

Curriculum Vitae

Dr Md. Ali Reza Faruk

BSc (Hons), MSc, PhD, Post-doc

Professor



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Address: Department of Aquaculture
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Education:

- **Post-doc** (Molecular Biology): University of Aberdeen, Scotland, UK (2009)
- **Ph.D.** (Fish Disease and Immunology): Institute of Aquaculture, University of Stirling, Scotland, UK (2000)
- **M. Sc. Aquatic Pathobiology** (taught component): Institute of Aquaculture, University of Stirling, UK (1997)
- **M. Sc. Fisheries:** Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh (1989)
- **B. Sc. Fisheries (Honours):** BAU, Mymensingh, Bangladesh, (1988)

Teaching Experience:

- Professor, Department of Aquaculture, BAU from July 26, 2005 to date
- Associate Professor, Department of Aquaculture, BAU from November 25, 2000 to July 25, 2005.
- Assistant Professor, Department of Aquaculture, BAU from October 11 to November 24, 2000.
- Assistant Professor, Dept. of Fisheries Technology, BAU from March 8, 1996 to October 11, 2000.
- Lecturer, Department of Fisheries Technology, BAU from May 28, 1992 to March 7, 1996.

Recognized Teacher of Stirling University, UK:

Recognized Teacher of the University of Stirling, Scotland, UK for the M.Sc in Aquatic Resource Management- an web-based Distance Learning course between University of Stirling and Bangladesh Agricultural University since March 2005

Teaching Courses:

- Prevention and Control of Fish Diseases
- Fish Immunology
- Fish Pathology
- Fish Health Management

Students Supervision:

- Supervised 20 students for their MS degree

Research Interest:

- Aquatic animal health management
- Molecular mycology
- Development of immuno-diagnosis
- Characterization of aquatic pathogens

Current Research:

- Molecular characterization of Oomycete pathogen *Saprolegnia*
- Strategy development for fish and shrimp disease control
- Characterization of bacterial fish pathogens in aquaculture
- Integrated fish health management in rural aquaculture
- Study on hazardous chemicals in aquaculture

Academic Awards:

- Islamic Development Bank Merit Scholarship for Post-doctoral study in Scotland, UK, 2009
- British Technical Assistance Scholarship for Doctoral Program in Scotland, UK, 1996
- Department for International (DFID) teaching award to develop the course curricula for the subjects related to fish health management, 2002.

Research Grants:

- Ministry of Science and Information & Communication Technology (MOSICT) research grant, 2007-08
- World Fish Center and Bangladesh Fisheries Research Forum (BFRF) grant, 2007.
- Bangladesh agricultural University Research system (BAURES) grant 2006-08
- MOSICT research grant, 2005-06
- Bangladesh Agricultural Research Council (BARC) research grant, 2006-07
- Department for International (DFID), UK/BFRF Research grant, 2005.
- University Grants Commission (UGC) Research grant, 2004-2005.
- UGC Research Award, 2003-2004.
- DFID/SUFER (Support for University Fisheries Education and Research) grant, 2003.
- World Fish Center research grant, 2003.

Conferences, Course and Workshop:

- International Symposium on Catfish Farming in Asia from 5-7 December, 2008, Can Tho University, **Vietnam**.
- Pangasius Aquaculture Dialogue from 2-4 December 2008, Can Tho University, **Vietnam**.
- ARD Review Meeting, University of Stirling, **UK** from 20-26 January 2008.
- 3rd Fisheries Conference and Research Fair at BARC, Dhaka, 16-17 January 2008.
- 1st National Workshop on Freshwater Prawn Farming: Search for New Technologies at Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh in 16 May 2007.
- 2nd Fisheries Conference and Research Fair 2006 at BARC, Dhaka from 18-19 January 2006.
- 6th Symposium on Diseases in Asian Aquaculture held at Colombo, **Sri Lanka**, 23-28 October 2005.
- Designing of course curriculum for Distance Learning course on MSc in Aquatic Resource Development, Institute of Aquaculture, University of Stirling, **UK** from 07 January to 13 February 2005.

