

## CURRICULUM VITAE

**Md. Ariful Islam, DVM, MS, PhD**

***Associate Professor***

Department of Microbiology & Hygiene  
Faculty of Veterinary Science  
Bangladesh Agricultural University (BAU)  
Mymensingh-2202, Bangladesh

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**EDUCATION:**

**Post-Doctoral research:** Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA 24060, USA

**Research project:** The ability of antisense DNA construct (peptide nucleic acids) to inhibit growth of bacteria as typified by the genera *Brucella* and *Mycobacterium*.

**Ph.D.** in Veterinary Medicine, Chonbuk National University, Jeonju, South Korea

**Results:** Obtained GPA : 4 out of 4 (Grade A), 2010

**Dissertation:** Investigation of the effects of *Brucella abortus* biotype 1 on Sprague-Dawley rats vaccinated with strain RB51

**M.S.** in Microbiology: Bangladesh Agricultural University, Mymensingh, 2004.

**Results:** First class.

**Thesis:** Characterization of Infectious bursal disease virus isolated from Bangladesh Agricultural University poultry farm

**D.V.M.** (Doctor of Veterinary Medicine), Bangladesh Agricultural University, Mymensingh, 1997. **Results:** First class, position: first (In order of merit).

**EMPLOYMENT HISTORY:**

***Associate Professor***

Dept. of Microbiology & Hygiene, Bangladesh Agricultural University  
22/02/2010-to date (**Duties:** teaching and research)

***Assistant Professor***

Dept. of Microbiology & Hygiene, Bangladesh Agricultural University  
21/05/2005-21/02/2010 (**Duties:** teaching and research)

**Researcher-** Molecular epidemiology of swine influenza viruses. National Institute of Animal Health (NIAH), Tsukuba, Japan

June, 17 - December 16, 2006 (**Responsibilities:** cultivation of viruses, primer designing, RT-PCR, sequencing of PCR products)

***Lecturer***

Dept. of Microbiology & Hygiene, Bangladesh Agricultural University  
25/05/ 2003-20/5/ 2005(**Duties:** teaching and research)

***Captain***

Remount Veterinary and Farm Corps, Bangladesh Army

1998-2003 (**Duties:** Disease diagnosis, treatment, management and training of war dogs, dairy cattle and horses)

**RESEARCH INTERESTS:**

Characterization of important bacterial and viral pathogens of humans and animals.

Development of vaccines and diagnostic kits against important bacterial and viral pathogens infecting humans and animals

**RESEARCH SKILLS:**

Primer designing and PCR, western blot assay, ELISA, lymphocyte proliferation assay, cultivation of bacteria and viruses, histopathology, handling of laboratory animals (Rats, Mice and Guinea pig)

**PARTICIPATION IN THE INTERNATIONAL SEMINARS:**

| Date                 | Name and place of the conference                                                                    | Participation nature |
|----------------------|-----------------------------------------------------------------------------------------------------|----------------------|
| 4-7 April, 2005      | 3 <sup>rd</sup> International poultry conference, Hurghada, <b>Egypt</b>                            | Oral presentation    |
| 4-7 September, 2005  | 5 <sup>th</sup> Awaji international forum on infection and immunity, Awaji-shi, Hyogo, <b>Japan</b> | Poster presentation  |
| 3-6 November, 2005   | 3 <sup>rd</sup> International water fowl conference, GuangZhou, <b>China</b>                        | Poster presentation  |
| 30 June-4 July, 2008 | XXIII World's poultry congress, Brisbane, <b>Australia</b>                                          | Poster presentation  |
| 21 March, 2013       | Mycobacterium tuberculosis conference, London, <b>UK</b>                                            | Poster presentation  |

**GRANTS AND FELLOWSHIP:**

Bangladesh Agricultural University Research System (BAURES) research grant on “Epidemiological investigation and molecular detection of brucella in cattle and goats in Bangladesh” from July 2011-June 2012.

Korean Research Foundation (KRF) fellowship for pursuing doctoral study in the Chonbuk National University, South Korea.

Islamic Development Bank Merit scholarship Award for pursuing postdoctoral research at the Virginia Tech, Blacksburg, VA, USA

**AWARDS AND HONORS:**

Obtained “**University award**” from the Bangladesh Agricultural University for excellent academic performance.

**LIST OF PUBLICATIONS:**

1. **Islam MA**, Khatun MM and Baek BK. (2013). Male rats transmit *Brucella abortus* biotype 1 through sexual intercourse. *Veterinary Microbiology*. <http://dx.doi.org/10.1016/j.vetmic.2013.04.016>.
2. Sultana S, **Islam MA**, Khatun MM and Nasrin S (2012.) Multidrug resistant bacteria found in the respiratory tract of apparently healthy quails. *Microbes Health*, 1 (2): 46-49.
3. Hosain MS, **Islam MA**, Khatun MM and Dey RK, (2012). Prevalence and antibiogram profiles of Salmonella isolated from pigeons in Mymensingh, Bangladesh. *Microbes Health*, 1 (2): 54-57.
4. Naurin S, **Islam MA** and Khatun MM. 2012. Prevalence of Salmonella in apparently healthy chickens in Mymensingh, Bangladesh, *Microbes Health*, 1(1): 30-33.
5. Jakaria ATM, **Islam MA** and MM Khatun MM. (2012). Prevalence, characteristics and antibiogram profiles of escherichia coli isolated from apparently healthy chickens in Mymensingh, Bangladesh. *Microbes Health*, 1(1): 27-29.

