



Message from the Head

It is my pleasure to share the achievements and activities of the Department of Physiology, Biochemistry and Pharmacology (DPBP), CVASU, through this newsletter. The reporting period reflects our continued commitment to postgraduate education, scientific research, and academic excellence. Highlights include MS thesis defenses and orientation, PhD research progress seminars, recognition of our student's outstanding oral presentation, and publication of 77 MS thesis abstracts. We also strengthened academia–industry collaboration through an academic committee meeting and an MoU with Albion Laboratories Limited, welcomed our new Vice-Chancellor, and organized World Animal Welfare Day 2026. Together, these initiatives advance research, collaboration, and societal impact.

[Prof. Dr. Amir Hossan Shaikat](#)

MS Physiology Thesis Defense held

The Department of Physiology, Biochemistry and Pharmacology at Chattogram Veterinary and Animal Sciences University (CVASU) successfully hosted a thesis presentation session on 22.04.2026 for postgraduate students enrolled in the MS in Physiology program. The session was chaired by Professor Dr. Amir Hassan Shaikat, who commended the students for their rigorous scientific inquiry and the relevance of their research to contemporary challenges in animal and human health.

Three graduating researchers presented their findings, each addressing critical issues with significant implications for veterinary science, livestock productivity, and public health.

One study explored the application of specific chemical interventions to mitigate heat stress in poultry. With rising global temperatures posing a serious threat to poultry production, the findings offer promising strategies to improve animal welfare, enhance productivity, and support food security in climate-vulnerable regions.

Another research project investigated variations in hematobiochemical profiles of calves under different climatic conditions. This work provides valuable insights into how environmental stressors influence

physiological health in livestock, contributing to better management practices and adaptive strategies for sustainable animal farming.

The third thesis examined the relationship between diabetes and periodontitis, focusing on associated hematobiochemical parameters. This interdisciplinary study highlights important links between metabolic and oral health, offering potential avenues for early diagnosis and integrated treatment approaches in both veterinary and human medicine.

The session reflected CVASU's ongoing commitment to advancing scientific knowledge and addressing real-world challenges through innovative research. The outcomes of these studies are expected to contribute meaningfully to the fields of animal health, climate resilience, and comparative biomedical science.

The event concluded with an interactive discussion, where faculty members and participants engaged with the presenters, emphasizing the importance of translating research findings into practical applications for the betterment of society.



MS Physiology Thesis Defense held

A significant academic milestone was achieved on April 23, 2026, as nine Master of Science students in Biochemistry successfully defended their theses in a day marked by intellectual rigor, innovation, and scientific excellence. The defense session highlighted a wide spectrum of research addressing pressing challenges in microbiology, metabolic disorders, cancer biology, and natural product therapeutics.

The candidates presented original research findings spanning both fundamental and applied biosciences. Several students explored microbial dynamics, focusing on *Escherichia coli* prevalence and characterization in poultry species including chicken and quail, as well as in bats. These studies provided valuable insights into zoonotic transmission, antimicrobial resistance patterns, and public health implications, contributing to the growing body of knowledge on cross-species microbial ecology.

In the field of cancer biology, research addressing colorectal cancer in association with ulcerative colitis was prominently featured. Utilizing both murine models and human clinical data, the students investigated molecular pathways, inflammatory markers, and disease progression mechanisms. Their findings hold potential for improving early detection strategies and therapeutic interventions for inflammation-associated colorectal carcinogenesis.

Further advancing the domain of metabolic disease research, several theses focused on identifying novel biomarkers linked to obesity and diabetes. Through biochemical, molecular, and statistical analyses, these studies aimed to enhance diagnostic precision and deepen understanding of disease pathophysiology, potentially guiding future clinical management strategies.

Complementing these investigations, innovative research on phytochemicals and their role in managing obesity was also presented. These studies evaluated bioactive compounds derived from natural sources, assessing their efficacy, mechanisms of action, and potential as safer alternatives or adjuncts to conventional therapies.

