

Curriculum Vitae

Dr. Md. Rajib Sharker

Professor

Dept. of Fisheries Biology and Genetics

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Research summery

With 11+ years of extensive research experience in molecular marker studies, nutrigenomics, and conservation studies at graduate and post-doctoral level alongside 9+ years of teaching experience. In my PhD level, I have been working on the cloning and sequencing of the neuroendocrine gene, expression profile determination using qRT-PCR, and localization of identified gene using in situ hybridization assay. I have knowledge of morphometric and morphological variation, DNA barcoding for species identification, and new species records. I have experienced with molecular biology techniques such as molecular marker techniques (RAPD, allozyme electrophoresis, SSR and RFLP), cloning and transformation, amplification of full length 5' and 3' cDNA ends by RACE PCR, qRT-PCR, *in situ* hybridization, immunohistochemistry, western blot, comet assay, BrDU in vivo assay, DNA barcoding, NGS, QTL, and transcriptome analysis. I have explained the genomic and transcriptomic data through in silico bioinformatics analysis. I have knowledge about sperm cryopreservation and normality test to check the plasma membrane integrity, mitochondrial potentiality and acrosomal integrity of sperm. I have explained the hematological parameter of fish using auto-hematolyzer, and immune responses assay using ELISA reader. I have hands-on experience on breeding, embryo and larval rearing technique, and culture technique of some commercially important fin fish, shellfish and molluscan species.

Major technical skills

Molecular Biology: Identification, characterization and localization of growth and reproductive related gene, carbonic anhydrase and their role in physiological and reproductive function, QTL, in vivo assay, Histology, Immuno-histochemistry/cytochemistry, DNA and RNA extraction, metagenomics, RNA seq analysis, plasmid, peptide, Cryopreservation, Immunological assay, toxicity analysis, Western blot/Proximity ligation assay/Co-Immunoprecipitation. Epifluorescence microscopy/Live cell imaging/Confocal microscopy.

Bioinformatics: Transcriptomics, proteomics, 3D modelling, *in silico* analysis

Programming Language: R, Python

Education

PhD in Science

Year: 2020

University: Chonnam National University, South Korea

M.S. in Fisheries Biology and Genetics

Year: 2011

University: Bangladesh Agricultural University, Bangladesh

GPA: 3.969 in the scale of 4.00

B.Sc. Fisheries (Hons.)

Year: 2010

University: Bangladesh Agricultural University, Bangladesh

GPA: 3.781 in the scale 4.00

Higher Secondary School Certificate (H.S.C)

Year: 2004

College: Nazmul smrity College

GPA: 4.10 in the scale 5.00

Secondary School

Year: 2002

School: Ghailara Samsul Haque Smrity High School

GPA: 4.13 in the scale 5.00

M.S. thesis: Determination of genetic variation of wild and hatchery populations of Indian major carp rohu (*Labeo rohita*) in Bangladesh using allozyme marker.

PhD thesis: Genomic studies on neuroendocrine genes in Pacific abalone (*Haliotis discus hannai*)

Training and Achievement

1. Completed training on Statistical Data analysis Using R program, Patuakhali Science and Technology University, Dumki, Patuakhali from 14 August to 01 September 27, 2015.
2. Completed training on the Proteomics, SIM protein, from 19 September to 21 September, 2021.
3. Completed course on 'Writing a paper in English', Language Education Center, Chonnam National University, Yeosu, South Korea from 2 January to 2018 to 26 January 2018.
4. Completed training on the Essential Electronic Agricultural Library, Patuakhali Science and Technology University, Dumki, Patuakhali from 17 October to 18 October, 2016.
5. Completed training on 'Patent and Accreditation', Establishment of PSTU Innovation Dissemination Center, HEQEP,CP-3526, Patuakhali Science and Technology University, Dumki, Patuakhali from 31 July to 01 August, 2015.
6. Completed training on 'e-Agriculture', Establishment of PSTU Innovation Dissemination Center, HEQEP,CP-3526, Patuakhali Science and Technology University, Dumki, Patuakhali from 27 March to 29 March, 2015 .
7. Completed Training on Strengthening Pedagogical Skills of Young Teachers, USAID-Funded Asia Farmer to Farmer (F2F) program Winrock International from 20 January to 23 January, 2015.
8. Completed One Day Orientation on "Good Aquaculture practices (GaqPs)" organized by Bangladesh Aquaculture Alliance, Fisheries Product Business Promotion Council and Bangladesh Economic Growth Programme Project on 15 June, 2014.

