

A. General Information

Name		Dr. Mamta Singh
Designation		Assistant Professor & Head
Specialization		Fish Biotechnology
	<i>Office</i>	Department of Fish Biotechnology College of Fisheries, DKAC Campus, Arrabari, Kishanganj-855107, Bihar
	<i>Present</i>	Type IV-C, Flat No. 203 Residential Complex, DKAC Campus, Arrabari, Kishanganj-855017, Bihar
	<i>Permanent</i>	Village: Bairidarh, Post.: Kazi Ki Digwania (Latghat) District: Azamgarh, Uttar Pradesh-276136
Date & Place of Birth		31.01.1984, Azamgarh (Uttar Pradesh)
Nationality		Indian

B. Educational Qualification

- **Ph.D.** awarded in the year 2012 from ICAR-National Bureau of Fish Genetic Resources, Lucknow (Degree awarding authority: APS University, Rewa, M.P.)
Title of Ph.D. thesis: Physical mapping of ribosomal DNA sequences using fluorescence *in situ* hybridization in north Indian mahseer
- **M.Sc.** (Biotechnology) awarded in the year 2006 from Bundelkhand University, Jhansi, Uttar Pradesh
- **B.Sc.** awarded in the year 2004 from Lucknow University, Lucknow, Uttar Pradesh

C. Professional Experience: 07 Years of Teaching and 13 years of post Ph.D. research experience

S. No.	Position Held/ Designation	Name of Organization	Period		Pay Scale
			from	to	
1	Assistant Professor (Fish Biotechnology)	College of Fisheries, Kishanganj (Bihar Animal Sciences University, Patna)	15.03.22	Till date	Rs. 57700-182400
2	Assistant Professor (Guest Faculty)	College of Fisheries, Kishanganj (Bihar Animal Sciences University, Patna)	03.10.18	14.03.22	Rs. 50000 consolidated
3	Scientist, DBT Bio-CARE	College of Fisheries, Agartala (Central Agricultural University, Imphal)	15.06.15	30.09.18	Rs. 50000 consolidated
4	Assistant Professor (Fish Genetics & Reproduction)	College of Fisheries, Agartala (Central Agricultural University), Imphal	06.06.12	30.09.14	Rs. 15600-39100+6000 GP
5	Research Associate (AICRP)	ICAR Research Complex for NEH Region, Tripura Centre, Agartala	23.12.10	05.06.12	Rs. 23000 + HRA

D. Trainings

S. No.	Details of Trainings	Organizer	Duration	Date
1	Completed training program on "Bioinformatics approaches in genomics, transcriptomics and proteomics"	ICAR-National Bureau of Fish Genetic Resources, Lucknow	10 days	12-22 Nov 2013
2	Completed winter school on "Recent advances in Aquaculture Biotechnology"	College of Fisheries, Tripura (Central Agricultural University, Imphal)	21 days	1-21 Nov 2017
3	MOOCs on Psychology of Learning	ICAR-NAARM, Hyderabad	15 days	1-15 May 2020
4	Online training on "Scientific Communication for Smart Scholars"	ICAR-CIFE, Mumbai	14 days	12-25 May 2020
5	MOOCs on Digital Assessment and Evaluation Methodology	ICAR-NAARM, Hyderabad	30 days	1-30 Sep 2022

E. Projects Handled/Being Handled

Research Projects (05), Development Projects (02) and HRD Projects (01)

S. No.	Project Title	Category	Funding Agency	Year	Amount	Status
1	Transcriptome profiling in <i>Labeo rohita</i> to identify iron toxicity responsive genes and development of type I marker (Principle Investigator)	Competitive Research Grant	Department of Biotechnology (DBT)	2012	26.60 Lakhs	Completed
2	Transcriptome Profiling for Identification of Abiotic (Heat) Stress Responsive Genes in <i>Clarias batrachus</i> and <i>Tor putitora</i> (Principle Investigator)	Competitive Research Grant under NICRA	Indian Council of Agriculture (ICAR)	2022	29.50 Lakhs	Ongoing
3	Establishment of Aquatic Referral Laboratory for Disease Diagnostic and Quality Testing (Co-Coordinator)	Development Grant	Pradhan Mantri Mastya Sampada Yagna (PMMSY)	2022	1000.0 Lakh	Ongoing
4	Experiential Learning Unit on "Breeding and culture of Freshwater Ornamental Fishes" (Managing Director)	Development Grant	Indian Council of Agriculture (ICAR)	2022	40.00 Lakhs	Ongoing
5	National Workshop on "Recent Advancements in Molecular Biology Techniques and its Applications" (Organizing Secretary)	Competitive HRD grant	Bihar Council of Science & Technology (BCST)	2023	1.0 Lakh	Completed
6	Inventorization and documentation of aquatic resources and resource users of Kishanganj district of Bihar (Co-Investigator)	Institutional Research Grant	Bihar Animal Sciences University (BASU)	2019	17.72 Lakhs	Ongoing
7	Genetic diversity analysis of different stocks of <i>Labeo rohita</i> (Rohu) of mithila and Seemanchal region of Bihar (Principle Investigator)	Institutional Research Grant	Bihar Animal Sciences University (BASU)	2023	4.0 Lakh	Ongoing
8	Inventorization, cataloguing 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	Ongoing