The defense session was attended by faculty members, academic peers, and external examiners, all of whom commended the students for the depth, originality, and relevance of their work. The event underscored the department's commitment to fostering high-quality research that addresses both local and global health challenges.

Overall, the day stood as a testament to the dedication and scholarly achievements of the graduating cohort, marking an important step forward in their academic and professional journeys.



MS Orientation Begins for July–December 2026 Session at CVASU

The orientation program for the MS students of the July–December 2026 session under the Department of Physiology, Biochemistry and Pharmacology at Chattogram Veterinary and Animal Sciences University (CVASU) commenced today.

The program was presided over by Prof. Dr. Amir Hossan Shaikat, who welcomed the newly enrolled students and encouraged them to pursue academic excellence with dedication, integrity, and a spirit of scientific inquiry.

Addressing the students, Prof. Dr. Shaikat said, "Your postgraduate journey is an opportunity to develop the knowledge, skills, and research mindset needed to contribute meaningfully to veterinary science and society. Stay curious, work sincerely, and uphold academic integrity."

Faculty members and students attended the orientation, where participants were introduced to the academic curriculum, research opportunities, and departmental guidelines.



Best Oral Presentation Award 2026

The Department of Physiology, Biochemistry and Pharmacology, CVASU proudly congratulates Hasibur Rahman Sakib, MS Student of Physiology, for achieving the prestigious Best Oral Presentation Award 2026 (Open Paper Session-8)! He received this well-deserved recognition at the 32nd BSVER Annual Scientific Conference (BSVER ASConXXXII), organized by the Bangladesh Society for Veterinary Education and Research on August 9, 2026.

Your hard work, dedication, and outstanding research presentation bring immense pride to our department and the entire CVASU community. We wish you continued success in your academic and scientific journey!



PhD seminar held

On September 14, 2026, the Department of Physiology, Biochemistry and Pharmacology at Chattogram Veterinary and Animal Sciences University (CVASU) hosted a PhD research progress seminar chaired by Prof. Dr. Amir Hossan Shaikat. The session featured presentations by three doctoral candidates on thalassemia, cancer, and fast food research. Highlighting the importance of translating doctoral work into practical solutions for public health and biomedical sciences, Prof. Dr. Shaikat commended the researchers for addressing critical societal challenges with methodological rigor.



CVASU's Department of Physiology, Biochemistry and Pharmacology Holds High-Level Academic Committee Meeting Fostering Academia-Industry Collaboration

The Department of Physiology, Biochemistry and Pharmacology (DPBP) at Chattogram Veterinary and Animal Sciences University (CVASU) successfully hosted an important academic committee meeting today. The session focused on strengthening collaborative educational and research initiatives, bringing together esteemed faculty members and key industry leaders.

A major highlight of the meeting was the participation of distinguished external members from Albion Laboratories Ltd, led by the company's respected Managing Director, Mr. Md. Muntahar Uddin. He was accompanied by a high-profile delegation from the organization, including Mr. Mohammed Sharifur Rahman (Senior General Manager of Business Operation), Dr. M M Mafizul Islam (Mridul) (Assistant Manager, Product Management Department), and Dr. Md. Mobarak Hossain (Senior Product Manager, Product Management Department).

The meeting provided a vibrant platform for academic-industrial synergy, emphasizing the vital importance of bridging the gap between university research and pharmaceutical industry application. Participants engaged in meaningful dialogue centered on knowledge sharing, joint research opportunities, and career development pathways for students.

Expressing enthusiasm following the session, the visiting delegation members noted: "It feels great to be present at the departmental academic meeting upon the invitation of CVASU, alongside Albion Laboratories Ltd's leadership team. The hospitality and knowledge sharing by the esteemed faculty members were exceptional. Bridging the gap between academia and industry is truly essential."

The meeting concluded with a mutual commitment to further institutional partnerships, setting a strong precedent for collaborative innovation in veterinary, medical, and pharmaceutical sciences in Bangladesh.



