



Message from the Head

It is with great pride that I present this issue of our departmental newsletter, covering the vibrant activities and accomplishments from February to May 2025. This period has been marked by academic enthusiasm, scientific advancement, and strong community engagement.

We warmly welcomed our new MS students for the January–June 2025 session, setting the stage for another chapter of learning and growth. Our department has made significant strides in research through the dedication of our postgraduate researchers and collaborators which is truly commendable.

Our students also excelled at the Jamal Nazrul Islam Research and Innovation Festival 2025, where their hard work was recognized with the prestigious Research Excellence Award. Beyond academics, our MS students showcased remarkable leadership by organizing a successful Iftar event, fostering a sense of unity and compassion.

Additionally, practical learning remained a priority through hands-on training at Hathazari Campus and a valuable educational visit to the Military Farm, Chattogram.

Together, these endeavors reflect our ongoing commitment to excellence in teaching, research, and community service.

Prof. Dr. Amir Hossan Shaikat

Head, DPBP, CVASU

New Fresher's at DPBP, CVASU

On 18th February 2025, the Department of Physiology, Biochemistry, and Pharmacology (DPBP) had the

privilege of welcoming the new cohort of MS

students for the January–June 2025 session. The

event was presided over by our esteemed Head of DPBP, Prof. Dr. Amir Hossan Shaikat, who graciously addressed the incoming students with words of encouragement and guidance for their academic journey.

The program was facilitated by the current MS



students of the Jul-Dec 2024 session, who played a vital role in making the newcomers feel at home. Their support and camaraderie ensured that the event was both informative and engaging.

The department is excited to embark on this new academic chapter with the new students, who bring fresh energy, enthusiasm, and diverse perspectives to

our community. A warm welcome was extended to all, with the hope that each student will thrive in their studies and contribute to the department's legacy of excellence in research and learning.

We wish all our new students success and look forward to seeing them excel in their academic and professional pursuits.

DPBP Launches Research on MicroRNA and Diabetes: Blood Tests Conducted on 60 Patients

Department of Physiology, Biochemistry and Pharmacology has initiated a groundbreaking study on Type 2 diabetes, focusing on the role of MicroRNA in regulating cholesterol, vitamin D, and insulin genes. Blood samples were collected from 60 patients, including university employees, as part of this research.

With the support of Dr. Mohammad Riad from CVASU's medical center, the week-long program began on February 25, 2025, and included 35 female and 25 male participants.

Patients voluntarily provided essential personal details such as name, age, height, weight, and medical history to ensure accurate results.

Following collection, postgraduate researchers conducted comprehensive biochemical tests in the department's laboratory. The analysis included lipid profile tests (HDL, LDL, cholesterol, and triglycerides), fasting blood glucose, uric acid, CRP, and blood urea nitrogen (BUN) levels.

Once the testing was completed, postgraduate students Tasnim Mahbub Tuba and Fauzia Tabassum distributed the reports to the patients.

This study is part of the CVASU-funded research project for the 2024–2025 fiscal year, led by Associate Professor Dr. Md. Shohel Al Faruk. Professor Dr. Amir Hossan Shaikat, Head of the Department, emphasized that the initiative aims to enhance diabetes management by improving patient awareness and monitoring their health more effectively.



When CVASU was triumphing on the CU premises!



At the Jamal Nazrul Islam Research and Innovation Festival 2025, held on February 26, 2025, the MS students of the Department of Physiology, Biochemistry, and Pharmacology (DPBP), CVASU, showcased their creativity and dedication by architecting an impressive and dynamic stall. This meticulously designed stall served as a comprehensive reflection of the department's academic excellence, pioneering research, and impactful extension activities. With its engaging presentation and multifaceted displays, the stall effectively highlighted the department's contributions to scientific innovation, veterinary and biomedical research, and community outreach initiatives. The enthusiastic participation of the MS students, coupled with their ability to present complex scientific concepts in an accessible manner, drew significant attention from visitors, fellow researchers, and academicians. As the festival reached its pinnacle, the moment of honor arrived when the respected Vice-Chancellor of the University of Chittagong officially presented the Jamal Nazrul Islam Research Excellence Award, marking a significant milestone in the celebration of scientific achievements and innovation. The entire initiative was led and directed by Professor Dr. Amir Hossan Shaikat, Head of the Department of Physiology, Biochemistry, and Pharmacology, CVASU, whose guidance and leadership played a pivotal role in shaping the team's success. This event not only underscored the department's commitment to cutting-edge research and academic excellence but also reinforced its role in fostering scientific curiosity and innovation among young scholars.

