Curriculum Vitae of Md. Shahjahan

Dr. Md. Shahjahan
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Elected Fellow of Bangladesh Academy of Sciences (BAS)

Date of birth : 16 August 1975

Father's Name : Md. Eunus Ali Mandal

Mother's Name : Mst. Latifa Khatun

Permanent address : Vill. - Baganbari, P.O.- Kawniar Char, Upazila- Dewanganj, District- Jamalpur

Academic Qualifications:

Name of School/College/University	Years attended		Name of the Exams.	Division, Class & Place obtained	Marks obtained	Year of obtaining degree
	From	To				
Kyushu University, Japan	October 2007	September 2010	PhD in Agricultural Science	Successful	-	2010
Bangladesh Agricultural University, Mymensingh, Bangladesh	July 1999	December 2000	M.S. in Fisheries Management	**A+** (First Class With Distinction)	81.8%	2000
Bangladesh Agricultural University, Mymensingh, Bangladesh	1992-93	1995-96	B.Sc. Fisheries (Hons)	First Class (**First Position**)	72.2%	1996 (Exam. held in 1999)
Govt. Ashek Mahmud College, Jamalpur, Dhaka	1990	1992	H.S.C. (Science)	First Division	77.4%	1992
Charne-Waji High School, Kurigram, Rajshahi Board	1985	1990	S.S.C. (Science)	First Division	78.1%	1990

Teaching and Research Experience:

Sept 27, 2014 – to date	:	Professor, Department of Fisheries Management, Bangladesh Agricultural University, Mymensingh, Bangladesh.
Sept 27, 2010 – Sept 26, 2014	:	Associate Professor, Department of Fisheries Management, Bangladesh Agricultural University, Mymensingh, Bangladesh.
Sept 25, 2005 – Sept 26, 2010	:	Assistant Professor, Department of Fisheries Management, Bangladesh Agricultural University, Mymensingh, Bangladesh.
May 20, 2004 – Sept 24, 2005	:	Lecturer, Department of Fisheries Management, Bangladesh Agricultural University, Mymensingh, Bangladesh.
Jan 24, 2001– May 19, 2004	:	Lecturer, Department of Fisheries Management, SFM Fisheries College, Melandah, Jamalpur, Bangladesh.

Acted as Head of the Department of Fisheries Management, BAU during 2017-2019

Acted as House Tutor, Ashraful Haque Hall, BAU, 10 July 2004 – 09 July 2007

Training:

(a) Foundation In Teaching - March, 2012, School of Medicine Education Unit, Jeffrey Cheah School of Medicine and Health Sciences, Monash University Sunway Campus.

(b) Project Cycle Management and TAPP - June 18 to 22, 2006, Graduate Training Institute, Bangladesh Agricultural University, Mymensingh.

(c) Teaching Methods and Techniques - January 22 to February 04, 2006, Graduate Training Institute, Bangladesh Agricultural University, Mymensingh.

(d) Scientific Report Writing - October 2 to 7, 2004, Graduate Training Institute, Bangladesh Agricultural University, Mymensingh.

(e) Statistical Methods for Agricultural Research - May 29 to June 10, 2004, Graduate Training Institute, Bangladesh Agricultural University, Mymensingh.

Fellowships/ Scholarships/ Awards:

1. Best publication award 2022 by BAU Teachers Association, 2023
2. Best publication award 2021 by BAU Teachers Association, 2022
3. Best publication award 2020 by BAU Teachers Association, 2021
4. Global research impact recognition award 2020 by BAURES, BAU, 2020
5. Best publication award 2019 by BAU Teachers Association, 2020
6. **University grants commissions (UGC)-Gold Medal award 2018 for publication**
7. Best publication award 2017 by BAU Teachers Association, 2018
8. **Bangladesh Academy of Sciences (BAS)-Gold Medal award 2015 under Biological Science group**
9. **Post-doctoral fellowship sponsored by JSPS, Faculty of Science, Niigata University, Japan, August 2014 to July 2016**
10. **University grants commissions (UGC) award 2013 for publication**
11. **Post-doctoral fellowship, Brain Research Institute, School of Medicine and Health Sciences, Monash University Sunway Campus, February 2012 to January 2013**
12. Best publication award 2011 by BAU Teachers Association, 2012
13. Best publication award 2010 by BAU Teachers Association, 2011
14. Monbukagakusho Scholarship, Ministry of Education, Culture, Sports, Science and Technology, Japan, October 2007 to September 2010
15. Professor Jinnatara Begum **Gold Medal** award for securing the second highest mark (72.15%) in the Bachelor of Science examinations among all Faculties of the Bangladesh Agricultural University, Mymensingh, 2003
16. University Prize for First Class First Position in B. Sc. Fisheries (Hons.), Bangladesh Agricultural University, Mymensingh, 2003
17. University grants commissions (UGC) award for academic merit position at undergraduate level of Bangladesh Agricultural University, 1998
18. Education Board Scholarship at HSC level, July 1992-June 1996
19. Education Board Scholarship at SSC level, July 1990- June 1992
20. Junior Secondary Scholarship, 1988-1989
21. Primary Scholarship, 1985-1987

Research Interests:

1. Aquaculture
2. Fish Ecophysiology
3. Reproductive Neuroendocrinology

Research Projects (On going)

1. Development of climate-adaptive aqua-farming for commercially important freshwater and marine fish in the face of climate change in Bangladesh, Funded by HEAT-UGC, July 2025-June 2028.
2. Bio-remediation of climate-induced sufferings in fish and development of climate resilient coastal aquaculture, Funded by BAS-USDA, July 2025-June 2028.
3. Developing Trans-boundary Management Strategies for Hilsa fishery in the Bay of Bengal region under changing climate, Funded by BOBP, July 2025-June 2027.
4. Evaluation of combined toxicity of microplastics and chromium in Nile tilapia, Funded by UGC, July 2025-June 2026.
5. Possible bioremediation of chromium and microplastics-induced sufferings in Nile tilapia *Oreochromis niloticus*, Funded by BAURES, BAU, July 2024-June 2026.