9. Completed training on “Good Aquaculture practices (GaqPs)” organized by Bangladesh Shrimp and Fish Foundation (BSFF) and Bangladesh Agricultural University from 30 to 31 March, 2011.
10. Completed training course on “Data Analysis: Mstatc and SPSS” from Graduate Training Institute (GTI), Bangladesh Agricultural University, Mymensingh from 30 January to 10 February, 2011.
11. Completed training course on “Basics of MS Office” from Graduate Training Institute (GTI), Bangladesh Agricultural University, Mymensingh from 06 to 17 March, 2011.
12. Completed 3-month internship at the Faculty of Fisheries, Bangladesh Agricultural University on Practical Skill on Induced Breeding of Walking Catfish from 01 July to 30 September 2010.
13. Completed a field trip on “Agricultural Extension Education” for a week at Haluaghat Upazilla in Mymensingh District, Bangladesh from 07 to 12 February 2010.

Personal Details

Father's name: Md. Abu Daud

Mother's name: Roushnara Bagam

Permanent address: Vill. Kaulara, Post: Ghailara, P.S.: Nalitabari, Dist.: Sherpur

Date of birth: 07.08.1986

Nationality: Bangladeshi (by birth)

Religion: Islam

Sex: Male

Marital status: Married

Height: 5' 11"

Blood group: B (+)

National ID No.: 6125221269364

Working Experience

Name of the position: Professor

Name of the institution: Patuakhali Science and Technology University, Patuakhali.

Service period:

Lecturer: From 18.11.2012 to 17.11.2014

Assistant Professor: 18.11.2014 to 17.11.2019

Associate Professor: 18.11.2019 to 17.11.2023

Professor : 18.11.2023 to till date

Membership

Life Member, Zoological Society of Bangladesh, Bangladesh

Life Member, Bangladesh Fisheries Research Forum, Bangladesh

General Member, Krishibid Institute of Bangladesh

Research Experience during MS study

One year and six months research experience as ‘**Research Assistant**’ in SPGR-World bank funded project namely “Gene banking of improved broodstocks of Indian Major Carps (Catla,

rohu, mrigal) and development of breeding technique of three threatened species (Moashol, Baga air, Baim)” from July 2011 to December 2012 in the Department of Fisheries Biology and Genetics, Bangladesh Agricultural University.

Research Project

Year: 2022-2023

Funded by: Ministry of Science and Technology, Government of the People's Republic of Bangladesh.

Description: A research project has been conducted from July 2022 to June 2023 entitled ‘Evaluation of dietary inclusion of mango kernel meal on growth performance, hematological profiles, and related gene expression of *Gibelion catla* fingerlings’ which is conducted by Md. Rajib Sharker as principal investigator.

Year: 2022-2023

Funded by: Research and Training Centre (RTC) research project, Patuakhali Science and Technology University

Description: A research project has been conducted from July 2022 to June 2022 entitled ‘Effects of moringa (*Moringa oleifera*) leaf supplementation on growth performance, hematological parameter, body biochemical composition, and gene expression profile of stinging catfish, *Heteropneustes fossilis*’ which is conducted by principal investigator Md. Rajib Sharker.

Year: 2020-2022

Funded by: Ministry of Education, Government of the People's Republic of Bangladesh.

Description: A research project has been conducted from July 2020 to June 2022 entitled ‘Assessment of ecosystem services and social linkages in mangrove ecosystem of Patuakhali coastal belt of Bangladesh’ which is conducted by Md. Rajib Sharker as co-principal investigator.

Year: 2021-2022

Funded by: Ministry of Science and Technology, Government of the People's Republic of Bangladesh.

Description: A research project has been conducted from July 2021 to June 2022 entitled ‘Proximate and mineral composition of available freshwater fish species from homestead ponds of Patuakhali, Bangladesh’ which is conducted by Md. Rajib Sharker as co-principal investigator.

Year: 2015-2016

Funded by: Research and Training Centre (RTC) research project, Patuakhali Science and Technology University

Description: A research project has been conducted from January 2015 to January 2016 entitled 'Assessment of the fish diversity and socioeconomic conditions of fishermen community in the Andharmanik river, Bangladesh' which is conducted by principal investigator Md. Rajib Sharker.

Year: 2013-2014

Funded by: Post Graduate Studies research project, Patuakhali Science and Technology University

Description: A research project has been conducted from November 2013 to November 2014 entitled as 'Livelihood status of hilsha fishers around Mohipur fish landing site, Patuakhali' which is conducted by principal investigator Md. Rajib Sharker.

