


Title	Dr.	First Name	Swagata	Last Name	Karmakar	Photograph
Designation		Assistant Professor				
Address		Department of Environmental Studies Ram Lal Anand College, Benito Juarez Marg, South Campus, South Moti Bagh, New Delhi 110021				
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		Residence				
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Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi			2018	
Career Profile						
Assistant Professor (Adhoc), (2018 – onwards), Ram Lal Anand College, University of Delhi						
Assistant Professor (Guest), (2017), Miranda House, University of Delhi						
Assistant Professor (Guest), (2017), Keshav Mahavidyalaya, University of Delhi						
Administrative Assignments						
Served as a member of Eco Club of Ram Lal Anand College, University of Delhi (2018-onwards)						
Served as a member of Women’s Welfare advisory Committee of Ram Lal Anand College, University of Delhi (2018-onwards)						
Served as a member of Function Committee of Ram Lal Anand College, University of Delhi (2018-onwards)						
Areas of Interest / Specialization						
Soil Microbial Ecology; Virus-bacterial interactions, Bio-/Phyto-Remediation; Plant-Microbe Associations; Bioresources and their Utilization						
Subjects Taught						
Environmental Studies						
Research Guidance						
Publications Profile						
<u>Year of</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author</u>			
<u>Publication</u>						
2018	Ecotoxic potential of a presumably non-toxic azo dye.	Ecotoxicol Environ Saf. 148:528-537.  ISSN: 0147-6513	Rawat D, Sharma RS, Karmakar S, Arora LS, Mishra V			
2018	Purification and characterization of a lectin isoform of ribosome	Phytomorphology, 67	Mishra R, Yadav A, Sharma S, Singh S, Sharma RS,			

	inactivating protein from <i>Viscum articulatum</i> parasitic on <i>Grewia tilifolia</i> .	(3 &4): 91-100. ISSN: 0031-9449	Malhotra S, <b>Karmakar S</b> , Sardesai MM, Mishra V
2017	Prevalence of autoplague phenomenon in bacterial communities from spatially heterogeneous environment of an abandoned mine.	Int J Curr Microbiol App Sci 6(9): 1-15. ISSN: 2319-7706	<b>Karmakar S</b> , Mishra V and Sharma RS
2017	Environmental predictors of indole acetic acid producing rhizobacteria at fly ash dumps: nature-based solution for sustainable restoration.	Front Environ Sci 5: 1-12. ISSN: 2296-665X	Malhotra S, Mishra V, <b>Karmakar S</b> and Sharma RS
2016	Isolation and identification of <i>Bacillus megaterium</i> YB3 from an effluent contaminated site efficiently degrades pyrene	Journal of Basic Microbiology 56: 369–378. ISSN: 1521-4028	Meena SS, Sharma RS, Gupta P, <b>Karmakar S</b> , Aggarwal KK
2016	Environmental toxicants and reproductive health-an environmental perspective.	ISSRF 18:78-81. ISSN 2395-2806	Sharma RS, <b>Karmakar S</b> and Mishra V
2016	Environmental applications of ssDNA bacterial viruses.	VirusDis 27(4):428–429. ISSN: 2347-3517	<b>Karmakar S</b> , Mishra V and Sharma RS
2016	Pattern of distribution of bacterial host and its phages in soil environment.	Expert Opin Environ Biol 5(3):78. ISSN: 2325-9655	<b>Karmakar S</b> , Mishra V and Sharma RS
2016-2017	Submitted 8 new bacterial strains.	NCBI of GenBank accession Nos. KT899483, KT899484, KT899485, KT984006, KT984007, KT984008, KY621547 and KY780498.	

#### Conference Organization/ Presentations (in the last three years)

##### Conference Presentations

##### A. International

- **Karmakar S**, Mishra V, Sharma RS (2016) "Pattern of distribution of bacterial host and its phages in soil environment". Oral presentation (under Young Research Form). 5<sup>th</sup> **Global Congress on Environmental Microbiology**, 28<sup>th</sup>-30<sup>th</sup> November, Atlanta, **USA**.
- Meena SS, **Karmakar S**, Sharma RS, Aggarwal, KK (2015) "*Acinetobacter calcoaceticus* ID1 purified from waste dumping site effectively degrades pyrene into non-toxic metabolites". Poster. ISPAAC 2015. 25<sup>th</sup> edition of the

**International Symposium on Polycyclic Aromatic Compounds.** 13<sup>th</sup>-17<sup>th</sup> September, P067, Bordeaux, **France**.

- Sharma RS, **Karmakar S**, Bidhuri R, Malhotra S, Singh R, Mishra V (2015) "Prevalence of Polyphosphate Accumulating Bacteria in Degraded Ecosystems". Poster Presentation. **56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on "Emerging Discoveries in Microbiology**. 7<sup>th</sup>-10<sup>th</sup> December, JNU, New Delhi, page no. EMP123.
- Sharma S, Mishra V, Ethayathullah AS, **Karmakar S**, Sharma RS (2015) **International Symposium on Current Advances in Radiobiology, Stem Cells and Cancer Research** held in Jawaharlal Nehru University (JNU), Delhi, on 19<sup>th</sup>-21<sup>st</sup> February, page no. 60. (Poster Presentation)
- Mishra V, Malhotra S, Juneja A, **Karmakar S**, Sharma RS (2015) "Variation in Nitrogen Fixing Bacteria in Different Plant Species at Different Stages of Vegetation Development". **56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on "Emerging Discoveries in Microbiology**. December 7<sup>th</sup>-10<sup>th</sup>, JNU, New Delhi, page no. AMP97. (Poster Presentation)
- **Karmakar S** (2012) **International Symposium "Green Chemistry and Sustainable Development"**, DS Kothari Centre for Research and Innovation in Science Education in collaboration with Vigyan Pasar, Miranda House, University of Delhi on 30<sup>th</sup>-31<sup>th</sup> March.
- **Karmakar S** (2011) **International Conference on "Human Rights in 21<sup>st</sup> Century: Changing Dimensions"**, Faculty of Law, University of Delhi on 25<sup>th</sup>-26<sup>th</sup> February.