Research Projects (Completed)

1. Small scale marine cage farming involving fisher communities in Bangladesh coast. Funded by Department of Fisheries (DoF), January 2023-June 2025.
2. Microplastics in fish and fishery products: possible risk for human consumption. Funded by Ministry of Education (MoE), July 2021-June 2024.
3. Study the effects of probiotics on growth and reproduction of selected farmed fishes in Bangladesh, Funded by KGF, BARC January 2021-December 2023.
4. Residue and recovery of microplastics in Nile tilapia (*Oreochromis niloticus*) in relation to temperature and salinity, Funded by BAURES, BAU, January 2022-December 2023.
5. Impacts of salinity on growth performance of Thai pangas, *Pangasianodon hypophthalmus*, Funded by UGC, July 2022-June 2023.
6. Effects of high temperature on growth and reproduction of Nile tilapia *Oreochromis niloticus*, Funded by BAURES, BAU, July 2019-June 2021.
7. Molecular approaches to study the effects of temperature on growth and reproductive biology of rohu, *Labeo rohita*. Funded by Ministry of Education (MoE), July 2017-June 2020.
8. Effects of photoperiod on growth and reproductive biology of rohu *Labeo rohita*, Funded by BAURES, BAU, July 2017-June 2019.
9. Ecotoxicological assessment of sumithion on plankton communities by microcosm tests, Funded by UGC, July 2017-June 2019.
10. Study on quality of fish feed, brood used and fingerlings produced in commercial fish farms of Bangladesh, Funded by NATP-2, BARC, July 2017-September 2018.
11. Effects of agro-pesticides on the reproductive physiology of zebrafish (*Danio rerio*) and common carp (*Cyprinus carpio*), Funded by BFRI, July 2013-June 2015.
12. Molecular approach for giant snakehead (*Channa marulius*) breeding and development of its culture techniques for the fish farmer, Funded by IDRS-BFRI, July 2013-June 2014.
13. Induced breeding of great snakehead (gazar, *Channa marulius*) using molecular techniques, Funded by BAURES, BAU, July 2011-June 2012.

Total full scientific articles :**177** (Scopus Indexed: **137**; without SI: **40**)

- Total Impact Factor Score :**351.6** Total Citation: **5801** (h-index: **43**; i10-index: **104**)
- Google scholar - https://scholar.google.com/citations?user=MV-mpW0AAAAJ&hl=en
- World top 2% scientist in 2023, 2024 and 2025 published by Elsevier and Stanford University, USA

Publications {(*) corresponding author)}

Publications in Journals having Impact Factor (IF)

1. Diakos E, Fontaine P, Lambert S, Ledoré Y, Lambert J, Magitteri A, **Shahjahan M**, Kestemont P, Vandeputte M, Lecocq T. Aquaculture potential evolution during early domestication trials in a model species (*Danio rerio*) with different breeding strategies. ***Aquaculture***, 612, 743194; 2026. **(Elsevier; IF=3.9)**
2. Al-Emran M, Sarker A, Adib SS, Nayem MJ, Sultana T, Sadat MA, **Shahjahan M**. Microplastics pollution in aquatic ecosystems of Bangladesh – a critical review on research trends and future perspectives. ***Science of the Total Environment***, Accepted; 2025. **(Elsevier; IF=8.0)**
3. Rahman MH, Arpa CAT, Nibir SS, Anjum MS, Taslima K, **Shahjahan M**, Ferdous Z. Effect of water administrated probiotics on striped catfish (*Pangasianodon hypophthalmus*) exposed to sumithion. ***Journal of Agriculture and Food Research***, Accepted; 2025. **(Elsevier; IF=6.2)**
4. Islam N, Shahriar SIM, Noor SA, Paray BA, Zahangir MM, **Shahjahan M***. Alteration of growth, hematology, histopathology of tissues and immune-antioxidant genes expression in Nile tilapia following co-exposure of hexavalent chromium and polyamide microplastics. ***Ecotoxicology***, 34, 1300–1311; 2025. **(Springer; IF= 2.5)**
5. Taslima K, Sharna SN, Nur KF, Rahman A, Das NC, Akter J, Khatun MH, Chowdhury SM, Islam SMM, Hossain MT, Siddique MP, Khan MGQ, **Shahjahan M**, Hossain MK. Multi-strain native probiotic consortium from the Asian stinging catfish promotes growth, hematological parameters and internal organ histomorphology of the host. ***Probiotics and Antimicrobial Proteins,*** 17(4), 2476-2499; 2025. **(Springer; IF= 4.4)**
6. Shahriar SIM, Chowdhury OM, Nahid MNH, Islam M, Khan S, **Shahjahan M***. Microplastics occurrence in water, sediment and edible small indigenous fish species in seasonal freshwater wetland ecosystems of Bangladesh. ***Science of the Total Environment***, 997, 180211; 2025. **(Elsevier; IF=8.0)**
7. AKMA Hossain, Rahad MA, Anwar MB, Haque MA, Al-Emran M, **Shahjahan M***. Dietary *Spirulina platensis* alleviates sumithion-induced growth suppression, oxidative and immune stress in Nile tilapia (*Oreochromis niloticus*). ***Journal of Agriculture and Food Research***, 23, 102186; 2025. **(Elsevier; IF=6.2)**
8. Haque MA, Anwar MB, AKMA Hossain, Ahmed S, Zahangir MM, **Shahjahan M***. Co-exposure toxicity of microplastic and sumithion in Nile tilapia – changes in growth, hematology, histopathology of internal tissues and immune-antioxidant genes expression. ***Journal of Hazardous Materials Advances***, 19, 100840; 2025. **(Elsevier; IF=5.5)**
9. Sarker M, Khan S, Haque MM, **Shahjahan M**, Begum M, Reza MS. Unraveling the nutritional potential of the microalga *Scenedesmus* sp. and the zooplankton *Diaphanosoma* sp. as initial feeds for the rearing of rohu (*Labeo rohita*) larvae. ***Aquaculture International***, 33:428; 2025. **(Springer; IF= 2.2)**
10. Shahriar SIM, Islam N, Emon FJ, Nepal V, Khan S, **Shahjahan M***. Combined impacts of organophosphate pesticide and microplastics on growth, hematology, and immune responses in juvenile striped catfish (*Pangasianodon hypophthalmus*). ***Emerging Contaminants***, 11, 100520; 2025. **(Elsevier; IF=5.3)**
11. Amin M, Ahamed MT, Islam MS, Islam M, Rahman MS, Al-Emran M, **Shahjahan M***. *Spirulina platensis* supplementation remediates microplastics-induced growth inhibition and stress in Nile tilapia (*Oreochromis niloticus*). ***Journal of Hazardous Materials Advances***, 18, 100754; 2025. **(Elsevier; IF=5.5)**
12. Chakrabarty J, Islam SMM, Hossain MN, Naziat A, Zahangir MM, **Shahjahan M**. Temperature-induced expression dynamics for the stress, appetite and growth-related genes in Nile tilapia (*Oreochromis niloticus*). ***Journal of Applied Ichthyology,*** 2025, 5475569; 2025. **(Wiley; IF=0.7)**
13. Islam M, Khanom H, Islam N, Fariha F, Paray BA, Zahangir MM, **Shahjahan M***. Probiotics and *Spirulina platensis* improved growth performance of Nile tilapia (*Oreochromis niloticus*) by

upgrading intestinal morphology and activating GH/IGF axis. ***Aquaculture Research***, 2025, 1839162; 2025. **(Wiley; IF=1.9)**

