

# Dr. Md. Mominul Islam

DVM, MS, PhD

Assistant Professor

Department of Pathology

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## PERSONAL INFORMATION

1. Name : Dr. Md. Mominul Islam
2. Father's name : Md. Abdul Jabbar
3. Mother's name : Most. Fiki Begum
4. Permanent address : Village: Mukundo pur, P.O. : Rampur  
Police Station : Kaharole  
District : Dinajpur, Bangladesh
5. Present address : Department of Pathology & Parasitology  
Faculty of Veterinary and Animal Science  
Hajee Mohammad Danesh Science and Technology  
University, Dinajpur-5200, Bangladesh
6. Date of Birth : 01.05.1985
7. Religion : Islam
8. Nationality : Bangladeshi
9. Cell Phone : 01741-713264
10. Marital status : Married

## EDUCATIONAL QUALIFICATIONS

Institutes/Board	Degree/Fellowship	Division/Class	Year of Passing
University of the Sunshine Coast, Marrochydore, Australia	PhD	Completed	2019
Hajee Mohammad Danesh Science and Technology University, Dinajpur	Master of Science (M.S) in Pathology	4.00 (out of 4.00)	2010
Hajee Mohammad Danesh Science and Technology University, Dinajpur	Doctor of Veterinary Medicine (DVM)	3.90 (Out of 4.00)	2008
Rajshahi	Higher Secondary Certificate (HSC)	First Division	2002
Rajshahi	Secondary School Certificate (SSC)	First Division	2000

Title of PhD Thesis: Understanding the pathogenicity of *Chlamydia pecorum* infections in livestock.

Title of MS Thesis: Dermatopathological conditions of street dog in Bangladesh.

## **TEACHING EXPERIENCES**

<b>Positions</b>	<b>Institute/University</b>	<b>Period</b>
Lecturer	Department of Pathology and Parasitology Hajee Mohammad Danesh Science and Technology University, Dinajpur-5200	01.02.2012 to 31.01.2014
Assistant Professor	Department of Pathology and Parasitology Hajee Mohammad Danesh Science and Technology University, Dinajpur-5200	01.02.2014 to 19.09.2019
Associate Professor	Department of Pathology and Parasitology Hajee Mohammad Danesh Science and Technology University, Dinajpur-5200	20.09.2019 to 18/12/2023
Assistant Professor	Department of Pathology Sher-e-Bangla Agricultural University, Dhaka-1207	19/12/2023 to date

## **TRAINING:**

<b>Venue</b>	<b>Working Objectives/Course</b>	<b>Period</b>
NIPSOM, Mohakhali, Dhaka	Biosafety and Biosecurity in Microbiological and Biomedical Research, Diagnostics and Clinical Care”.	16.07.2022 to 18.07.2022
FAO, Bangladesh in HSTU	Teacher Training Programme on Disease Control and Pedagogic Skills.	23.05.2022 to 25.05.2022
Centre for Advance Research in Sciences, DU, Dhaka PKSF, Dhaka	Biosafety and Biosecurity; Train the trainer Workshop . ToT on GLOBAL GAP Livestock Standards and HACCP.	7.06.2022 to 17.06.2022 08.052022 to 10.05.2022
Brisbane, Australia	Training for Biosecurity Awareness and Approved Arrangements for Accredited Persons (Class 1 to 8).	05.01.2018 to 07.01.2018
Bangladesh Agricultural University, Mymensingh	Foundation training for University Teachers in Graduate Training Institute, Bangladesh Agricultural University, Mymensingh, Bangladesh.	24.08.2014 to 15.09.2014

## **RESEARCH EXPERINECES**

- 07/2021-06/2022 IRT, HSTU grant, Chief investigator, Bangladesh  
Department of Pathology and Parasitology, HSTU, Bangladesh  
Prevalence and pathology of *Chlamydia psittaci* infection in chicken.  
Achievements: Completed the successfully.
- 07/2019-06/2020 IRT, HSTU grant, Chief investigator, Bangladesh  
Department of Pathology and Parasitology, HSTU, Bangladesh  
Prevalence and pathology of *Chlamydia pecorum* infection in cattle.  
Achievements: Completed the successfully, One Master of Science student work under the project.
- 04/2016-05/2019 Doctoral student. (USC scholarship recipient's, Australia)  
Genecology research center, USC, Australia  
Understanding the pathogenicity of *Chlamydia pecorum* infections in Livestock  
Achievements: Developed an in vivo infection model for *Chlamydia pecorum* in sheep; Performed fine-detailed molecular methods of to identify the *Chlamydia pecorum* pathogenesis in cellular level; Performed cell culture techniques to characterize the in vitro characteristics of different *Chlamydia pecorum* strains.