MS Students of CVASU Earn Praise for Successful Iftar Event Organization

The Department of Physiology, Biochemistry, and Pharmacology at Chattogram Veterinary and Animal Sciences University (CVASU) witnessed a heartwarming display of unity and dedication as its MS students played a pivotal role in organizing a successful Iftar event on campus.

The gathering, which brought together faculty members, students, and staff, was marked by a strong sense of community and the spirit of togetherness during the holy month of Ramadan. Behind the seamless execution of the event was the remarkable effort of the MS students, who have been widely applauded for their commitment and organizational excellence.

From planning and logistics to venue preparation and on-the-ground coordination, the students demonstrated outstanding teamwork and professionalism. Their attention to detail and ability to deliver under tight timelines ensured the event ran smoothly and was enjoyed by all in attendance.

“This Iftar was more than just a meal—it was a celebration of generosity and solidarity,” said a faculty spokesperson. “The MS students set a shining example of leadership and community spirit, and we are immensely proud of their contributions.”



Participants praised the warm and inclusive environment fostered by the organizers, noting that the event was a meaningful reflection of the values upheld by the university. Many attendees expressed their appreciation for the students' efforts, which created an atmosphere that was both welcoming and festive.

As CVASU continues to nurture a culture of collaboration and student engagement, this successful Iftar event stands as a testament to what can be achieved through unity, hard work, and sincere dedication.

Hands-on Learning Experience for DVM Students at CVASU

The 1st year, 1st semester students of the Doctor of Veterinary Medicine (DVM) program at the Faculty of Veterinary Medicine (FVM), CVASU, had the opportunity to gain hands-on experience in blood collection at the Hathazari Research and Farm-based Campus. Under the guidance of Assistant Professor Dr. Md. Ridoan Pasha from the Department of Physiology, Biochemistry and Pharmacology (DPBP), students successfully collected blood samples from poultry, goats, and cattle — a vital skill that will serve as a foundation for their clinical and research competencies throughout their veterinary careers.

Professor Dr. Amir Hossan Shaikat, Head of the Department (DPBP), acknowledged and appreciated the effort, emphasizing the importance of such practical exposure in shaping future veterinarians. This field-based learning initiative reflects CVASU's commitment to integrating academic knowledge with real-world application from the very beginning of veterinary education.



Educational Visit to Military Farm, Chattogram

On 10th May 2025, the students of the 28th batch of the Faculty of Veterinary Medicine (FVM), CVASU, visited the Military Farm in Chattogram as part of their practical course on Neuro-Endocrine and Reproductive Physiology.

During the visit, students gained valuable insights into the rich history of the farm, dairy cattle management practices, housing systems, modern approaches to dairy farm operations, feeding strategies, reproductive physiology, and ongoing research initiatives.

The visit was conducted under the guidance of Prof. Dr. Mohammad Rashedul Alam, Department of Physiology, Biochemistry and Pharmacology (DPBP), CVASU, and Prof. Dr. Amir Hossan Shaikat, Head of the Department.

We extend our sincere gratitude to Lt Colonel Dr. Mohammad Mizanur Rahman, Commanding Officer, for granting permission and facilitating the visit. Special thanks to Major Dr. Md. Anamul Haque, Major Harun,

and Major Shams for their generous time, warm hospitality, and insightful lectures.



Publications in the period of January 2024 to December 2024

1. Pasha, M. R., Hossain, M. B., Shaikat, A. H., Rahman, M., & Alam, M. R. (2024). Welfare assessment of broiler chickens at live bird market of Chattogram in Bangladesh. *Journal of Advanced Veterinary and Animal Research*, 11(3), 803–809.
2. Munna, M. Y., Pasha, M. R., Shuvo, M. S. H., Hassan, M. M., Simon, A. A., Khan, S. A., & Alam, M. R. (2024). Assessing the visitors' attitude and the zoo animals' behavior from Chattogram Zoo: A Bangladesh perspective. *Bangladesh Journal of Veterinary and Animal Sciences*, 12(2), 17–26.
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4. Roy, S., Debi, H., Das, S., Chowdhury, L., Chakma, S., & Islam, S. K. M. A. (2024). Phytochemical analysis of *Ocimum sanctum* and *Swertia chirayita*, and antimicrobial properties of *Ocimum sanctum* against some bacterial strains isolated from poultry. *Bangladesh Journal of Veterinary and Animal Sciences*, 12(2), 40–51.
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