



Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)

(For Teaching Staff)

	DR.	First Name	SUSHMA	LastName	SRIVASTAVA	Photograph
Designation	Associate Professor					
Department	ZOOLOGY					
Address (Campus/Department)	Department of Zoology MM(PG) College, Modinagar 201204.					
(Residence)						
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Web-Page						

EDUCATIONAL QUALIFICATIONS

Subject	Institution	Year	Details
D.Phil. (Zoology)	University of Allahabad	1993	Title : Studies on the Pineal window of certain catfishes
NET (Life Sciences)	UGC-CSIR	1988	

M.Sc.(Zoology)	University of Allahabad	1986	Spl. FISH and FISHERIES Gold Medalist
B.Sc.(Zool.,Bot.,Chem.)	University of Allahabad	1984	
<i>Professional Degrees</i>			
M.Ed./LL.M			
B.Ed./LL.B			
Diploma			

CAREERPROFILE

Organisation/ Institution	Designation	Duration	Role(s)
MM(PG) College, Modinagar	Assistant Professor	2003-2015	Teaching UG and PG students Research Guidance
	Associate Professor	2015 - Present	Teaching UG and PG students Research Guidance

Specialization:Fish and Fisheries

ResearchInterests:

Various aspects of Fish Biology viz.
Pineal window and its role in photosensitivity and extraretinalphotoreception/
neuroendocrine and photoneuroendocrineroles of pineal gland/
stress biology with particular reference to hypoxia stress

TeachingExperience(Subjects/CoursesTaught):

UG : 19 + years
PG : 16 +years

Orientation Courses/Refresher Courses/FDP:

1. Refresher Course (CPDHE, University of Allahabad) 2005
2. Refresher Course (UGC-ASC, University of Allahabad) 2012
3. Orientation Course (CPDHE, University of Delhi) 2012
4. One Week Short Term Course (UGC-ASC, BPS MahilaVishwavidyalaya, Sonapat) 2016
5. Online FDP course 2020

Honors&Awards:

1. Chandra Memorial Gold Award (M.Sc. 1986)
2. Awarded CSIR Research Associateship (1995)
3. Awarded Dr. SarvapalliRadha Krishnan Shikshak Award (2020) by SamajVikasSansthan, Meerut

Publications(LastFIVE(05) YearPublications,

Year ofPublication	Title	Journal/Book(s)	Co-Author(s)
2017	Stress responses in the Adrenal tissues of Indian freshwater fishes – <i>Carassiusauratus</i> (Linnaeus 1758), <i>Cyprinuscarpio</i> (Linnaeus 1758) and <i>Heteropneustesfossilis</i> (Bloch 1794)exposed to hypoxia. .	J.Exp.Zool.India Vol.20,Supplement 1, pp 1319-1324	S.Srivastava and Monika Ruhela
2019	Ultrastructural Indications of Differential Stress Responses Induced by Experimental Hypoxia in two Freshwater fishes – <i>Carassiusauratus</i> and <i>Heteropneustesfossilis</i> .	J.Aq. Res. Mar. Sc. Vol.2 Iss 2 ,pp	S.Srivastava and Monika Ruhela

2015	A Textbook of Fishery Science and Indian Fisheries	Kitab Mahal Publ. Allahabad, Delhi .	CBL Srivastava and S.Srivastava
2016	Fishery Biology	Atlantic Publishers, New Delhi.	CBL Srivastava and S.Srivastava

Conference Presentations:

International

1. **“Stress responses....Hypoxia” S.Srivastava and Monika Ruhela** presented at 11th Asian Fisheries and Aquaculture Forum (organized by Asian Fisheries Society), 3-7 Aug. 2016, Bangkok, Thailand.
2. **“ Effect of temperature.....Heteropneustes fossilis” S.Srivastava and Monika Ruhela** presented at Global Initiatives in Applied Sciences and Green Technologies, 9-11 Sep. 2016, SRM University, Delhi-NCR Campus.
3. **“ Changing environmental scenario.....fish” S.Srivastava** presented at Advances in Agricultural and Biodiversity Conservation, 27-28 Oct. 2017, CCS University, Meerut.