## **PRIZE AND HONORS**

- 04/2016-05/2019 University of the Sunshine Coast higher degree scholarship recipient's for PhD.
- 07/2009-06/2010 National Science and Information & Communication Technology (NSICT) Fellowship 2009-2010 from Ministry of Science and Information & Communication Technology, People's Republic of Bangladesh, for conducting MS thesis research.

## **SKILLS AND EXPERTISE**

Language proficiency	Bengali	Native
	English	Intermediate

IT  
Lab skill

Microsoft Office, Data analysis by excel, SPSS, GraphPad Prism software

- Design, development of quantitative, conventional and rapid Point-Of-Care diagnostic assays, including PCR products cloning, purification, and sequencing.
- Western blot, ELISA, immune cell culturing and staining
- Cell culturing: passaging, counting, infection, staining, phase-contrast microscopy, confocal microscopy.
- General bacteriology: media preparation, culturing, staining and

light microscopy.

### **PROFESSIONAL AND SCIENTIFIC MEMBERSHIPS:**

Registered Veterinarian	Bangladesh Veterinary Council
Member	Progotishil Shikkhak Forum, HSTU, Dinajpur.
Member	Krishibid Institution of Bangladesh (KIB), Dinajpur
Member	Bangladesh Veterinary Association
Member	Bangladesh society for livestock welfare and research (BSLWR).
Advisor	Bangladesh Veterinary Student Association, HSTU, Dinajpur.
Member	Bangladesh Society of Microbiology.

### **CONFERENCE ARTICLES**

1. Marsh, I; Sales, N; Stroud, L; McRae, D; **Islam, MM**; Jelocnik, M; Gilchrist, S; Hazelton, M; and Polkinghorne, A. Ovine arthritis, 2019, where are we and where do we want to be? Proceedings of the Annual Conference of the District Veterinarian's Association, 2019, Sydney, Australia.
2. **Islam, MM**; Jelocnik, M; Sales, N; Marsh, I; Hazelton, M; Gilchrist, Sand Polkinghorne, A. Development of *Chlamydia pecorum* arthritis infection model in lambs. Proceedings of the Conference of MedVet Pathogens. 8-11 October, 2018. Monash University, Prato Italy.
3. **Islam, MM**; Jelocnik, M; Sales, N; Marsh, I; Hazelton, M; Gilchrist, Sand Polkinghorne, A. Development of *Chlamydia pecorum* arthritis infection model in lambs. Proceedings of the 5<sup>th</sup> European meeting on animal chlamydiosis and zoonotic implications (EMAC-5), 3-5 October, 2018. Odesa, Ukraine.
4. Jelocnik, M; **Islam, MM**; Madden, D; Jenkins, C; Branley, J; Carver, S and Polkinghorne, A. Diagnosing Chlamydia psittaci and Chlamydia pecorum in less than an hour using rapid novel isothermal amplification assays. Australian Society for Microbiology Annual Scientific Meeting 2018 (Adelaide, Australia, 01- 04-July 2018)
5. **Islam, MM**; Jelocnik, M; Huston, WM; Timms, P. and Polkinghorne, A. 2018. Chlamydia pecorum response to Interferon gamma. Proceeding of the Australian Chlamydia Conference. 21-22 November, 2017. University of Technology Sydney, Australia.