14. Chakrabarty J, Naziat A, Sultana A, Mamun MMU, Akhter F, Islam MM, **Shahjahan M**, Zahangir MM. Differential response in land use pattern, haematological parameters and growth of mudskipper (*Apocryptes bato*) at different salinities. ***Regional Studies in Marine Science***, 84, 104121; 2025. **(Elsevier; IF=2.1)**
15. Ferdous Z, Chakrabarty J, Mahomud MR, Shawon RH, Ferdous T, Zahangir MM, **Shahjahan M***. Multi-species probiotics relieve high temperature-induced growth obstruction and stress on rohu (*Labeo rohita*) by activating GH/IGF axis. ***Aquaculture, Fish and Fisheries,*** 5: e70050; 2025. **(Wiley; IF=1.1)**
16. Linda SS, Islam MJ, Mou SA, Islam MH, **Shahjahan M**, Islam MS. Synbiotic supplementation boosts growth, gut health, and immunity in Asian fossil catfish (*Heteropneustes fossilis*). ***Aquaculture Research***, 2025, 4542077; 2025. **(Wiley; IF=1.9)**
17. Ferdous Z, Fariha F, Jahan N, Shahriar SIM, Hossain MK, Uddin MJ, **Shahjahan M***. Influence of multi-strain probiotics on growth, hematology, gut and liver morphometry, and GH and IGFs genes expression in rohu (*Labeo rohita*) fry. ***Aquaculture Research***, 2025, 5892568; 2025. **(Wiley; IF=1.9)**
18. Sarker M, Sumon MAI, Sultana S, Haque MM, **Shahjahan M**, Khan S. Culture of the green microalga, *Haematococcus pluvialis* in low-cost vegetable-based media prepared using rotten wax gourd (*Benincasa hispida*). ***Aquaculture International***, 33, 73; 2025. **(Springer; IF= 2.2)**
19. Hossain MM, Rahman MH, Tina FW, **Shahjahan M***. Present scenario and prospects of the use of aquatic plants in aquaculture – a review. ***Aquaculture International***, 32, 6791–6825; 2024. **(Springer; IF= 2.2)**
20. Mondal P, Hoque MS, Rahman MA, Hasan MM, Chakma S, Islam MS, **Shahjahan M**. Occurrence, characteristics, and distribution of microplastics in commercial marine fishes of the Bay of Bengal. ***Marine Pollution Bulletin,*** 208, 117020; 2024. **(Elsevier; IF=5.3)**
21. Moniruzzaman M, Khan MM, Sultana Z, **Shahjahan M**, Islam MS. Assessment of sub-lethal effects of celcron on java barb through erythrocyte morphology and acetylcholinesterase activity: implications for environmental health in aquatic ecosystems. ***Science of the Total Environment,*** 953, 176231; 2024. **(Elsevier; IF=8.2)**
22. Diakos E, Chevalier C, **Shahjahan M**, Hardy A, Lambert S, Kestemont P, Fontaine P, Pasquet A, Lecocq, T. Early impact of domestication on aggressiveness, activity, and stress behaviors in zebrafish (*Danio rerio*) using mirror test and automated video tracking. ***Scientific Reports***, 14, 21036; 2024. **(Springer; IF= 3.8)**
23. Naziat A, Islam SMM, Chakrabarty J, Paray BA, Zahangir MM, Ando H, **Shahjahan M***. Elevated temperature impairs gonadal development by suppressing the expression of the genes for kisspeptin, GnRH1 and GTH subunits in Nile tilapia *Oreochromis niloticus*. ***Comparative Biochemistry and Physiology-Part A,*** 297, 111714; 2024. **(Elsevier; IF=2.1)**
24. Zannat MM, Rohani MF, Jeba RZ, **Shahjahan M***. Multi-species probiotics ameliorate salinity-induced growth retardation in striped catfish *Pangasianodon hypophthalmus*. ***International Journal of Environmental Research***, 18, 89; 2024. **(Springer; IF= 2.6)**
25. Emon FJ, Hasan J, Shahriar SIM, Islam N, Islam MS, **Shahjahan M***. Increased ingestion and toxicity of polyamide microplastics in Nile tilapia with increase of salinity. ***Ecotoxicology and Environmental Safety***, 282, 116730; 2024. **(Elsevier; IF=6.2)**
26. Hossain MK, Naziat A, Atikullah M, Hasan MT, Ferdous Z, Paray BA, Zahangir MM, **Shahjahan M***. Probiotics relieve growth retardation and stress by upgrading immunity in Nile tilapia (*Oreochromis niloticus*) during extreme temperature events. ***Animal Feed Science and Technology***, 316, 116054; 2024. **(Elsevier; IF=2.5)**
27. Roslan NA, Sukri SAM, Wei LS, **Shahjahan M**, Rohani MF, Yea CS, Kabir MA, Guru A, Goh KW, Kallem P, Kari ZA. Replacement of fishmeal by fermented spent coffee ground: effects on growth performance, feed stability, blood biochemistry, liver, and intestinal morphology of African catfish (*Clarias gariepinus*). ***Aquaculture Reports***, 36, 102073; 2024. **(Elsevier; IF=3.2)**

