

Academic Publications

(Published more than 70 articles in international and national peer reviewed journals)

1. Datta, S. K., Ahmed, S., & **Ahmed, M. S.** (2024). Geographical range extension of two penaeid shrimp *Penaeus pulchricaudatus* Stebbing, 1914 and *Kishinouyepeneaeopsis incisa* (Wang & Liu in Liu & Wang, 1987) in Bangladesh waters. *Dhaka University Journal of Biological Sciences*, 33(2), 111-117. <https://doi.org/10.3329/dujbs.v33i2.75843>
2. Jannat, K. N. E., Datta, S. K., **Ahmed, M. S.**, & Begum, M. (2024). *Culex pipiens* complex with three new Records in Bangladesh: A new challenge to the elimination of Lymphatic filariasis. *Bangladesh Journal of Zoology*, 52(1), 95-110.
3. Haque, W., Enam, S., Islam, M. T., Datta, S. K., & **Ahmed, M. S.** (2024). Morphometric and DNA-based identification of horseshoe crab *Carcinoscorpius rotundicauda* (Latreille, 1802) and *Tachypleus gigas* (Müller, 1785) from Bangladesh coast. *Bioresearch Communications-(BRC)*, 10(02), 1489-1494.
4. **Ahmed, M. S.**, Arfin, N. A., Mahjabin, M., & Datta, S. K. (2024). Proximate Composition and Mineral Content of Edible Cuttlefish (*Sepiella Inermis*), Squid (*Uroteuthis Duvauceli*) and Octopus (*Cistopus Taiwaneseus*) of Bangladesh. *Bioresearch Communications-(BRC)*, 10(01), 1420-1423.
5. Mitu, F. A., Snigdha, S.S., Surma, A. A., Karim, M. A. and **Ahmed, M. S.** (2023). Gut bacteria of snakeheads of Chinadi Beel, Narsingdi and their antibiogram profile. *Bangladesh J. Bot.* 52(2): 297-306. <https://doi.org/10.3329/bjb.v52i2.67027>
6. Sehrin, S., Kabir, N., Sarker, A., Chowdhury, M., Bakia, M. A. and Ahmed M. S. (2023). Parasite diversity and histopathological changes due to infection on three croakers (*Pennahia anea*, *Panna microdon* and *Johnius argentatus*) of Saint Martin's Island, Bay of Bengal. *Bioresearch Communications* 9(2): 1297-1304. <https://doi.org/10.3329/brc.v9i2.67081>
7. Mahjabin, M., Tasnim, Z., Datta, S.K., Haque, W. and **Ahmed, M. S.** (2023). DNA barcoding and phylogenetic analysis of some gastropod molluscs (Class-Gastropoda) from three ecological habitats of Bangladesh. *Bioresearch Communications* 9(2): 1305-1309. <https://doi.org/10.3329/brc.v9i2.67082>
8. Arfin, N.A., Barua, A., Datta, S. K., Ahmed, S. and **Ahmed, M. S.** (2023). Genetic Diversity of Cephalopods (Mollusca: Cephalopoda) from Bangladesh Waters Based on COI and 16S rRNA Genes. *Thalassas: An International Journal of Marine Sciences*. <https://doi.org/10.1007/s41208-023-00535-8>
9. **Ahmed, M. S.**, Datta, S. K., Saha, T., Antu, D. R., Barua, A., & Ahmed, S. (2023). New record of slipper lobster *Thenus indicus* Leach, 1816 (Crustacea: Decapoda: Scyllaridae) from Bangladesh waters. *Dhaka University Journal of Biological Sciences*, 32(1), 11-19. <https://doi.org/10.3329/dujbs.v32i1.64186>
10. Antu, D.R., Islam, T.T., Ahmed, M.R., Ahmed, S., Datta, S.K. and Ahmed, M.S. 2023. Diversity of bivalves and gastropods in Sonadia island, Bangladesh. *Bioresearch Communications* 9(1): 1225-1236. <https://doi.org/10.3329/brc.v9i1.63603>
11. Islam, N.N., Sajib, A. A., Islam, M.S. and Ahmed, M.S. 2022. Molecular identification of snakes from cast-off skin based on COI marker in Bangladesh, *Herpetology Notes*, 15: 699-709. <https://www.biotaxa.org/hn/article/view/70424>
12. **Ahmed, M. S.**, Barua, A., Datta, S., Saha, T., Antu, D.R. and Ahmed, S. 2022. Characterization of spiny lobsters from Bangladesh waters using morphology, COI and 16S rRNA sequences. *Heliyon* 8(2): e08846
13. **Ahmed, M. S.**, Islam, N.N., Akter, J.B.M.A and Sanzida, N.J. 2021. DNA barcoding of Smiliogastrinae (Teleostei: Cypriniformes) of Bangladesh based on cytochrome c oxidase subunit I (COI) sequences. *Zoology and Ecology* 31(2): 67-78.
14. Hossain, Z., Sanzida, N. J., Akhand, A. A. and **Ahmed, M. S.** 2021. DNA barcoding of threatened fishes of Bangladesh. *Bioresearch Communications* 7(2): 990-998. <https://doi.org/10.3329/brc.v7i2.54373>

