Sep; 72(9):5720-7.
  12. Rup Lal, Mandeep Dadhwal, Ajaib Singh, Om Prakash, Shweta Malhotra, and **Poonam Sharma**. (2005). Hexachlorocyclohexane (HCH) residues in Indian environment: Problems and solution. *Proceedings of 8th International HCH and pesticide forum, 26-28 May 2005, Sofia, Bulgaria.*
  13. Lal, R., Dogra, C., Malhotra, S., **Sharma, P.** and Pal, R. 2006. Recent advances in Microbiological, Molecular Genetics and Evolutionary aspects of Hexachlorocyclohexane degradation in *Sphingomonads*. *Trends in Biotechnology*. Mar; 24(3):121-30.
  14. Dhingra, G., Kumari, RM., Bala, S., **Sharma, P.**, Lal, S., Cullum, J. and Lal, R. 2003. Development of cloning vectors and transformation system for *Amycolatopsis*. *Journal of Industrial Microbiology and Biotechnology*. 30:195-204, Springer Verlag Heidelberg, Germany.

### **B. CONFERENCE PROCEEDINGS:**

15. Shreya Majumdar, Sonakshi Rustagi, Sreshtha Mondal, Vani Rijhwani, Jasvinder Kaur, **Poonam Sharma**. Genetic polymorphism of platelet aggregation pathway genes is related to aspirin resistance. 2014. pp. 156-162 in *Proceedings of national conference on Striving & Thriving towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning* ISBN 978-81- 7273-958-4.
16. Perna Sharma, P. Sushree Shyamli, Richa Singh, **Poonam Sharma**, Jasvinder Kaur. Determining why some gene mutations cause Parkinson's disease and others do not. 2014. pp. 273-279 in *Proceedings of national conference on Striving & Thriving towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning* ISBN 978-81-7273-958-4.





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### **C. CHAPTERS:**

#### **e-Chapters (Institute for Life Long Learning, IGNOU and UGC e-pathashala, NCERT)**

- Cells of Immune System (2020)
- Histology of immune organs thymus, spleen and lymph node (2020)
- AIDS (2018)
- Immunity (2018)
- Receptor-mediated endocytosis (2017)
- Southern Blot Hybridization (2016)
- Cloning (2016)
- In-situ hybridization (2016)
- Gene Therapy. 2015
- Gene Therapy of Cystic Fibrosis and SCID. 2015
- Recombinant DNA in health: Recombinant insulin and human growth hormone (2014)
- Polymerase Chain Reaction (2014)

#### **Chapters Contributed for NCERT Textbooks of Biotechnology for Higher Secondary Stage**

- Recombinant Vaccines
- Therapeutic Drugs: Monoclonal Antibodies, Growth Hormone and Insulin
- DNA Fingerprinting
- Regenerative Medicines
- Transgenic Organisms
- Gene Therapy
- Enzyme-Linked Immunosorbent Assay
- Cellular Differentiation

#### **Exercises for NCERT Laboratory Manuals in Biotechnology for Higher Secondary Stage**

- Estimation of Salivary Amylase Activity
- Estimation of Urease Activity
- To Verify Beer-Lambert Law using Colorimeter
- To Separate DNA Fragments by Agarose Gel Electrophoresis
- Isolation of bacterial plasmid DNA,
- Isolation of genomic DNA (Cheek cell)
- Restriction digestion of Lambda DNA and its analysis by gel electrophoresis

#### **Book Chapters**

- “Integrative Behavioural and Ecotoxicological Effects of Nanoparticles”. Emerging Contaminants in the Environment: Challenges and Sustainable Practices (2021), Elsevier (Accepted).
- Dioxin: Environmental Fate and Health/Ecological Consequences” (2019) CRC Press, Florida, USA, ISBN 9781138047242.
- Diversity of *lin* genes in HCH degrading *Sphingobium* species 2005. I.K International Publishing House, New Delhi. ISBN 81-88237.