28. Siddique MF, Haque MA, Barman AC, Tanu MB, **Shahjahan M**, Uddin M.J. Freshwater pearl culture in Bangladesh: Current status and prospects. ***Heliyon***, 10 (7), E29023; 2024. **(IF=3.4)**
29. Hossain MK, Naziat A, Chakrabarty J, Ashaf-Ud-Doulah M, Zahangir MM, **Shahjahan M***. Amelioration of gonadal development by increased expression of kisspeptin, GnRH and GTH subunit genes in Nile tilapia (*Oreochromis niloticus*) reared with probiotics. ***Aquaculture***, 588, 740915; 2024. **(Elsevier; IF=3.9)**
30. Jannat R, Zahangir MM, Naziat A, Islam SMM, Abdelazim AM, Mahboub HH, **Shahjahan M***. Hypoxia alters the upper thermal limits and blood physiology in zebrafish, *Danio rerio*. ***Journal of Thermal Biology***, 121, 103837; 2024. **(Elsevier; IF=2.9)**
31. **Shahjahan M**, Rahman ML, Ohno Y, Zahangir MM, Ando H. Lunar age-dependent oscillations in expression of the genes for kisspeptin, GnIH and their receptors in the grass puffer during the spawning season. ***Zoological Science***, 41(1), 97–104; 2024. **(IF=0.9)**
32. Khan HMS, Hasan J, Manik M, Farukh MA, **Shahjahan M***. Pervasiveness of microplastics in the gastrointestinal tract of some selected fishes from Turag River alongside the capital city of Bangladesh. ***Emerging Contaminants***, 10(3), 100309; 2024. **(Elsevier; IF=5.3)**
33. Al-Emran M, Zahangir MM, Badruzzaman M, **Shahjahan M***. Influences of photoperiod on growth and reproduction of farmed fishes – prospects in aquaculture. ***Aquaculture Reports***, 35, 101978; 2024. **(Elsevier; IF=3.2)**
34. Ferdous Z, Hossain MK, Hadiuzzaman M, Rafiquzzaman SM, Halim KMA, Rahman T, Faruk MAR, Kari ZA, **Shahjahan M***. Multi-species probiotic enhances survival, growth, intestinal microbiota and disease resistance of rohu (*Labeo rohita*) larvae. ***Water Biology and Security***, 3, 100234; 2024. **(Elsevier; IF=5.1)**
35. Ferdous Z, Rafiquzzaman SM, **Shahjahan M***. Probiotics ameliorate chromium-induced growth retardation and stress in Indian major carp rohu, *Labeo rohita*. ***Emerging Contaminants***, 10 (2), 100291; 2024. **(Elsevier; IF=5.3)**
36. Hossain MK, **Shahjahan M*,** Kari ZA, Téllez-Isaías G. Trends in the use of probiotics in aquaculture of Bangladesh – present state, problems and prospects. ***Aquaculture Research***, 2023, 5566980; 2023. **(Wiley; IF=1.9)**
37. Sohel AM, **Shahjahan M***, Hossain MK, Sumi KR, Hossain MS, Kari ZA, Tahiluddin AB, Wei LS, Goh KW. Effects of multispecies probiotics on growth, hematology, and gut health of stinging catfish (*Heteropneustes fossilis*) in biofloc system. ***Water***, 15, 2519; 2023. (**MDPI; IF= 3.0**)
38. Kari ZA, Goh KW, Mat K, Ishak AR, Dom NC, Abdel-Warith AA, Khoo MI, Hamid NKA, Davies SJ, Rohani MF, **Shahjahan M**, Kabir MA, Wei LS. Effect of fish meal substitution with Black Soldier Fly (*Hermetia illucens*) on growth performance, feed stability, blood biochemistry, liver and gut morphology of Siamese fighting fish (*Betta splendens*). ***Aquaculture Nutrition***, Accepted; 2023. **(Wiley; IF=3.0)**
39. Emon FJ, Rohani MF, Sumaiya N, Jannat MFT, Akter Y, **Shahjahan M***, Kari ZA, Tahiluddin AB, Goh KW. Bioaccumulation and bioremediation of heavy metals in fishes – a review. ***Toxics***, 11, 510; 2023. (**MDPI; IF=3.9**)
40. Hasan J, Dristy EY, Anjumanara, Mondal P, Hoque MS, Sumon KA, Hossain MAR, **Shahjahan M***. Dried fish more prone to microplastics contamination over fresh fish - higher potential of trophic transfer to human body. ***Ecotoxicology and Environmental Safety***, 250, 114510; 2023. (**Elsevier; IF=6.2)**
41. Ritu J, Ambati RR, Ravishankar GA, **Shahjahan M**, Khan S. Utilization of astaxanthin from microalgae as a feed supplement in aquaculture and poultry industry: An overview. ***Journal of Applied Phycology***, 35(1), 145–171; 2023. (**Springer; IF=3.3**)
42. Hasan J, Abedin MA, Alam SI, Hasan MK, Hosenuzzaman M, Mahamud R, **Shahjahan M***. Microplastics contamination of the coastal hill soils: perspective of Rohingya Refugee camps in Bangladesh. ***Soil and Sediment Contamination***: ***An International Journal***, 32(4), 448–459; 2022. (**IF=3.1**)
43. Billah SM, Sumi KR, Howlader S, Sarkar S, Ferdous Z, Islam SMM, **Shahjahan M**. Effects of

supplemental L-methionine for total replacement of fish meal by soybean meal on growth, feed utilization, and health status of stinging catfish, *Heteropneustes fossilis* fry. ***Aquaculture, Fish and Fisheries***, 2(5), 355-363; 2022. **(Wiley; IF=1.1)**

