

# **Biography in brief**

**PROFESSOR DR. MOHAMMAD RAKNUZZAMAN**

**Department of Fisheries**

**University of Dhaka**

**Dhaka-1000**

**Bangladesh**



## PROF. DR. MOHAMMAD RAKNUZZAMAN

Post Doc (YNU, Japan)  
PhD (DSc in Environment, YNU, Japan)  
Post-Graduation (SLER, YNU, Japan)  
MS (U Ghent, Belgium; U Bielefeld, Germany;  
University of Jaén, Spain; University of Évora, Portugal-Jointly)  
M Sc (DU); B. Sc. Honors (DU, Bangladesh)



### A. PERSONAL INFORMATION:

**Name** - Mohammad Raknuzzaman

**Father's Name**-Dr. Md. Abdul Latif

**Mother's Name**-Mrs. Feroza Latif

**Address** - (Bangladesh)

**Professor**, Department of Fisheries, University of Dhaka, Dhaka-1000, Bangladesh.

**Nationality**- Bangladeshi by Birth

**National Smart ID No**-7770018542

**Passport No**-BP 0189425 (new), AC 4862255 (old)

**Date of birth**-10/07/1977

### CONTACT:

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**Skype**-mraknuz, **Facebook**- <https://www.facebook.com/mohammad.raknuzzaman>

**Google scholar**-<https://scholar.google.co.jp/citations?user=Q9ioibDWqOMC&hl=en&authuser=1>

**Research gate**- [https://www.researchgate.net/profile/Mohammad\\_Raknuzzaman](https://www.researchgate.net/profile/Mohammad_Raknuzzaman)

### B. OBJECTIVE:

I have keen interest to build up my career in the field of environment pollution specially trace metal contamination in aquatic ecosystem especially in fish, remediation, ecological and health risk assessment and management. I am also interested to accomplish my research on biodiversity conservation and how pollution vigorously effects on biota (especially on fish) linking to climatic changes. So, I have shown myself to be self-motivated, committed and determined for achieving my goals. I have also demonstrated negotiating and organizing skills, a firm sense of responsibility and capacity to work hard under pressure. I possess excellent verbal and written communication skills and able to relate to a wide range of people.

## C. EDUCATION:

**Post-Doctoral**-Yokohama National University, Japan (2017)

**PhD (DSc, Doctor of Environmental Science)** -Yokohama National University, Japan (2016) (Awarded)

**Post-Graduation**- Sustainable Living with Environmental Risk (SLER)

Yokohama National University, Japan (2014) (Outstanding)

**MS**-University of Ghent, Belgium; **University of Bielefeld, Germany**; University of Jaén, Spain; University of Évora, Portugal (Jointly) (2011) (Erasmus Mundus Scholar, Grade A)

**MSc (Fisheries)** - Department of Zoology, University of Dhaka, Bangladesh (1999) (First Class, Outstanding)

**BSc (Honors)** - Department of Zoology, University of Dhaka, Bangladesh (1998)

[\(First Class, Dean's Honor for extraordinary performance in all academic stages of B. Sc Honors examination in 1998\)](#)

