CURRICULUM VITAE

MASROOR FATIMA

PERSONAL:

Name: **Masroor Fatima**

Designation : Assistant Professor (Zoology)

Qualifications: PhD; Post-doctoral fellow of FNRS (Belgium-Europe)

Specialized Area : Fisheries & Ichthyology; Ecology & Ecotoxicology

Office Phone No.: 040-23008323: **Mobile No.:**8500649108

Email : mfatima@manuu.edu.in
mfatimaeco@gmail.com

Professional Experiences:

2014-Present	Assistant Professer, Deptt. of Zoology, School of Sciences, Maulana Azad National Urdu University, Hyderabad-500032
2013-Aug 2014	Working as a science teacher in Takshila Academy, Ambedkar Nagar (U.P.) India
2010-2011	Guest faculty (Lecturer)**,** Department of Zoology, Aligarh Muslim University (A.M.U.), Aligarh (India)
2005-Sept.2006	**FNRS; Post-doctoral Fellow** (Belgium, Europe), Department of Biology, URBO, Facultés Universitaires Notre-Dame De La Paix, 61, Rue de Bruxelles, Namur, Belgium
2003-2004	**Senior Researcher,** Dept. of Aquatic Life Medicine, Pukyong National University, Pusan, S. Korea

2001-2003	Guest faculty (Lecturer)**,** in the Department of Biosciences, Jamia Millia Islamia (J.M.I.), Central University, New Delhi-110 025, India
2000-2002	**Counselor** (Biology), Indira Gandhi National Open University (IGNOU), Study Centre, MCRC, J.M.I. New Delhi-25, India
1996-2001	**Research Associate** in the Department of Medical Elementology & Toxicology, Hamdard University, New Delhi-110062.
1992-1993	**P.G.T. Teacher**, (Senior Secondary Section) Women's College, Aligarh Muslim University, Aligarh (India)
1988-89	**Lecturer** (Honorarium) Women's College, Aligarh Muslim University (A.M.U.), Aligarh (India)

Consultancy Projects

1987-1988	Associated with "Envirotech Consultants (P) Ltd" for the evaluation of physico-chemical and biological analyses of water in the Environmental Impact Assessment Study of Tata Fertilizers Plant proposed to set up near Babrala.
1998	Involved in Toxicity profile of oil samples received from Indian Oil Corporation (IOC), India on fish model.

Research Project: i-Toxicity Evaluation of Building Facade Paints in Fish MiRP-MANUU 2023-2024

ii- UGC start-up project sanctioned in December, 2015

Research Guidance: 3

Fields of Research Experience and Interest:

* Evaluation of toxicological impact of industrial effluent and pesticides on fish.
* Working on Physiological and immunological alterations in stressed fish.
* Genotoxicity evaluations of Industrial toxicants and nanoparticles.
* Bacterial Colonial Tests
* Oxidative Stress Biomarkers
* Fish Biology
* Physico-chemical & biological analyses of water
* Planktons identifications upto generic levels

Education:

1991:	**Ph.D.**: Zoology, A.M.U., Aligarh, India.
1987:	**M.Phil**.: Zoology, A.M.U., Aligarh, India
1983:	**M.Sc.**: Zoology, A.M.U., India.
1981:	**B.Sc.**: Zoology, Botany, Chemistry and English, A.M.U., Aligarh**,** India.

Country visited: Canada, S.Korea, Belgium, The Netherland, France, Italy, Germany, Pakistan.

Computer Knowledge: Good working knowledge of MS-office.

Symposium/workshops Attended and Presented Papers:

International Conferences/Seminars/Workshops:

Masroor Fatima: International Urdu Science Conference, Maulana Azad National Urdu University-Hyderabad 4-5th March 2024. Presented Paper entitled "Functionalization of dietary ZnO nanoparticle on commercially important freshwater fish".

Masroor Fatima: International Science Conference, Maulana Azad National Urdu University-Hyderabad 27-28th February 2023. Presented Paper entitled "Haematological indices and histological alterations in fish gill as an effective and sensitive index towards nanoparticles-TiO_2".

Masroor Fatima: International Science Conference, Maulana Azad National Urdu University-Hyderabad 27-28th February 2023. Presented Paper entitled "Effects of commercial and synthesized ZnO nanoparticles on the growth performance of *Labeo rohita".*

Masroor Fatima: International e-symposium on Biological Diversity at Wildlife Institute of ONGCAS- Lucknow University 22-23rd May 2021.

