

**Exploring Aquatic Realms: Unveiling Genomes, Unraveling Microbial Communities, and Fish Biology**



➤ **Prof. Ram Krishan Negi**  
He is a professor in the Department of Zoology, University of Delhi, Delhi, India. He has expertise on Fish Biology, Molecular taxonomy, Metagenomics, Fish microbiome, and Aquatic pollution. He has authored more than 80 publications and has 1099 citations.



➤ **Dr. Monika Sharma**  
She has worked on Hexachlorocyclohexane (HCH), an organochlorine pesticide imposes several harmful impacts on the ecosystem. She has authored eleven articles and has immense knowledge of environmental microbiology, bioremediation, and metagenomics.



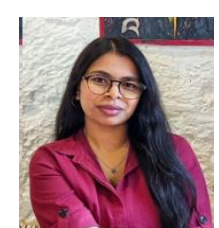
➤ **Ms. Sonakshi Modeel**  
She is a Research Scholar working on DNA barcoding of economically and ecologically important freshwater fishes from River Beas, India. She has authored five articles and has expertise in genomics, metagenomics, molecular biology, and population genetics.



➤ **Ms. Sneha Siwach**  
She is a Research Scholar currently working to uncover the types of microplastics present in the holy river of India, Yamuna. Her research focus has been on the microplastic pollution in riverine environment and its impact on the aquatic fauna present in the river.



➤ **Mr. Pankaj Yadav**  
He is a Research Scholar working on the fish gut microbiome using Culture-dependent techniques. His work includes the study of economically important and enormously eaten fish species of NCR region and the isolation of fish gut microbes using different growth media.



➤ **Ms. Meenu Chaurasia**  
She has joined the lab recently and is working on genomic and metagenomic approaches to study the molecular taxonomy of fish microbiome and their identification.



➤ **Dr. Meghali Bharti**  
She has worked on the gut microbial diversity of two exotic invasive fish *Cyprinus carpio* (Linnaeus, 1858) and *Oreochromis niloticus* from river Yamuna. She has authored ten articles and has expertise in metagenomics, microbiology and fish biology.



➤ **Ms. Sheetal Yadav**  
She is a Research Scholar working on metagenomics of gut microbiome of fish species from Beas river and Harike wetland using 16S rRNA amplicon sequencing approach. She has authored in 5 papers, and has expertise in microbiology, metagenomics, and fish biology.