#### **B. National**

- **Karmakar S**, Mishra V and Sharma RS (2013) "**National Symposium on Changing Environment & Life style: Impact on Reproductive Health**" held on 19<sup>th</sup>-20<sup>th</sup> November, AllMS, New Delhi. 3<sup>rd</sup> prize in Poster presentation
- **Karmakar S** (2012) "**Observance of International Literacy Day**", Faculty of Social Science, University of Delhi on 8<sup>th</sup> September..
- **Karmakar S** (2011) **National Seminar on "Role of Analytical Techniques in Biology & Environmental Sciences"**, Conference Centre and Kirori Mal College, University of Delhi on 27<sup>th</sup>-29<sup>th</sup> January.
- **Karmakar S** (2010) Participation in Slogan writing competition, Pad-Yatra and Panel Discussion in Department of Adult, Continuing Education and Extension at Arts Faculty, North Campus, Delhi University on 1<sup>st</sup> December.

#### Workshops and Training

- **CPD Certificate of Attendance & Learning Tool** in "2<sup>nd</sup> International Conference & Expo on Green Energy, Recycling and Environmental Microbiology", The CPD Standard Office, CPD Provider: 600373, Atlanta, **USA**, on 28<sup>th</sup>-30<sup>th</sup> November 2016.
- "**8th International Geminivirus Symposium and 6th International ssDNA Comparative Virology Workshop**" held in JNU, New Delhi, India on 7<sup>th</sup>-10<sup>th</sup> November 2016. (Poster Presentation)
- "**XXXI National Training Program in Electron Microscopy For Scientific Investigators**" at Department of Anatomy (Electron Microscope Facility), All India Institute of Medical Sciences, New Delhi on 16<sup>th</sup>-28<sup>th</sup> November 2015.
- "**Workshop on Information Literacy & Competency**", Delhi University Library System, University of Delhi on 4<sup>th</sup> December, 2014.
- One-day workshop on "**IPR, Patenting and Patentability Assessment**", at Cluster Innovation Centre, University of Delhi, on 4<sup>th</sup> September 2014.
- Certificate Training Course on "**SPSS – (Statistical Package for Social Sciences)**" at Delhi University Computer Centre, University of Delhi, on 30<sup>th</sup> July-3<sup>rd</sup> August 2012.
- "**National Workshop on Microbial Diversity: Exploration & Perspectives**" held in Department of Environmental Science, MDU, Rohtak in collaboration with Ranbaxy & Association of Microbiologists of India on 3<sup>rd</sup>- 12<sup>th</sup> May 2012.
- "**4th Workshop on Bioinformatics and Molecular Modelling in Drug Design**" held in Dr. B.R. Ambedkar Center for Biomedical Research (ACBR), University of Delhi, Delhi on 18<sup>th</sup>-20<sup>th</sup> January 2012.
- "**International Workshop on Human Rights**" sponsored by UGC at Faculty of Social Science, Delhi University, Delhi, India on 22<sup>th</sup>-24<sup>th</sup> December, 2011.
- Certificate Training Course on "**Introduction to Mathematica**" at Delhi University Computer Centre, University of

<p>Delhi, on 28<sup>th</sup> November-2<sup>nd</sup> December 2011.</p> <ul style="list-style-type: none"> <li>• <b>“Twelve Days Research Methodology Workshop”</b> in collaboration with Indian Council for Social Science Research, MHRD, Govt. India Delhi University, Delhi, India at Faculty of Social Science, University of Delhi, Delhi on 21<sup>st</sup> January-2<sup>nd</sup> February, 2011.</li> </ul>
<b>Research Projects (Major Grants/Research Collaboration)</b>
<b>Awards and Distinctions</b>
<p><b>USA Full Travel fellowship from Council of Scientific &amp; Industrial Research (CSIR) 2016</b>  <b>USA Travel fellowship from Centre for International Co-operation in Science(CICS) 2016</b>  <b>UGC NET-JRF-SRF fellowship award 2010</b></p>
<b>Association With Professional Bodies</b>
<ol style="list-style-type: none"> <li>1. Association of Microbiologists of India (AMI) (Life membership no.: 4263-2015)</li> <li>2. Indian Virological Society (IVS) (Life membership no.: LM-116/IVS/2016)</li> <li>3. International Society for Viruses of Microorganisms (ISVM) (Life member-applied)</li> </ol>
<b>Other Activities</b>
<ul style="list-style-type: none"> <li>• Certificate course on “Data Science and Programming with Python” in Ram Lal Anand College, University of Delhi, 26<sup>th</sup> May-1<sup>st</sup> June 2018.</li> <li>• Short-term course certificate in counseling &amp; guidance 11th July 2011- 2nd January 2012 Department of Social Science, University of Delhi.</li> <li>• Certificate course on Human Rights 19<sup>th</sup> January 2011 - 12<sup>th</sup> March 2012 from Department of Social Science, University of Delhi.</li> </ul>

Signature of Faculty Member