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### RESOURCE PERSON

1. **Resource Person** in the programme titled “Development of Laboratory Manual in Biotechnology for Class XII” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 23rd -27th March, 2021 in DESM, NCERT, New Delhi.
2. **Resource Person** in the programme titled “Workshop for the review of the textbook of Biotechnology for Class XII” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 17th -2st March, 2021 in DESM, NCERT, New Delhi.
3. **Resource Person** in the programme titled “Development of Textbook of Biotechnology for Class XII” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 3rd - 7th February, 2021 for in DESM, NCERT, New Delhi.
4. **Resource Person** in the programme titled ““Development of Laboratory Manual in Biotechnology for Class XI” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 1st - 5th March, 2020 for in DESM, NCERT, New Delhi.
5. **Resource Person** in the programme entitled “Development of Laboratory Manual in Biotechnology for Higher Secondary Stage” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 22<sup>nd</sup> July- 26<sup>th</sup> July, 2019.
6. **Resource Person** in the programme entitled “Development of Laboratory Manual in Biotechnology for Higher Secondary Stage” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 29<sup>th</sup> May- 2<sup>nd</sup> June, 2019.
7. **Resource Person** in the programme entitled “Development of Laboratory Manual in Biotechnology for Higher Secondary Stage” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 24<sup>th</sup> April- 28<sup>th</sup>, 2019.
8. **Resource Person** in the programme entitled “Development of Textbook in Biotechnology for Higher Secondary Stage” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 29<sup>th</sup> September- 2<sup>nd</sup> October, 2018.
9. **Resource Person** in the programme entitled “Development of Textbook in Biotechnology for Higher Secondary Stage” organized by Department of Education in Science and Mathematics, NCERT, New Delhi from 27<sup>th</sup>-31<sup>st</sup> August, 2018.
10. **Resource Person** in the “Summer Immersion Program 2018” under DBT Star College Scheme in association of IQAC conducted from 11<sup>th</sup> -18<sup>th</sup> July, 2018.
11. **Resource Person** intercollege workshop “**Biotechnique**” under DBT Star College Scheme in association of IQAC conducted from 23<sup>rd</sup>-24<sup>th</sup> December 2019.
12. **Resource Person** “**Summer Immersion Program**” under Star College scheme funded by DBT (Ministry of science and Technology) held at Gargi College, 11<sup>th</sup> to 18<sup>th</sup> July 2018.
13. **Resource Person** workshop on “**It’s in My Genes: A Molecular Biology Approach**” as held at Department of Zoology, Gargi College on March 14- 15, 2017.
14. **Resource Person:** Workshop on “**Molecular Biology Equipment**”, Department of Zoology, Gargi College on 9<sup>th</sup> October 2014.
15. **Resource Person:** Workshop on “**Laboratory Training for Technical Staff**” of science departments of Gargi College on September 2013.

### CONFERENCE ORGANIZATION/ PRESENTATIONS

1. Participated and presented paper in **International Conference on “Innovations in Biotechnology and Life Sciences”** hosted by the Department of Biotechnology, DTU from 18<sup>th</sup> -20<sup>th</sup>, December 2020.