**Higher Secondary School Certificate**-Notre Dame College, Dhaka (1994) (1<sup>st</sup> Class, Outstanding)

**Secondary School Certificate**-Jhawdanga High School, Satkhira (1992) (1<sup>st</sup> Class, Outstanding)

## D. PROFESSION:

**Professor**- (2018 to till date)

**Associate Professor**- Department of Fisheries, University of Dhaka (2012-2018)

**Assistant Professor**- Department of Fisheries, University of Dhaka (2006-2012)

**Lecturer**-Department of Fisheries, University of Dhaka (2003-2006)

## E. LIST OF PUBLICATIONS: **(TOTAL IF-49.361)**

1. Lipy, E.P., Hakim M., Mohanta, L.C., Islam, D., Lyzu, C., Roy, D. C., Jahan, I., Akhter S., **Raknuzzaman, M.**, Sayed, M.A., 2020. Assessment of Heavy Metal Concentration in Water, Sediment and Common Fish Species of Dhaleshwari River in Bangladesh and their Health Implications. *Biological Trace Element Research*. <https://doi.org/10.1007/s12011-020-02552-7>. (IF-2.639).
2. Han, S., **Raknuzzaman, M.**, Naito, W., and Masunaga, S. 2020. Assessment of Metal Levels in Sediments and Oyster (*Crassostrea gigas*) Tissues from Shidugawa Bay, a Closed Japanese Aquaculture Environment. *Water Air Soil Pollut*, 231:341. [doi.org/10.1007/s11270-020-04666-z](https://doi.org/10.1007/s11270-020-04666-z). (IF-1.9).
3. Hossain, A., **Raknuzzaman, M.**, Tokumura, M. 2020. Coronavirus (COVID-19)

- Pandemic: Concern about Misuse of Antibiotics. *Journal of Biomedical Analytics*, **3**(2).19-23. doi:10.30577/jba.v3i2.44. (Indexed in Cross Ref and Google Scholar).
4. Mahmood, S., Paul B., **Raknuzzaman, M.**, Al-Mamun, M.H. 2020. Fish Diversity at the vicinity of Hatiya Island, Bangladesh. *Bangladesh Journal of Zoology*. **48**(1): 45-55. (Managed by Bangladesh Academy of Sciences).
  5. Azad, M.A. K., Rahmana, M.S., Kabir, M.A., **Raknuzzaman, M.**, Hossain, J., Rabbane, M. G. 2020. Genetic diversity of wild zebrafish *Danio rerio* populations available in Bangladesh. *Ecological Genetics and Genomics*. (Under review for the decision to publish). (IF-1.0) (Cite Score: 1.6).
  6. **Raknuzzaman, M.**, Al-Mamun, M.H., Ahmed, M.K, Tokumura, M. and Masunaga, S. 2018. Monitoring of seasonal variation of some trace metals concentration in surface water collected from the coastal area of Bangladesh. *J. biodivers. conserv. bioresour. manag.* **4**(2). 67- 80. (Managed by Bangladesh Academy of Sciences).
  7. Sekine, M., Tokumura, M., **Raknuzzaman, M.**, Ahmed, M. K., Islam M.R., Masunaga, S. 2018. Development of Method for Quantitative Determination of Water Arsenic by Field Test Kit, *Fundamental and Applied Agriculture*. **3**, 340-346. (Indexed in Cross Ref, Google Scholar, AGRIS, GORA, CABI etc.).
  8. Al-Mamun, M.H., Ahmed, M.K., **Raknuzzaman, M.**, Islam, M.S., Ali, M.M., Tokumura, M. and Masunaga, S. 2017. Occurrence and assessment of perfluoroalkyl acids (PFAAs) in commonly consumed seafood from the coastal area of Bangladesh. *Marine Pollution Bulletin*. **124**, 775-785. (IF-4.049) (Cite Score: 6.7).
  9. Tokumura, M., Hatayama,R., Tatsu,K., Naito, N., Takeda,T., **Raknuzzaman, M.**, Al-Mamun, M.H. and Masunaga, S. 2017. Organophosphate flame retardants in the indoor air and dust in cars in Japan. *Environmental Monitoring and Assessment*: **189**(48). <http://doi.10.1007/s10661-016-5725-1>. (IF-1.903).
  10. Sekine, M., Tokumura, M., **Raknuzzaman, M.**, Al-Mamun, M.H., Ahmed, M. K., Islam M.R., Masunaga,, Miyake, Y., Amagai, T., Masunaga, S. 2017. Effect of Cooking on Arsenic Reduction in Two Rainfed Rice Varieties of Bangladesh and Their Health Risk Assessment, *Chemical Science International Journal*. **21**, 1-7.
  11. Islam, M.S., Ahmed, M.K., **Raknuzzaman, M.**, Al-Mamun, M.H. and Kundu, G.K. 2016. Heavy metals in the industrial sludge and their ecological risk: A case study for a developing country. *Journal of Geochemical Exploration*. **172**, 41–49. (IF-3.352) (Cite Score: 5.5).
  12. **Raknuzzaman, M.**, Islam, M.S., Al-Mamun, M.H. and Masunaga, S. 2016. Assessment of seasonal variation of trace metals in some commercial fish and crustacean in the coastal area of Bangladesh. *Journal of Biodiversity Conservation and Bio-resource Management*. **2**(2).27-38. (Managed by Bangladesh Academy of Sciences).
  13. Al-Mamun, M.H., Ahmed, M.K., **Raknuzzaman, M.**, Islam, M.S., Negishi, J., Nakamichi, S., Sekine, M., Tokumura, M. and Masunaga, S. 2016. Occurrence and distribution of perfluoroalkyl acids (PFAAs) in surface water and sediment of a tropical coastal area (Bay of Bengal coast, Bangladesh). *Science of the Total Environment*. **571**,1089-1194.<http://dx.doi.org/10.1016/j.scitotenv.2016.07.104>. (IF-6.551) (Cite Score: 8.6).
  14. Tokumura, M., Hatayama R., Tatsu, K., Naito, T., Takeda, T., **Raknuzzaman, M.**, Al-Mamun, M.H. and Masunaga, S. 2016. Car indoor air pollution by volatile organic