Year: 2014-2016

Description: A project has been conducted entitled "Establishment of PSTU innovation dissemination center" as a sub-project management team member in the project

Funded by: University grant commission with support from the World Bank

Selected Publications

1. Sumi, K. R.; **Sharker, M. R.**; Rubel, M.; Islam, M. S. 2023. Nutritional composition of available freshwater fish species from homestead ponds of Patuakhali, Bangladesh. Food Chemistry Advances 3, 1–7.
2. Ullah, M. R., Rahman, M. A., Haque, M. N., **Sharker, M. R.**, Islam, M. M., & Alam, M. A. 2022. Nutritional profiling of some selected commercially important freshwater and marine water fishes of Bangladesh. Heliyon, e10825.
3. Roy, P, Choi S. D., Nadia, Z. M., Rahman, M., Salam, M. A., Farhad, F. B., Saha N., Mahmud, A. Biswas, R., Kamrujjaman, M. **Sharker, M. R.*** 2022. Non-financial and financial factors influencing the mode of life of the gher farmers from the western coastal areas of Bangladesh. Egyptian Journal of Aquatic Biology and Fisheries, 26(2): 555-576.
4. Kho, K. H., Sukhan, Z.P.; Hossen, S.; Yusin C.; Kim, S. C; **Sharker, M. R**; Jung, H.-J., Nou, I.-S. 2021. Construction of a genetic linkage map based on SNP markers, QTL mapping and detection of candidate genes of growth-related traits in pacific abalone using genotyping-by-sequencing. Frontiers in marine science 8: 713783.

5. Hanif, M. A.; Siddik, M. A. B.; **Sharker, M. R.** 2021. First record of whitespot sandsmelt, *Parapercis alboguttata* (Günther, 1872) from the Southeast coast of Bangladesh. Indian Journal of geo marine sciences, 50: 498-501.
6. Hanif, M. A.; Hossen, S. **Sharker, M. R.** Siddik, M. A. B 2021. Two blotch ponyfish *Nuchequula blochii* (Valenciennes, 1835) in the Sundarban reserve forest habitat of Bangladesh: Second record and establishment probability. Lakes and reservoirs research and management. 26 (3): e12368.
7. Sukhan, Z. P.; Yusin C.; **Sharker, M. R;** Hossen, S.; Rha, S-J.; Kho, K. H. 2021. Effective accumulative temperature affects gonadal maturation by controlling expression of GnRH, GnRH receptor, serotonin receptor and APGWamide gene in Pacific abalone, *Haliotis discus hannai* during broodstock conditioning in hatcheries. Journal of thermal biology, 103037.
8. Sukhan, Z.P.; **Sharker, M. R;** Yusin C.; Hossen, S.; Choi, K. S.; Kho, K. H. 2021. Thermal stress affects gonadal maturation by regulating GnRH, GnRH receptor, APGWamide, and serotonin receptor gene expression in male pacific abalone, *Haliotis discus hannai* during breeding season. Frontiers in marine science 8: 664426.
9. Hossen, S.; **Sharker, M. R;** Yusin C.; Sukhan, Z.P.; Kho, K. H. 2021. Effects of Antifreeze protein III on sperm cryopreservation of Pacific abalone, *Haliotis discus hannai*. International journal of molecular science 22, 1-16.
10. **Sharker, M. R;** Sukhan, Z.P.; Sumi, K. R.; Choi, S.K.; Choi, K. S.; Kho, K. H. 2021. Molecular characterization of carbonic anhydrase II (CA II) and its potential involvement in regulating shell formation in the Pacific abalone, *Haliotis discus hannai*. Frontiers in molecular biosciences 8:669235.
11. **Sharker, M. R;** Kim, S. C.; Hossen, S.; Sumi, K. R.; Choi, S.K.; Choi, K. S.; Kho, K. H. 2021. Carbonic anhydrase in Pacific abalone *Haliotis discus hannai*: Characterization, expression and role in biomineralization. Frontiers in molecular biosciences 8:655115.
12. Hanif, M. A.; Siddik, M. A. B.; Islam, M. A.; **Sharker M. R.** 2021. First record of Australian sawcheek scorpionfish, *Brachypterois curvispina*, (Actinopterygii: Scorpaeniformes: Scorpaenidae) from the St. Martin island, Bangladesh. Thalassas: An International Journal of Marine Sciences, 37(1), 273-278.
13. Hanif, M.A., **Sharker, M.R.**, Hossen, S., Bipu, M. (2021). New distributional record of oblique-banded groper, *Epinephelus radiatus* (Day, 1868) from the St. Martin Island, Bangladesh. Aquatic Research, 4(2), 145-150.

