

NAZMUNNAHAR NISA

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RESEARCH FOCUS & INTERESTS

- Comparative and integrative physiology with emphasis on metabolic, reproductive, and stress-regulatory mechanisms in livestock and poultry systems
- Nutritional and production physiology: controlled feeding trials, dietary additives, growth efficiency, and hematobiochemical biomarkers
- Histopathology and tissue biology: histological processing, microscopy, and morphometric assessment of physiological and disease states
- Immunophysiology and host–pathogen interactions affecting productivity, reproduction, and animal health outcomes
- Neuroendocrine regulation studied through histological and translational animal models
- One Health–oriented research integrating animal health, environmental exposures, and population-level outcomes

EDUCATION

Master of Science (MS) in Physiology | 2021- 2023

Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

CGPA: 4.00/4.00 (Merit Position: 1st)

Thesis: Studies on growth performance and hematobiochemical parameters in broilers fed diets containing different supplements

Methods: Controlled feeding trials, hematology, serum biochemistry, statistical analysis

Bachelor of Science in Veterinary Science & Animal Husbandry | 2015-2019

Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

CGPA: 3.87/4.00 (Merit Position: 2nd) | Bangladesh Veterinary Council Registration: 7110

Clinical Internship: Six-month rotation in veterinary hospitals, zoo, poultry laboratories, and livestock production units.

CURRENT ACADEMIC APPOINTMENT

Lecturer | 19th December, 2023 – Present

Department of Anatomy, Histology & Physiology, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

RESEARCH EXPERIENCE

Graduate Research Assistant, Department of Anatomy, Histology & Physiology, Sher-e-Bangla Agricultural University | 2021–2023

- Designed and executed controlled broiler feeding trials evaluating dietary supplements and production efficiency

- Collected and analyzed blood samples for hematological indices and serum biochemical markers using spectrophotometric assays
- Performed tissue collection, fixation, paraffin embedding, microtomy, staining, and light microscopy for histopathological evaluation
- Conducted statistical analyses in IBM SPSS and prepared datasets and figures for peer-reviewed manuscripts

Intern Veterinary Research Trainee / Field Research Rotations, Bangladesh | 2019–2020

- Conducted field-based epidemiological data collection and retrospective clinical record analysis
- Supported parasitological investigations and veterinary diagnostics across poultry and dairy operations
- Assisted in necropsy support, clinical case documentation, and disease surveillance activities

ACADEMIC & RESEARCH INITIATIVES

Co-founder, Research Initiative | 2024–Present

Institute for One Health Environment & Bioanalytics (IOHEB)

- Contributed to conceptual development of interdisciplinary One Health research linking animal physiology, environmental exposure, and population health
- Engaged in collaborative literature synthesis and early-stage research planning aligned with global One Health frameworks

Invited Expert Contributor | 2026

Metascience Novelty Indicators Challenge (University of Sussex, RAND Europe, UK Research and Innovation)

- Evaluated the novelty, originality, and scientific contribution of research publications in animal nutrition and related biomedical fields
- Assessed methodological rigor, data interpretation, and translational relevance in livestock research

PUBLICATIONS

- **Nazmunnahar, N.**, Hossain, M. M., & Islam, M. R. (2021). Epidemiological investigation of gastrointestinal parasites of livestock population at Mirzapur upazila in Tangail, Bangladesh. *Journal of Sher-e-Bangla Agricultural University*, 12(1 & 2): 13-23
<https://saulibrary.edu.bd/sauj/jsau/v-12-n-1-2-a-3.pdf>
- Hossain, M. M., Islam, M., **Nazmunnahar, N.**, Islam, M. R., & Rahman, A. N. M. I. (2022). Prevalence and risk factors associated with clinical cases of pet animals in Dhaka city, Bangladesh. *Journal of Sher-e-Bangla Agricultural University*, 13(1&2): 95-101
<https://saulibrary.edu.bd/sauj/jsau/v-13-n-1-2-a-2.pdf>
- Hossain, M. M., **Nazmunnahar, N.**, Akter, R., & Islam, M. (2022). Incidence of surgical cases of common ruminants at Mirzapur upazila in Tangail district of Bangladesh. *Journal of Sher-e-Bangla Agricultural University*, 13(1–2), 95–101.
<https://saulibrary.edu.bd/sauj/jsau/v-13-n-1-2-a-11.pdf>
- Akter, R., Soltana, T., **Nisa, N.**, et al. (2024). Retrospective case study of livestock diseases recorded at Fulbaria upazila veterinary hospital. *Bangladesh Journal of Animal Science*, 53(4), 135–143. <https://doi.org/10.3329/bjas.v53i4.78848>