- 7th Asian Fisheries Forum held at Penang, **Malaysia**, 30 November to 4 December 2004.
- 1st Fisheries Education and Research Fair 2004 at Dhaka, Bangladesh from 19-20 July 2004
- European Association of Fish Pathologist (EAFP) 9th International Conference held at Rhodes, **Greece**, 19-24 September 1999.
- EAFP 8th International Conference held at Heriot-Watt University, Edinburgh, **Scotland**, 14-19 September 1997.
- Workshop on Strengthening Fishery Education Bangladesh University Teachers organized by SUFER, DFID held at AIT, Bangkok, **Thailand** from 4-22 March 2002.
- Taught component of M.Sc. Aquatic Pathobiology course at the Institute of Aquaculture, University of Stirling, **Scotland, UK** from September 1996 to March 1997.
- Technical Training in Fish Bacteriology and Histopathology at the Institute of Aquaculture, University of Stirling, **Scotland, UK** from March to August 1996.
- Training Workshop on Scientific Paper Writing for International Journals organised by SUFER Project, DFID held at Srimangal, from 07-15 December 2003.
- Sustainable Livelihood Assessment Workshop organized by the SUFER Project, DFID, UK held at MV Absor, facilitated by Michael D. DeVries, TANGO International, Inc. USA from 12-20 January 2003.
- Workshop on Participatory Fisheries Research Identification and Implementatioⁿ organised by the SUFER Project, DFID held at Cox's Bazar facilitated by VenKatesh Salagrama, ICM, India from 24-28 November 2002.
- Training Workshop on Research Proposal writing for National and International Funding organised by SUFER Project, DFID held at Srimangal, from 17-29 August 2002.
- Education and Training of Personnel under the Animals (Scientific Procedures) Act 1986: Course for Personal Licensees" held at the University of Dundee in October and at University of Stirling, UK in November, 1996.
- Fisheries Research Planning and Management organised by Bangladesh Fisheries Research Institute (BFRI), from 3-8 May 1993.
- Statistical Methods for Research organised by Graduate Training Institute, Bangladesh Agricultural University, from 4-25 November 1993.

Co-organizer of Workshop:

- 1st National Workshop on "Freshwater Prawn Farming: search for New Technologies" organized by Bangladesh Agricultural University (BAU) and Bangladesh Fisheries Research (BFRF) at BAU, Mymensingh, Bangladesh in 16 May 2007.

Editor (Fisheries):

- Progressive Agriculture

Reviewer:

- Bangladesh Journal of Fisheries
- Journal of Agriculture & Rural Development
- Progressive Agriculture
- Bangladesh. Journal of Fisheries Research and Bangladesh
- Journal of Progressive Science and Technology

Membership in Scientific Bodies:

- Full member in the Asian Fisheries Forum
- Life member in the Bangladesh Fisheries Research Forum
- Member in Fisheries Society of Bangladesh
- Life member in the Progressive Agriculturists, Bangladesh
- Member in Agriculturist's Forum of Bangladesh

Selected Publications:

Faruk, M.A.R., M.M.Ali and Z.P.Patwary. 2008. Evaluation of the status of use of chemicals and antibiotics in freshwater aquaculture activities with special emphasis to fish health management. *J. Bangladesh Agril. Uni.* 6(2): 381-390

Z.P.Patwary, **M.A.R. Faruk** and M.M.Ali. 2008. Clinical and histopathological study of important air-breathing fishes. *Progress. Agric.* 19(1): 69-78

Habib K. A., M. B. R. Chowdhury and **M. A. R. Faruk**. 2007. Recovery of fish parasitic fungi from diseased fishes. *Progress. Agric.* 18(1): 147-154

Rahman, M. Z., M. N. Hassan and **M. A. R. Faruk**. 2007. Status of mollusc collectors in some selected coastal areas of Bangladesh *Progress. Agric.* 18(1): 165-172

Mahmud, S., P. V. Mladenov, S. C. Chakraborty and **M. A. R. Faruk**. 2007. Relationship between gonad condition and neurosecretory cell activity in the green-lipped mussel, *Perna canaliculus* *Progress. Agric.* 18(2): 135-148.

Marma, G. U. Ahmed, **M. A. R. Faruk** and K. Gosh. 2007. Investigation of health issues of a small indigenous fish *nandus nandus* from fish markets. *Progress. Agric.* 18(2): 167-174

Haque, M.A., **M.A.R. Faruk** and A.K. Bakshi. 2007. Culture and health management practices of freshwater prawn (*Macrobrachium rosenbergii*) in Mymensingh district. *Bangladesh. J. Prog. Sci. & Tech.*, 5(20): 305-308.

