Rupsana Perven Borsha

DVM, MS Physiology
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A. ACADEMIC QUALIFICATION/EDUCATION

1. Academic Degrees/Diplomas

i. **MS in Physiology**: Department of Physiology and Pharmacology, Hajee Mohammad Danesh Science and Technology University, Dinajpur-5200,2020.

Course Details: Ruminant Physiology, Cell Physiology, Physiology of Integration, Nutritional Physiology, Immune Physiology, Avian Physiology, Body Fluids and cardiac Dynamics, Physiology of Digestion, Absorption and Metabolism, Endocrine and reproduction Physiology, Diagnostic Physiology, Physiological Chemistry, Ethology.

Thesis: Study of steroid induced hyperglycemia against traditional hypoglycemic plant extracts in rat model.

Achievements:

- Secured the highest CGPA (First Class First) in the exam (3.98 out of 4)
- One (01) publication in international journal.

ii. **DVM (Doctor of Veterinary Medicine),** Faculty of Veterinary and Animal Science, Hajee Mohammad Danesh Science and Technology University, Bangladesh, 2018.

Course Details: Veterinary Science (Anatomy, Embryology, Histology, Pathology, Physiology, Pharmacology, Toxicology, Microbiology, Veterinary Public Health & Food Hygiene, Immunology & Serology, Medicine (Small, Zoo, Farm Animal & Avian), Theriogenology, Gynecology & Obstetrics, Andrology & Artificial Insemination, Clinical Pathology & Necropsy, Radiology and Imaging, General Surgery, Anesthesiology, Protozoology, Veterinary Jurisprudence) and Animal Husbandry (Animal production & Management, Poultry Production & Management, Fodder Production, Animal Genetics & Breeding, Animal nutrition, Poultry Nutrition, Dairy Science, Dairy Microbiology, Dairy & Poultry Product Technology, Meat Technology etc.).

Achievements:

- Stood First Class First (Secured the highest CGPA in the exam; 3.91 out of 4).
- Awarded with Prime Minister Gold Medal (Merit Award) for outstanding results in 2018.

iii. **HSC (Higher Secondary Certificate: 2 years schooling)** National Board of Education, Holy Cross College, Dhaka, Bangladesh, 2011.

Course Details: Bengali, English, Physics, Chemistry, Mathematics, Zoology, Botany, Higher Mathematics etc.

Achievement: Secured GPA 5.00 (Golden) out of 5.00; received Govt. scholarship

iv. **SSC (Secondary School Certificate: 10 years schooling)**, National Board of Education, Saint Philip's High School and College, Dinajpur, Bangladesh, 2009.

Course Details: Primary basic education, Bengali and English, Physics, Chemistry, Biology, Mathematics, Higher Mathematic, Social Science, History.

Achievement: Secured GPA 5.00 (Golden) out of 5.00; received Govt. scholarship

2. Academic and professional Trainings

I. "CPD Training for Academic Veterinarians on Animal Disease Progression and their Diagnosis in the Laboratory and Field" as a part of Continuing Professional Development (CPD), held during February 12-14, 2024 at Sher-e-Bangla Agricultural University, sponsored by Davis Thompson Foundation, USA; organized by Global Health Pathology Network, USA.

II. GIS Training on 22 and 23 November 2024 organized by Dept. of Agricultural Engineering, Sher-e-Bangla Agricultural University, Dhaka-1207.

III. Training on data analysis with R Programming from 27-31 October 2024 under SAURES project.

IV. Workshop on Professional Profile Updating for SAU Faculty Members on SAU Website organized by Institutional Quality Assurance Cell (IQAC), SAU, Dhaka-1207.

V. Pedagogy Training Program on Innovations in Agriculture and Pesticide Management held at Sher-e-Bangla Agricultural University, Dhaka, Bangladesh from 27-29 February 2024.

VI. A five days long training program on " Application of Genome Editing Tools for Sustainable Development in Agriculture" from 20-24 April 2025 at BARC, Farmgate Dhaka.