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2. Participated and Successfully Completed ten days training program on “**Genomics and Metagenomics: Hands on Training Experience on Data Analysis**” conducted by Phixgen Pvt. Ltd from 1<sup>st</sup> -10<sup>th</sup> July, 2020.
3. Participated in **International Conference on “Web on COVID-19: Road-map to Future Environment”** held on 5<sup>th</sup>, June 2020 organized by the Department of Botany, St. John's College.
4. Participated in one week “**National Policy Workshop: Virtual on Countermeasures for Riverine and Marine Plastic Litter in India**” held on 12<sup>th</sup> -22<sup>nd</sup> May 2020 organized by National Productivity Council (NPC) New Delhi and sponsored by UNEP India.
5. Participated in two day “**Second JNU Workshop on Empowering Teaching through Online Mode (JNU-WETOM II)**” held on 9<sup>th</sup> -10<sup>th</sup> May, 2020 organized by Jawaharlal Nehru University, New Delhi.
6. Participated in Science Academics Lecture workshop on “*Ingenuity in Biological Sciences*” held at Gargi College, University of Delhi, Delhi on 11<sup>th</sup>-12<sup>th</sup> January, 2018.
7. Participated in NAAC sponsored National Seminar “*Mentoring the Teacher-Mentor: Capacity Building Programme*” held at Gargi College, University of Delhi, Delhi on 19<sup>th</sup>-20<sup>th</sup> January, 2018.
8. Participated in INSCR International Conference (IIC-2017) on “*Role of Microbe-Plant-Animal Interactions in Human Health*” held at University of Delhi, Delhi on 26<sup>th</sup>-28<sup>th</sup> September, 2017. Participated in workshop on “*h-index*” held at Gargi College, University of Delhi, Delhi on March 09, 2017.
9. Participated in national conference on “*Combating industrial pollution for sustainable environment- A fusion of industrial and scientific efforts*” held at Gargi College, University of Delhi, Delhi on September 22-23, 2016.
10. Attended the Symposium in “**Mathematical & Computational Biology**” held during March 10, 2015 organized by NNMCB at Sri Venkateswara College, University of Delhi.
11. Participated and presented poster at JNU conference on Indo-US conference and workshop on “**Synthetic and Systems Biology**” on November 9-12 2014, JNU convention center, New Delhi.
12. Poster presentation at one day Symposium on “**Recent Trends in Biology**” on 25<sup>th</sup> February, 2015 held at Maitreyi College.
13. Participated and Won Best Poster at national conference “**Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning**” on 16<sup>th</sup> – 17<sup>th</sup> October 2014 organized by Embedded Systems and Robotics Centre and Department of Electronics, Maharaja Agrasen College, University of Delhi, New Delhi.
14. Participated in American Society of Microbiology (ASM) Workshop on “**Culture of Responsibility**” held during September 2, 2013 at Maitreyi College, Delhi University, Delhi, India.
15. Participated in one day workshop on “**Non coding RNA**” held during November 7, 2009 at School of Life Sciences, Jawaharlal Nehru University, Delhi.
16. Participated in **3rd Virtual Training Workshop on Bioinformatics**, organized by Asian Bioinformatics Research and Education Network (ABREN), sponsored by Kyushu Institute of Technology (KIT), Fukuoka, Japan and Advanced Technology Institute (ATI), Saitama, Japan, from March 25-April, 2009.
17. Participated in the workshop entitled “**Development of Online Quizzes in Life Science**” as Subject Expert, organized by Institute of Life Long Learning (ILLL), University of Delhi, on 13<sup>th</sup> April 2009.
18. Participated in **National Symposium on Biotechnology in the Post-Genomic Era** held during





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- April. 9-10, 2009 at Sri Venkateswara College, Delhi University, Delhi, India.
19. Participated in **49th Annual Conference of AMI** held during Nov. 18-20, 2008 at Delhi University, Delhi, India.
  20. Participated in **46th Annual Conference of AMI “Micro-Biotech 2005”** held during Dec. 8-10, 2005, at Hyderabad, India.
  21. Participated in the International Conference, **“Bioconvergence 2004”** held during 18-20 November 2004 at TIET, Patiala, India.
  22. Participated in the International symposium on **“Biological Approaches for Detection and Removal of Pesticides”** under the Indo-Swiss Collaboration in Biotechnology at Agharkar Research Institute, 8-9 March 2004, Pune, India.
  23. Mini Symposium on **“Utilization of Microbes for the Development of Bioremediation Technologies”** organized and held from 7-8 October, 2002, in Department of Zoology, University of Delhi and sponsored by SDC, Switzerland and DBT, India.
  24. Attended and participated in Quiz and MCQ competition at Sri Aurobindo College (Zoology Society), D.U (Inter-College Competition 1999). POSTER/ ORAL PRESENTATIONS
  25. Chandana Mukherjee, Malini Rajendra, Poonam Sharma and S. Bhanumati paper **“Empowering Student Education in Chemistry with Novel Ideas and Tools”** presented at the 13th Annual Green Chemistry and Engineering Conference held at Washington, DC 20036, USA from 23- 25 June 2009 Oral presentation.
  26. Poster presentation 2006 “Genes Responsible for Degradation of  $\beta$ - and  $\delta$ -Hexachlorocyclohexane (HCH) in *Sphingobium indicum* B90A”. Vishakha Raina, Poonam Sharma, Christoph Werlen, Hans-Rudolf Buser, Christof Holliger and Hans-Peter E. Kohler at Leipzig Conference, Germany.
  27. Participated in 46th Annual Conference of AMI **“Micro-Biotech 2005”** held during December 8th- 10th 2005, Hyderabad, India and made a Poster presentation.
  28. Participated in the International Conference, **“Bioconvergence 2004”** held during 18-20 November 2004 and made a Poster presentation.
  29. Participated in the International symposium on **“Biological Approaches for Detection and Removal of Pesticides”** under the Indo-Swiss Collaboration in Biotechnology at Agharkar Research Institute, March 8-9, Pune, India and made an Oral presentation.