Kulsum, U and **M.A.R. Faruk**. 2006. Culture practices and disease status of farmed Thai Koi, *Anabas testudineus*. *Prog. Agric.*, 17 (2): 85-95.

Faruk M.A. R., Kamrunehar and M. Afroz. 2006. Participation of women in aquaculture activities in Mymensingh area of Bangladesh. *Prog. Agric.*, 17 (2): 115-124.

Faruk, M.A.R., Sultana and M.B. Kabir. 2005. Use of chemicals in aquaculture activities in Mymensingh area, Bangladesh. *Bangladesh J. Fish.* 29 (1-2): 1-10

Faruk, M.A.R., Sarkar, M.T.R., Ahmed, G.U. and M.M. Mostafa. 2005. Some herbal extracts against diseased Thai pangas, *Pangasius hypophthalmus*. *Bangladesh J. Fish.*, 29(1-2): 107-114

Faruk, M.A.R. 2005. Health and disease status of Thai pangas, *Pangasius hypophthalmus* cultured in rural ponds of Mymensingh, Bangladesh. *Bangladesh J. Fish. Res.*, 9(1): 51-53

Zahura, U.A., Chowdhury, M.B.R and **Faruk, M.A.R.** 2004. Fungal infection in the freshwater fishes of Mymensingh area in Bangladesh. *Indian J. Fish.*, 51 (1): 61-68

Faruk, M.A.R. Saeker, M.M.R., Alam, M.J. Alam and M.B. Kabir. 2004. Economic loss from fish diseases on rural freshwater aquaculture of Bangladesh. *Pakistan J. Biol. Sci.*, 7(12): 2086-2091

Faruk, M.A.R., Alam, M.J. Alam, Sarker, M.M.R and M.B. Kabir. 2004. Status of fish disease and health management practices in rural freshwater aquaculture of Bangladesh. *Pakistan J. Biol. Sci.*, 7 (12): 2092-2098

Habib K.A., M. B. R. Chowdhury and **M.A.R. Faruk.** 2004. Growth performances of some fish parasitic fungi at different temperature and pH^H. *Bangladesh J. Fish.*, 28 (1-2): 15-21

M.A.R. Faruk, A.P. Chakma, G.U. Ahmed and M. Nessa. 2004. Histopathological observation on the effect of potassium permanganate in curing diseased small indigenous fish species. *Progress. Agric.*, 15 (1): 195-203

M.A.R Faruk, M.J. Islam and M.J. Alam. 2003. Status of diseases of Thai pangas, *Pangasius hypophthalmus* in Mymensingh area, Bangladesh. 2003. *Bangladesh J. Fish.*, 26(1-2): 113-141

Habib K. A., M. B. R. Chowdhury and **M.A.R. Faruk.** 2003. Pathogenicity of three fish parasitic fungi on Silver barb (*Barbodes gonionotus*). *Bangladesh J. Fish.* 26(1-2): 17-22

Faruk, M.A.R. Campbell, R.E., Thompson, K.D. Rangdale, R.E. and Richards, R.H. 2002 Characterisation of *Flavobacterium psychrophilum*, the causative agent of rainbow trout fry syndrome (RTFS), using rabbit serum. *Bull. Euro. Assoc. Fish Pathol.*, (UK), 22(6): 354-365.

Faruk. M.A.R. 2002. A review on rainbow trout fry syndrome (RTFS). *Pakistan J. Biol. Sci.*, 5(2): 230-233

Sarker, M.G.A, **Faruk, M.A.R.**, Chowdhury, M.B.R. and Uddin, M.N. 2002. Virulence and drug sensitivity of *Flavobacterium columnare*, the causative agent of columnaris disease. *Pakistan J. Biol. Sci.*, 5(2): 204-207

Faruk, M.A.R., Akter, M.S., Nessa, M. and Rozareo, U. A. 2002. Studies of fish diseases of carp polyculture systems through histopathological technique. *Bangladesh J. Fish.*, 25 (1-2): 23-33

Zahura, U.A., Chowdhury, M.B.R and **Faruk, M.A.R.** 2002. Pathogenicity of fungi isolated from diseased fishes in Mymensingh area. *Bangladesh J. Fish.*, 25 (1-2): 61-66

Faruk, M.A.R., Happy, H.R., Chakraborty, S.C. and Hossain, M.B. 2001. Evaluation of the quality aspects of dry salted hilsa (*Hilsa ilisha*) prepared at different salt concentrations and salted hilsa from market, *Bangladesh J. Fish.*, 24 (1-2): 123-131

Faruk, M.A.R and Thompson, K.D. 2000. Phenotypic characteristics of *Flavobacterium psychrophilum*, the causative agent of rainbow trout fry syndrome. *Bangladesh J. Fish.*, 23(1): 1-10.