- compounds and aldehydes in Japan. *AIMS Environmental Science*. **3** (3), 362–381. <http://doi:10.3934/environsci.2016.3.362>.
15. Tokumura, M., Sugawara, A., **Raknuzzaman, M.**, Al-Mamun, M.H. and Masunaga, S. 2016. Comprehensive study on effects of water matrices on removal of pharmaceuticals by three different kinds of advanced oxidation processes. *Chemosphere* **159**,317–325. (IF-5.778) (Cite Score: 8.8).
  16. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2016. Trace metal contamination in commercial fish and crustaceans collected from coastal area of Bangladesh and health risk assessment. *Environmental Science and Pollution Research*. **23**, 17298–17310. (IF-3.306).
  17. Islam, M.S., Ahmed, M.K., **Raknuzzaman, M.**, Al-Mamun, M.H., Ali, M.M. and Eaton, W. 2016. Health risk assessment due to heavy metal exposure from commonly consumed fish and vegetables. *Environment Systems and Decisions*.**36**, 253-265. [http//doi:10.1007/s10669-016-9592-7](http://doi:10.1007/s10669-016-9592-7). (IF-1.8). (Indexed in Elsevier Biobase, Google Scholar, Elsevier Biobase, Geobase, AGRICOLA, BIOSIS etc.).
  18. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2016. Assessment of trace metals in surface water and sediment collected from polluted coastal areas of Bangladesh. *Journal of Water and Environment Technology*. **14**(4), 247–259. (IF-0.460).
  19. Islam, M.S., Ahmed, M.K., **Raknuzzaman, M.**, Al-Mamun, M.H. and Masunaga, S. 2015. Metal speciation in sediment and their bioaccumulation in fish species of three urban rivers in Bangladesh. *Archieve of Environmental Contamination and Toxicology*. **68** (1), 92–106. (IF-2.40).
  20. Islam, M.S., Ahmed, M.K., **Raknuzzaman, M.**, Al-Mamun, M.H. and Islam MK. 2015. Heavy metal pollution in surface water and sediment: A preliminary assessment of an urban river in a developing country. *Ecological Indicators*.**48**, 282–291. (IF-4.229) (Cite Score: 7.6).
  21. Islam, M.S., Ahmed, M.K., Al-Mamun, M.H. and **Raknuzzaman, M.**, 2015.The concentration, source and potential human health risk of heavy metals in the commonly consumed foods in Bangladesh. *Ecotoxicology and Environmental Safety*. **122**,462–469. (IF-4.72) (Cite Score: 6.2).
  22. Islam, M.S., Ahmed, M.K., Al-Mamun, M.H. and **Raknuzzaman, M.** 2015.Trace elements in different land use soils of Bangladesh and potential ecological risk. *Environmental and Monitoring Assessment*. **187**,587-598. [http//doi:10.1007/s10661-015-4803-0](http://doi:10.1007/s10661-015-4803-0). (IF-1.903).
  23. Chowdhury, M. M. and **Raknuzzaman, M.** 2005. Zooplankton communities from polluted water of the river Buriganga, Dhaka, Bangladesh. *Bangladesh Journal of Zoology*.**33** (2), 177-182. (Managed by Bangladesh Academy of Sciences).
  24. Chowdhury, M. M, **Raknuzzaman, M.** and Iqubal, K. F. 2005. A preliminary survey on the status and potential of aquarium fish and its trade in Bangladesh. *Dhaka University Journal of Biological Sciences*.**14** (2), 137-145. (Managed by Bangladesh Academy of Sciences).
  25. **Raknuzzaman, M.** 2006. Comparative studies on physico-chemical variables and zooplankton abundances in polluted waters of Buriganga River. *Journal of Center for Development Research*.**1** (2), 99-106.