44. Hossain MK, Islam SMM, Rafiquzzaman SM, Nuruzzaman M, Hossain MT, **Shahjahan M***. Multi-species probiotics enhance growth of Nile tilapia (*Oreochromis niloticus*) through upgrading gut, liver and muscle health. ***Aquaculture Research***, 53 (16), 5710-5719; 2022. **(Wiley; IF=1.9)**
45. Rohani MF, Bristy AA, Hasan J, Hossain MK, **Shahjahan M***. Dietary zinc in association with vitamin-E promotes growth performance of Nile tilapia. ***Biological Trace Element Research***, 200, 4150–4159; 2022. **(Springer; IF=3.4)**
46. Hadiuzzaman M, Moniruzzaman M, **Shahjahan M**, Bai SC, Min T, Hossain Z. Beta-glucan: Mode of action and uses in fish immunomodulation. ***Frontiers in Marine Science,*** 9, 905986; 2022. **(Frontiers; IF=2.8)**
47. Zahangir MM, **Shahjahan M,** Ando H. Kisspeptin exhibits stimulatory effects on expression of the genes for kisspeptin receptor, GnRH1 and GTH subunits in the grass puffer, a semilunar-synchronized spawner. ***Frontiers in Endocrinology***, 13, 917258; 2022. (**Frontiers; IF=3.9**)
48. **Shahjahan M***, Islam MJ, Hossain MT, Mishu MA, Hasan J, Brown C. Blood biomarkers as diagnostic tools: An overview of climate-driven stress responses in fish. ***Science of the Total Environment,*** 843, 156910; 2022. **(Elsevier; IF= 8.2)**
49. Islam SMM, Akhter F, Jahan I, Rashid H, **Shahjahan M***. Alterations of oxygen consumption and gills morphology of Nile tilapia acclimatized to extreme warm ambient temperature. ***Aquaculture Reports***, 23, 101089; 2022. **(Elsevier; IF=3.2)**
50. Hasan J, Islam SMM, Alam MS, Johnson D, Belton B, Hossain MAR, **Shahjahan M***. Presence of microplastics in two common dried marine fish species from Bangladesh. ***Marine Pollution Bulletin***, 176, 113430; 2022. **(Elsevier; IF=5.3)**
51. Hossain F, Islam SMM, Islam MS, **Shahjahan M***. Behavioral and histo-pathological indices of striped catfish (*Pangasionodon hypophthalmus*) exposed to different salinities. ***Aquaculture Reports***, 23, 101038; 2022. **(Elsevier; IF=3.2)**
52. Sarkar MM, Rohani MF, Hossain MAR, Shahjahan M*. Evaluation of heavy metal contamination in some selected commercial fish feeds used in Bangladesh. ***Biological Trace Element Research***, 200, 844-854; 2022. **(Springer; IF=3.4)**
53. Rohani MF, Islam SMM, Hossain MK, Ferdous Z, Siddik MAB, Nuruzzaman M, Padeniya U, Brown C, **Shahjahan M***. Probiotics, prebiotics and synbiotics improved the functionality of aquafeed: upgrading growth, reproduction, immunity and disease resistance in fish. ***Fish and Shellfish Immunology***, 120, 569-589; 2022. **(Elsevier; IF= 4.1)**
54. Hossain F, Islam SMM, Ashaf-Ud-Doulah M, Ali MS, Islam MS, Brown C, **Shahjahan M***. Influences of salinity on embryonic and larval development of striped catfish *Pangasionodon hypophthalmus*. ***Frontiers in Marine Science***, 8, 781951; 2021. **(Frontiers; IF=2.8)**
55. Siddik MAB, Pham HD, Francis DS, Vo BV, **Shahjahan M.** Dietary supplementation of fish protein hydrolysate in high plant protein diets modulates growth, liver and kidney health, and immunity of barramundi (*Lates calcarifer*). ***Aquaculture Nutrition***, 27, 86-98; 2021. **(Wiley; IF=3.0)**
56. **Shahjahan M***, Islam SMM, Bablee AL, Siddik MAB, Fotedar R. Sumithion usage in aquaculture: benefit or forfeit? ***Reviews in Aquaculture***, 13(4), 2092-2111; 2021. **(Wiley; IF=8.8)**
57. Akter S, Jahan N, Rohani MF, Akter Y, **Shahjahan M***. Chromium supplementation in diet enhances growth and feed utilization of striped catfish (*Pangasianodon hypophthalmus*). ***Biological Trace Element Research,*** 199, 4811-4819; 2021. **(Springer; IF=3.4)**
58. Suchana SA, Ahmed MS, Islam SMM, Rahman ML, Rohani MF, Ferdusi T, Ahammad AKS, Fatema MK, Badruzzaman M, **Shahjahan M*.** Chromium exposure causes structural aberrations of erythrocytes, gills, liver, kidney and genetic damage in striped catfish *Pangasianodon hypophthalmus*. ***Biological Trace Element Research***, 199, 3869–3885; 2021. **(Springer; IF=3.4)**

59. Jahan N, Islam SMM, Rohani MF, Hossain MT, **Shahjahan M***. Probiotic yeast enhances growth performance of rohu (*Labeo rohita*) through upgrading hematology, and intestinal microbiota and morphology. ***Aquaculture***, 545, 737243; 2021. **(Elsevier; IF=3.9)**
60. Islam SMM, Rohani MF, **Shahjahan M***. Probiotic yeast enhances growth performance of Nile tilapia (*Oreochromis niloticus*) through morphological modifications of intestine. ***Aquaculture Reports***, 21, 100800; 2021. (**Elsevier; IF=3.2)**
61. Rahman ML, **Shahjahan M**, Ahmed N. Tilapia farming in Bangladesh: Adaptation to climate change. ***Sustainability,*** 13, 7657; 2021. **(MDPI; IF= 3.3)**
62. **Shahjahan M***, Zahangir MM, Islam SMM, Ashaf-Ud-Doulah M, Ando H. Higher acclimation temperature affects growth of rohu (*Labeo rohita*) through suppression of GH and IGFs genes expression actuating stress response. ***Journal of Thermal Biology,*** 100, 103032; 2021. **(Elsevier; IF=2.9)**
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Supervisor of MS students

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2. Md Ahsanul Haque. Co-exposure effects of PA-MPs and sumithion on hematology, histopathology of gills and immune-antioxidant gene expression in Nile tilapia (*Oreochromis niloticus*). 9/2025
3. Mobassir Bin Anwar. Co-exposure effects of PA-MPs and sumithion on growth and intestinal morphology in Nile tilapia (*Oreochromis niloticus*). 9/2025
4. Mst. Mahfuja Akhter Sweety. Unveiling the role of probiotics in microplastics-induced growth retardation in Nile tilapia (*Oreochromis niloticus*). 9/2025
5. Md. Abu Yousof. Nursing of Asian seabass (*Lates calcarifer*) for freshwater aquaculture. 9/2025
6. Mahadi Amin. Unveiling the role of probiotics in mitigation of microplastics toxicity in Nile tilapia. 3/2025