Faruk, M.A.R 2000. Antibody response of rainbow trout (*Oncorhynchus mykiss*) to *Flavobacterium psychrophilum*, the causative agent of rainbow trout fry syndrome

(RTFS). *Bangladesh J. Fish.*, 23(2): 1-8.

Faruk, M.A.R. 2000. An overview of *Cytophaga/Flexibacter/Flavobacterium* sp. infection in fish. *Bangladesh J. Fish.*, 23(2): 69-80.

Sarker, M.G.A., Uddin, M.N., Sarker, M.A., **Faruk, M.A.R.** and Chowdhury M.B.R. 2000. Bacteriological investigation on epizootic ulcerative syndrome in wild water fishes of Bangladesh. *Bangladesh J. Fish.*, 23(1): 31-35.

Sarker, M.G.A., Chowdhury, **M.B.R.**, **Faruk, M.A.R.**, Uddin, M.N. and Islam, M.J. 2000. Effects of temperature on the infectivity of *Aeromonas hydrophila* isolates. *Bangladesh J. Fish.*, 23(2): 99-105.

Sarker, M.G.A., **Faruk, M.A.R.**, Uddin, M.N., Sarker, M.A. and Chowdhury, M.B.R. 1999. Bacteriological studies on farmed catfish Thai pangus, *Pangasius sutchi*. *Progress. Agric.*, 10 (1&2): 209-212.

Hossain, M.I., Kamal, M., Hossain, **M.A.R. Faruk** and Islam, M.N 1998. Post-mortem changes in mrigal fish (*Cirrhina mrigala*)-I. Studies on the rigormortis and changes in muscle protein at various storage temperature. *Bangladesh J. Agril. Sci.*, 25(1):83-89.

Faruk, M.A.R., Kamal, M., Hossain, M.A., Hossain, M.R.A. and Islam, M.N. 1998. Post-mortem changes in rohu fish (*Labeo rohita*)-II. The organoleptic, biochemical and bacteriological changes in fish during ice storage in an insulated box. *Bangladesh J. Agril. Sci.*, 25(2):149-157.

Islam, M.N., **Faruk, M.A.R.** and Inglis, V. 1997. Disinfection of aquarium effluents by chlorinating and UV treatment. *Bangladesh J. Fish. Res.*, 1(1): 01-08.

Hoque, M.E., Kamal, M., Ahmed, K., **Faruk, M.A.R.** and Khan, M.N.A. 1997. Post-mortem changes in hilsa fish-I. Studies on rigor-mortis, typical yields and protein composition of dark and white muscle of hilsa fish (*Tenualosa ilisha* Ham.). *Bangladesh J. Fish. Res.*, 1(1): 91-99.

Faruk, M.A.R., Kamal, M., Hossain, M.A., Hossain, M.R.A. and Hossain, M.I. 1997. Studies on rigor-mortis and changes in muscle pH on the drip loss under different storage conditions of rohu fish (*Labeo rohita*). *Bangladesh J. Agril. Sci.*, 24(2): 43-49.

Hossain, M.I., Kamal, M., Hossain, M.A., Islam, M.N, Chakraborty, S.C. and **Faruk, M.A.R.** 1996. Post-mortem changes in mrigal fish (*Cirrhina mrigala*)-II. Studies on the post-mortem quality changes in mrigal fish during ice storage in an insulated box. *Prog. Agric.*, 7(1):21-27.

Chakraborty, S.C., Kamal, M., Gheyasuddin, S., Uddin, M.N., **Faruk, M.A.R.** and Hossain, M.A. 1996. An improved methods for handling, transportation, and processing of high quality hilsa fish (*Hilsa ilisha*)-III. Microbial aspects of quality changes in hilsa during ice storage. *Journal Asiat. Soc. Bangladesh, Sci.*, 22(2):195-200.

