

# UMT NEWSLETTER

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# UMT NEWSLETTER

Vol. 3 Issue 3, March 2023

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As we embark on a new year, Universiti Malaysia Terengganu (UMT) stands proud and optimistic, blazing a trail of academic excellence and community impact. Our Vice Chancellor has set an inspiring vision for knowledge transfer that reaffirms our commitment to making a real impact on the world. With a bold vision for the future, UMT is taking strides towards becoming a top academic institution, empowering communities, and driving positive change in Malaysia and beyond.

In his 2023 New Year's address, our Vice-Chancellor highlighted the crucial role that translational research and knowledge transfer play in creating meaningful improvements in social and economic well-being. At UMT, we are committed to turning this vision into a reality, as we believe that research and academic excellence should not exist in a vacuum. Instead, they should be used to empower communities, catalysing meaningful improvements in social and economic well-being. That's why we have been investing in knowledge transfer programmes and translational research projects since 2017, and the results have been truly remarkable. Our efforts to transfer knowledge and know-how to communities have been met with enthusiasm as we empower them with the tools to become successful entrepreneurs and improve their quality of life. Consequently, with a renewed focus on translational research, we are poised to make a real difference in the lives of the people we serve.

From mud crab and shrimp rearing to artemia culture and horseshoe crab community-based tourism, UMT's programs have not only been well received but have also created meaningful improvements in social and economic well-being. Our internal grants have enabled us to achieve targeted impacts, and we have been recognised as a top academic institution for our commitment to knowledge transfer, which consequently cemented UMT's reputation as a leading academic institution committed to positive change.

UMT's commitment to excellence and impact has earned us recognition from the Ministry of Finance, which recently awarded us funding for two pioneering social enterprise projects. The rearing of mud crabs by the local communities in Kemaman and the development of entrepreneurs in home-based food products for the urban poor are just the beginning of what promises to be an exciting era of growth and impact for UMT, as it will leverage the expertise of our faculty to create lasting impact in the communities we serve. Thus, the recent funding from the Ministry of Finance for our social enterprise projects is a testament to the success of our approach and will enable us to continue making a difference.

As we move forward, UMT will continue to lead the charge in knowledge transfer, innovation, and community engagement. With a team of dedicated faculty and staff, we are proud to be a part of this dynamic institution and look forward to achieving even greater heights in the years ahead. Through our unwavering commitment to knowledge transfer, we will continue to build a brighter future for all.

So let us look forward to the future with hope and optimism, knowing that UMT will continue to be a force for good in the world. Together, we can achieve great things and make a lasting impact on our society.



Professor Dr. Fauziah HJ. Abu Hasan  
Executive Editor

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# UMT Hosts an Inaugural Visit from the Minister of Higher Education: Celebrating Achievements in Sailing and Teaching

Amirul Salam Hasan, Corporate Communications Office  
Muhamad Khairul bin Zakaria, Centre for Fundamental and Continuing Education

Universiti Malaysia Terengganu (UMT) was recently honoured to welcome the Minister of Higher Education, YB Dato' Seri Mohamed Khaled Nordin, on his inaugural visit to the East Coast. As he embarked on his working visit, the former 15th Johor Chief Minister was received warmly by the university's top management and senior officers.

During the visit, the Minister toured UMT's facilities, including the renowned research vessel RV Discovery, the sailing ship operating centre, and equipment that enriches the teaching and learning experience of students. The Minister was impressed by UMT's commitment to providing a well-rounded education that empowers students to reach their full potential.

The visit also presented an opportunity for UMT's Vice Chancellor, Prof. Dato' Dr. Mazlan Abd. Ghaffar, to highlight the achievements of a group of UMT students who won third place in the International Sailing Ship Championship in South Korea last November. It was a moment of pride for the university, as these students were the only team from a public higher education institution to participate in the competition. The Minister expressed his admiration for UMT's success in sailing sports and encouraged the university to continue pursuing excellence in this field.

Furthermore, the Vice Chancellor informed the Minister about the readiness of the UMT team and the RV Discovery crew to participate in the 16th Langkawi International Maritime and Aerospace Exhibition 2023, which will be the country's largest maritime exhibition to date. This is a testament to UMT's dedication to contributing to the development of Malaysia's maritime industry and its commitment to creating opportunities for students to engage with real-world challenges.