7. Md. Tofail Ahamed. Bioremediation of microplastic toxicity by spirulina platensis in Nile tilapia. 3/2025
8. Omor Mohammed Chowdhury. Abundance of microplastics in fresh and dried fishes collected from the haor of Bangladesh. 3/2025
9. Naimul Islam. Evaluation of combined toxicity of chromium and microplastic in Nile tilapia (*Oreochromis niloticus*). 9/2024
10. Muallimul Islam. Probiotics and Spirulina platensis improved growth performance of Nile tilapia by upgrading intestinal morphology and activating GH/IGF axis. 9/2024
11. Rakib Hossain Shawon. Exploring the role of probiotics in mitigating high temperature-induced growth retardation in rohu, *Labeo rohita*. 9/2024
12. Md Rasel Mahomud. Effects of probiotics in thermal stress recovery in rohu, *Labeo rohita*. 9/2024
13. Farhan Jamil Emon. Effects of Salinity on Ingestion and Toxicity of Polyamide Microplastics in Nile tilapia. 3/2024
14. Md. Abdullah Al Hadi. Effects of salinity on haemato-biochemical parameters and histopathology of different organs of Nile tilapia. 3/2024
15. Md. Abdur Rayhan. Role of probiotics to mitigate chromium–induced growth retardation in Nile tilapia (*Oreochromis niloticus*). 3/2024
16. Abid Al Imran. Bioremediation of chromium toxicity using probiotics in Nile tilapia (*Oreochromis niloticus*). 3/2024
17. Khalid Bin Quaium. Changes in haemato-biochemical parameters and histomorphology of gills and liver in rohu (*Labeo rohita*) exposed to chromium. 3/2024
18. Md. Kausar Zaman. Growth performance, hematology and liver morphometry of gulsha (*Mystus cavasius*) reared with probiotics in pond. 3/2024
19. Ashik Kumar Ghosh. Effects of temperature on ingestion of microplastics in Nile tilapia. 9/2023
20. Md. Abubakkar Siddik. Effects of temperature on toxicity of microplastics in Nile tilapia. 9/2023
21. Md. Abdul Gaffar. Effects of probiotics on growth, survival, and intestinal morphometry of gangetic mystus (*Mystus cavasius*). 9/2023
22. Md. Meftahul Zannat. Role of probiotics on salinity stress recovery in Thai pangas. 9/2023
23. Habiba Khatun. Changes in hematobiochemical parameters and liver morphology of Indian major carp mrigal *Cirrhinus cirrhosis* reared with probiotics. 3/2023
24. Md. Mohidul Islam Shuvo. Effects of selective probiotics on plankton communities in gulsha culture ponds. 3/2023
25. Ismat Jahan. Alterations of oxygen consumption and gills morphology of Nile tilapia acclimatized to extreme warm ambient temperature. 3/2023
26. Evana Yesmin Dristy. Microplastics contamination of hairfin anchovy (*Setipinna phasa*) from the Bay of Bengal. 3/2023
27. Jabed Hasan. Abundance of microplastics in commercial dried fish from the Bay of Bengal. 9/2022
28. Shams Binte Abi Rabiya. Histopathological responses and recovery in gills and liver of Nile tilapia exposed to diesel oil. 9/2022
29. Fouzia Fariha. Effects of probiotics on growth and intestinal morphology of rohu, *Labeo rohita*. 9/2022
30. Abdul Mazid Sohel. Effects of selective probiotics on growth performance of stinging catfish (*Heteropneustes fossilis*) in biofloc system. 9/2022
31. Zabin Tasmin Mim. Effects of multi-species probiotics on growth, intestinal microbiota and morphology of Indian major carp mrigal *Cirrhinus cirrhosis*. 9/2022
32. Asma Akter Bristy. Effects of zinc and vitamin E supplementation in diet on growth performance of Nile tilapia (*Oreochromis niloticus*). 3/2022
33. Mehedi Hasan. Biodiversity of fishes used in fish drying in Bangladesh. 6/2021
34. Md. Atikullah, Effects of probiotics supplementation on high temperature induced alterations of hematobiochemical parameters in Nile tilapia (*Oreochromis niloticus*), 6/2021
35. Rayeda Jannat. Upper thermal limits and blood physiology in zebrafish, *Danio rerio* under normoxia and hypoxia. 12/2020
36. Nusrat Jahan. Effects of probiotic yeast on growth performance of rohu, *Labeo rohita*. 12/2020
37. Md Shaker Ahmed. Histopathological changes in gills, liver and kidney of Thai pangas (*Pangasianodon hypophthalmus*) exposed to sub-lethal doses of chromium. 12/2020
38. Shahana Akter. Effects of dietary chromium supplementation on growth and feed utilization in

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39. Anamul Haque. Toxicity to sumithion on embryonic and larval development of zebrafish, *Danio rerio*. 6/2020
40. Md. Naim Hasan. Study of high temperature tolerance of Nile tilapia (*Oreochromis niloticus*) under normoxia and hypoxia. 6/2020
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43. Seyed Akib Zabed. Acute effects of chromium on hematological parameters and morphology of erythrocytes in Thai pangas Pangasianodon hypophthalmus. 6/2020
44. Md. Touhidul Islam. Acute effects of sumithion on hematological parameters and blood morphology of Nile tilapia (*Oreochromis niloticus*). 6/2020
45. Saad Abu Wakkas. Impacts of food and habitat on blood profile of rohu (Labeo rohita); 6/2020
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49. Isa Talukder. Effects of feeding on growth performance of common carp and Nile tilapia in rice-fish integrated farming system. 12/2019
50. SM Majharul Islam. Change in morphology of erythrocytes and leucocytes in rohu *Labeo rohita* exposed to high temperature. 6/2019.
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55. Rizvy Ibne Mahmud. Ornamental fish business in Bangladesh: Present status and future trends. 12/2018.
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Co-supervisor of MS students

72. Md. Nazmul Huda Nahid. Abundance of microplastics in commercial fresh and dried fish from the chalan beel. 3/2025
73. Mushreka Rahman Lima. Unveiling the role of spirulina in microplastics-induced growth retardation in Nile tilapia (*Oreochromis niloticus*). 3/2025
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75. Mst Sumaiya Naznin Dipty. Assessment of water quality parameters, phytoplankton communities and their relation in the Teesta River at kaunia, Rangpur. 3/2025
76. Mst Nusrat Jahan. Unveiling the role of spirulina (*Spirulina platensis*) on sumithion induced growth retardation in striped catfish (*Pangasianodon hypophthalmus*). 3/2025
77. SKY Ahmed Alvi. Plankton abundance response to synbiotics in coastal black tiger shrimp (*Penaeus monodon*) ponds of Bangladesh. 3/2025
78. Most. Sanjida Sultana. Enhancement of growth and survival of *Catla catla* larvae through feeding cultured microalgae (*Chlorella* sp. and *Desmodesmus* sp.) and zooplankton. 9/2024
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86. Md. Abdul Aziz. Temporal variation in condition index and percentage edibility of freshwater mussels, *Lamellidens corrianus* (lea, 1834) from different habitats of Mymensingh, Bangladesh. 9/2023
87. Md. Sayem Ahmed. Culture of the green alga *Haematococcus pluvialis* in kitchen waste media for rearing zooplankton and fish larval Bangladesh Agriculture University. 9/2023
88. Arafat Hossain Galib. Effects of microplastics on blood physiology of Nile tilapia under different salinity levels. 9/2023
89. Md Saiful Islam. Study of probiotics in the commercial fish farms in Mymensingh region. 3/2023
90. Re-One Zannat Jeba. Effects of probiotics on salinity-induced growth retardation in Thai pangas. 3/2023
91. Nusrat Jahan Nolock. Changes in hematobiochemical parameters and liver morphology of rohu (*Labeo rohita*) reared with probiotics. 9/2022
92. Anjumanara. Isolation, identification and quantification of microplastics in ribbon fish *Trichiurus lepturus* from the Bay of Bengal. 9/2022
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94. Syed Rubaiyat Ferdous. Prevalence of microplastics in commonly consumed fish species from the river Old Brahmaputra, Bangladesh. 9/2022