Masroor Fatima: Webinar on National Science Day 2021 organized by School of Sciences (Zoology), MANUU-Hyderabad, 28 Feb 2021.
Masroor Fatima: Webinar on International Day of Immunology 2021 organized by School of Sciences (Zoology), MANUU-Hyderabad 29 April 2021.

Masroor Fatima: National Urdu Science Congress, Maulana Azad National Urdu University- Hyderabad 14-15th July 2021. Presented Paper entitled "Combined effect of herbicides on fish".

Masroor Fatima: One day National Seminar on Environmental Conservation and Sustainable Development- Palamuru University-Mahboob Nagar, Telanagan. 10 January 2020. Presented Paper

Masroor Fatima: National Urdu Science Congress, Maulana Azad National Urdu University- Hyderabad 25-26th Feb. 2020. آسٹریلیا کی لائر برڈ موت سےخاموش

Masroor Fatima: National Urdu Science Congress, Maulana Azad National Urdu University- Hyderabad 28thFeb-1st March 2019. Presented Paper entitled "Mallee fowl mounds are nature's brilliant organic incubator of eggs".

SETAC-2006; May 7-11, Hague, Netherlands"The Society of Environmental Toxicology and Chemistry)
Fatima Masroor, Mandiki S.N.M., Jessica Douxfils, Emilie Henrotte, Flamant Sylvain, Patrick Kestemont, "Synergistic effects of agricultural herbicides on the immune system of goldfish (*Carassius auratus*)

Scientific Meeting of the BEBLOOM and MANSCAPE, Brussels, Belgium, 10 March, 2006
Robert Mandiki, **Fatima Masroor**, Virginie Gillardin, Patrick Kestemont "Do herbicides suppress endocrine and immune systems in gold fish.

2004 Autumn Meeting of the Korean Society of Fish Pathology:

Fatima Masroor et al. (2004). "*In vivo* effect of di-*n*-butyl phthalate and di-2-ethylhexyl phthalate on nonspecific defense mechanism of bullhead catfish (*Pseudobagrus fulvidrac*)".102-104

Yoo-Hwa Keum**, Fatima Masroor**, Jung-Hoon Jee and Ju-chan Kang (2004). Acute response of di-(2-ethylhexyl)-phthalate on blodd parameter of Bagrid catfish, *Pseudobagrus fulvidraco*. 97-98.

2004 Autumn Meeting of the Korean Society of Environmental Biology (KOSEB):
Fatima Masroor, Jung-Hoon Jee, Yoo-Hwa Keum and Ju-chan Kang (2004). Short-term Exposure to Waterborne Pb-induced Immuno-modulation in fish. pp:111-113

PUBLICATIONS:

1. Fazle Rasool, Farheen Saba and **Masroor Fatima** (2024). Effect of dietary supplementation of commercial zinc oxide nanoparticles on growth performance of *Labeo rohita* (Hamilton, 1822) fingerlings. Biochemical and Cellular Archives,24(2): 2893-2898.DOI: **10.51470/bca.2024.24.2.2893**

2. Farheen Saba, Imtiyaz Qayoom, Fazle Rasool and **Masroor Fatima (**2024). Toxicity of cypermethrin to *Cyprinus carpio*: under short term acute bioassays in temperate conditions. Biochemical and Cellular Archives,24 (2): 2915-2920. **DOI: 10.51470/BCA.2024.24.2.2915**

3. **Masroor Fatima,** Fazle Rasool, Farheen Saba (2023). Herbicides Mixture With Potent Endocrine-Disrupting Properties In Goldfish: As An Early Warning At Environmentally Relevant Concentration**.** Earth & Environmental Science Research & Review; 6 (2): 432-438. DOI: 10.33140/EESRR.06.02.06

4. Hina Alam, Masroor Fatima, Shakeel Ahmed (2023). Effect of lake water contamination on haematological parameters of fish, Nile Tilapia (*Oreochromis niloticus*) from five different lakes of Hyderabad city. BioGecko 12 (3): 4110-4121.