DPBP welcomed new Vice Chancellor of CVASU

The Department of Physiology, Biochemistry and Pharmacology, CVASU, warmly welcomed the newly appointed Vice-Chancellor of Chattogram Veterinary and Animal Sciences University (CVASU), Prof. Dr. Mohammed Yousuf Elahi Chowdhury.

The department extends its sincere greetings and best wishes to the newly appointed Vice-Chancellor for a successful tenure.



World Animal Welfare Day 2026 observed at CVASU

Chattogram City Corporation (CCC) Mayor Dr. Shahadat Hossain has said that the CCC and Chattogram Veterinary and Animal Sciences University (CVASU) will work jointly to ensure animal welfare.

He assured the university of the CCC's full cooperation in any initiative it undertakes for animals, and asked CVASU to support the city corporation's own animal-friendly measures in return.

The Mayor made these remarks today as chief guest while speaking at an event at CVASU marking World Animal Welfare Day 2026.

Organized by the Department of Physiology, Biochemistry and Pharmacology, the day was celebrated in a festive atmosphere under the theme "See the world through their eyes." The program began in the morning with a colorful procession joined by the university's teachers, officials, students and staff.

Professor Dr. Mohammad Rashedul Alam gave a keynote presentation on the theme of this topic.

CVASU Vice-Chancellor Professor Dr. Mohammed Yousuf Elahi Chowdhury addressed the function as the Chief Patron.

Professor Dr. Amir Hossan Shaikat, Head of the Department of Physiology, Biochemistry, and Pharmacology, presided over the event.

Professor Goutam Kumar Debnath, Dean, Faculty of Veterinary Medicine, Professor Dr. A. K. M. Saifuddin, Director (External Affairs), Professor Dr. Md. Ahasanul Hoque, Director, One Health Institute addressed as special guests.



MS thesis abstract published

The Department of Physiology, Biochemistry and Pharmacology (DPBP), CVASU has published a compilation of 77 MS thesis abstracts, showcasing the research contributions of our postgraduate students.

A wonderful reflection of our commitment to research, learning, and scientific advancement.



DPBP, CVASU and Albion Laboratories Limited Sign MoU to Strengthen Research and Academic Collaboration

Department of Physiology, Biochemistry and Pharmacology (DPBP), Chattogram Veterinary and Animal Sciences University (CVASU) has signed a Memorandum of Understanding (MoU) with Albion Laboratories Limited to strengthen collaboration in Pharmacology education, animal health research particularly drug trial, and the exchange of scientific and technical knowledge.

The MoU signing ceremony was held on Saturday, 10 October 2026, at the conference hall of Albion Laboratories Limited's Sitakunda plant.

The agreement establishes a framework for collaborative initiatives in joint research, laboratory-based and field research, scientific evaluation of animal health products, academic activities, training, technical knowledge exchange, and extension services. This partnership is expected to create new opportunities to bridge academic research and industry practices, promote evidence-based approaches to animal healthcare, and contribute to the advancement of veterinary science and livestock health in Bangladesh. Representing Albion Laboratories Limited, the ceremony was attended by Mr. Md. Muntahar Uddin, Managing Director; Mr. Mohammad Sharifur Rahman, Senior General Manager (Business Development); Dr. M. M. Mafizul Islam Mridul, Assistant Manager, PMD, Animal Health Division; Dr. Md. Mobarak Hossain, Senior Product Manager; and Mr. Md. Zahid Hossain, Executive.

Representing

DPBP, Prof. Dr. Amir Hossan Shaikat, Head of the Department of Physiology, Biochemistry and Pharmacology, attended the ceremony alongside Prof. Dr. A. K. M. Saifuddin, Prof. Dr. Mohammad Rashedul Islam, and seven other faculty members, including professors, associate professors, assistant professors, and lecturers from the department.

The MoU marks an important step towards strengthening university–industry collaboration and fostering a mutually beneficial partnership that integrates scientific research, academic expertise, and practical applications in animal health. Through this collaboration, both institutions aim to promote innovation, enhance research capacity, and support the sustainable development of the veterinary and livestock sectors.

