



**DESHBANDHU COLLEGE**  
**(UNIVERSITY OF DELHI)**  
**KALKAJI, NEW DELHI - 110019**  
**Faculty Details Proforma for College Website**

Title	Dr.	First Name	<b>SHEKHAR</b>	Last Name	<b>NAGAR</b>	Photograph
Designation	<b>Assistant Professor</b>					
Address	<b>H. No.- 783, Sector- 21 C, Part- II, Faridabad, Haryana- 121001</b>					
Phone No. Office	-					
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Mobile	<b>9015022777</b>					
Email	<a href="mailto:snagar@db.du.ac.in">snagar@db.du.ac.in</a> and <a href="mailto:nagar.shekhar90@gmail.com">nagar.shekhar90@gmail.com</a>					
Web-Page						
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	<b>University of Delhi</b>				<b>2022 (Submitted)</b>	
M.Phil.						
PG	<b>University of Delhi</b>				<b>2014</b>	
UG	<b>University of Delhi</b>				<b>2012</b>	
Any other qualification						
<b>Career Profile</b>						
Assistant professor (Ad-Hoc) in Department of Zoology, Deshbandhu College, University of Delhi, from April, 2022.						
<b>Administrative Assignments</b>						
<b>NA</b>						
<b>Areas of Interest/Specialization</b>						
<b>Metagenomics, Genomics, Molecular Biology, Evolutionary Biology, Bioinformatics</b>						
<b>Subjects Taught</b>						
<b>Non-Chordates, Human Physiology, Ecology, Metagenomics, Fish Biology</b>						
<b>Research Guidance</b>						
List against each head (If applicable):						
<ol style="list-style-type: none"> <li>1. Supervision of awarded Doctoral Thesis</li> <li>2. Supervision of Doctoral Thesis, under progress</li> <li>3. Supervision of awarded M.Phil. dissertations</li> <li>4. Supervision of M.Phil. dissertations, under progress</li> </ol>						
<b>Publications Profile</b>						

List against each head (If applicable) (as illustrated with examples)

1. Books/Monographs (Authored/Edited) - **NA**
2. Research papers published in Refereed/Peer Reviewed Journals
  - a) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals - **NA**
  - b) Research papers published in Refereed/Peer Reviewed Conferences
1. Nagar S., Talwar, C., Motelica-Heino, M., Richnow, H., Shakarad, M., Lal, R., Negi, R.K. (2022) Microbial ecology of sulfur biogeochemical cycling at a mesothermal hot spring atop Northern Himalayas, India, *Front. Microbiol.* 13:848010. **(IF: 5.64)**
2. Nagar S., Bharti, M., Negi, R.K. (2022) Genome-resolved metagenomics reveals cohesive metabolic dynamics, metal resistance genes (MRGs) and biogeochemical cycling in a hot spring system. *Preprint* 10.1101/2022.03.21.485241.
3. Nagar S., Talwar, C., Haider, S., Puri, A., Ponnusamy, K., Gupta, M., Sood U., Bajaj A., Lal, R., Kumar, R. (2020) Phylogenetic Relationships and Potential Functional Attributes of the Genus Parapedobacter: A Member of Family Sphingobacteriaceae. *Front. Microbiol.* 11:1725. **(IF: 5.6, Citations: 02)**
4. Nagar, S., Talwar, C., Bharti, M., Yadav, S., Siwach, S., Negi, R.K. (2021) Metagenome-assembled genomes recovered from the datasets of a high-altitude Himalayan hot spring Khirganga, Himachal Pradesh, India *Data in Brief* 39:107551. **(IF: 1.4, Citations: 02)**
5. Nagar, S\*, Talwar C\*, Kumar, R. *et al.* (2020) Defining the Environmental Adaptations of Genus *Devosia*: Insights into its Expansive Short Peptide Transport System and Positively Selected Genes. *Sci. Rep.* 10:1151. **(IF: 4.3, Citations: 19)**
6. Verma, H., Nagar, S., Vohra, S, Pandey, S., Lal, D., Negi, R.K., Lal, R. and Rawat, C.D. (2021). Genome analyses of 174 strains of *Mycobacterium tuberculosis* provide insight into the evolution of drug resistance and reveal potential drug targets. *Microb. Genom.* 7: 3. **(IF: 5.56, Citations: 03)**
7. Kumar, R., Verma, H., Haider, S., Bajaj, A., Sood, U., Ponnusamy, K., Nagar, S., Negi, R.K., Shakarad, M., Singh, Y., Khurana, J., Gilbert, J., Lal, R. (2017). Comparative genomic analysis reveals habitat specific gene and regulatory hubs within the genus *Novosphingobium*. *MSystems* 00020-17. **(IF: 6.2, Citations: 44)**
8. Kumar, R., Verma, H., Singhvi, N., Sood, U., Gupta, V., Singh, M., Kumari, R., Hira, P., Nagar, S., Talwar, C., Nayyar, N., Anand, S., Rawat, C.D., Verma, M, Negi, RK, Singh, Y, Lal, R (2020) Comparative genomic analysis of rapidly evolving SARS-Cov-2 reveals mosaic pattern of phylogeographical distribution *Msystems* 5:4. **(IF: 6.2, Citations: 38)**
9. Mahato, N.K., Gupta, V., Singh, P., Kumari, R., Nagar, S., Sharma, M., Mishra, H., Singh, A.K., Dhingra, G., Negi, R.K., Shakarad, M., Singh, Y., Lal, R. (2017) Microbial taxonomy in the era of OMICS: application of DNA sequences, computational tools and techniques. *Anton. V. Leeuwen.* 110: 10, 1357-1371. **(IF: 2.4, Citations: 46)**
10. Talwar, C., Nagar, S., Lal, R., Negi, R.K. (2018) Fish gut microbiome: current approaches and future perspectives. *Ind. J. microbiol.* 58 (4), 397-414. **(IF: 2.24, Citations: 73)**
11. Talwar, C., Singh, A.K., Singh, D.N., Nagar, S., Singh, Y., Shakarad, M., Negi, R.K., Lal, R. (2018) Draft Genome Sequence of *Deinococcus* sp. Strain S9, Isolated from Microbial Mat Deposits of Hot Springs Located atop the Himalayan Ranges at Manikaran, India *Microbiol. res. announc.*8: 28, e00316-19. **(Citations: 02)**
- c) Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences: **NA**
3. Other publications (Edited works, Book reviews, Festschrift volumes, etc.): **NA**