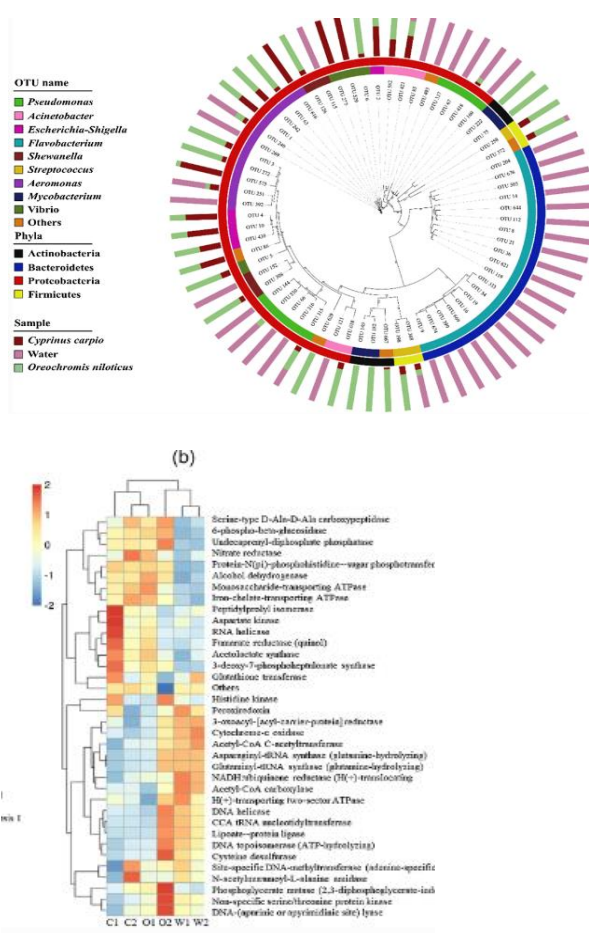
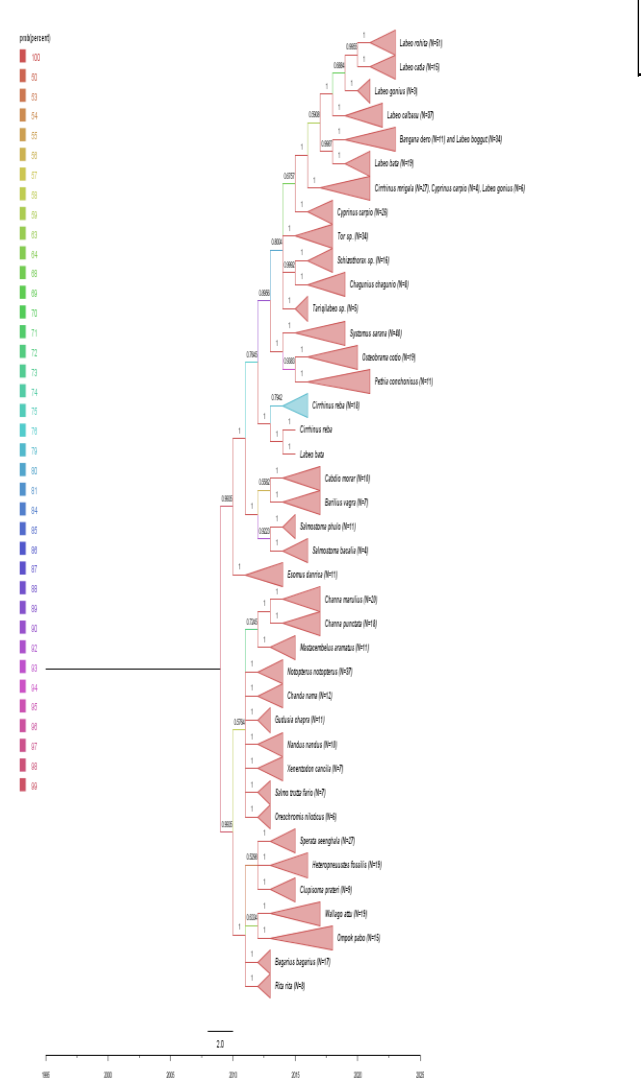
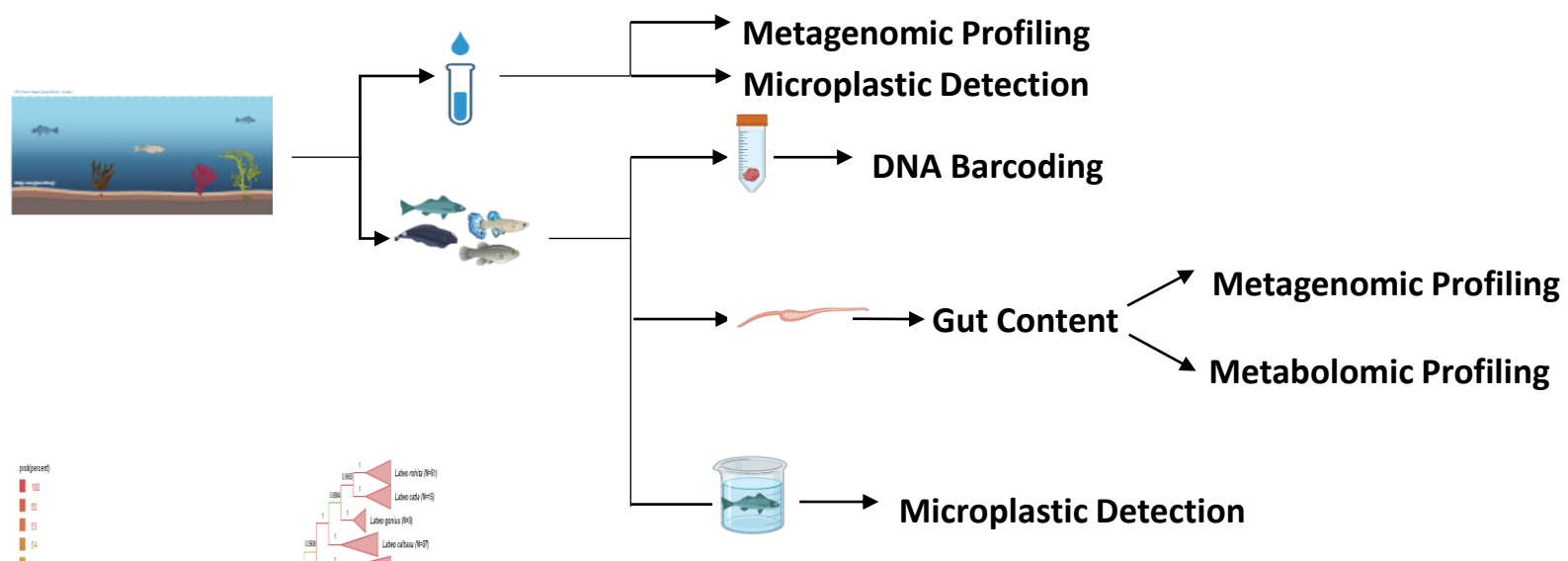


