

BIODATA

Dr. MAMTA SINGH

Assistant Professor,
Fish Biotechnology
College of Fisheries
Bihar Animal Sciences University
Arrabari, Kishanganj-855107
Email: mamta0131@gmail.com
Contact No.: +91-9612051829



Specialization

- Fish Biotechnology, Molecular Genomics & Transcriptomics
- Abiotic Stress-resilient Aquaculture
- Aquatic Biodiversity Conservation

Education Qualifications

Degree	Board / University	Year of passing
B. Sc.	Lucknow University, Lucknow, India	2004
M. Sc.	Bundelkhand University, Jhansi, India	2006
Ph.D.	ICAR-National Bureau of Fish Genetic Resources (NBFGR), Lucknow with Academic Affiliation of A. P. S. University, Rewa	2012

Employment Details

S. No.	Position Held/ Designation	Period		Name of Organization
		from	to	
1	Assistant Professor (Fish Biotechnology)	15.03.2022	Till date	College of Fisheries, Kishanganj (Bihar Animal Sciences University)
2	Assistant Professor (Guest Faculty)	03.10.2018	14.03.2022	
3	Scientist, DBT Bio-CARe (Aquaculture Biotechnology)	15.06.2015	01.10.2018	College of Fisheries, Agartala (Central Agricultural University, Imphal)
4	Assistant Professor (Fish Genetics & Reproduction)	06.06.2012	30.09.2014	
5	Research Associate (AICRP-MULLaRP)	23.12.2010	05.06.2012	ICAR Research Complex for NEH Region, Tripura Centre, Agartala

Five Best (Research Articles)

S. No.	Authors, Year of publication, Title of the paper	Journal Name, Volume & Page No.	NAAS Rating	Impact Factor
1	Mamta Singh , Anindya S. Barman, A. Lembika Devi, A. Gangarani Devi, Pramod K. Pandey (2019). Iron-mediated haematological, oxidative and histological alterations in freshwater fish <i>Labeo rohita</i> .	Ecotoxicology & Environmental Safety, 170:87-97	12.10	6.60
2	Mamta Singh , V. P. Saini, L. L. Meena (2025) Heat Stress Induces Oxidative Stress & Weakens the Immune System in Catfish <i>Clarias magur</i> : Evidence from Physiological, Histological, & Transcriptomic Analyses	Fish & Shellfish Immunology, 161:110294	9.90	4.20
3	A.S. Barman, Mamta Singh , S. K. Singh, H. Saha, Y. J. Singh, M. Laishram, P. K. Pandey (2018). DNA Barcoding of Freshwater Fishes of Indo-Myanmar Biodiversity Hotspot.	Scientific Reports (8): article No.: 8579	9.90	4.90
4	R. Kumar, Mamta Singh , B. Kushwaha, N. S. Nagpure, I. Mani, W. S. Lakra (2013). Molecular characterization of major and minor rDNA repeats and genetic variability assessment in different species of mahseer found in North India	Gene, 527: 248–258	8.40	2.70
5	Mamta Singh , R. Kumar, N. S. Nagpure, B. Kushwaha, I. Gond, W. S. Lakra (2009). Chromosomal localization of 18S and 5S rDNA using FISH in genus <i>Tor</i> (Pisces, Cyprinidae).	Genetica, 137:245–252.	8.00	2.00

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Other Publications: Original Research Papers: **20**, Books Authored: **04**, Book Chapters written: **09**, Conference Proceedings: **03**, Training Manuals: **04**, Popular Articles: **07**, Radio Talks: **03**

i10 Score: 12

H-index: 11

Total Citations: 407

Ongoing Research Project at Bihar Animal Sciences University

S. No.	Project Title	Category	Funding Agency	Year	Budget
1	Inventorization, cataloging, and development of live gene bank of native ornamental fishes of Seemanchal region of Bihar (Co-Investigator)	Institutional Research Grant	Bihar Animal Sciences University (BASU)	2023	4.40 Lakh

Completed Research Project at Bihar Animal Sciences University

S. No.	Project Title	Category	Funding Agency	Year	Budget
1	Transcriptome Profiling for Identification of Abiotic (Heat) Stress Responsive Genes in <i>Clarias batrachus</i> and <i>Tor putitora</i> (Principal Investigator)	Competitive Research Grant under ICAR-NICRA	Indian Council of Agriculture (ICAR)	2022	29.50 Lakh
2	Inventorization & documentation of aquatic resources and resource users of the Kishanganj district of Bihar (Co-Investigator)	Institutional Research Grant	Bihar Animal Sciences University (BASU)	2019	17.72 Lakh
3	Genetic Diversity Analysis of Different Stocks of <i>Labeo rohita</i> (Rohu) of Mithila and Seemanchal Region of Bihar (Principal Investigator)	Institutional Research Grant	Bihar Animal Sciences University (BASU)	2023	4.00 Lakh

Externally Funded Development Projects

S. No.	Project Title	Category	Funding Agency	Year	Budget
	Experiential Learning (ELP) Unit on “Breeding and Culture of Freshwater Ornamental Fishes” (Managing Director)	Development Grant	Indian Council of Agriculture (ICAR)	2021	40.00 Lakh
7	Establishment of “Aquatic Referral Laboratory for Disease Diagnostics and Quality Testing” (Co-Investigator)	Development Grant	PMMSY, Govt. of India and Govt. of Bihar	2020	1000.0 Lakh

Membership of Professional bodies

1. Life member of the Aquatic Biodiversity Conservation Society (ABCS), India.
2. Life member of All India Science Congress (AISC), India.
3. Life Member of Zoological Society of India

Honour and Awards

S. No.	Award Category	Agency	Year
1	Recipient of Dr. S. Ayyappan Memorial Young Scientist Award for contribution in the field of Fish Genomics, biotechnology and stress-resilient aquaculture research	Society for Biotic Environmental Research	2026
2	Recipient of Best Teaching Faculty Award of the College of Fisheries (Bihar Animal Sciences University), Kishanganj for the year 2024-25	Bihar Animal Sciences University	2025
3	Recipient of Best Teaching Faculty Award of College of Fisheries (Bihar Animal Sciences University), Kishanganj for the year 2023-24	Bihar Animal Sciences University	2024