- Ahmad, A., & **Nisa, N.** (2025). Temporal dynamics of indoor air quality: Investigating the impact of cooking activities and ventilation efficiency in shared kitchens. *World Journal of Biology Pharmacy and Health Sciences*, 21(1), 699–706. <https://doi.org/10.30574/wjbphs.2025.21.1.0104>
- **Nisa, N.**, Alam, J., Rahman, T., et al. (2025). Effects of combined dietary additives with commercial feed on broiler production. *Turkish Journal of Agriculture – Food Science and Technology*, 13(09): 2647-2654. <https://doi.org/10.24925/turjaf.v13i9.2647-2654.7758>
- **N. Nazmunnahar**, J. Alam, R. P. Borsha, M. E. Kabir, M. R. Islam, M. M. Hossain. (2025). Investigation of Reproductive Performances and Hematology of Parasite Infested Dairy Cows in Bangladesh. *Journal of Sher-e-Bangla Agricultural University*.
- Tanjila Rahman, **Nazmunnahar Nisa**, Rupa Akter, Md. Mehedi Hasan, Md. Abdul Masum, Mohammad Saiful Islam. (2025). Antidiabetic Effect of Moringa oleifera in Alloxan-Induced Diabetic Rat. *Journal of Sher-e Bangla Agricultural University*.
- R. P. Borsha, M. Hasan, M.A. Zabbar, M.A.I. Arif, M.M. Hossain, J. Alam, **N. Nisa**, T. Rahman. (2025). Assessment of Brix Refractometer-Based Colostrum Immunoglobulin G and Passive Immunity in calf: Correlation to Neonatal Calf Diseases. *Egyptian Journal of Veterinary Sciences*, 1-9. <https://doi.org/10.21608/ejvs.2025.424866.3157>

METHODOLOGICAL & TECHNICAL EXPERTISE

- Histology and microscopy; hematology and serum biochemistry
- Controlled animal experiments and feeding trials
- Statistical analysis (IBM SPSS), data management (Excel), reference management (EndNote)

TEACHING EXPERIENCE

- Undergraduate instruction in anatomy, histology, and physiology (theory and laboratory)
- Supervision of laboratory practicals and student research activities

ENGLISH PROFICIENCY

IELTS (Academic) Score: 7.5

(Listening: 8.5, Reading: 7.5, Writing: 6.5, Speaking: 6.5) (Test Date: 10th January, 2026)

HONORS AND AWARDS

- Dean’s Award for Outstanding Academic Achievement (2017–2019)
- National Science and Technology fellowship, Ministry of Science and Technology, Bangladesh (2021)
- Best Seminar Paper Presenter (2022)
- Best Student Performance Award (2011)

PROFESSIONAL MEMBERSHIPS

- Bangladesh Veterinary Council (Registered Veterinarian)
- Krishibid Institution of Bangladesh

TRAINING AND WORKSHOP

- Pedagogy Training Program on Innovations in Agriculture and Pesticide Management. Sher-e Bangla Agricultural University, Dhaka | 2024
- CPD Training for Academic Veterinarians on Animal Disease Progression and Their Diagnosis in the Land Field. Sher-e Bangla Agricultural University, Dhaka, Bangladesh Funded by DAVIS-THOMPSON FOUNDATION, USA | 2024
- Workshop on Professional Profile Updating for SAU Faculty Members on SAU Website organized by Institutional Quality Assurance Cell (IQAC). Sher-e Bangla Agricultural University, Dhaka | 2024
- FMDV Impacts on Veterinary Farming in Bangladesh: its Past, Present and Future- arranged by Bangladesh Academy of Science. Sher-e-Bangla Agricultural University, Dhaka-1207 | 2025
- Empowering Future Veterinarians: Skills, Ethics, And Innovations- arranged by Bangladesh Veterinary Council & Ministry of Fisheries and Livestock. Sher-e Bangla Agricultural University, Dhaka-1207 | 2025
- Clinical Internship: Six-month high-volume rotation across livestock hospitals, diagnostic laboratories, and national zoo facilities | 2019

REFERENCES

- **Dr. Md. Mosharaf Hossain**
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