VII. Seminar on "FMDV Impacts on Veterinary Farming in Bangladesh: it's Past, Present and Future " Arranged by Bangladesh Academy of Science on 28 May 2025 at Sher-e-Bangla Agricultural University, Dhaka-1207.

VIII. Seminar on " Empowering Future Veterinarians: Skills, Ethics, And Innovations" arranged by Bangladesh Veterinary Council & Ministry of Fisheries and Livestock on 2nd June 2025 at Sher-e-Bangla Agricultural University, Dhaka-1207.

IX. "Motivational Workshop on Accreditation in Higher Education" organized by Bangladesh Accreditation Council (BAC), collaboration with Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University (SAU), on 24 June, 2025 at Sher-e-Bangla Agricultural University, Dhaka-1207

X. Workshop on "Reviewing and Updating Curriculum Design and Layout for the Faculty of Animal Science and Veterinary Medicine" organized by Institutional Quality Assurance cell (IQAC) on 22 July 2025 at Sher-e-Bangla Agricultural University, Dhaka-1207

XI. Technical Seminar on "Pet Health and Disease Diagnosis" organized by Bangladesh Small Animal Veterinary Association held on 09 August, 2025 at Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka-1207

XII. Training on "Enhancement of Quality Education and Research through Bioinformatics and Its Application in Agriculture " organized by IQAC cell, Sher-e-Bangla Agricultural University, held on (18 to 20) December 2025 at Sher-e-Bangla Agricultural University, Dhaka-1207.

XIII. Inception workshop on “Teaching-Learning Facilities in the Faculty of Animal Science and Veterinary Medicine of Sher-e-Bangla Agricultural University” funded by World Bank, University Grants Commission, Higher Education Acceleration and Transformation, held on 17 February 2026 at Sher-e-Bangla Agricultural University, Dhaka-1207.

XIV. Training on “Laboratory Animals Used in Biomedical Sciences” on August 23-25, 2026 organized by Technical Training Unit, icddr,b, Dhaka

B. EXPERIENCES AND SKILLS

1. Experiences

i. Clinical Training at Faculty of Veterinary Medicine, Khon Kaen University, Thailand, 2018.

ii. Clinical Training at Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry, India, 2018.

iii. Laboratory Training at New Hope Farms Laboratory, Bhaluka, Bangladesh, 2018.

2. Laboratory Skills

i. Mouse anesthesia and necropsy

ii. Blood and urine Analysis.

iii. Histopathological Analysis.

iv. Preparation of different microbiological culture media and reagents.

v. Isolation and identification of bacteria. DOC, yolk, liver sample analysis for bacterial colony by Mac Conkey, PCA, SDA, SCDA Agar media.

vi. Culture and sensitivity test of bacteria.

vii. Antibody titre test HA and HI.

viii. PS DOC quality test.

ix. Proximate Analysis of feed sample (CP, Ca, P, Ash, Moisture Determination).

x. Scientific writing and reporting, Experimental design and data collection.

3. Computer Skills

i. Operating system: Windows and Mac OS.

ii. Software packages: MS Office, Statistical Package (SPSS, R Studio, ArcGIS etc.), Excel, Power Point, Adobe Photoshop, Illustrator, Multimedia software, etc. Internet browsing, E-mail, Internet application software, google sheets and other utilities.

iii. Hardware: Hardware maintenance and minor trouble shooting.

C. AWARDS, RECOGNITIONS, GRANTS AND FELLOWSHIPS

i. Principal investigator at R & D project 2024 from Ministry of Science and Technology, Bangladesh.

ii. National Science and Technology Fellowship 2019 from Ministry of Science and Technology, Bangladesh.

iii. Prime Minister Gold Medal Award 2018.

iv. Deans Award 2014 to 2017 for best academic results from the Faculty of Veterinary and Animal Science, HSTU, Bangladesh**.**

v. University Merit Award, for securing first position with highest CGPA.

vi. Secondary School Merit Scholarship 2006 from Ministry of Education, Bangladesh.

vii. Primary School Scholarship-2004 from Ministry of Education, Bangladesh.