F. Seminars/Conferences/Workshop Organized: 07

S. No.	Title	Role	Funding Agency	Date & Funding
1	One day national workshop on "Recent Advancements in Molecular Biology Techniques and its Applications"	Organizing Secretary	Bihar Council on Science & Technology (BCST)	24 Nov 2023
2	National conference on "Transforming rural poverty into prosperity through sustainable Fisheries (TRPSF)"	National organizing committee member	NFDB & COFCAA	19-21 July 2023
3	National Conference of SPFCA on "Fostering one health for food safety and security"	Joint Organizing secretary	Society for Promotion of Farm and Companion Animal, BASU	10-11 November 2022
4	Webinar on "Scope of Ornamental Fish Enterprise in Bihar"	Organizing Secretary	BASU	10-11 Aug 2020
5	Webinar on Indian Fisheries: Present Status & Future Strategies for Sustainable Production	Coordinator	NAHEP	06 May. 2020
6	Webinar on Climate Resilient Freshwater Aquaculture Strategies	Coordinator	NAHEP	05 May, 2020
7	Workshop on Career Opportunity in	Coordinator	NAHEP	08 Mar, 2020

Agriculture & Allied Section for School Students			
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G. Seminars/Conferences/Workshop Attended: 18

S. No.	Details
1	Attended Indian Ecological Society conference, Fisheries and Aquaculture: An Ecological Perspective during 22-24 Feb, 2023 at GADVASU, Ludhiana
2	Attended 7 th International Conference on Global Research Initiatives for sustainable agriculture & allied sciences during 21-23 Nov, 2022 at BAU, Ranchi
3	Attended National Conference of Society for Promotion of Farm and Companion animal on Fostering one health for food safety and security during 10-11 Nov, 2022 at BASU, Patna
4	Attended a five-days webinar on "COVID-19 and Fisheries: Potential Impacts, Mitigation and Management organized by College of Fisheries, CAU (Imphal), Lembucherra, Agartala, Tripura during 15-19 June 2020
5	National conference on Linking Startups and SMEs in Food Processing with Government Schemes & Markets" sponsored by ASSOCHAM at College of Fisheries (CAU) Lembucherra, Tripura from on 28.11. 2017
6	Attended 03 days workshop on "Capacity building in grant writing skill & effective management of intellectual property rights (IPR) in biotechnology by universities & research institution in North East Region" sponsored by DBT and organized by BCIL, New Delhi at Tripura University during 23-25 Feb, 2017
7	Attended 5 days "Workshop on Mathematical Genomics" organized by Indian Statistical Institute (ISI) Kolkata during 23-28 Jan 2017 at Bioinformatics Center, Tripura University, Agartala.
8	Attended International Seminar on "Climate Change Adaptation and Biodiversity: Ecological Sustainability and Resource Management for Livelihood Security" organized by Andaman Science Association during 8-10 Dec 2016 at ICAR-CIARI Port Blair
9	Attended National Seminar on "Fisheries and Aquaculture: Livelihood Security, Sustainability and Conservation" jointly organized by NESFA and Asian Fisheries Society (Indian Branch) at College of Fisheries (CAU, Imphal) Lembucherra, Tripura from 21-22 Jan 2016
10	Attended one day mentorship workshop for the EAST ZONE on "How to write a good scientific research proposal" organized by DBT (GOI) and held at the Department of Botany (University of Calcutta), Kolkata on 4th July 2013
11	Attended workshop on "Feed based aquaculture in North East Region: Status, Constraints and Potential" organized by CIFE, Mumbai and College of fisheries CAU, Tripura from 11-12 Jan 2013
12	Attended Seminar on molecular biology organized by DBT and Agartala Government Medical College, held at Pragna Bhawan, Agartala Tripura, India on 31 st March 2012
13	Attended 1st Tripura Science congress and presented two oral and one poster held at Agartala Tripura, India from 8-9 Sep 2011
14	Attended national workshop on "Disease Forecasting & Prevention through Biotech Intervention" held at Pragna Bhawan, Agartala Tripura, India from 8-9 June 2011
15	Attended national workshop on "Advance in Aquaculture and Fisheries perspectives, prospects and challenges" held at ITPO New Delhi, India from 3 -4 July 2009
16	Attended national conference on Aquatic Genetic Resources organized by National Bureau of Fish Genetic Resources and ABCS at Lucknow during 26-27 April, 2008
17	Attended Workshop on "Fisheries conservation and Enhancement: Linking researcher and Stakeholders" held at Guwahati, India from 17-19 Dec 2007
18	Attended 18 th All India Congress of Zoology and presented poster on "Versatility of new set of primers for the amplification of the ribosomal ITS1 region in Teleost fishes" held at University of Lucknow, Lucknow, India from 5-7 Dec 2007