15. Barua, A., Afrin, T., Akhand, A. A., **Ahmed, M. S.** 2021. Molecular characterization and phylogenetic analysis of crabs (Crustacea: Decapoda: Brachyura) based on mitochondrial COI and 16S rRNA genes. *Conservation Genetics Resources* 13(3): 291-301. <https://doi.org/10.1007/s12686-021-01212-9>
16. **Ahmed M. S.**, Datta, S. K., Saha, T. and Hossain, Z. 2021. Molecular characterization of marine and coastal fishes of Bangladesh through DNA barcodes. *Ecology and Evolution* 11:3696– 3709. <https://doi.org/10.1002/ece3.7355>
17. **Ahmed, M. S.** , Afrin and Barua, A. 2021. New distributional record of *Charybdis japonica*, *Coenobita violascens*, *Galene bispinosa*, and *Portunus reticulatus* (Crustacea: Decapoda) from Bangladesh waters of the Bay of Bengal. *Regional Studies in Marine Science* 44:
18. **Ahmed, M. S.** , Salam, S., Rumana, S. S. S. and Barua, A. 2021. DNA barcoding and phylogenetic relationship of shrimps (Crustacea: Decapoda) of Bangladesh. *BioResearch Communications* 7(1): 941-946.
19. Saha, T., Datta, S.K., Zhilik, A.A., Chowdhury, N.Z., Baki, M.A. and **Ahmed, M.S.** 2021. New geographical record of the rainbow runner, *Elagatis bipinnulata* (Quoy & Gaimard, 1825) (Perciformes: Carangidae) from the Bay of Bengal, Bangladesh. *Thalassas: An International Journal of Marine Sciences* 37 (1):23–26. <https://link.springer.com/article/10.1007/s41208-020-00264-2>
20. Naznin, M. M., Baki, M. A., Hossain, M. M., Datta, S. K., **Ahmed, M. S.** 2020. Twelve new records of coral associated fish from the Saint Martin’s Island based on morphometric and molecular approaches. *Bangladesh J. Zool.* 48(2): 253-262.
21. **Ahmed M. S.**, Datta, S. K. and Zhilik, A.A. 2020. Molecular diversity of freshwater fishes of Bangladesh assessed by DNA barcoding. *Bangladesh J. Zool.* 48(1): 1-19. <https://doi.org/10.3329/bjz.v48i1.47872>
22. **Ahmed M. S.**, Datta, S. K., Saha, T., Zhilik, A.A., Chowdhury, N. J. Ahmed, S. 2020. New geographical record of three-spine frogfish, *Batrachomoeus trispinosus* (Günther, 1861) from the River Rupsa, *Bangladesh. Bangladesh J. Zool.* 48(1): 197-202.
23. Datta, S.K., Saha, T., Sanzida, N.J., Ahmed, S., Akhand, M.A.A. and **Ahmed, M.S.** (2020). New Distributional Record of Hasselt’s Bamboo Shark *Chiloscyllium hasseltii* (Orectolobiformes: Hemiscylliidae) from Bangladesh Waters. *Thalassas: An International Journal of Marine Sciences* 36 (2): 291–295 <https://link.springer.com/article/10.1007%2Fs41208-020-00237-5>
24. **Ahmed, M. S.** , Ahmed, S., Giese, B., Schulz, V., and Luckas, B. (2020). Detection of microcystins in Nile tilapia (*Oreochromis niloticus*) from a eutrophic pond containing *Microcystis aeruginosa* bloom in Dhaka, Bangladesh. *BioResearch Communications* 6(2): 887-893.
25. **Ahmed, M. S.** , Chowdhury, M. M. K., & Nahar, L. (2019). Molecular characterization of small indigenous fish species (SIS) of Bangladesh through DNA barcodes. *Gene* 684: 54-57. <https://doi.org/10.1016/j.gene.2018.10.048>
26. **Ahmed, M. S.** , Chowdhury, N. Z., Datta, S.K. and Zhilik, A.A. (2019). New Geographical Record of the Burmese Bamboo Shark, *Chiloscyllium burmense* (Orectolobiformes: Hemiscylliidae), from Bangladesh Waters. *Thalassas: An International Journal of Marine Sciences* 35:347–350. <https://doi.org/10.1007/s41208-019-00153-3>
27. **Ahmed, M. S.** , Md. Abu Obaida, Tonmoy Saha, Sujan Kumar Datta, Ahmed Farhan Labib, Nishat Zahan Chowdhury and Ayesha Akhter Zhilik. 2018. New record of Blackspotted gurnard *Pterygotrigla hemisticta* (Temminck and Schlegel, 1843) (Scorpaeniformes: Triglidae) from the Bay of Bengal, Bangladesh. *J. Life Earth Sci.* 13: 53-55.
28. **Ahmed, M. S.** , Dina, S.R., Nahar, L., Islam, N.N, and Reza, H.A. 2018. Molecular characterization of *Channa* species from Bangladesh based on Cytochrome c Oxidase Subunit I (COI) gene. *FishTaxa* 3(4): 87-93.
29. Kabir, N., Shamsunnahar, Baki, M.A., Ahmed, S. and **Ahmed, M.S.** 2018. New record of the Squaretail kob, *Argyrosomus thorpei* Smith, 1977 (Perciformes: Sciaenidae) from the coast of Bay of Bengal, Bangladesh. *International Journal of Fisheries and Aquatic Studies.* 6(5): 45-47.