26. Chowdhury, M. M., **Raknuzzaman, M.** and Iqbal, K.F. 2006. Control of *Argulus* sp. Infestation in goldfish (*Carassius auratus*) with sumithion. *Bangladesh Journal of Zoology*.**34** (1), 111-115. (Managed by Bangladesh Academy of Sciences).
27. Rabbane, M.G., Mustafa, M.G. **Raknuzzaman, M.** and Khaleque, M. A. 2006. Quality changes in chapila fish (*Gudusia chapra* Hamilton-buchanan, 1822) during storage at - 20°C with different packaging conditions. *Journal of Center for Development Research*.**1** (2),85-91.
28. Jannat, M., Ahsan, N., Islam, M. M., **Raknuzzaman, M.**, Naser, M.N. and Begum, F.2007. Comparative study of bacterial load of raw Hilsha (*Tenualosa ilisha*) collected from catching points, open market and department shop. *Bangladesh Journal of Microbiology*. **24**(2), 160-162. (Managed by Bangladesh Academy of Sciences).
29. Ahmed, M.S., **Raknuzzaman, M.**, Akther, H. and Ahmed, S. 2007. The Role of cyanobacteria blooms in cholera epidemic in Bangladesh. *Journal of Applied Sciences* **7**(13), 1785-1789. (Indexed in Google Scholar, AGRIS, Asian Digital Library etc.).
30. Ahmed, M.S., **Raknuzzaman, M.** and Ahmed, S. 2009. *Oscillatoria* sp. bloom and the occurrence of Microcystin in the River Buriganga, Dhaka, Bangladesh. *Research Journal of Environmental Science*. **4**(1), 64-69. (Indexed in Google Scholar, AGRIS, Asian Digital Library etc.).
31. Rakibuzzaman, M., **Raknuzzaman, M.**, Bhuiyan, A.I. and Hasan, M.M. 2011. Comparative study of endoparasitic infestation in *Channa punctatus* (Bloch, 1793) collected from hatchery and sewage lagoon. *Daffodil International University Journal of Science and Technology*.**6** (2), 6-10. (Managed by Bangladesh Academy of Sciences).

#### CONFERENCE PAPER:

1. Islam, M.S., Ahmed, M.K., **Raknuzzaman, M.**, Al-Mamun, M.H. and Masunaga, S. 2014. Chemical speciation of metals in sediment and their bioaccumulation in fish on three rivers around Dhaka City, Bangladesh. Proc. of the Intl. Conf. on Advances in Civil, Structural, Environmental & Bio-Technology, CSEB 2014, ISBN: 978-1-63248-001-9. [http:// doi: 10.15224/ 978-1-63248-001-9-05](http://doi:10.15224/978-1-63248-001-9-05), 18-22.

#### F. BOOK CHAPTERS:

“**ENCYCLOPEDIA OF FLORA AND FAUNA OF BANGLADESH**” PUBLISHED BY ASIATIC SOCIETY OF BANGLADESH. *VOL-23 AND 24 (2007)*.

1. **Raknuzzaman, M.** 2007. *Puntius conchoni* (Hamilton, 1822). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**23**(75):78-79.
2. **Raknuzzaman, M.** 2007. *Psilorhynchus balitora* (Hamilton, 1822). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**23**(92):93-94.
3. **Raknuzzaman, M.** 2007. *Lepidocephalichthys irrotata* (Hora, 1921). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**23**(108): 106-107.

