

Curriculum Vitae

Personal information

Name : Mohammad Ali Zinnah
Address : Faculty Member (Microbiology)
Department of Microbiology and Public Health
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Nationality : Bangladeshi

Academic Profile

Name of awarding institution	Qualification awarded	Results/Divisions	Passing year
Graduate School of Animal and Food Hygiene, Obihiro University of Agriculture and Veterinary Medicine, Japan	PhD in Animal and Food Hygiene (Immunology)	-	September, 2020
Bangladesh Agricultural University, Bangladesh	MS in Microbiology	3.765 out of 4	June, 2008
Shahjalal University of Science &Technology, Bangladesh	Doctor of Veterinary Medicine (DVM)	3.54 out of 4	2006

Work experience

Employer name	Position held	Activities/responsibilities	Duration
Department of Microbiology and Public Health, Gazipur Agricultural University, Gazipur 1706, Bangladesh	Full time Faculty member	Teaching and research	March 07, 2013 to till now.
Department of Microbiology and Immunology, Sylhet Agricultural University, Bangladesh	Full time Faculty member	Teaching and research	November 15, 2009 to March 6, 2013

Dissertation title

In MS Program
Development of Molecular Methods for Simultaneous Detection of Foot-and-Mouth Disease Viruses (FMDV) Serotypes Prevalent in Bangladesh.

In PhD Program
Disruption of early embryo-maternal crosstalk via peptidoglycan in the infected uterus in the cow.

Professional Experience

As part of one year internship program, I have working experience in many national and international organizations:

- International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b),
- Bangladesh Livestock Research Institute (BLRI),
- Central Disease Investigation Laboratory (CDIL),
- Livestock Research Institute (LRI),
- Central Veterinary Hospital (CVH),
- Central Cattle Breeding and Dairy Farm (CCBDF),
- Dhaka National Zoo, Bangladesh
- Upazila Veterinary Hospital etc.

Competency

a. Experimental Skills

- Working experience with mouse & chicken models.
- Maintenance of animal cell lines (BHK -21, HeLa & Vero cells lines), preparations of primary cell (chicken embryo fibroblast cell) culture.
- Explant preparation and culture.
- Mammalian epithelial cell culture.
- Isolation and culture of immune cells (PBMC, Monocytes, Mφ, Lymphocytes, Neutrophils).
- DNA/RNA works: Plasmid DNA extraction, total RNA extraction, DNA purification, PCR, RT-PCR, Real time PCR.
- Others: a. ELISA, Western blot, HA, HI, EID50 and
- Bacteriological work.
- Flowcytometry
- Immunohistochemistry
- Fluorescence microscopy
- Little exposure on gene cloning.

b. Computer

- Operation systems: MS Windows XP, Vista, Microsoft Office
- Statistical Software: SPSS 15 & other related software, Epi- Info 2000
- Reference work: Reference manager
- Graphics: Adobe Photoshop
- Graphpad Prism, and R programing for gene analysis

Research interest

Bacteriology and Immunology
Microbiology
Host-microbes interactions
AMR

Recognition and merit award

- Obihiro University Scholarship for International Student
- JASO Scholarship for International Student, Japan

Professional Membership

- Bangladesh Association for Advancement of Science (BAS)
- Bangladesh Veterinary Association (BVA).
- Agriculturists Institution of Bangladesh (KIB).
- Ecological Society of Bangladesh (ESB).
- One world one health - Bangladesh initiatives.

Licensure

Registered Veterinary Medicine Practitioner in Bangladesh

List of Publications

2026

Molecular detection of virulent and multidrug-resistant Escherichia coli in native chicken (*Gallus gallus domesticus*) and human along with zoonotic implications (Finalising the draft as **corresponding** authors).

Molecular detection of multidrug resistant Staphylococcus aureus in street-vended fast foods and their association with vendors' hygiene (ijid One Health, addressing reviewers comments, **corresponding** authors)

Zilon, S. H., Hossain, H., Chowdhury, M. S. R., Ahmed, S., Rahman, A., Khan, S. S., Akter, M., Paul, B., **Zinnah, M. A**., Noor, M., Rahman, M. M., & Rahman, M. M. **Molecular Screening and Antibiogram Profile of Multidrug-Resistant Enteropathogenic Escherichia coli Isolated from Retail Chicken Meat**. *Veterinary medicine and science*, 2026. *12*(2), e70876. https://doi.org/10.1002/vms3.70876.

2025

Md. Moinul Kabir Bijoy; Zhokhar Dudayev; Umme Fariha Mahim; Efcita Ahmed; Md. Nahid Ashraf; Sabrina Sultana Rimi; Md. Shafiqul Islam; **Mohammad Ali Zinnah**; Md. Sayedul Islam. **Emergence of Multidrug-**

resistant and Virulent Staphylococcus aureus in domestic cats in Bangladesh: possible public health concern. The Microbe 7 (2025) 100313.