30. **Ahmed, M.S.**, Datta, S.K., Saha, T. and Faroque, M.U. 2018. First record of the unicorn leatherjacket *Aluterus monoceros* (Tetraodontiformes: Monacanthidae) from the Southern coast of Bay of Bengal, Bangladesh. *International Journal of Fauna and Biological Studies* 5(4): 106-108.
31. A.S. M. S. Rahman, M. H. Begum, H. A. Reza, M. N. Ahsan, **M. S. Ahmed**. 2018. Molecular characterization of hilsa shads in Bangladesh using Cytochrome C Oxidase Subunit I (COI) gene. *International Journal of Fauna and Biological Studies*. 5(3): 1-5.
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33. **Ahmed, M.S.** Abu Obaida, Sumaiya Ahmed and Gulshan Ara Latifa. 2017. New record of Concertina fish, *Drepane longimana* (Perciformes: Drepaneidae) from the St. Martin's Island, Bangladesh. *International Journal of Fisheries and Aquatic Studies* 2017; 5(6): 164-165
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37. Sumaiya Ahmed, Dulon Roy, Haraj Uddin, Shibabanda Shil and Md. Sagir Ahmed. 2016. Temporal analysis of phytoplankton diversity in relation to some physico-chemical parameters of the river Buriganga. *International Journal of Fisheries and Aquatic Studies* 2016; 4(6): 526-530.
38. Latifa, G.A., Ahmed, A.T.A., **Ahmed, M.S.**, Baki, M.A. and Hossain, M.M. 2016. *Corbicula fluminea* (O. F.Müller, 1774), an Invasive Bivalve Mollusk, First Identified at Numerous Sites in Bangladesh. *The Festiva* 48 (1): 17-22.
39. Latifa, G.A., Ahmed, A.T.A., **Ahmed, M.S.**, Rahman, M.M., Asaduzzaman, M., Obaida, A., Hossain, M.M. and Biswas, A.R. 2015. Fishes of Gobiidae Family, recorded from the rivers and estuaries of Bangladesh: Some morphometric and meristic studies. *Bangladesh J. Zool.* 43(2): 157-171.
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46. **Ahmed, M. S.** , 2009. Isolation and characterization microcystins (Heptapeptides Hepatotoxins) from *Microcystis aeruginosa* bloom in a homestead pond, Dhaka, Bangladesh. *Research J. Environmental. Sci.*, 3(2): 245-250.
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- Tenualosa ilisha* in the River Meghna, Bangladesh. *Asian J. Biol. Sci.*, 1(2): 69-76.
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 65. **Ahmed, M.S.**, S. Khan, O. Arakawa and Y. Onoue. 1995a. Properties of hemagglutinins newly separated from phytoplankton. *Biochem. Biophys. Acta.* 1243: 509-512.
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Book

- ✓ *Red List of Bangladesh Volume 5: Freshwater Fishes*. IUCN, International Union for Conservation of Nature, Bangladesh Country Office, Dhaka, Bangladesh. (Technical Editor), 2015
- ✓ Assessment of Coastal and Marine biodiversity resources and Ecosystems towards implementing the blue economy action plan of Bangladesh, Department of Environment, Ministry of Environment, Forest and Climate Change, 2022
- ✓ Specimen Records and Profiles of Padma Bridge Museum, Bangladesh Bridge Authority (BBA), Bridges Division

Book Chapters

1. Ahmed, M.S. 2024. Current status of DNA barcoding and its implication for biodiversity conservation in Bangladesh. In: Centennial Book, Department of Zoology, University of Dhaka.
2. Begum, S. and Ahmed, M.S. 2024. Bangladesh's Sustainable Development Goals (SDGs): Scopes, Challenges and contributions of curricular activities from the Department of Zoology, University of Dhaka In: Centennial Book, Department of Zoology, University of Dhaka.
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