The Minister also took the opportunity to interact with UMT students, including those in the disabled (OKU) category, who actively participate in sailing activities led by staff from the UMT Sailing Centre (PLP). This engagement reflects the Minister's deep commitment to promoting inclusivity and diversity in higher education.

As the Minister's first stop on the East Coast since being appointed by Prime Minister Dato' Seri Anwar Ibrahim last year, UMT was thrilled to have the opportunity to showcase its achievements and involvement in this endeavour. The visit program and Hi-Tea with the Minister of Higher Education and UMT were attended by UMT Board of Directors member Mr. Mohd Khairul Hakimi Mohd Nawawi, Deputy Vice Chancellor (Research and Innovation), Prof. Dr. Marinah Mohd Ariffin, and Pro Vice Chancellor, Prof. Dr. Fauziah Abu Hasan. The university looks forward to further opportunities to showcase its commitment to excellence and collaboration in the future.



# UMT Vice Chancellor's 2023 Address: "Intellectual Excellence, Prestigious Reputation"

Mohd Ihwan bin Zakariah, Vice Chancellor's Office  
Muhamad Khairul bin Zakaria, Centre for Fundamental and Continuing Education

On February 20, 2023, the Mahyuddin Auditorium hosted a momentous occasion that was attended by the entire UMT community and streamed live worldwide on the university's official Facebook page. The UMT Vice Chancellor's Address for 2023 marked an important milestone in the university's 20-year history, reflecting on the remarkable successes, achievements, and challenges that UMT has encountered both nationally and internationally.

As an emerging university, UMT has strived to earn a reputation for academic excellence and global recognition. Today, UMT's reputation is widely acknowledged and respected worldwide, and 2023 marks a pivotal year as UMT transitions into a mature institution.

In light of this, the Vice Chancellor's address for 2023 outlines UMT's ambitious initiatives to overcome future challenges, emphasizing the importance of financial sustainability, talent empowerment, reputation enhancement, and community engagement through the assimilation of research-based knowledge. These values are in line with the core principles and fundamental values outlined in the 2023 Minister of Higher Education Address, serving as a guiding beacon for higher education institutions across the country.

UMT's comprehensive approach to addressing these four key challenges will enable the institution to achieve sustainable excellence, with performance achievements measured over time to identify gaps and weaknesses for continual improvement. The new UMT Strategic Plan 2023–2027 outlines various initiatives aimed at tackling these challenges head-on and ensuring UMT remains relevant in the current higher education landscape.

During the event, the UMT Vice Chancellor also unveiled a new UMT corporate video for 2023, which showcases the university's evolution and serves as the main promotional medium for UMT's strategic partners.

As we look forward to a bright future, UMT's community is called upon to embrace these initiatives and navigate the challenges of 2023 together. With the university's unwavering commitment to intellectual excellence and prestige, UMT is set to achieve even greater heights in the years ahead. As UMT continues to make significant strides in the world of higher education, it serves as a source of inspiration for all who seek to achieve excellence in their academic pursuits.





# Celebrating UMT's Revolutionary Achievement with the SINAvac Intranasal Mannheimiosis Vaccine

Mohd. Effendy Bin Abd. Wahid, Faculty of Fisheries and Food Science  
Muhamad Khairul Bin Zakaria, Centre for Fundamental and Continuing Education

Mammals, much like humans, have a defence system against infectious diseases. They are susceptible to infections caused by microorganisms such as viruses, bacteria, protozoa, parasites, fungi, and metabolic diseases. Fortunately, some conditions caused by viruses can be treated with antiviral drugs, while bacterial infections can only be cured through antibiotic treatment. Parasitic infections can be treated with anti-parasitic medications, and anti-fungal drugs are effective against fungal infections. However, these drugs must be appropriately used as prescribed by veterinarians. In the absence of illness, vaccines could be administered to produce antibodies that help protect against future infections. Parenteral approaches or injections into the muscle, under the skin, or into the bloodstream are often used to protect livestock from viral infections. Injection methods are typically employed for pets such as cats, dogs, rabbits, goats, and sheep, as well as for large animals such as horses, cattle, buffalo, elephants, and others. However, vaccines can also be used to provide antibody protection against diseases caused by animal bacteria.

