

CURRICULUM VITAE OF DR. MD. MAHBUBUR RAHMAN

Full Name : DR. MD. MAHBUBUR RAHMAN

Present Position: Associate Professor

Department of Biotechnology
Bangabandhu Sheikh Mujibur Rahman Agricultural University
Gazipur-1706, Bangladesh.

Date of Birth: 15 October, 1972 **Sex:** Male

Personal Contract: Cell Phone: 01819-489346;

E-mail : mahbub_biotech@yahoo.com,

mahbub_biotech@bsmrau.edu.bd

Academic Qualifications:

Doctor of Philosophy 2004 (Grade A)
(In the field of Marine Biosciences; Major in Microbiology, Marine Biochemistry and Biotechnology)
Graduate School of Fisheries Sciences
Hokkaido University, Japan.

Master of Science in Aquaculture 1997 (First Class)
Department of Aquaculture
Faculty of Fisheries
Bangladesh Agricultural University, Mymensingh, Bangladesh.

Bachelor of Science in Fisheries (Honours) 1993, held in 1996 (First Class)
Faculty of Fisheries
Bangladesh Agricultural University, Mymensingh, Bangladesh.

Pervious Job Experiences:

1. Associate Professor (From 1 March, 2011 to 31 January, 2012)

Department of Genetic Engineering and Biotechnology
School of Life Sciences
Shah Jalal University of Science and Technology, Sylhet.

2. Assistant Professor (From 14 September, 2007 to 28 February, 2011)

Department of Genetic Engineering and Biotechnology
School of Life Sciences
Shah Jalal University of Science and Technology, Sylhet.

3. Lecturer (From 01 December 2004 to 13 September 2007)

Department of Genetic Engineering and Biotechnology

School of Life Sciences

Shah Jalal University of Science and Technology, Sylhet.

Key Responsibilities:

1. Teaching and Research in the field of Molecular Biology, Microbiology, Genetic Engineering, Molecular Techniques in Biotechnology, Environmental Pollution and Bioremediation, Fish Biotechnology, Animal Biotechnology, Health Management of Aquatic animals etc.
2. Conduct research works in the field of Molecular Identification of Microorganisms, Identification of bio-functional and probiotic microorganisms as bio-control agent of fish, shrimp and human pathogen, Development of herbal treatment methods to control fish disease.
3. Supervise research works of graduate and undergraduate students.

4. Scientific Officer (From June 1998 to September 2000)

Bangladesh Fisheries Research Institute, Mymensingh, Bangladesh

Key Responsibilities:

1. Investigation of the environmental and pathological factors responsible for diseases of fishes and evaluation of suitable methods for prevention and control of these diseases.
2. Adaptive research on different fish culture methods in the farmer's field condition at different Farming Systems Research and Development sites of Bangladesh.
3. Development of pan and case fish culture method in Kaptai Lake.

Experience as a Researcher:

* **Principal Investigator:** Working as a Principal Investigator of a research project titled "Identification of Bio-functional Bacteria Inhibiting Fish Pathogenic Bacteria For Better Fish Production" funded by UGC.

* **Associate Researcher:** Working as an Associate Researcher of a Project titled "Enrichment of Facilities to Promote Quality Higher Education and Research in Biotechnology," funded by World Bank (Total Allocation of the Project: 2,64,00,000.00 Taka equivalent to US \$ 3,10,600).

- * **Project Director:** Successfully conducted a research project as a Project Director, titled “Molecular Detection of Bacterial and Fungal Diseases of Carp and Catfish and Herbal Treatment for Remedy of the Diseases,” funded by United States Department of Agriculture. (Total allocation of the project: 1,02,54,000.00 Taka equivalent to US \$ 1,20,650)

Special Training Programs Attended:

International

- i) International training on ‘**Adaptive Research and Agribusiness in Farming Systems Development**’ (from 30 June-22 August, 1999) at the Farming Systems and Soil Resources Institute, University of Philippines at Los Bannose, **PHILIPPINES**
- ii) Study visit on ‘**Farming System Development**’ (From 24 August –30 August, 1999) at Asian Institute of Technology, **THAILAND**

National

- i) ‘Farming Systems Research and Development Methodology’ (From 11-22 April, 1999) at Bangladesh Agricultural Research Council, **BANGLADESH**
- ii) ‘Introduction of National Agricultural Research and Farming Systems Research Management with particular reference to Fisheries’ (From 10-13 August, 1998) at Bangladesh Fisheries Research Institute, **BANGLADESH**
- iii) ‘Agricultural Extension Field Trip’ (in 1996), at Bangladesh Agricultural University, Mymensingh, **BANGLADESH**

Member of Professional Organizations:

- * Member, Japan Society of Fisheries Sciences
- * Member, Japan Society of Fish Pathologist
- * Member, Bangladesh Society of Microbiologists
- * Member, Bangladesh Society of Fisheries
- * Life member, Bangladesh Academy for Advancement of Science
- * Member, Bangladesh Plant Tissue culture and Biotechnology Society
- * Member, Krishibid Institution of Bangladesh

Supervision of Graduate and Undergraduate Reserach Students:

- Supervised research works of 23 (twenty three) Undergraduate Students.
- Supervised research works of 5 (five) Undergraduate Students.
- Supervising research works of 1 (one) Ph D and 3 (three) Masters Students.
- Reviewers of some international journals.