Chakma, T., Rahman, A. N. M. A., Khan, M. A. H. N. A., **Zinnah, M. A.**, & Haider, M. G. **Pathology of Colibacillosis and Its Molecular Detection from Recent Outbreaks in Chicks**. J of Infec Dise and Vir Res, 4(2), 01-05.

2024

Mohammad Ali Zinnah, Md Bashir Uddin, Tanjila Hasan, Shobhan Das, Fahima Khatun, Md Hasibul Hasan, Ruenruetai Udonsom, Md. Masudur Rahman and Hossam M. Ashour. **The Re-emergence of Mpox: Old Illness, Modern Challenges.** Biomedicines 2024, 12(7), 1457.

Sabrina Sultana Rimi, Md. Nahid Ashraf, Sanzila Hossain Sigma, Md. Tanjir Ahammed, **Mohammad Ali Zinnah**, Mahbubul Pratik Siddique, Md. Tanvir Rahman, Md. Shafiqul Islam. **Biofilm formation, agr typing and antibiotic resistance pattern in methicillin-resistant Staphylococcus aureus isolated from hospital environments**. PLOS ONE. 19(8):e0308282.

Nazmin Sultana Runa, Sabina Yesmin, Asmaul Husna, Nurjahan Yasmin Runa, Md. Sahidul Islam, Md. Asaduzzaman Lovelu, Mst Assrafi Siddika, Md. Tanvir Hasan, Md. Inzamamul Haque, Mirza Synthia Sabrin, Chamali Akter Shykat, Moushumi Purkayastha, **Mohammad Ali Zinnah**, Bashudeb Paul, Md. Masudur Rahman. **Prevalence of multidrug-resistant ESBL-producing *Escherichia coli* isolated from beef and sheep meat in Sylhet, Bangladesh**. J Adv Biotechnol Exp Ther. 2024; 7(3): 520-529.

2023

Mohamed Ali Marey, Dongxue Ma, Yoshino-hitomi, Ibrahim F. Elesh, **Mohammed Ali Zinnah**, Mariani F. Fiorenza, Moriyasu-satoru, Akio Miyamoto. **Sperm induce proinflammatory responses in the uterus and peripheral blood immune cells of artificially inseminated cows.** J Reprod Dev. 2023. doi: 10.1262/jrd.2022-124.

Paul B, Alam J, Hossain MMK, Hoque SF, Bappy MNI, Akter H, Ahmed N, Akter M, **Zinnah MA**, Das S, Mia MM, Parvej MS, Sarkar S, Ghosh H, Hasan M, Ashour HM, Rahman MM. **Immunoinformatics for Novel Multi-Epitope Vaccine Development in Canine Parvovirus Infections**. Biomedicines. 2023. 11(8):2180.

2022

Turnalisha Chakma, Abu Nasar Md. Aminoor Rahman, Md. Abu Hadi Noor Ali Khan, **Mohammad Ali Zinnah** and Md. Golam Haider. **Pathology of Colibacillosis and Molecular Detection of its Pathogen in Chickens in Gazipur District**. Journal of Agriculture and Life Science. 03(2): 55-62

Salma Sultana, Md. Taimur Islam, **Md. Ali Zinnah**, Abu Nasar Md. Aminoor Rahman, Abdur Rahim Uzzal1 and Md. Golam Haider. (2022). **Prevalence of enteric bacterial diseases of chickens with isolation and characterization of causal agents and pathology in Gazipur district of Bangladesh**. Bangladesh Journal of Agriculture and Life Science. Vol. 01(2): 59-67, http://dept.ru.ac.bd/bjals

2021

Ibrahim Fouad Elesh, Mohamed Ali Marey, **Mohammed Ali Zinnah**, Ihshan Akhtar, Tomoko Kawai, Fayrouz Naim, Wael Goda, Abdel Rahamn Abou Rawash, Motoki Sasaki, Masayuki Shimada, Akio Miyamoto. Peptidoglycan switches off the TLR2-mediated sperm recognition and triggers sperm localization in the bovine endometrium. Front. Immunol.2021. 11:619408.

Mariani F. Fiorenza, Mohamed A. Marey, Mohammad B. Rashid, **Mohammad A. Zinnah**, Dongxue Ma, Vernadyn A. Morillo, Kazuya Kusama, Masayuki Shimada, Kazuhiko Imakawa, Alfredo Q. Antoniazzi, Akio Miyamoto. Neutrophils recognize and amplify IFNT signals derived from day 7 bovine embryo for stimulation of ISGs expression in vitro: A possible implication for the early maternal recognition of pregnancy. Biochem Biophys Res Commun. 2021. 553: 37-43.

M.M. Meher, M. Afrin, M.T. Islam, **M.A. Zinnah**. Poultry farming and farmers perception towards the farming condition during COVID-19 pandemic in Bangladesh, Journal of Agriculture and Food Research (2021), doi: https://doi.org/10.1016/j.jafr.2021.100239.