At UMT's Faculty of Fisheries and Food Science, we are proud to have developed an intranasal spray vaccine that can help prevent Mannheimiosis disease in animals caused by the commensal bacterium *Mannheimia haemolytica* A2. The bacteria inhabit the upper respiratory tract of animals and do not cause any disease as long as the animals are healthy. However, when animals experience stress, as in the case of physiological changes such as pregnancy, giving birth, transportation to distant places, or introducing a new group of animals to the farm, their immune systems are suppressed, making them vulnerable to the disease.

Retrospectively, in 1995, Profesor Ts. Dr. Mohd. Effendy Bin Abd. Wahid, current Dean of the Faculty of Fisheries and Food Science, registered for a Master of Science (Research) degree in Veterinary Immunopathology at UPM. His study focused on respiratory diseases caused by *Mannheimia haemolytica* A2 in sheep and goats. The goal was to investigate the development of the immune system in goats and how they

can contract pneumonia caused by bacteria and provide better protection against the disease. The study showed that stress increased the animals' susceptibility to the disease and that when the bacteria multiplied and spread to the lungs, it caused inflammation and reduced productivity.

To prevent this, Profesor Ts. Dr. Mohd. Effendy Bin Abd. Wahid developed a two-tiered immune system vaccine that uses two doses of inactive *Mannheimia haemolytica* bacteria given 14 days apart. This approach builds up local immunity in the lungs, and the goat's serum fights off the infection if it spreads there. The intranasal spray vaccine proved more effective than injection vaccines that protect only after the bacteria enter and infect the lung tissue through the bloodstream.

The SINAvac Intranasal Mannheimiosis Vaccine has received numerous accolades for its innovative approach, including a gold medal at the 2005 Innovation Product Research Exhibition INPEX in the United States and first place at the 2006 Intellectual Property Event held by the Ministry of Domestic Trade and Consumer Affairs. The vaccine is being commercialised through Sinavax Sdn. Bhd., which manages the project's operations and finances its commercialization. The product has also entered into a manufacturing agreement with Malaysia Vaccine Pharmaceuticals (MVP) Sdn. Bhd. and is being registered with the Department of Veterinary Services for marketing overseas. UMT is proud to have achieved such success in the field of veterinary immunology, and we look forward to seeing the SINAvac Intranasal Mannheimiosis Vaccine benefit livestock globally.

This revolutionary vaccine is a testament to the expertise and dedication of UMT's researchers, who have made significant strides in veterinary medicine. UMT is proud to be at the forefront of innovation and is committed to making a positive impact on society through research and development. This achievement serves as an inspiration to the next generation of researchers, who will undoubtedly follow in Profesor Ts. Dr. Mohd. Effendy Bin Abd. Wahid's footsteps.



# UMT Collaboration with Entomal Biotech to Boost Aquaculture Industry

Liew Hon Jung, Institute of Tropical Aquaculture and Fisheries  
Muhamad Khairul Bin Zakaria, Centre for Fundamental and Continuing Education

The year 2023 marks another milestone in the history of University Malaysia Terengganu (UMT) as it partners with Entomal Biotech Sdn. Bhd. to expand breeding activities of black soldier fly (BSF) larvae, *Hermetia illucens*, for aquaculture animal feed production. The Letter of Intent (LOI) was signed on January 31, 2023, with UMT's AKUATROP Director, Prof. Dr. Mhd. Ikhwanuddin Abdullah, and Assoc. Prof. Dr. Liew Hon Jung, together with esteemed academic and scientific officers from AKUATROP, present at the signing ceremony. Entomal Biotech's CEO, Dato Dr. Azman Ching, Mr. Vic Pui Wee Kong, Chief Technical Officer, Mr. Thomas Pui Wee Hua, Chief Operating Officer, and technology officers, Miss Nor Athasha and Miss Nur Fathihah, were also in attendance.