5. AB Afreen, F Rasool, and **Masroor Fatima** (2023). Bioactive properties of brown seaweed, *Sargassum wightii* and its nutritional, therapeutic potential and health benefits: A review. Journal of Environmental Biology, 44(2); 146-158

6. Saad H. Al-Thaqafy , Abdullah M. Asiri, Mohie E.M. Zayed, Md. Zafer Alam, Arif Ahmad, **Masroor Fatima**, Sanjay Kumar, Salman A. Khan (2023). Physicochemical investigation and fluorescence quenching of biologically active pyrrole-containing push-pull chromophore by Ag nanoparticles. Journal of Molecular Structure, 1274: 134421 DOI: https://doi.org/10.1016/j.molstruc.2022.134421

7. **Masroor Fatima** and Fazle Rasool (2022). "Mallee Fowl's mound nest: A natural Incubator ". *Science ki Duniya,* (CSIR-Science journal in urdu). Published in April-June edition, 30-34 2022

8. **FatimaFatima, M.**, Mandiki S.N.M., Douxfils J., Silvestre F., Kestemont P. (2007). Combined effects of herbicides on biomarkers reflecting immune-endocrine interactions in goldfish. Immune and antioxidant effects. ***Aquatic Toxicology***, 81(2): 159-167. https://doi.org/10.1016/j.aquatox.2006.11.013

9. F**atima, M.,** Jung-Hoon Jee, You-Hwa Keum and Ju-chan Kang (2006). *In vivo* effect of di-*n*-butyl phthalate and di-2-ethylhexyl phthalate on nonspecific defense mechanism of bullhead catfish (*Pseudobagrus fulvidraco*). ***Fisheries & Aquatic Sciences*** (Journal of Fisheries Science & Technology), 9(1):14-21 . https://doi.org/10.5657/fas.2006.9.1.014

10. Jee H.H., **Fatima, M.**, and Ju-chan Kang (2005). Responses of cypermethrin-induced stress in haematological parameters of Koeran rockfish, *Sebastes schlegeli* (Hilgendorf). ***Aquaculture Research,*** 36 (9): 898-905. **https://doi.org/10.1111/j.1365-2109.2005.01299.x**

11. **Fatima, M.**; Ahmad, I.; Siddiqui, R. and Raisuddin, S. (2001). Paper and Pulp Mill Effluent-induced Immunotoxicity in Freshwater fish *Channa punctatus* (Bloch). ***Arch. Environ. Contam. Toxicol***.,40: 271-276. https://doi.org/10.1007/s002440010172

12. **Fatima, M.**; Ahmad, I.; Sayeed, I.; Athar, M. and Raisuddin, S. (2000). Pollutant-induced Over-activation of Phagocytes is Concomitantly Associated with Peroxidative Damage in Fish Tissues. ***Aquatic Toxicology,*** 49 (4): 243-250. https://doi.org/10.1016/S0166-445X(99)00086-7

13. Raisuddin, S.; **Fatima, M.** and Ahmad, I. (2000). Environmental Chemical-Induced Immunological Stress: Its Role in Disease Development. In: ***Environmental Hazards and Management,*** edited by M. Iqbal, P.S. Srivastava & T.O. Siddiqui. CBS, Publ. New Delhi, pp 241-255.

14. Ahmad, I.; Hamid, T.; **Fatima, M.**; Chand, H.S.; Athar, M.; Jain, S.K. & Raisuddin, S. (2000). Induction of hepatic antioxidants in freshwater fish (*Channa punctatus* Bloch) is an adaptive response to paper mill effluent exposure. ***Biochim. Biophys. Acta***, 1519: 37-48. https://doi.org/10.1016/S0304-4165(00)00098-2

15. Sayeed, I.; Ahmad, I.; **Fatima, M.**; Hamid, T.; Islam, F.; Raisuddin, S. (2000). Inhibition of brain Na+, K+-ATPase activity in freshwater fish (*Channa punctatus* Bloch) exposed to paper mill effluent. ***Bull. Environ. Contam. Toxicol.*** .65(2): 161-167. DOI: 10.1007/s001280000110

16. Bajaj, S.; Ahmad, I.; **Fatima, M.**; Raisuddin, S. and Vohora, S.B. (1999). Immunomodulatory Activity of a Unani Gold preparation used in Indian System of Medicine. ***Immunopharmacology & Immunotoxicology***,21(1):151-161. https://doi.org/10.3109/08923979909016400

17. Ahmad, I.; **Fatima, M.**; Athar, M.; Khan, N.Z. and Raisuddin, S. (1998). Responses of Circulating Fish Phagocytes to Paper Mill Effluent Exposure. ***Bull. Environ. Contam. Toxicol.*** 61: 746-753. https://doi.org/10.1007/s001289900824

18. Khan, A.A. and **Fatima, M.** (1994). Feeding Ecology of the Grey Mullet, *Rhinomugil corsula* (Hamilton) from the River Yamuna, North India. ***Asian Fisheries Science***, 7: 259-266.