Ahmed E. Elweza, Mohamed A. Marey, Ibrahim F. Elesh, **Mohammad A. Zinnah**, Ihshan Akthar, Chihiro Kanno, Mitsuhiro Takagi, Akio Miyamoto. Zearalenone interferes with the sperm-triggered inflammation in the bovine uterus in vitro: Negative impact on sperm motility and survival. Reproductive Toxicology. Vol 107, Jan 2022, Pages 81-89.

F Khatun, AA Maruf, MM Rahman, A Yasmin, MA Zinnah, MA Islam, MS Alam. Incidence of Gastrointestinal Parasitism in Cattle in Gazipur, Bangladesh. Veterinary Sciences: Research and Reviews. 2021;7(2): 109-114.

2020

Mohammad A. Zinnah, Mohamed A. Marey, Ihshan Akhtar, Ibrahim F. Elesh, Yuta Matsuno, Ahmed E. Elweza, Dongxue Ma, Mariani Fiorenza, Motoki Sasaki, Masayuki Shimada, Kazuhiko Imakawa, Akio Miyamoto. **Peptidoglycan disrupts early embryo- maternal crosstalk via suppression of ISGs expression induced by interferon-tau in the bovine endometrium.** *Biochem Biophys Res Commun.* 2020. 532(1): 101-107.

2015

Rahman, Md Masudur; Noor, Monira; Islam, Kazi Mehetazul; Uddin, Md Bashir; **Zinnah, Mohammad Ali**; Hossain, Ferdaus Mohd Altaf Hossain; Islam, Mohammad Rafiqul; Eo, Seong Kug; Ashour, Hossam. **Molecular diagnosis of bovine tuberculosis in bovine and human samples: Implications for zoonosis**. *Future Microbiol*. 2015. 10(4): 527-535.

A.T.M. Badruzzaman, Md. Saiful Islam Siddiqui, Md. Omer Faruk, Nasrin Sultana Lucky, **Mohammad Ali Zinnah**, Ferdaus Mohd. Altaf Hossain and Md. Masudur Rahman. **Prevalence of infectious and non-infectious diseases in cattle population in Chittagong district of Bangladesh**. Int. *J Biol Res. 2015*. 3 (1): 1- 4.

2014

Md. Masudur Rahman and **Mohammad Ali Zinnah**. **Interactions of Host's Innate and Adaptive Immune Components in the Pathogenesis of Viral Encephalitis: a Review**. *MOJ Proteomics Bioinform*. 2014, 1(2): 00007.

2011

AB Siddique, FMA Hossain and, **MA Zinnah**. Determination of host specificity of pigeon pox and fowl pox viruses isolated from a field outbreak. Bul j of Vet Med. 2011. 14(4): 209-214.

Al Mamun M, Bhuiyan MJU, **Zinnah MA**, KhairA, Hassan MM, Uddin MB. Seroprevalence and pathological investigation of Salmonellosis in poultry. Eurasian J Vet Sci. 2011.27 (4):227-229.

M. Al Mamun, M. Jamal Uddin Bhuiyan, **M. Ali Zinnah**, M. Mahmudul Hassan, Mohammad Atikuzzaman and M. Bashir Uddin. Prevalence of Fasciola sp. infection in ruminants. Eurasian J Vet Sci, 2011, 27, 4, 241- 244.

2010

MA Zinnah, MT Islam, MM Rahman, MT Hossain, MA Zinnah, MR Bari, MSR Khan and MA Islam. **Standardization of multiplex reverse transcription-polymerase chain reaction and typing of foot-and-mouth disease virus prevalent in Bangladesh**. *Bang J Vet Med. 2010*. 8(2):149-155.

2008

MS slam, AKM Khasruzzaman, MT Hossain, MT Islam, MH Chowdhury, MM Rahman, **MA Zinnah**, NA Banu, MA Islam. Determination of immune response of imported Newcastle disease virus vaccines in broiler chickens. Bang J Vet Med. 2008. 6(2):139-144.

MTG Khan, **MA Zinnah**, MP Siddique, MHA Rashid, MA Islam and KA Choudhury. Physical and microbial qualities of raw milk collected from Bangladesh Agricultural University dairy farm and surrounding villages. Bang J Vet Med. 2008.6(2): 217-221.

MHO Rashid, MP Siddique, **MA Zinnah**, MA Huq, MA Samad and MM Rahman. Compliance efficacy of modified curing methods to control black Bengal goat skin deterioration. Bang J Vet Med.2008. 6(2):191-196.

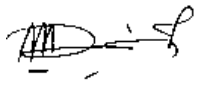
Research Supervisor	Worked as Major Professor for 5 students on MS in Microbiology.
Research co-supervisor	Three has completed (1 in Microbiology, 1 in Pathology, 1 in Pharmacology) and One is running.

References:

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September, 2026

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