Publications:

- * **Total Number of Published Research Articles:** 22 (Please see Annexure 1)
- * **Total Number of Published Books:** 01 (Please see Annexure 1)

References:**i) Professor Dr. Md. Tofazzal Islam**

Professor and Head

Department of Biotechnology

Bangabandhu Sheikh Mujibur Rahman Agricultural University

Gazipur-1706, Bangladesh.

Phone no.: +880-2-9205310-14 Ext. 2252

ii) Professor Dr. Aminul Haque

Professor

Department of Electrical and Electronic Engineering

Bangladesh University of Engineering and Technology

Dhaka, Bangladesh.

Signatruire

(Dr. Md. Mahbubur Rahman)

Annexure 1

- i) M. J. Foysal, **M. M. Rahman** and M. S. H. Prodhan. 2013. PCR based molecular detection of the *gyrB2* gene from the *Klebsiella* sp. isolates from patients who were suffering from pneumonia and urinary tract infections (UTIs). Journal of Clinical and Diagnostic Research. 7(1): 23-25. (Published from India)
- ii) Md. Javed Foysal, Md. Mahbubur Rahman, Md. Shamsul Haque Prodhan, Md. Faruque Miah, Md. Nazmul Hossain, Kamrul Islam. 2013 Identification and Assay of Putative Virulence Properties of *Escherichia coli* gyrase Subunit A and B Among Hospitalized UTI Patients in Bangladesh. Inn. Pharmacotherapy, Vol 1. (1), 54-59.
- iii) Md. Al Nayem Chowdhury¹, Md. Nazmul Hossain¹, Md. Mahbubur Rahman², *Md. Ashrafuzzaman¹ Prevalence of multidrug resistance in human pathogenic *Staphylococcus aureus* and their sensitivity to *Allamanda cathartica* L. leaf extract. International Current Pharmaceutical Journal, October 2013, 2(11): 185-188
- iv) N. S. Das, J. Dey, M. M. Rahman, H. M. Zahid, A. Nessa, A. H. Talukdar. 2013. Bioburden of Human Amniotic Membranes and Inhibition of the Associated Bacteria using Antibiotics and Gamma-Radiation. Global Journal of Medical Research. 13 (2) (in Press) (Published from USA)
- v) R. Sharmeen, M. N. Hossain, **M. M. Rahman**, M. J. Foysal, M. F. Miah. 2012. *In-vitro* antibacterial activity of herbal aqueous extract against multi-drug resistant *Klebsiella* sp. isolated from human clinical samples. International Current Pharmaceutical Journal. 1(6): 133-137.
- vi) M. F. Hasan, M. J. Foysal, M. N. Hossain, H. Ferdowsy, **M. M. Rahman**, 2012. *In Vitro* Antibacterial Activity of Common Antibiotics and Herb Extracts to Clinical Isolates of *Escherichia coli* Collected from UTI Patient. International Journal of Research in Pharmaceutical and Biomedical Sciences. 3 (2): 987-992. (Published from India)
- vii) M. J. Foysal, M. N. Hossain, and **M. M. Rahman**. 2012. Antibiotic susceptibility profiling and *in-vitro* antibacterial activity of some plant extracts to *Escherichia coli* isolated from spoiled rice and egg. International Journal of Biosciences. 2 (5): 40-46.
- viii) H. Ferdowsy, M. J. Foysal, M. N. Hossain and **M. M. Rahman**. 2011. Isolation of *Edwardsiella* sp. from diseased catfishes and their sensitivity to some antibiotics and medicinal plant extracts. International Journal of BioResearch. 11 (1): 48-53.
- ix) M. J. Foysal, **M. M. Rahman** and M. Alam. 2011. Antibiotic Sensitivity of Plant Extracts to *Pseudomonas fluorescens* Isolates Collected from Diseased Fish. International Journal of Natural Sciences. 1 (4): 83-89.