14. **Sharker, M. R.**; Sukhan, Z. P.; Kim, S. C. Hossen, S.; Cho, Y; Choi, C. Y.; Kho, K. H. 2021. In vivo effects of GnRH peptide on gonadal proliferation and related gene expression of Pacific abalone, *Haliotis discus hannai*. Aquaculture 531, 1-6.
15. Sukhan, Z. P.; **Sharker M. R.**; Kho K. H. 2020. Molecular cloning, in silico characterization and expression analysis of axonemal protein 66.0 in Pacific abalone, *Haliotis discus hannai*, The European Zoological Journal, 87, 648-658.
16. **Sharker, M. R.**; Hossen, S.; Nou, I-S.; Kho, K. H. 2020. Characterization of insulin-like growth factor binding protein 7 (IGFBP7) and its potential involvement in shell formation and metamorphosis of Pacific abalone, *Haliotis discus hannai*. International journal of molecular science, 21, 1-16.
17. **Sharker, M. R.**; Kim, S. C.; Hossen, S.; and Kho, K. H. 2020. Characterization of insulin-like growth factor binding protein-5 (IGFBP-5) gene and its potential roles in ontogenesis in the pacific abalone, *Haliotis discus hannai*. Biology 9, 1-15.
18. **Sharker, M. R.**; Nou, I-S.; and Kho, K. H. 2020. Molecular characterization and spatiotemporal expression of prohormone convertase 2 in the Pacific abalone, *Haliotis discus hannai*. PLoS One 15, e0231353.
19. **Sharker, M. R.**; Sukhan, Z. P; Kim, S. C.; Lee, W. K.; and Kho, K. H. 2020. Molecular identification, characterization, and expression analysis of a gonadotropin-releasing hormone receptor (GnRH-R) in Pacific abalone, *Haliotis discus hannai*. Molecules, 25, 1-15.
20. **Sharker, M. R.**, Sukhan, Z. P.; Kim, S. C.; Rha S.-J.; Kho K. H. 2020. In silico prediction of neuropeptides from the neural ganglia of Pacific abalone *Haliotis discus hannai* (Mollusca: Gastropoda). The European Zoological Journal, 87, 35-45.
21. **Sharker, M. R.**; Sukhan, Z. P.; Kim, S. C.; Lee, W. K.; Kho, K. H. 2020. Identification, characterization, and expression analysis of a serotonin receptor involved in the reproductive process of the Pacific abalone, *Haliotis discus hannai*. Molecular biology report. 47, 555-567.
22. **Sharker, M. R.**; Kim, S. C.; Sumi, K. R.; Sukhan, Z. P.; Sohn, Y. C.; Lee, W. K.; 2020. Characterization and expression analysis of a GnRH-like peptide in the Pacific abalone, *Haliotis discus hannai*. Agri Gene. 15, 1-10.
23. Kar, D., Hossen, S., **Sharker, M. R.**,* Hossain, M. F., Hannan, M. A., Zannat, L. K.; Ali, M. M.; Roy, P.; Al Faisal, M. A. 2020. Impact of Island on Fish Diversity and Fisherman Community in Palordi River, Bangladesh. Middle-East Journal of Scientific Research, 28(4), 286-295.