4. **Raknuzzaman, M.** 2007. *Hemibagrus menoda* (Hamilton, 1822). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**23**(116):115-116.
5. **Raknuzzaman, M.** 2007. *Gagata cenia* (Hamilton, 1822). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**23**(142):141-142.
6. **Raknuzzaman, M.** 2007. *Glyptothorax telchitta* (Hamilton, 1822). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**23**(146):145 pp.
7. **Raknuzzaman, M.** 2009. *Stolephorus commersonii* (Lacepede, 1803). *Encyclopedia of Flora and Fauna of Bangladesh* (Asiatic Society of Bangladesh).**24**(77):86 pp.

## **G. AS BOOK EDITOR AND TRANSLATOR:**

Biology 2<sup>nd</sup> Part (Zoology) for Higher Secondary Certificate(HSC) (for the College student)  
National Curriculum and Text Book Board, Bangladesh Government.

Published by Akkhar-Patra Prokashoni, Dhaka, Bangladesh.  
( [www.akkharpatra.com](http://www.akkharpatra.com) )

## **H. BOOK REVIEW:**

### **INSTANT BASICS OF ENVIRONMENT**

**By** Professor Dr. Abul Bashar

Former Pro VC Open University, Former Dean, Faculty of Biological Sciences, Professor,  
Department of Zoology, University of Dhaka, Dhaka-1000.

## **I. JOURNAL REVIEWER:**

1. Chemosphere, Elsevier.
2. Ecotoxicology and Environmental Safety, Elsevier
3. Environmental Science and Pollution Research (ESPR), Springer
4. Editor's Management System, Journal of Fisheries and Aquatic Science
5. Bangladesh Journal of Biodiversity Conservation and Bio-resource Management
6. Bangladesh Journal of Zoology, BJZ

## **J. CONFERENCE PRESENTATIONS**

1. **Raknuzzaman, M.,** Azad, M.A. K., Hossain, J., Rahmana, M.S., Rabbanea, M. G. 2019. Genetic diversity of wild zebrafish *Danio rerio* populations available in Bangladesh using DNA barcoding and RAPD techniques. *12th Annual meeting of the Swiss Zebrafish society, in Leukerbad, VS. Switzerland, (Oral presentation) (5-6 April, 2019).*

2. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2017. Trace metals contamination in surface water and sediments in Chittagong ship breaking area, Bangladesh and ecological risk assessment. *Society of Environmental Science, Kita-Kyushu by Miyazaki University, Japan*, (Oral presentation) (14-15 September, 2017).
3. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2016. Seasonal investigation of trace metals in water, sediment, some commercial fish and seafood in the coastal area of Bangladesh and health risk assessment. *The 50th Annual Conference of Japan Society on Water Environment (JSWE) ASTY, Tokushima, Japan*, (Poster presentation) (16-18 March, 2016).
4. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2015. Assessment of trace metals in surface water, sediment, some commercial fishes and crustaceans collected from coastal area, Bangladesh. *Water and Environment Technology Conference 2015, Nihon University (Surugadai Campus), Tokyo, Japan*, (Oral and Poster presentation) (5-6 August 2015).
5. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2015. Trace metals contamination in surface water, sediment, some fishes and sea foods in the coastal area, Bangladesh. *24th Symposium of Environmental Chemistry, Sapporo, Hokkaido, Japan*, (Oral presentation) (23-26 June 2015).
6. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2014. Concentration of heavy metals in water, sediment and some commercial fish species in the coastal area, Bangladesh and health risk assessment. *International Forum for Sustainable Asia and the Pacific, ISAP 2014 (organized by IGES and United Nations University-IAS), Pacifico-Yokohama, Japan*, (**Poster presentation Achieved Silver Award**) (24 July 2014).
7. **Sekine, M., Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M. and Masunaga, S. 2016. Human health risk from arsenic exposure and its mitigation in Bangladesh. *The Society of Chemical Engineers 81th meeting, Kansai University (Senriyama Campus), Oosaka, Japan*. (March, 2016).
8. **Sekine, M., Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., and Masunaga, S. 2015. Association between arsenic concentration and satisfaction level for well water in Basailbogh village, Bangladesh. *The 2015 International Chemical Congress of Pacific Basin Societies, Hawaii, USA*. (December, 2015).
9. **Sekine, M., Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., and Masunaga, S. 2015. Awareness of arsenic contamination in tube well water at Bashailbhog village, Bangladesh. *The Water and Environment Technology Conference 2015, Tokyo, Japan*. (June, 2015).
10. **Islam, M.S., Raknuzzaman, M.**, Ahmed, M.K., Al-Mamun, M.H., and Masunaga, S. 2014. Geo-chemical speciation of metals and their bioaccumulation in two fish species on three rivers around Dhaka City, Bangladesh. *International Conference on Advances in*



*Civil, Structural, Environmental and Bio-technology - CSEB 2014, Kuala Lumpur, Malaysia.* (08-09 March, 2014).