➤ **Ms. Padma Dolkar**  
She is a research scholar, currently working on the microbiome diversity, putative functional profiles of the microbiome, and their metabolic pathway and antibiotic resistance genes prediction in the fish gut microbiome and its environment through shotgun metagenomics.

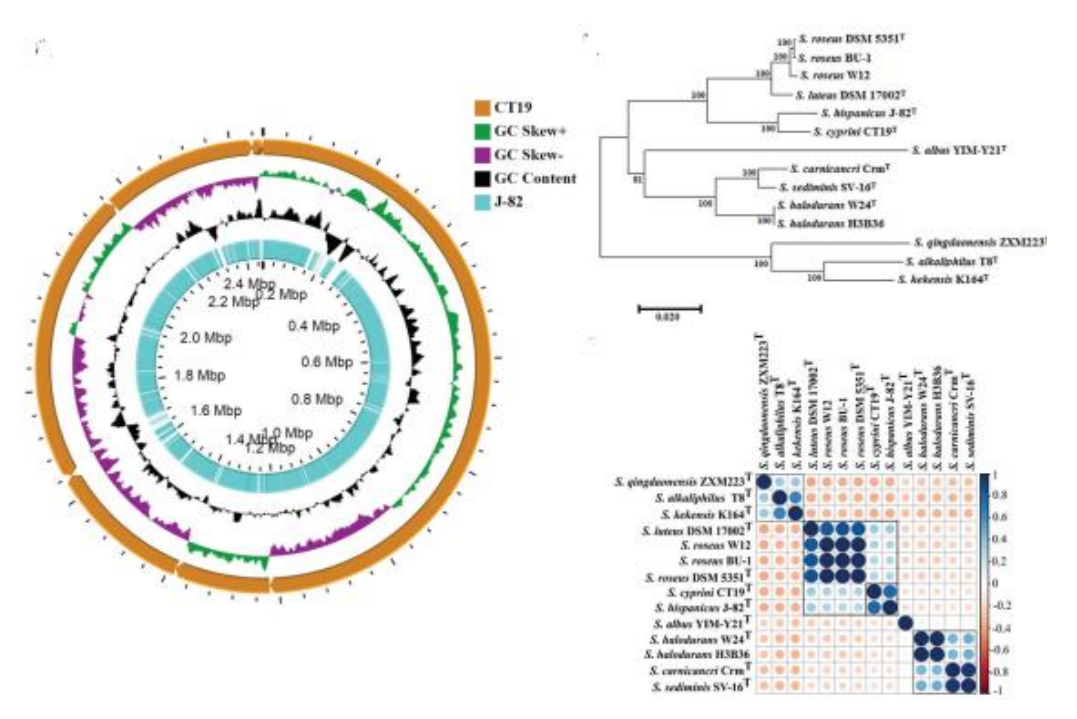


➤ **Ms. Apoorva**  
She has joined the lab recently and is working on metabolomic profiling of fish gut and tissues to study the impact of pollution on fish health and metabolism.

**Lab Methodology and Study Plan**



**Microplastics found In Fish Gut and water samples**



**DNA Barcoding of >200 fish specimens from North India**

**Microbial Insights into Fish gut and water samples**

**Isolation of novel strains from Fish gut**