95. Zakiya Taharat. Effects of probiotics on temperature-induced growth retardation in Nile tilapia. 9/2022
96. HM Shahnewaz Khan. Pervasiveness of microplastics in the gastrointestinal tract of some selected fishes from Turag River alongside the capital city of Bangladesh. 9/2022
97. Sumaiya Binte Ayesha. Trial of spirulina and black against temperature –induced haematological stress for Nile tilapia (*Oreochromis niloticus*). 3/2022
98. Tamanna Tarin. Vitamin-E supplementation in diet enhances growth performance of Nile tilapia, 3/2022
99. Umme Khadiza Noon. Extreme ambient warm temperature alters upper thermal limits of Nile tilapia. 3/2022
100. AKM Munzurul Hasan. Response and recovery of Nile tilapia exposed to diesel oil; behavioral, hemato-biochemical and morphological changes of erythrocytes. 3/2022
101. Md Ashfaq Sadat. Reproductive cycle of *Puntius gonionotus* from Rajdhala beel.12/2021
102. Probal Roy. Study of probiotics in the commercial fish farms in Cumilla region. 6/2021
103. Al-Amin. Histopathological alterations in the gonad and liver of banded gourami (*Trichogaster fasciata*) exposed to acetamiprid and dimethoate insecticides. 6/2021
104. Progga Paromita Kundu. Isolation and culture astaxanthin producing green micro alga *Haematococcus* sp in digested rotten tomato supernatant. 6/2021
105. Most. Amena Begum. Effects of probiotic yeast on hemato-biochemical parameters and histopathology of liver in Nile tilapia, *Oreochromis niloticus*. 12/2020
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107. Sishir Biswas. Brooding pattern and glochidia discharge in freshwater mussel *Lamellidens marginalis* collected from Darikathal Beel, Trishal, Mymensingh. 12/2020
108. Md. Anwar Sadat. Acute effects of sumithion on blood glucose and histopathology of liver and kidney of Nile tilapia (*Oreochromis niloticus*); 6/2020
109. Md. Tarikul Islam. Acute effects of chromium on blood glucose and histopathology of liver and kidney in Thai pangas *Pangasianodon hypophthalmus*. 6/2020
110. Bepasha Parvin. Effects of high temperature on growth and gill morphology of rohu (*Labeo rohita*). 6/2020
111. Md. Towhidul Islam. Comparative shell morphology of freshwater mussel *Lamellidens marginalis* collected from different habitats of Bangladesh. 6/2020
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113. Solaiman Bin Habib. Toxicity of thiamethoxam, tricyclazole and penoxsulam on *Diaphanosoma* sp. 12/2019
114. Sultana, Rabaya. Effects of high temperature on growth performance of Nile tilapia.12/2019
115. S.M. Abdul Baten. Effects of light on reproductive function of rohu, *Labeo rohita*. 12/2019
116. Md. Alamgir Hosen. Effects of stocking density on growth performance of tilapia and carp in integrated rice fish farming system. 12/2019
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120. Md. Tarequl Islam. Impacts of climate induced salinity intrusion on histopathology of internal organs of striped gourami (*Trichogaster fasciata*). 6/2019
121. Md. Ruhul Amin Dewan. Effects of salinity on gill histopathology of Thai pangus *Pangasianodon hypophthalmus*. 6/2019
122. Most. Maksuda Akter. Estimation of annual egg production of fringescale sardinella fimbriata (valenciennes, 1847) in the Bay of Bengal. 6/2019
123. Nazrul Islam. Dose optimization with ovaprim super hormone for induced breeding of freshwater gang magur *Hemibagrus menda* (Hamilton 1822). 12/2018
124. Mun, Mim Mostarin. Effects of high temperature on hematological parameters in common carp *Cyprinus carpio*. 12/2018.
125. Md. Zahid Hasan. Dose optimization of Ovatide for induced breeding of freshwater Gangmagur *Hemibagrus menoda* (Hamilton 1822). 12/2018

126. Md. Atiqur Rahman. Determination of spawning seasons of endangered menoda catfish, *Hemibagrus menoda* (Hamilton, 1822) from kangsha river in Netrakona District. 12/2018.
127. Bishjit Chandra. Estimation of monthly changes in population size of freshwater pearl mussel (*Lamellidens marginalis*) using quadrat method at Borobilarpar, Mymensingh. 6/2018
128. Sayed Abdulah Omar Faruk. Embryonic and larval development of gang magur (*Hemibagrus menoda*). 6/2018
129. Jamil. Present Status of Fish Biodiversity and Fisher Livelihood of Habullah baor at Bagherpara Upazilla Under Jessore District. 6/2018
130. Most. Sabia Khatun. Effects of temperature on blood glucose and peripheral erythrocyte structures in common carp (*Cyprinus carpio*). 6/2018.
131. Md Helal Uddin. Effects of pyrethroid pesticide cypermethrin on the gonads of Gangetic mystus. 12/2017
132. Md Al-Emran. Effects of photoperiod on growth and hematological parameters of ruhu, *Labeo rohita*. 12/2017.
133. Mitun Kumar Pramanik. Abundance of aquatic weeds in relation to environmental factors in a lentic habitat. 12/2017
134. Victor Bain. Effects of high temperature on blood glucose and hematological parameters in Thai pangas (*Pangasianodon hypophthalmus*). 12/2017.
135. Chayan Chandra Sarker. Toxicity of agro-pesticide cypermethrin and its effects on histological change of kidney in *Mytus tengara*. 12/2016
136. Muhammad Amir Hossain. Present status of fish biodiversity in some selected areas of Meghna River. 12/2016
137. Sabrina Hossain. Effects of sumithion on hematological parameters and hepatic organ in common carp. 6/2015.
138. Sk. Istiaque Ahmed. Impacts of sumithion on hematological parameters and histo-architecture of intestine and gonad in zebrafish. 6/2015.
139. Md. Imran Hossain. Fisheries resources and management of chatal beel, Jamalpur. 12/2014
140. Surijit Parial. Toxicity of sumithion on embryonic and larval development in zebrafish, *Danio rerio*. 12/2014.
141. Mst. Shamima Akter. Culture of *Euglena sp.* in different culture media. 12/2014.
142. T.H. Majumder. Effects of population density on growth and production of tilapia in monoculture. 12/2014.
143. Hossain, M.T. Effects of artificial feeding on growth and production of fishes in polyculture. 12/2014.
144. Md Rashedur Rahman. Effects of Stocking Density on Growth and Production of Thai Sharpunti (*Barbonymus gonionotus)* in Ponds at Valuka, Mymensingh. 6/2014.
145. Hiron Mia. Availability of fishes and their marketing in the Pultakanda fish landing center, Boirob, Kishoreganj. 6/2014.
146. Khan, A.S. Effects of different amounts of artificial feeds on growth and production of fishes in mixed culture. 12/2013.
147. Morshed, M.G. Scenario of the fish hatchery in the North-Eastern part of Bangladesh. 12/2013.
148. Islam, M.Z. Status of fisheries resources and socioeconomic condition of fish farmers at Atrai upazila under Naogaon district. 12/2013.
149. Abdulla-al-Hasan. Availability and marketing of fishes in three different markets of Barisal. 12/2013.
150. Bornali, J.J. Present status of fisheries and socio-economic condition of fishers' community in the Eshuila beel at Gouripur upazila under Mymensingh district. 12/2013.
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156. Hossain, M.A. Present status of conservation and management of sea turtle in Cox's bazar district, Bangladesh. 12/2011.