National

1. **“ Adaptive/ corrective ...water fishes” S.Srivastava and Monika Ruhela** presented at Recent Advances in Diversified Agricultural System ,20-21 Feb. 2016.CCR College, Muzaffarnagar.
2. **“ A simple apparatus...laboratory” S.Srivastava and S.Choudhary** presented at Innovative Technologies in Scientific Research and Skill Development, 28-29 Jan. 2018, Meerut College, Meerut.
3. **“ Impact of environmental.....adaptation” S.Srivastava** presented at Recent trends in Interdisciplinary Research, 31 Jan. 2020, IQAC, MM College, Modinagar.
4. **“ Importance of proteomic....studies” S.Srivastava** presented at Bioinformatics :Concepts ,Application and Skill Development, 8Feb. 2020, MMCollege, Modinagar.

Total Publication Profile:

Publications in Indexed/Peer Reviewed Journals:

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Author</u>
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1991	A lens-like specialization for photic input in the pineal window of an Indian catfish, <i>Heteropneustesfossilis</i> .	Experientia 47:7 , 698-700.	S.Srivastava and C.B.L.Srivastava
1999	Ultrastructural evidence of secretory activity in a catfish pineal.	J.Bioscience 24(2) : 193-198.	S.Srivastava
2003	Two morphological types of pineal window in catfish in relation to photophase and scotophase activity : a morphological and experimental study.	J Exp. Zool. 295(A) : 17-28.	S.Srivastava
2003	Influence of continuous light and darkness on the secretory pinealocytes of <i>Heteropneustesfossilis</i> .	J. Bioscience 28(5) : 613-622.	S.Srivastava
2010	Effect of artificial photoperiod on the blood cell indices of the catfish, <i>Clariasbatrachus</i> .	J. Stress Physiol. Biochem. 6(1) : 21-31.	S.Srivastava and Sanjeev K. Choudhary
2011	Haematological and biochemical reference values of <i>Heteropneustesfossilis</i> .	Asian Fisheries Science 24 : 314-320.	S.Srivastava and Sanjeev K.Choudhary
2012	Chromaffin Cell Activity in <i>Heteropneustesfossilis</i> exposed to artificial photoperiod .	Journal of Stress Physiology and Biochemistry Vol.8(3); 170-179.	S.Srivastava and Monika Ruhela
2017	Stress responses in the Adrenal tissues of Indian freshwater fishes – <i>Carassiusauratus</i> (Linnaeus 1758), <i>Cyprinuscarpio</i> (Linnaeus 1758) and <i>Heteropneustesfossilis</i> (Bloch 1794)exposed to hypoxia. .	J.Exp.Zool.India Vol.20,Supplement 1, pp 1319-1324.	S.Srivastava and Monika Ruhela
2019	Ultrastructural Indications of Differential Stress Responses Induced by Experimental Hypoxia in two Freshwater fishes – <i>Carassiusauratus</i> and <i>Heteropneustesfossilis</i> .	J. Aq. Res. Mar. Sc. Vol.2 Iss2 ,pp 154 - 162.	S.Srivastava and Monika Ruhela

Public Service/University Service/Consulting Activity

Giving consultation at Aquaculture and Fish Farms

Professional Societies Memberships

Accredited Member of International Zoological Society

Life Member of EMSI (Electron Microscopy Society of India)

Projects (Major Grants/Collaborations)

Completed UGC Major Project (2007-2010).

**Name(s) & Number(s)
of Ph.D Students Supervised and Awarded with
year:**

S.No.	Name of Ph.D Scholar	Date of Registration	Date of Award	Title of Thesis
1	Monika Ruhela	2010	2014	Studies on the Interrenal and Chromaffin tissues of some freshwater teleosts with special reference to hypoxia

Any other information(s):
Research Guidance for Ph.D. - 02 students

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(Signature of Faculty Member)

(Signature & Stamp of Teacher In-Charge/Principal)

#The point which is not desirable/applicable, strike out or delete.