### RESEARCH PROJECTS (MAJOR GRANTS/RESEARCH COLLABORATION)

*“Toxicological effects of residues from the degradation of commercialized TiO<sub>2</sub>-based nanomaterials on bacteria”* Funded by **Department of Science & Technology (DST), Government of India, Ministry of Science & Technology.** (17 Lakh).

### AWARDS AND DISTINCTIONS

1. Awarded **“SCIENCE AMBASSADOR-2017”** at 1<sup>st</sup> Science Ambassador Program organized by Bio-Rab Laboratories in association with Deshbandhu College on 6 th November, 2017 and held at St. Thomas Girls Sr. Sec. School, Delhi.
2. **BOYSCAST FELLOWSHIP** 2009-2010 by Department of Science & Technology (DST), Ministry of Science and Technology, Government of India for conducting advanced research in the area of Ecological Engineering for duration of twelve months at LIEBE-CNRS, Metz, France.
3. Best poster award given by **American Society of Microbiology** on a paper entitled **“Localization of *lin* genes and IS6100 on plasmids in HCH-degrading *Sphingobium indicum* B90A,**



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*Sphingobium japonicum* UT26, *Sphingobium francense* Sp+ and transposition of IS6100 in *Sphingobium chlorophenicum* DSM 7098” at the 46th Annual Conference of AMI “Micro-Biotech 2005” held during December 8 – 10, 2005, at Hyderabad, India.

4. Received Council of Scientific and Industrial Research- **Senior Research Fellowship** (CSIR-SRF) in Life Sciences (2004) {<http://csirhrdg.nic.in/jrfsrfra2.htm>}.
5. Awarded Council of Scientific and Industrial Research-**Junior Research Fellowship** (CSIR-JRF) in Life Sciences (2002) {<http://csirhrdg.nic.in/jrfsrfra2.htm>}.
6. Qualified Council of Scientific and Industrial Research-University Grants Commission (CSIR-UGC) **National Eligibility for Lectureship Test (NET)**, June 2001 {<http://csirhrdg.nic.in/jrfsrfra2.htm>}.
7. Selected among **top 20% Junior Research Fellows** in 2001-2002 {<http://csirhrdg.nic.in/spm.htm>}
8. Qualified **ICMR - JRF** Year 2001 {<http://icmr.nic.in/jrf.htm>}
9. Awarded **National Award for Advance Studies** 2000 during Master of Science.
10. Topped the college during Bachelor of Science Zoology (Hons.) in year 1999.

### OTHER ACTIVITIES

#### OVERSEAS WORK EXPERIENCE:

1. **BOYSCAST Fellow** for twelve months (June 2010- June 2011) at Laboratoire Ecotoxicologie Universite Paul Verlaine, Rue du General Delestraint 57070 Metz, France for conducting advanced research in the field of Ecological Engineering Science LIEBE, Université Paul Verlaine-Metz, France.
2. Worked as a **Visiting fellow** for six months in the Dr. H.P. Kohler’s laboratory (2 March, 2006- 30 August, 2006) at Swiss Federal Institute for Environmental Science and Technology (EAWAG), Dubendorf, Switzerland in the project entitled “Bioremediation of pesticide-contaminating soils and its effect on soil functionality” under the “Indo-Swiss Collaboration in Biotechnology” (ISCB). During this training, I got an opportunity to familiarize with many biochemical techniques like NMR, GC-MS which further substantiated into good publications.