11. **Islam, M.S., Raknuzzaman, M.,** Ahmed, M.K., Al-Mamun, M.H., and Masunaga, S.2014. Assessment of trace metals contamination in industrial waste water and river sediment from the urban area of Dhaka, Bangladesh. CHI The International Conference on Storm water and Urban Water Systems Modeling, The Marriott Courtyard Toronto Brampton, Toronto, Canada. (26-27 February, 2014).

## **K. ADDITIONAL PRESENTATIONS:**

1. **Raknuzzaman, M.,** Hossain, A. 2020. “Environmental issues, challenges and social implications- -Bangladesh insight!!”. *School of Food and Nutritional Sciences, The University of Shizuoka, Japan.* (February, 2020).
2. Hossain, A., **Raknuzzaman, M.** 2020 Antibiotics Use in Aquaculture of Bangladesh and its implications”. *School of Food and Nutritional Sciences, The University of Shizuoka, Japan.* (February, 2020).
3. **Raknuzzaman, M.** 2017. “Environmental Problems and Challenges-Bangladesh insight!! *School of Food and Nutritional Sciences, The University of Shizuoka, Japan.* (04 August 2017).
4. **Raknuzzaman, M.** 2014. “Dams in the horn of Africa killing Rivers: to fight a dam, rather than live on your knees”. *SLER International Joint Synthesis final presentation, YNU, Japan.* (28 January 2014, [Achieved best oral presenter](#)).
5. **Raknuzzaman, M.** 2013. “Irrigation system and its impact on regional agriculture and productivity in Madagascar” and “Alternative integrated sustainable livelihood approach in Madagascar”. *University of Antananarivo, Madagascar Study Tour-2013* (5 September, 2013) and *Madagascar Outcome International Presentation, YNU, Japan* (18 December, 2013).
6. **Raknuzzaman, M.,** Tram, T. Le B. and Mwazighe, F. M. 2013. “Waste management of Rikuzentakata”. *Yokohama National University, Japan.* (26 September 2013).
7. **Raknuzzaman, M.** and Rabiatal A. B. M. J. 2013. “Recovering from disaster and building a resilient society – Case study of Rikuzentakata and other Tohoku areas -Finding of the field studies and prevailing research and policy questions”. *The International Symposium on “Developing Leaders for Managing Risks and Promoting Sustainability Toward Establishing a Resilient and Sustainable Society” United Nations University Tokyo, Japan.* (23 September 2013).

## **L. A. ACHIEVEMENTS (SCHOLARSHIP AWARDS):**

1. Kaneko Foundation for International Cultural Communication (KF-ICC) (2015-2016)
2. Yokohama National University (2015)
3. Rural Asia Solidarity Association (RASA) (2015)
4. The Setsutaro Kobayashi Memorial Fund by Fuji Xerox Co., Ltd., Japan (2014-2015)
5. Yokohama Industrial Association, Japan (2014)
6. Erasmus Mundus Fellow by European Commission (2009-2011)
7. Teaching Award from DFID, UK (Department for International Development, UK) under "SUFER" (Support for University Fisheries Education and Research) project for intellectual performances, excellent concept and future vision in teaching (2003-2004)
8. SATKHIRA Janoshomity merit scholarship for the year 2001 for extraordinary performance in academic stages and especially in the B. Sc Honors examination of 1998

#### **B. ACHIEVEMENTS (PRESENTATION AWARDS):**

1. **Raknuzzaman, M.**, Ahmed, M.K., Islam, M.S., Al-Mamun, M.H., Tokumura, M., Sekine, M. and Masunaga, S. 2014. Concentration of heavy metals in water, sediment and some commercial fish species in the coastal area, Bangladesh and health risk assessment. *International Forum for Sustainable Asia and the Pacific, ISAP 2014 (organized by IGES and United Nations University-IAS), Pacifico-Yokohama, Japan*, (Poster presentation [Achieved Silver Award](#)) (24 July 2014).
2. **Raknuzzaman, M.** 2014. "Dams in the horn of Africa killing Rivers: to fight a dam, rather than live on your knees". *SLER International Joint Synthesis final presentation, YNU, Japan*. (28 January 2014, [Achieved best oral presenter](#)).