157. Aktaruzzaman, M. Growth and survival of *Macrobrachium rosenbergii* with carps at different densities in Habiganj district. 12/2011.
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159. Fakir, M.A. Present status of fisheries and socio-economic condition of fish farmers of Bera Thana, Pabna district. 6/2007.
160. Islam, M.N. Present status and impacts of aquaculture practices in Jamalpur district. 6/2007.
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Supervisor of PhD students

1. Md. Shafiul Alam. Exploring the potential of rohu (*Labeo rohita*) in coastal aquaculture. October 2025 to September 2028.
2. Md. Mokhlasur Rahman. Mitigation of extreme warm temperature-induced sufferings on growth and reproductive biology of Nile tilapia, *Oreochromis niloticus*. July 2025 to June 2028.
3. Muhammad Badrul Alam Shaheen. Development of culture methodology for the Asian seabass (*Lates calcarifer*) in the face of climate change in Bangladesh. July 2025 to June 2028.
4. Solaiman Bin Habib. Bio-remediation of climate-induced sufferings and promote to coastal aquaculture of striped catfish, *Pangasianodon hypophthalmus*. July 2025 to June 2028.
5. Md. Sarower-E-Mahfuj. Study of the protective effects of probiotics and spirulina on climate-induced sufferings in the rohu *Labeo rohita*. July 2024 to June 2027.
6. Wahidul Abrar. Exploring the potential of Asian seabass (*Lates calcarifer*) in freshwater aquaculture. July 2023 to June 2027.
7. Sheik Istiak Md Shahriar. Occurrences of microplastics in inland open waterbodies and aquaculture, and its effects on physiology of striped catfish *Pangasianodon hypophthalmus*. July 2022 to June 2025.
8. Zannatul Ferdous. Role of probiotics on growth, disease resistance and stress recovery in Indian major carp rohu, *Labeo rohita*. August 2021 to July 2024.
9. SM Majharul Islam. Effects of high temperature on growth and reproductive functions of Nile tilapia *Oreochromis niloticus*. December 2020 to June 2024.
10. Md Kabir Hossain. Characterization of selected probiotics and their impacts on growth and reproductive functions of Nile tilapia. December 2020 to November 2023.
11. Farzana Hossain. Effects of salinity on growth and gonadal development of Thai pangas *Pangasianodon hypophthalmus*. October 2019 to September 2022.
12. Mohammad Ashaf-ud-Doulah. Effects of temperature on growth and reproductive biology of rohu, *Labeo rohita*. April 2018 to March 2021.
13. Md. Moazzem Hossain. Emerging aquaculture system development in the inundated low-laying agriculture land in the coastal region of Bangladesh. January 2018 to December 2020.
14. Mohammad Shadiqur Rahman. Efficacy of sumithion on plankton population and fish larvae in aquaculture ponds. March 2017 to February 2020.
15. Mohammad Lutfar Rahman. Functional analysis of gonadotropin-inhibitory hormone (GnIH) system in the lunar-synchronized spawning in grass puffer, *Takifugu niphobles*. September 2016 to August 2019.

Co-supervisor of PhD students

16. Flura, Seasonal variations in condition, reproductive activity and gross biochemical composition of freshwater unionid mussels (*Lamellidens* spp.) collected from Darikathal Beel, Mymensingh, Bangladesh. July 2024 to June 2027.
17. Md Milon Sarker, Mass culture of nutritious green microalgae and its utilization in sustainable fish culture. April 2023 to March 2026.
18. Md. Moniruzzaman. Multi-level integrative biomarkers and its recovery patterns in a freshwater teleost, silver barb exposed to profenofos. January 2018 to December 2023.
19. Sadia Salam. Application of synbiotics on growth and development of immune system in stinging catfish (*Heteropneustes fossilis*). January 2020 to December 2023.

20. Mst Shamima Yeasmin. Impacts of fishing ban on species diversity, hilsa production and socioeconomic status of hilsa fishers. October 2019 to September 2023.
21. Mohammad Ferdous Siddiki. In vivo and in vitro pearl production using freshwater pearly mussels (*Lamellidens marginalis*). October 2019 to September 2023.
22. Ibrahim Shehu Jega. Reproductive biology, induced breeding and fry nursing techniques of the Menoda catfish, *Hemibagrus menoda*, (HAMILTON, 1822). September-2015 to August 2018.
23. Farhana Haque. Effects of pH on the stress responses in zebrafish (*Danio rerio*). September-2013 to August 2019.

Membership and activities in professional associations:

Membership	*Reviewer*
• Japan Society of Zoological Science • Japan Society of Comparative Endocrinology • Bangladesh Fisheries Research Forum (BFRF) • Bangladesh Fisheries Society (BFS) • Japanese Society for Promotion of Science (JSPS) Alumni Association • Japan Universities Alumni Association in Bangladesh	1. Aquaculture 2. Aquaculture Reports 3. Aquaculture Research 4. Aquaculture, Fish and Fisheries 5. Biological Trace Element Research 6. Chemosphere 7. Ecotoxicology and Environmental Safety 8. Environmental Science and Pollution Research 9. Fish Physiology and Biochemistry 10. Journal of Aquatic Animal Health 11. Journal of Hazardous Materials 12. Journal of Thermal Biology 13. Science of the Total Environment

Referee

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