Kamal, M., Hossain, M.R.A., Hossain, M.A., Islam, M.N. and **Faruk, M.A.R.** 1995. Preparation of a surimi based paste product from under-utilized marine fishes of Bangladesh-I. Studies on biochemical characteristics of raw materials and properties of kamaboko prepared from surimi. *Progress. Agric.*, 6(2):117-123.

Faruk, M.A.R., Kamal, M., Alamgir, S.M., Islam, M.N. and Hossain, M.A. 1994. Post-mortem changes in fish-I. Onset and progress of rigor-mortis in two important freshwater fishes of Bangladesh. *The Bangladesh Vet.*, 11(1-2): 23-27.

Kamal, M., **Faruk, M.A.R.**, Alamgir, S.M., Hossain, M.A. and Islam, M.N. 1994. Post-mortem changes in fish-II. Effects of rigor-mortis and changes in muscle pH on the drip loss during ice storage of catla (*Catla catla*). *The Bangladesh Vet.*, 11(1-2): 28-32.

Proceeding/Abstract:

Faruk, M.A.R. 2007. Disease and health management practices of two important farmed exotic fishes in Bangladesh. *In: Fisheries and Aquaculture: Strategic Outlook for Asia, Book of Abstract-8th Asian Fisheries Forum (organized by Asian Fisheries Society, India Branch), November 20-23, 2007, Kochi, India, p 26-27.*

Wahab, M.A. and **M.A.R. Faruk** (eds.). 2007. Abstracts- National Workshop on "Freshwater Prawn Farming: Search for New Technologies". 16 May, 2007. Bangladesh Agricultural University, Mymensingh. Bangladesh Agricultural University & Bangladesh Fisheries Research Forum. 28 p.

Alam, A.K.M.N., **M.A.R. Faruk**, M.N. Ahsan and R. Islam. 2007. Studies on nitrofurantoin contamination in exportable shrimp and prawn products. *In: Wahab, M.A. and M.A.R. Faruk (eds.). Abstracts-National Workshop on Freshwater Prawn Farming: Search for New Technologies. p. 19. 16 May, 2007. Bangladesh Agricultural University, Mymensingh. Bangladesh Agricultural University & Bangladesh Fisheries Research Forum. 28 p.*

Faruk, M.A.R. 2006. Incidence and impact of diseases in fish hatcheries and nurseries in Bangladesh. *Bangladesh Agricultural University Research Progress, 17: 73*

Faruk, M.A.R. 2006. Diseases of some farmed exotic fishes in Bangladesh. *In: Abstracts. 2nd Fisheries Conference and Research Fair 2006. 18-19 January 2006, BARC, Dhaka, BFRF, Dhaka pp 44.*

Faruk, M.A.R. G.U. Ahmed and M. Afroz and M.Z Rahman 2006. A study on mollusc marketing system in Bangladesh: non-edible market analysis. *In: Abstracts. 2nd Fisheries Conference and Research Fair 2006. 18-19 January 2006, BARC, DHAKA, BFRF, Dhaka pp 116.*

Solaiman, M. K. A. Haq., **M.A.R. Faruk** and M.A.R. Hossain. 2006. Mollusc marketing system through value chain analysis with special emphasis on livelihood of the poor fishermen. *In: Islam, M.A., K. Ahmed and M. Aktheruzzaman (eds). Value chain analysis and market assessment of coastal and marine products of Bangladesh. Bangladesh Fisheries Research Forum (BFRF), Dhaka, Bangladesh. pp 55-85.*

Faruk, M.A.R. 2005. Diseases of farmed exotic catfish *Pangasius hypophthalmus* in Bangladesh. *In: World Aquaculture 2005-Meeting Abstract. <http://www.was.org/meetings/AbstractData.asp? AbstractID=8554>. pp 526.*

Faruk, M.A.R. 2004. Economic loss from fish diseases in rural freshwater aquaculture of Bangladesh. *In: Proceedings of the 7th Asian Fisheries Forum, held in Penang, Malaysia from Nov 30 to Dec 4, 2004.*

Faruk, M.A.R., Thompson, K.D. and Richards, R.H. 1999. Characterisation of *Flavobacterium psychrophilum*, the causative agent of rainbow trout fry syndrome (RTFS), using ELISA and Western blot analysis. *In: Proceedings of the EAFP 9th International Conference on "Diseases of Fish and Shellfish" held in Rhodes, Greece, from September 19-24, 1999.*

References:

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