D. PROFESSIONAL ENGAGEMENTS

i. Member, Bangladesh Veterinary Association (BVA), Bangladesh.

ii. Member, Krishibid Institution, Bangladesh (KIB)

iii. Registered Member, Bangladesh Veterinary Council (BVC), Bangladesh.

iv. Life member, Bangladesh Society for Safe Food (BSSF), Bangladesh.

E. PUBLICATIONS

I. **Rupsana Perven Borsha***, Rakibul Islam, Md. Bazlar Rashid, Fahima Binthe Aziz, Md. Nazrul Islam, Mahmudul Hasan. Study of steroid induced hyperglycemia against traditional hypoglycemic plant extracts in rat model. ***Asian Journal of Pharmacy and Pharmacology***, 2020:6(4):254-260.

II. Nazmunnahar Nisa, Jahagir Alam, Tanjila Rahman, Md. Abdur Raihan Ratul, **Rupsana Perven Borsha**, Md. Rashedul Islam, Mohammad Saiful Islam, Md. Mosharaf Hossain. Effects of Combined Dietary Additives with Commercial Feed on Broiler Production. ***Turkish Journal of Agriculture- Food Science and Technology***, 2025:13(09), 2647-2654.

III. **Rupsana Perven Borsha*,** Maruf Hasan and Md. Abdul Zabbar. Chronic spasmodic colic management in a thoroughbred horse: A case report from Bangladesh. ***Open Veterinary Journal***. 2025: 15(12), 6801-6804.

IV. **Rupsana Perven Borsha*,** Maruf Hasan, M. A. Zabbar, Md. Roknuzzaman Khan, Md. Akib Zabed, Al Wasef, Md. Mahedi Hassan and Gopal Chandra Das. Prevalence Assessment of Feline Infectious Peritonitis Based on Rapid Test and Protein Ratio Analysis in Dhaka, Bangladesh. ***Res. Agric. Livest. Fish.*** 2025:12(3), 427-436.

V. **Rupsana Perven Borsha*,** Maruf hasan, Md. Abdul Zabbar, Md. shakil islam, Al Wasef. Efficacy of beetroot (Beta vulgaris) juice supplementation with iron sucrose in treating canine anemia. ***Res J. Vet. Pract.*** 2025:13(4), 91-98.

VI. N. Nazmunnahar, J. Alam, **R.P. Borsha**, M.E. Kabir, M.R. Islam and M.M. Hossain. Investigation of Reproductive Traits and Hematology of Parasite Infested Dairy Cows in Bangladesh. ***Journal of Sher-e-Bangla Agricultural University***. 2025: 15, 10-14.

VII. **Rupsana Perven Borsha***, Maruf Hasan, M.A. Zabbar, M.A.I. Arif, M.M. Hossain, J. Alam, N. Nisa and T. Rahman. Assessment of Brix Refractometer-Based Colostrum Immunoglobulin G and PassiveImmunity in Calf: Correlation to Neonatal Calf Diseases. **Egyptian Journal of Veterinary Sciences**. 2026:57 (13): 13-21.

VIII. Al Wasef, Md Rashedul Islam, Radisa Islam, Most Sumaiya Binte Shahid, Rupsana Perven Borsha and Mohanta Uday Kumar*. Successful Pharmacological Induction of Parturition in a Primiparous Holstein Friesian Crossbred Cow with Prepartum Vaginal and Rectal Prolapse: A Case Report. **Animal Reproduction Update**. 2026: Vol. 6 (1).

F. PERSONAL DETAILS

1. Name: **DR RUPSANA PERVEN BORSHA**
2. Father's name: Md. Raisul Islam
3. Mother's name: Shamima Akter
4. Spouse name: Maruf Hasan
5. Gender: Female
6. Religion: Islam (Sunny)
7. Place and Date of birth: Dinajpur, Bangladesh. 19 September, 1994
8. Nationality: Bangladeshi
9. National ID: 7795432942
10. Passport no.: A18330449
11. Designation: Lecturer, Department of Anatomy, Histology and Physiology, SAU

12. **Present address:**	13. **Permanent address:**
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14. **Contact Details:**

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G. REFERENCES

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