H. Technologies Developed

S. No.	Category	Title	Year	Details
1.	DNA Reference Library	Development of DNA barcode reference library of fish fauna of North East India (Indo-Myanmar biodiversity hotspot)	2019 & 2017	Published in Journal Scientific Reports (Nature) (8): article No.: 8579 & Mitochondrial DNA Part A, 29 (3): 367-378.
2.	Whole Genome sequencing	Complete whole mitochondrial genome sequencing of economically important aquaculture species, <i>Osteobrama belangari</i> , <i>Ompok bimaculatus</i> and <i>Labeo rajasthanicus</i>	2017 & 2023	Published in Journal Mitochondrial DNA , Part B, 2 (1): 300-301, 313-314 & 8 (12):1364-67. (Accession Number KY887473, KY887474 & OQ834146)
3.	Technology (Marker)	Developed population specific Fluorescent <i>in situ</i> hybridization	2009	Published in Journal of Genetics , 88(3): 315-320.

	Development)	(FISH) marker in golden mahseer, <i>Tor putitora</i>		
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I. Awards/Recognition

S. No.	Category	Agency	Year
1	Recipient of Best Oral Presentation award at Indian Ecological Society conference, Fisheries and Aquaculture: An Ecological Perspective during 22-24 Feb, 2023 at GADVASU, Ludhiana	Indian Ecological Society	2023
2	Recipient of Best Oral Presentation award at 7 th International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences during 21-23 Nov, 2022 at BAU, Ranchi	Astha Foundation	2022
3	Recipient of Best Oral Presentation award at National Conference of Society for Promotion of Farm and Companion Animal on Fostering one health for food safety and security during 10-11 Nov, 2022 at BASU, Patna	Society for Promotion of Farm and Companion Animal	2022
4	Recipient of Best Poster Presentation award at National Conference of Society for Promotion of Farm and Companion animal on Fostering one health for food safety and security during 10-11 Nov, 2022 at BASU, Patna	Society for Promotion of Farm and Companion Animal	2022
5	Recipient of Vice-Chancellor's Appreciation Award for outstanding performance for the year 2020	Bihar Animal Sciences University, Patna	2020
6	Recipient of Competitive Research Grant Award under DBT-BioCARE Women Scientist	Department of Biotechnology (DBT), GoI	2014
7	Recipient of Best Oral Presentation Award during 1 st Tripura Sciences Congress held during September, 2011 at Agartala, Tripura	Tripura Council of Science and Technology	2011

J. Membership of Fisheries Organizations

S. No.	Details
1	Life member of the Aquatic Biodiversity Conservation Society (ABCS), India with registration no. 1092/2006-7
2	Life member of All India Science Congress (AISC), India.
3	Life member of North Eastern Society of Fisheries and Aquaculture (NESFA), India
4	Life Member of Society for Promotion of Farm and Companion Animal (SPFCA), BASU, Patna

K. Students Supervised

(i) **M.Sc. Students:** 01 as Major advisor (Registered), 02 as co-advisor (Registered)

L. Publications*:

Research Papers	Book chapters	Articles in magazine	Books	Manuals	Extension Articles
17	10	06	02	06	10

***For details please visit:** <https://orcid.org/0000-0001-9730-3494>

I hereby declare that the information provided above is correct and complete as on date.

Date: 14.01.2024

Place: Kishanganj

(Dr. Mamta Singh)