Conference Organization/ Presentations

List against each head(if applicable)

**1. Organization of a Conference:**

1. Organized 3rd Indian Network of Soil Contamination and Research (INSCR), International conference held at University of Delhi, Delhi from September 26-28, 2017.
2. Organizing committee member of joint ISME-INSCR Pre-conference workshop on “Hands on Computational Biology for (Meta)genomic analysis” at University of Delhi, 25th September, 2017.
3. Organizing committee member of joint **ISME-AMI** Pre-conference workshop on “Hands on Computational Biology for (Meta)genomic analysis” at Baba Bhimrao Ambedkar University, Lucknow, India, 16<sup>th</sup> November, 2017.
4. Organizing committee member during annual international E-conference of the 61st Association of Microbiologists of India (AMI) and Indian Network of Soil Contamination and Research in association with University of Delhi, The Energy and Resources Institute (TERI), Indian Agricultural Research Institute (IARI) and Indian National Science Academy (INSA) from 3rd -5th February, 2021

**2. Participation as Paper/Poster Presenter**

1. Presented poster entitled “Nagar S., Kumar R., Puri A., Bajaj A., Gupta V., Mahato N. K., Sood U., Negi R. K., Shakarad M., Singh Y., Lal R. “Comparative genomic analysis of genus *Parapedobacter*: Insight into the genetic attributes and characteristic traits” at 57th Annual Conference of Association of Microbiologists of India (AMI) held at Guwahati University, Guwahati, India from November 24-27, 2016.
2. Presented poster entitled “Nagar S., Mahato N. K., Shakarad M., Singh Y., Lal R., Negi R. K., “Framing the microbial diversity and functional dynamics of sulfur contaminated hot spring Khirganga in Northern Himalayas, Himachal Pradesh, India” at 3rd Indian Network of Soil Contamination and Research (INSCR) conference held at University of Delhi, Delhi from September 26-28, 2017.
3. Presented poster entitled “Nagar, S., Talwar C., Sood U., Mahato, N. K., Shakarad, M., Singh, Y., Lal, R. and Negi, R. K., Metagenomic assessment of the diversity and functional attributes of the microbial communities in hot spring at Kheer Ganga in Northern Himalayas, Himachal Pradesh, India” at 58th Annual Conference of Association of Microbiologists of India (AMI) held at Baba Bhimrao Ambedkar University, Lucknow, India from November 17-19, 2017.

**Research Projects (Major Grants/Research Collaboration)**

NA

**Awards and Distinctions**

- Qualified Joint CSIR-UGC JRF in Life Sciences conducted by CSIR-UGC, Govt. of India, 2017.
- Qualified National Eligibility Test (NET) in Life Sciences conducted by CSIR-UGC, Govt. of India, 2016.
- University 1st Rank in B. Sc (H) Applied Zoology, University of Delhi, 2009-10.
- University 2nd Rank in B. Sc (H) Applied Zoology, University of Delhi, 2011-12.
- Awarded scholarship at the undergraduate level for 3 consecutive years by the University of Delhi, 2009-2012.
- Spectator Services Assistant in COMMONWEALTH GAMES, Delhi, India, 2010.

**Association With Professional Bodies**

NA

**Other Activities**

- Editor of Indian Network for Soil Contamination Research INSCR journal “Biosphere
- **General Secretary** of Indian Network of Soil Contamination and Research (INSCR) student club 2018-2019.
- **Joint Secretary** of Indian Network of Soil Contamination and Research (INSCR) student club 2017-2018.
- Member of Association of Microbiologists of India (AMI).
- Member of Indian Network for Soil Contamination Research (INSCR).



Signature of Faculty  
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.