24. Alom, M. S., Hossen, S., **Sharker, M. R.,*** Rashed, M., Parvin, I., Zannat, L. K.; Rahman, M.B.;Azad, S. M. O. Ali, M. Y. 2020. A Profilistic Study on Socio-Demographic Position of Fisher's Community around a Heritage State (Kuakata) of Bangladesh. Middle-East Journal of Scientific Research, 28(4), 337-347.
25. Hossen, S., Ali, M. M., **Sharker, M. R.,*** Jahan, N., Hossain, M. B., Sukhan, Z. P.; Mahmud, A., Roy, P. 2020. Present status of fish farming and livelihood of fish farmers in Barisal Sadar Upazila of Barisal District, Southern Bangladesh. World Applied Sciences Journal, 38(2), 143-152.
26. Debnath, S., Hossen, S., **Sharker, M. R.,*** Ghosh, A., Ferdous, A., Zannat, L. K., & Ali, M. M. 2020. Fish seed producing hatcheries in Southern Bangladesh: An Overview. Middle-East Journal of Scientific Research, 28(3), 199-206.
27. Hossen, S., Kubra, K.; Ali, M. M., Azam, A., Rahman, M. M., **Sharker, M. R.,*** Roy, P.; Ali, M. Y.; Hossain, M. B. 2020. Best-Worst Scale and Pearson's Correlation based investigation on socioeconomic status of fishermen in Sugondha River of Bangladesh. World Applied Sciences Journal, 38 (2): 131-142.
28. Jahan, M. T., Hossen, S., **Sharker, M. R.,*** Sukhan, Z. P., Hossain, M. B., Ali, M. M., & Shadin, M. K. S. 2020. Assessment of fish diversity in the Baleshwari River: Present status, threats and conservation perspectives. World Journal of Fish and Marine Sciences, 12 (1), 06-15.
29. Hossen, S., Sharker, M. R., Ferdous, A., Ghosh, A., Hossain, M. B., Ali, M. M., Sukhan, Z. P. (2020). Pearson's Correlation and Likert Scale Based Investigation on Socio-Economic Status of Fisher's Community in Kirtankhola River, Southern Bangladesh. Middle-East Journal of Scientific Research, 28 (3), 160-169.
30. Hossen, S., Sukhan, Z. P., **Sharker, M. R.,*** Hossain, M. B., Ali, M. M., Alam, M. A., & Rahman, M. B. (2020). Ichthyofaunal Diversity of a Coastal River in Bangladesh: Status and Conservation Measures. Middle-East Journal of Scientific Research, 28(3), 170-181.
31. Sumi, K. R.; Kim, S. C.; Howlader, J.; **Sharker, M. R.;** Choi, K. S.; Choi, S. K.; Park, J-I; Nou, I-S; Kho, K. H. 2019. Molecular identification and expression analysis of carbonic anhydrase VII in Pufferfish (*Takifugu rubripes*). Ocean Science Journal 54, 363–374.
32. Kim, S. C.; Sumi, K. R., **Sharker, M. R.;** Kho, K. H. 2018. Molecular identification and expression of myosin light chain in shortspine spurdog (*Squalus mitsukurii*). Journal of Marine Life Science 3, 1-8.
33. Siddik M. A. B., Chaklader M. R., Hanif M. A. Islam M, **Sharker, M. R.,** Rahman M. R. 2016. Stock identification of critically endangered olive barb, *Puntius sarana* (Hamilton,

1822) with emphasis on management implications. *Journal Aquaculture Research Development* 7, 1-6.

34. Hasan, H.; Rahman, M.; **Sharker, M. R.**; Ali, M. M.; and Hossen. S. 2016: Fish diversity and traditional fishing activities of the river Padma at Rajshahi, Bangladesh. *World Journal of Fish and Marine Sciences* 8 (3): 151-157.
35. **Sharker, M. R.**; Siddik M. A. B.; Nahar A; Shahjahan M.; and Faroque A. A. 2015. Genetic differentiation of wild and hatchery populations of Indian major carp *Cirrhinus cirrhosus* in Bangladesh. *Journal of Environmental Biology* 36(5): 1223-1227.
36. **Sharker, M. R.**; Faroque, M. A. A.; Sarder, M. R. I.; Mollah, M. F. A. Pattadar. S. N. 2014: Genetic variation of wild and hatchery populations of Indian major carp, Rohu (*Labeo rohita*) in Bangladesh using allozyme marker. *Agricultural journal* 9(2): 113-119.
37. Haque, S. A.; Reza, M. S.; **Sharker, M. R.**; Rahman, M. M.; Islam, M. A. 2014: Effectiveness of oxytetracycline in reducing the bacterial load in rohu fish (*Labeo rohita*, Hamilton) under laboratory culture condition. *Journal of Coastal Life Medicine* 2(4): 259-263.

