



Zoology Section, School of Sciences
Maulana Azad National Urdu University (Central University)
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DR. MASROOR FATIMA | ASSISTANT PROFESSOR

CURRENT DESIGNATION/**Assistant Professor (Zoology)** in Zoology Section, School of Sciences, Maulana
INVOLVEMENT Azad National Urdu University (Central University), Hyderabad, Telangana, India.

AREA OF SPECIALIZATION Ecotoxicology: Biochemical, molecular and immunological mechanisms
in aquatic animals-Fish

ONGOING ACADEMIC RESEARCH/PROJECTS No

INNOVATION WITH FIELD OF STUDY AND COLLABORATIVE EFFORTS The ecotoxicological pivotal approach includes monitoring the emerging
contaminants in freshwater impoundments and evaluation of their effects on
residing culturable fishes at different organization (Biochemical to molecular level)
using following methods:
Classical tests
Evaluation of Biomarkers
Application of “omics” techniques
Collaboration with Lucknow university (U.P.) and
National Institute of Animal Biotechnology- Hyderabad

ACADEMIC AND ADMINISTRATIVE EXPERIENCE 2014-present **Assistant Professor** (Zoology), School of Sciences,
Maulana Azad National Urdu University-Hyderabad

2010-2011 **Guest Faculty (Lecturer)**, Department of Zoology, Aligarh
Muslim University (A.M.U.), Aligarh

2005-2006 **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, Central University,
New Delhi- 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** (Honorary) Women's College, Aligarh
Muslim University, Aligarh (India)

Administrative Experiences :

Academic Coordinator- Deptt. of Zoology (2017-2019)

Examiner, Evaluator & Invigilator: From 2014-till date; Regular &
Distance Courses of B.Sc. programs-MANUU and Anwarul
Uloom College-Hyderabad

Polling officer: MANUU student's elections (2014-2017)

Residential Warden of R.S.N. Hostel (Hostel for Professional Courses of
Girl's student), Hamdard University, New Delhi-62

Residential Warden of S.N. Hall (hostel for Medical, Engineering and
Nursing Girl's student)

EDUCATIONAL **M.Phil.** and **Ph.D.:** Zoology, A.M.U., Aligarh, India.
QUALIFICATION

TEACHING PROFICIENCY

RESEARCH PUBLICATION ***Under Publication:***

DETAILS

Asima Begum Afreen, Fazle Rasool and **Masroor Fatima** (2022).
Bioactive Properties of Brown Seaweed, *Sargassum wightii*: A Review.
Asian Fisheries Science (under publication)

PUBLICATIONS:

1. **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
2. **Fatima Fatima, 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.
3. **Fatima, 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*). *J. Fish. Sci. & Technol.*, 9(1): 14-21.
4. 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.
5. **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
6. **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.
7. Raisuddin, S.; **Fatima, M.** and Ahmad, I. (2000). Environmental Chemical-Induced Immunological Stress: Its Role in Disease Development. In: *Environmental Stress: Hazards and Management*, edited by M. Iqbal, P.S. Srivastava & T.O. Siddiqui. CBS, Publ. New Delhi, pp 241-255.
8. 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.
9. 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.
10. 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.
 11. 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.
 12. 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.
 13. **Fatima, M.** and A.A. Khan (1994). Reproductive Potential of *Rhinomugil corsula* (Hamilton) Collected from the River Yamuna. *Indian J. Fish.*, 38:89-96.
 14. **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.
 15. 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.
 16. **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.
 17. **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
 18. 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.
 19. 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.

20. 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.
21. 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.

DETAILS OF **National Conferences/Seminars/Workshops:**

CONFERENCE/SEMINAR **Masroor Fatima:** Hands-on Workshop on Cell Culture Technology and
/WORKSHOP/ FDP Cytotoxic Analysis (15-17 November, 2021). Organised by ONGC
(ATTENDED/PRESENTED) Center of Advanced Studies , Lucknow University, Lucknow (U.P.)

Masroor Fatima: Webinar on National Science Day 2021 organised by School of Sciences (Zoology), MANUU-Hyderabad, 28 Feb 2021.

Masroor Fatima: Webinar on International Day of Immunology 2021 organised 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.

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”.

International Conferences/Seminars/Workshops:

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

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*) *SETAC-2006; May 7-11, Hague, Netherlands*”*The Society of Environmental Toxicology and Chemistry*)

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

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. *2004 Autumn Meeting of the Korean Society of Fish Pathology*:

Yoo-Hwa Keum, **Fatima Masroor**, Jung-Hoon Jee and Ju-chan Kang (2004). Acute response of di-(2-ethylhexyl)-phthalate on blood parameter of Bagrid catfish, *Pseudobagrus fulvidraco*. 97-98. *2004 Autumn Meeting of the Korean Society of Fish Pathology*:

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

DETAILS OF KEYNOTE **Session Chair:**

SPEAKER/RESOURCE
PERSON/ SESSION CHAIR
ETC.

1. National Urdu Science Congress organized by School of Sciences and Centre for Promotion of Knowledge in Urdu at MANUU, Hyderabad. 5th Session on Biology, 28th Feb. 2018.
2. National Urdu Science Congress organized by School of Sciences and Centre for Promotion of Knowledge in Urdu at MANUU, Hyderabad, Biology, 1st March 2019. 3rd Session
3. National Urdu Science Congress, Maulana Azad National Urdu University- Hyderabad 25-26th Feb. 2020. 6th session
4. One day Webinar on the eve of “*International Day of Immunology 2021*” sponsored by Indian Immunology Society, AIIMS, New Delhi, organized by School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 29th April 2021.
5. National Urdu Science Congress, Maulana Azad National Urdu University- Hyderabad 14-15th July 2021. 4th Session.

ACHIVEMENTS **Awarded FNRS-National Post-doctoral Fellowship** (Belgium, Europe), Department of Biology, Urbo, Facultes Universitaires Notre-dame de la Paix, 61, Rue de Bruxelles, Namur, Belgium

Senior Researcher, Department of Aquatic Life Medicine, Pukyong National University, Pusan, S. KOREA

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 (U.P.).

Involved in toxicity profile of oil samples received from “Indian oil Corporation (IOC), India on fish model.

DETAILS OF SUPERVISION (M.PHIL/M.TECH/P.HD.) 4- research students working under my guidance

PROFESSIONAL MEMBERSHIPS None

PERSONAL DETAILS **Father’s Name** : Late Mr. Mojiz Husain
Date of Birth : 25 Nov. 1960
Gender : Female
Marital Status : Married
Nationality : Indian
Language Known Urdu, English, Hindi
Etc..

Place: Hyderabad

Masroor Fatima
(*Your Full Name Here*)