6. Akter MS, Saha S, **Islam MA** and MG Hossain MG. (2012). Investigation on the efficacy of a killed Salmonella pullorum vaccine, *Microbes Health*, 1(1): 14-18.
7. Nasrin S, **Islam MA**, Khatun MM, Akhter L and Sultana S. (2012). Characterization of bacteria associated with omphalitis in chicks. *Bangladesh Veterinarian* 29(2): 63-68.
8. **Islam MA**, Khatun MM and Baek BK. (2012). Rats borne to brucella infected mother become latent carriers of brucella . *Journal of Infection in Developing countries*. 6(3): 256-261. PMID: 22421607.
9. Momin MA, **Islam MA**, Khatun MM, Rahman MM, Islam MA. (2011). Characterization of Bacteria associated with pneumonia in black Bengal goats. *Bangladesh Journal of Veterinary Medicine* 9(1): 67-71.
10. Baek BK, Park MY, **Islam MA**, Khatun MM, Lee SI and Boyle SM. (2011). The first detection of *Brucella canis* in Republic of Korea. *Zoonoses and Public Health*. doi: 10.1111/j.1863-2378.2011.01429.x
11. Lee SI, **Islam MA**, Khatun MM, Choi GY, Jung JM, Baek BK, Kakoma I. (2010). Immunoglobulin Profiles in Acute Brucellosis Experimentally Induced by *Brucella canis* in BALB/c Mice. *Vector Borne and Zoonotic Diseases*, doi:10.1089/vbz.2009.0125. **PMID: 20420532**
12. **Islam MA**, Khatun MM, Baek BK and Lee SI (2009). Effects of *B. abortus* biotype 1 on the reproductive performance of Sprague-Dawley rats. *Pakistan Journal of Biological Science*, 12(4) : 353-359. **PMID: 19579969**
13. **Islam MA**, Khatun MM, Baek BK and Lee SI (2009). Efficacy of strain RB51 vaccine in protecting infection and vertical transmission against *Brucella abortus* in Sprague-Dawley rats. *Journal of Veterinary Science* 10(3): 211-218. **PMID: 19687621**
14. Khatun MM, **Islam MA**, Baek BK and Lee SI (2009). Characteristics of immune response in acute brucellosis in Sprague Dawley rats. *Journal of Infection in Developing Countries* 3 (5): 392-397. **PMID: 19759510**
15. Lee SI, Choi MJ, Khatun MM, **Islam MA**, Baek BK, Lee CS and Kakoma I (2009). Analysis of human brucellosis sera using western blot assay. *Korean Journal of Veterinary Public Health* 33(1): 39-45.
16. Khatun MM, **Islam MA**, Baek BK and Lee SI (2009). Cellular and humoral immune responses and antigen recognition in Sprague-Dawley rats experimentally infected with *Brucella abortus* biotype 1. *Asian Journal of Animal and Veterinary Advances*. 4(6): 267-277.
17. Lee SI, Choi MJ, Hur J, **Islam MA**, Khatun MM, Baek BK, Lee CS, Kakoma I, Boyle SM, Sriranganathan N, Young EJ (2008). Comparative serology of human brucellosis in Korea. *Korean Journal of Veterinary Service*, 31(3):331-338.

18. **Islam MA**, Khatun MM, Rahman MM (2005). Serologic and pathogenic characterization of Infectious Bursal disease virus isolated from Bangladesh. *The Bangladesh Veterinarian*, 22(2): 57-64.
19. Sikeder Aj, **Islam MA**, Rahman MM and Rahman MB (2005). Seroprevalence of Salmonella and Mycoplasma infection in six model breeder poultry farms at Patuakhali district in Bangladesh. *International Journal of poultry science*, 4(11): 905-910.
20. Hossain MT, Islam MA, Amin MM and **Islam MA** (2005) Comparative efficacy of the conventional and experimentally developed Duck plague vaccine. *International Journal of Poultry Science*, 4(6): 369-371.
21. Khatun MM, **Islam MA**, Rahman MM, Rahman MH (2005) Observation on the efficacy of the house hold sanitizing agents against ubiquitous microorganisms. *Bangladesh Journal of Veterinary Medicine*, 3(2): 156-159.
22. **Islam MA**, Rahman MM, Islam MR and Khatun MM (2004) Molecular Characterization of Infectious Bursal disease virus isolated from broiler chicken in Bangladesh. *International Journal of Poultry Science*, 3(10): 664-667.
23. Islam MA, **Islam MA**, Hossain MT, Sadequzzaman M, Hossain MM, Hossain MG (2003) Isolation and identification of naturally occurring velogenic neurotropic Newcastle disease viruses in Fayoumi chicken in Bangladesh. *Bangladesh Veterinary Journal* 37(1-4):1-9.
24. Khatun MM, **Islam MA**, Rahman MM and Rahman MA (2003) Assessment of sanitary quality of hygienically and traditionally handled beef carcasses, *The Bangladesh Veterinarian* 20 (2): 88-94.
25. Khatun MM, **Islam MA**, Rahman MM and Rahman MA (2003) Public Health impact of postharvest contamination of beef carcasses. *The Bangladesh Veterinarian* 20(2):95-101.
26. Khatun MM, **Islam MA**, Khan MSU and Rahman MM (2002) Coliform in Market beef sold in retail store. *Bangladesh Veterinary Journal*, 36 (3-4): 121-126.