- x) M. Alam, **M. M. Rahman**, M. J. Foysal and M. N. Hossain, 2011. Determination of Lethal Concentration and Antibacterial Activity of Commonly Used Disinfectants. *International Journal of Natural Sciences*. 1 (4): 103-106.
- xi) F. Azim, **M. M. Rahman**, S. H. Prodhan, S. U. Shikdar, N. Zobayer and M. Ashrafuzzaman. 2011. Development of Efficient Callus Initiation of Malta (*Citrus sinensis*) through Tissue Culture. *International Journal of Agricultural Research Innovation and Technology*. 1 (1 & 2) 64-68.
- xii) **M. M. Rahman**, H. Ferdowsy, M. A. Kashem and M. J. Foysal. 2010. Tail and Fin rot disease of Indian Major Carp and Climbing Perch in Bangladesh. *Journal of Biological Sciences*. 10 (8): 800-804.
- xiii) J. Dey, N. S. Das, A. Nessa, H. M. Zahid, M. S. Prodhan and **M. M. Rahman**. 2010. Studies on the Bacteria isolated from human bone samples. *International Journal of BioResearch*. 9 (2): 1-8.
- xiv) **M. M. Rahman** and M. N. Hossain. 2010. Antibiotic and Herbal Sensitivity of Some *Aeromonas* sp. Isolates Collected from Diseased Carp Fishes. *Progressive Agriculture*. 21. (1& 2): 117-129.
- xv) **M. M. Rahman**, T. Somseri, R. Tanaka, T. Sawabe, and K. Tajima. 2005. PCR-RFLP analysis of *Aeromonas* isolates collected from diseased fish and aquatic animals. *Fish Pathology*. 40 (4): 151-159. (Published from Japan).
- xvi) **M. M. Rahman**, T. Somsiri, Y. Ezura and K. Tajima. 2004. Distribution of *Aeromonas* spp. emphasizing on a newly identified species *Aeromonas* sp. T8 isolated from EUS-affected fish and aquatic animals in Southeast Asia. *Pakistan Journal of Biological Sciences*. 7 (2): 258-268.
- xvii) **M. M. Rahman**, T. Somsiri, K. Tajima and Y. Ezura. 2003. Virulence properties of a newly identified species *Aeromonas* sp. T8 group isolated from EUS-affected fish. *Fish Pathology*. 38 (4): 151-161. (Published from Japan).
- xviii) **M. M. Rahman** and M. B. R. Chowdhury. 1999. Incidence of ulcer disease in African catfish (*Clarias gariepinus* Burchell) and trial for its chemotherapy. *Bangladesh Journal of Fisheries Research*. 3 (2): 193-200.
- xix) **M. M. Rahman**, M. B. R. Chowdhury, M. N. Uddin and H. K. Pal. 1998. Occurrence of ulcer disease in some wild fishes in Mymensingh, Bangladesh. *Bangladesh Journal of Microbiology*. 15: 9-16.
- xx) M. B. R. Chowdhury, M. Nahiduzzaman, **M. M. Rahman** and M. N. Uddin. 1998. Status of bacterial flora in a hybrid catfish, *Clarias batrachus* × *Clarias gariepinus*.

Bangladesh Journal of Fisheries. 21: 49-54.

- xxi) M. A. Sarker, M. B. R. Chowdhury, **M. M. Rahman** and M. A. Kashem 1998. Pathogenicity and antibiotic resistance of some *Aeromonas hydrophila* isolates. Bangladesh Journal of Fisheries. 21: 61-64.
- xxii) H. K. Pal, M. B. R. Chowdhury, M. N. Uddin and **M. M. Rahman**. 1997. Experimental infection of silver-barb (*Puntius gonionotus*) with some recovered pseudomonad isolates. Bangladesh Journal of Fisheries. 20: 77-80.
- xxiii) M. M. Iqbal, M. B. R. Chowdhury, M. N. Uddin and **M. M. Rahman**. 1996. Studies on the bacterial flora in the slime and kidney of a farmed fish, *Cirrhinus mrigala*. Bangladesh Journal of Fisheries. 19: 87-93.
- xxiv) **M. M. Rahman** and M. B. R. Chowdhury. 1996. Isolation of bacterial pathogen causing an ulcer disease in farmed carp fishes of Mymensingh. Bangladesh Journal of Fisheries. 19: 103-110.

Book:

1. M. F. Miah, M. J. Alam, **M. M. Rahman**, N. G. Roy, and P. Deb. 2008. Gene Prokoushol o Jaiboprojukti (Genetic Engineering and Biotechnology), Mullik Brothers Publications, 42, Bangla Bazer, Dhaka, ISBN: 984-8272-33-X, Page-308 (A Book for the Zoology (Hons.) and MS students of National University, Bangladesh).