*indicates corresponding author

Conferences

1. **Sharker, M. R.**; Sukhan, Z. P.; Kim, S. C. Hossen, S.; Cho, Y; Kho, K. H. Neuroendocrine genes GnRH, GnRH receptor, serotonin receptor involves in gonadal maturation and reproduction of Pacific abalone, *Haliotis discus hannai*. The 16th Korean Society of Marine Biotechnology Regular General Meeting and Academic Presentation Workshop held on 12-14 November, 2020, Page 89.
2. Kim, S. C.; **Sharker, M. R.**; Choi, M. R.; and Kho, K. H. Molecular cloning, characterization, and expression of carbonic anhydrase I in the Pacific Abalone, *Haliotis Discus Hannai*. The 62nd Annual Meeting and International Symposium of Korean Society of Life Science. Workshop held on 06-07 August, 2020, Page 132.
3. **Sharker, M. R.**; Kim, S. C.; and Kho, K. H. Molecular architecture and characterization of an actin gene from the pacific abalone, *Haliotis discus hananai*. The 12th edition of International conference on Oceanography and Marine Biology. Workshop held on 03-04 December, 2018, Page 37.
4. Hossen, S.; **Sharker, M. R.**; Alom, M. S. Sukhan, Z. P and Roy, P. 2019: Assessment of fish diversity in Kirtankhola river: present status, threats and conservation perspectives.

Proceeding of 8th Fisheries Conference & Research Fair 2019, Bangladesh Fisheries Research Forum. Workshop held on dated 30-31 March 2019, page 23.

5. Sukhan, Z. P; Hossen, S.; Mahmud, S.; and **Sharker, M. R.** 2019: Seasonal variation of plankton with reference to water quality parameters in Andharmanik River of Southern Bangladesh. Proceeding of 8th Fisheries Conference & Research Fair 2019, Bangladesh Fisheries Research Forum. Workshop held on dated 30-31 March 2019, page 71.
6. Ali, M. Y.; Mahmud, S.; Sukhan, Z. P; Razzak, M. A.; Hossen, S.; Islam, S. R.; and **Sharker, M. R.** 2019 Study on plankton diversity of Pangas (*Pangasius hypophthalmus*) and Tilapia (*Oreochromis niloticus*) ponds in Mymensingh, Bangladesh. Proceeding of 8th Fisheries Conference & Research Fair 2019, Bangladesh Fisheries Research Forum. Workshop held on dated 30-31 March 2019, page 78.
7. Hossen, S.; Ali, M. M.; **Sharker, M. R.**; Sukhan, Z. P; Ali, M. Y.; and Roy, P. 2019. Best-worst scale and Pearson's correlation based investigation on socioeconomic status of fishermen in Sugondha river of Bangladesh. Proceeding of 8th Fisheries Conference & Research Fair 2019, Bangladesh Fisheries Research Forum. Workshop held on dated 30-31 March 2019, page 195.
8. Mahmud, A.; Sukhan, Z. P; Mondol, M. A. H.; Hossen, S.; Ali, and **Sharker, M. R.** 2019. Morphometric, meristic and landmark based analysis of four variety of climbing perch (*Anabas testudineus*) in Bangladesh. Proceeding of 8th Fisheries Conference & Research Fair 2019, Bangladesh Fisheries Research Forum. Workshop held on dated 30-31 March 2019, page 55.
9. Ali, M. Y.; Mahmud, S.; Sukhan, Z. P; Razzak, M. A.; Hossen, S.; Islam, S. R.; and **Sharker, M. R.** 2019. Study on plankton diversity of Pangas (*Pangasius hypophthalmus*) and Tilapia (*Oreochromis niloticus*) culture ponds in Bogra, Bangladesh. Proceeding of 8th Fisheries Conference & Research Fair 2019, Bangladesh Fisheries Research Forum. Workshop held on dated 30-31 March 2019, page 77.
10. Kim, S. C.; **Sharker, M. R.**; Choi, M. R. and Kho, K. H. 2018: Molecular identification and expression of myosin light chain in Shortspine Spurdog (*Squalus mitsukurii*). The 59th annual meeting and international symposium of Korean society of life science. Workshop held on dated 09-10 August 2018, page 172.
11. Shaharior, H; **Sharker, M. R.**; Alom, M. S. and Sukhan, Z. P. 2016: Assessment of fish diversity in Kirtankhola river: present status, threats and conservation perspectives. Proceeding of 7th Fisheries Conference & Research Fair 2016, Bangladesh Fisheries Research Forum. Workshop held on dated 29-30 October 2016, page 29.

12. Faroque, M. A.; **Sharker, M. R.**; Mollah, M. F. A.; Sarder, M. R. I. and Khan, M. M. R. 2012: Genetic variation in wild and hatchery populations of two Indian major carps (*Labeo rohita* and *Cirrhinus cirrhosus*) using allozyme marker. Proceeding of 5th Fisheries Conference & Research Fair 2012, Bangladesh Fisheries Research Forum. Workshop held on dated 18-19 January 2012, page 9.

I hereby declare that the above statements are correct and complete according to my certificates.



Dr. Md. Rajib Sharker