### **PUBLISHED ARTICLES**

1. Md. Sadequl Islam, md. Samiul Haque , nasrin Sultana Tonu, md. Mushfiqur Rahman, najmul Hassan Parvez , md. Ariful Islam, **Md. Mominul Islam**, md. Bazlar Rashid, md. Mostafizer Rahman. Polystyrene microplastic exposure in mice: oxidative stress-induced testicular damage, AR gene suppression, and histopathological alterations. Journal of Experimental and Laboratory Medicine, 2024.
2. Farzana Afroz, hasnaif Mohammad Shifat, mst. Deloara Begum, mir Rowshan Akter, **Md. Mominul Islam**. Molecular characterization of extended spectrum  $\beta$ -lactamase producing Escherichia coli isolated from bovine mastitic milk in Northern Bangladesh. European Journal of Microbiology and Infectious Disease, 2024.
3. Shova, S. A., Ali, M. H., Akther, M., & **Islam, M. M.** . (2024). Seroprevalence and pathology of Mycoplasma gallisepticum infection in layer birds. Asian Journal of Medical and Biological Research, 10(1), 58–66.
4. Islam MS, Islam MM, Rahman MM, Islam K. 4G mobile phone radiation alters some immunogenic and vascular gene expressions, and gross and microscopic and biochemical parameters in the chick embryo model. Vet Med Sci. 2023 Nov;9(6):2648-2659.
5. Md. Sadequl Islam, Md. Ariful Islam, Md. Moshir Rahman, Khaleda Islam, Md. Mominul Islam, Md. Murtuza Kamal, Md. Nazrul Islam. 2023. Presence of Brucella spp. in Milk and Dairy Products: A Comprehensive Review and Its Perspectives. Journal of food science.
6. Ali, AA; Ali, MH; Azam, MG; **Islam, MM.** and Omar, AA. 2022. Prevalence of fascioliasis in cattle at Dinajpur district of Bangladesh. Journal of Science and Technology.
7. Khatun, R., Azam, MG., Islam, MM., Akther, M., & **Rashid, S.M.H.** (2022). Prevalence and pathology of colibacillosis in broiler farms at Dinajpur Sadar Upazila. Bangladesh Veterinarian, 38(1-2), 10–16.
8. Ostfeld, N; **Islam, MM;** Jelocnik, M; Hilbe, M; Sydler, T; Hartnack, S; Jacobson, C; Clune, T; Marsh, I; Sales, N; Polkinghorne, A; Borel, N. 2020. *Chlamydia pecorum*–induced arthritis in experimentally and naturally infected Sheep. Veterinary Pathology, 2020. <https://doi.org/10.1177/0300985820973461>
9. **Islam, MM;** Jelocnik, M; Anstey, S; Kaltenboeck, B; Borel, N; Timms, P. and Polkinghorne, A. 2019. In vitro analysis of genetically distinct *Chlamydia pecorum* isolates reveals key growth differences in mammalian epithelial and immune cells. Veterinary Microbiology: 232. DOI: 10.1016/j.vetmic.2019.03.024
10. **Islam, MM;** Jelocnik, M; Huston, WM; Timms, P. and Polkinghorne, A. 2018. Characterisation of the in vitro *Chlamydia pecorum* response to gamma interferon. Infection and Immunity. pii: IAI.00714-17.
11. Jelocnik, M; **Islam, MM;** Madden, D; Jenkins, C; Branley, J; Carver, S. and Polkinghorne, A. 2017. Development and evaluation of rapid novel isothermal amplification assays for important veterinary pathogens: *Chlamydia psittaci* and *Chlamydia pecorum*. PeerJ. 5: e3799.
12. Roy, G; **Islam, MM;** Rashid, SMH; Islam, MN. 2015. Tuberculosis in Cattle: Pathological and Haemato-biochemical Studies. International Journal of Bio-Research. 2(1):1-7

13. Sultana, S; Rashid, SMH; Islam, MN; Ali, MH; **Islam, MM** and Azam, MG. 2015. Pathological Investigation of Avian Aspergillosis in Commercial Broiler Chicken. International Journal of Innovation and Applied Studies. 10(1):366-376
14. **Islam, MM**; Khanam, SS; Rashid, SMH; Islam, MN. 2013. Prevalence and pathology of demodectic mange in stray dogs in Bangladesh. Journal of Science and Technology; 11:118-121
15. Basak, P; Rashid, SMH; Islam, MN; **Islam, MM** and Hossain, M. 2011. Pathological Investigation of Liver of Slaughtered Cattle in Dinajpur District of Bangladesh. Bangladesh Research Publications Journal; 5 (2): 86-91
16. Salam, MA; Rashid, SMH; Hoque, MF; **Islam, MM** and Hossain, MF. 2011. Study of Pathological Conditions Encountered in Small Scale Commercial Broiler Farms. Bangladesh Research Publications Journal; 5 (2): 111-116
17. Rashid, SMH; Hoque, MF; **Islam, MM** and Khatun, M. 2011. Clinical Study of Goat Diseases at Dinajpur District Veterinary Hospital of Bangladesh. Bangladesh Journal of Progressive Science & Technology; 9(1): 65-68.

#### **NAME AND ADDRESS OF REFEREES:**

##### **1. Dr. S.M. Harun-ur Rashid**

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I hereby declare that all the information contained in this resume is in accordance with facts or truths to my knowledge.

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Dr. Md. Mominul Islam