19. **Fatima, M.** and A.A. Khan (1994). Reproductive Potential of *Rhinomugil corsula* (Hamilton) Collected from the River Yamuna. ***Indian J. Fish***., 38:89-96. https://www.asianfisheriessociety.org

20. **Fatima, M.** and A.A. Khan (1993). Cyclic Changes in the Gonads of *Rhinomugil corsula* (Hamilton) from the River Yamuna, India. ***Asian Fisheries Science*****,** 6:23-29.

21. Haque, N.; A.A. Khan and **Fatima, M.** (1989). Composition and Seasonal Abundance of Phytoplankton in a Tropical Freshwater Pond at Aligarh, India. ***Proc. Sec. Asian Fish. Forum,*** **Tokyo, Japan**: 361-364.

22. **Fatima, M.**; A.A. Khan and Haque, N. (1989). Length-Weight Relationship in *Mugil corsula* (Ham.) from River Jamuna. ***Proc. Nat. Sem. Freshwat. Aqua.,*:** 98-101.

23. **Fatima, M.**; A.A. Khan ; Haque, N. and Barbhuyan, S.I. (1989). Morphometric Studies on *Mugil corsula* (Ham.) from River Jamuna. ***Proc. Nat. Sem. Freshwat. Aqua.***,: 102-105

24. Jyoti, A.; A.A. Khan; Haque,N.; **Fatima, M.** and Barbhuyan, S.I.(1989). Studies on the Effect of Malathion on a Fresh water Fish, *Channa punctatus* (Bloch). ***J. Environ. Biol.*,**10(3): 251-257.

25. Haque, N.; A.A. Khan and **Fatima, M.** (1989). Distribution and Abundance of Rotifers in a Freshwater Pond at Aligarh. ***Proc. Nat. Sem. Freshwat. Aqua***.,: 69-71.

26. Haque, N.; A.A. Khan; **Fatima, M.** and Barbhuyan, S.I. (1988). Impact of some Ecological Parameters on Rotifer Population in a Tropical Perennial Pond**.** ***Environment & Ecology,*** 6(4): 998-1001.

27. Haque, N.; A.A. Khan and **Fatima, M.** (1988). Effect of Salinity on the Survival of a Freshwater Fish, *Esomus danricus* (Ham.). ***Indian J. Applied & Pure Biol***., 3(2): 61-66.

Book Chapters

1. Khan,A., & Fatima, M. (1997).Recent Advances in Ecobiological Research. 2, 8170249937-97881702

2. Raisuddin,S., & Fatima, M. (2000).Environmental Hazards. Plants and People. 1, 8123906447

3. Fatima,M.,Khan,A.A.,A,U.S.,Parveen,S., & Raja, W. (2006).Advances in Fish Research . 4, 8185375453-978-8185

4. Fatima, M. (2022).Book Chordates in Urdu for B.Sc. First Year.1, 978-93-93722-33-1

5. Fatima, M. (2022).Book Chordates in Urdu for B.Sc. First Year .1,978-97-93722-33-1

6. Fatima, M. (2022).Book Chordates in Urdu for B.Sc. First Year.1, 978-93-93722-33-1

7. Fatima, M. (2022).Physiology and Biochemistry in Urdu for B.Sc. Second Year.1, 78-93-95203-16-3

8. Fatima, M. (2022).Physiology and Biochemistry in Urdu for B.Sc. Second Year.1, 978-93-95203-16-3

9. Fatima, M. (2022).Physiology and Biochemistry in Urdu for B.Sc. Second Year. 1, 978-93-95203-16-3
10. Fatima, M. (2022).Book Physiology and Biochemistry in Urdu for B.Sc. Second Year. 1, 978-93-95203-16-3.