#### **RESEARCH ASSISTANCE (RA):**

Graduate school of Environment and information sciences EIS, YNU, Japan

#### **RESEARCH GUIDANCE- (M S RESEARCH STUDENT)**

1. Improvement of growth performance, disease resistance and gut micro biota by applying probiotics in some commercially important freshwater fishes in Bangladesh.
2. Bio-concentration of Cr, Cd, Ni, Pb and As in some fresh and dried fishes collected from south east coast of Bangladesh with health risk assessment.
3. Supply and value chain analysis in the marketing of major fish species in Sylhet basin, Bangladesh.

4. Seasonal dynamics of trace metals concentration in deep sea water, some fish and crustacean in the southern Bay of Bengal. (OCN-BSMRMU).
5. Seasonal and Interannual variability of satellite-based chlorophyll a concentration in the Bay of Bengal and physical processes controlling its synchronous variability. (OCN-BSMRMU).
6. Statistical analysis of Sea Surface Temperature Anomalies in the Bay of Bengal in relation to regional climate indices. (OCN-BSMRMU).
7. Monitoring of trace metal concentrations in the surface water, sediment and some locally consumable fish from Dhaleshwari river, Manikganj and health risk assessment
8. Characterization of socioeconomic condition, impediments and solution strategies of the fisher folks in the fish drying palli of the Sonadia Island, Cox's Bazaar.
9. Evaluation of organ-specific trace metal concentrations and human health risk considering different ages of *Labeo calbasu* and *Ompok pabda* collected from aquaculture fish farm of Mymensingh area, Bangladesh.
10. Studies on the fish marketing system in Mawaghat, Munshiganj District, Bangladesh.
11. Study on the fish marketing system and obstacles in Jessore District, Bangladesh.
12. Value chain analysis of major fish species in Jhenaidah District, Bangladesh.
13. Socio-economic impacts of early flash floods of 2017 in the life of fishermen of Tanguar Haor in Bangladesh.
14. Comparative study of endoparasitic infestation in *Channa punctatus* (Bloch, 1793) in between two different water bodies at Gazipur and Narayanganj of Bangladesh
15. Biochemical Profile of *Heliodyptomus viduus*, *Sinodyptomus*(*Rhinediaptomus*) *indicus*, and *Mesocyclops aspericornis* and their Dietary Evaluation for Post larvae of *Macrobrachium rosenbergii*.
17. A Comparative Study of Endoparasitic Infestation of *Oreochromis niloticus* (Linnaeus 1758) in a Polluted and a Non-polluted Water Bodies in Bangladesh.
18. Sustainable aquaculture Development through Community Base Organization.
19. Studies on the Value-Added Seafood, *Penaeus monodon* (Weber, 1795) Processing and Quality Assessment with Special Emphasis on Cost-Benefit Analysis in a Fish Processing Plant, Dhaka.
20. Comparative Analysis of Qualitative and Quantitative Variation of Bacterial Flora Associated with Gills and Intestines of Raw and Frozen Finished Cat fish, *Clarias batrachus* (Linnaeus, 1758).
21. Assessment of Fish Marketing, Price Variation and Purchase Behavior of Consumers in Three Markets of Faridpur District.
22. Plankton (especially zooplankton) communities from the polluted waters of Buriganga River and its impact on Fisheries.

## **M. RESEARCH PROJECTS:**

1. **Investigation on contamination & adulteration in some selected foodstuffs and food security management in Bangladesh.** Funded by Ministry of Science and

Information & Communication Technology, Government of the People's Republic of Bangladesh -2008.

**Position:** Associate Investigator

**Project status:** National (Completed)

2. **Toxic metals contamination in surface water, sediments and fishes and its impacts on human health and ecological risk assessment in Chittagong ship breaking area of Bangladesh.** Funded by under the research project for Dhaka University teachers, supported by the University Grants Commission (UGC), Government of the People's Republic of Bangladesh (2016-2017).

**Position:** Chief Investigator

**Project status:** National (Completed)

3. **Uptake of arsenic and other toxic elements by rice from contaminated agricultural ecosystems: Effect of rice genotypes, irrigation, and contamination level (Part-Monitoring the seasonal changes in heavy metals in river water polluted by different industries around Dhaka city).** Funded by the Mitsui Bussan Corporation (The Mitsui & Co. Environment Fund, Japan.) Collaboration with- a. University of Shizuoka, Japan b. Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh. (2019-2021).

**Position:** Chief Investigator (University of Dhaka, Bangladesh part)

**Project status:** International (Continuing)

4. **Monitoring of micro-plastic concentration in surface water and sediment in Cox's Bazar sea beach area and ecological risk assessment.** Funded by under the research project for Centre for Advanced Studies and Research in Biological Sciences, University of Dhaka. (2018-2019).

**Position:** Chief Investigator

**Project status:** National (Continuing)

5. **Improvement of growth performance, disease resistance and gut micro biota by applying probiotics in some commercially important freshwater fishes in Bangladesh** Funded by under the research project for Biotechnology Research Centre, University of Dhaka. (2019-2020).

**Position:** Chief Investigator

**Project status: National (Continuing)**

### **Training Skills:**

1. **Post-academic and permanent training on “Low countries studies”** Awarded on May 27, 2010, Faculty of Arts and Philosophy, University of Ghent, Belgium.
2. **“Integrated water resources management (IWRM) with special focus on scientific methodology and development of grant application”** 28-29 October 2007. IFS (International foundation for science), Cap-Net and BCAS (Bangladesh Centre for Advanced Studies).
3. **Training-workshop on “Mental stress management” 02 May 2005.** (Faculty of Biological Sciences), Department of Clinical Psychology, University of Dhaka, Bangladesh.
4. **International training course on “Coastal biodiversity in mangrove ecosystem” May 31 to 14 June 2004.** (UNU, Japan, INWEH, Canada, UNESCO, Paris) Annamalai University, Madras, India.
5. **The sixth workshop on “Strengthening fishery education syllabus” 13-31 October 2003.** (SUFER/DFID, UK) Asian Institute of Technology (AIT), Bangkok, Thailand.
6. **Training-workshop on “Network maintenance and troubleshooting” 6-7 October 2003.** Institute of Information Technology (IIT), University of Dhaka. Bangladesh.
7. **Training workshop on “Lecture note preparation for sustainable livelihood approach (SLA) course on fisheries syllabus’** August 22 to 3 September 2003. (SUFER/DFID, UK), Srimongal, Sylhet, Bangladesh.
8. **Training program on “SPSS for biological sciences” July 21 to 19 August 2003.** (Faculty of Biological Sciences), Institute of Statistical Research and Training (ISRT), University of Dhaka, Bangladesh.
9. **Entomological assessment on dengue outbreak in Dhaka city”16 August to 13 October 2000.** International Center for Diarrheal Disease and Research (ICDDR, B), and Dhaka City Corporation, Bangladesh.

### **N. RECENT RESEARCH DONE: (POST-DOCTORAL)**

#### **Removal of Chromium, Cadmium, Lead and Zinc from tannery wastewater by using efficient green adsorbents: an innovative bio-sorption approach**

Trace metal contamination in tannery wastewater has become a major issue throughout the world. The removal of trace metals from tanneries wastewater is a recurring challenge in Bangladesh. Conventional methods are expensive or ineffective. So, bio-sorption is relatively new and promising

for removal of trace metals from tanneries wastewater. The economic crisis of the 2000s led researchers to lower cost innovative adsorbents which is called “green adsorption” originating from an agricultural waste. Rice husk and coconut shell are low cost “green adsorbent” available in Bangladesh. Considering significant advantages, such innovative sustainable approach should be prioritized. Thus, the aim of this study is to develop technical applicability and better scientific inferences of green adsorption as bio-sorbents.