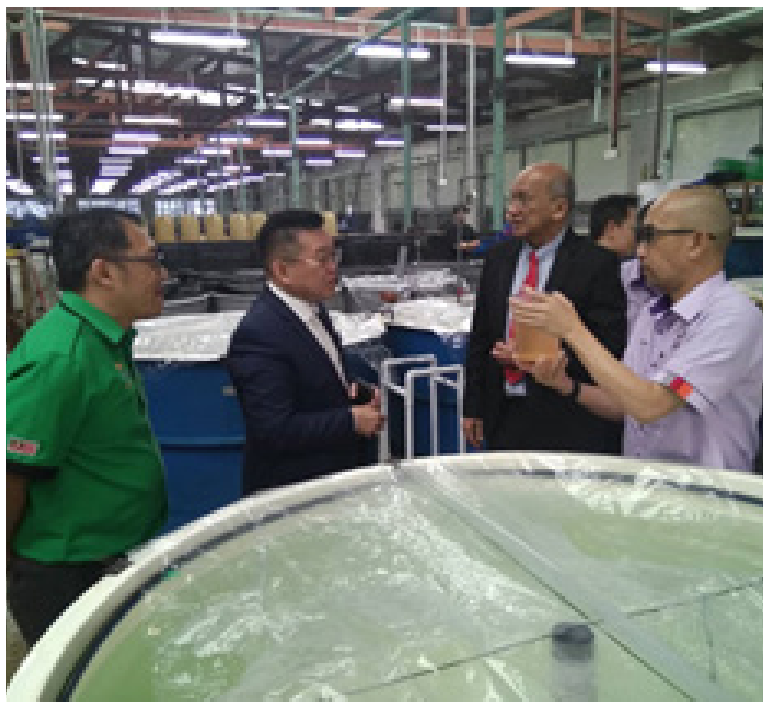
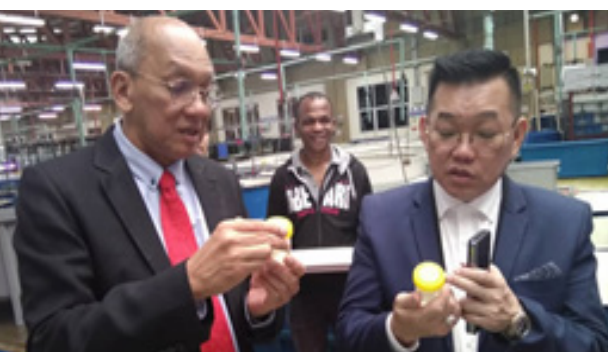
The focus of this exciting collaboration is to address the issue of protein supply shortages from animal and plant sources, such as fish meal and soybean meal, which are the main sources of animal feed production. The research project, led by Assoc. Prof. Dr. Liew Hon Jung and co-researcher Dr. Sharifah Rahmah Syed Muhammad, aims to establish BSF larvae as a viable alternative protein source for aquaculture animal feed production.

BSF larvae are easy to breed in tropical climates like Malaysia and require no complicated breeding procedures. They boast an impressive nutritional content of almost 40% to 50% protein, 29% to 35% lipid, and a rich essential amino acid profile that is comparable to fish meal and even better than

soybean meal. Moreover, the larvae exhibit antibacterial and antiviral properties, making them a promising material for the production of high-quality aquaculture feed.

The project will kick off with the establishment of a BSF larvae breeding hatchery and a special laboratory for research and feed formulation production purposes. The pilot plan will be completed within two (2) to three (3) months, with the project scheduled to begin in May 2023. This project's success is essential for producing high-quality aquaculture formulation feed that can be marketed, and UMT is proud to be a part of it. The research funding is under the responsibility of Entomal Biotech.

UMT is optimistic that this collaboration will revolutionize the aquaculture industry by providing a sustainable and eco-friendly source of protein for animal feed production. The university's dedication to research excellence and innovation is evident in its involvement in this endeavor, and UMT is excited to see where this partnership leads in the years to come. The impact of this collaboration cannot be overstated. With this project, UMT is leading the way in developing innovative, sustainable, and effective solutions to the challenge of animal feed production while providing a vital boost to the aquaculture industry. The UMT community can take great pride in this achievement, as it is a testament to the institution's commitment to excellence, research, and positive impact. The world is watching, and the future looks bright.





# The Rise of UMT's STEM Foundation Centre Debaters: Making a Mark in National Competition

Laili Che' Rose, STEM Foundation Centre  
Muhamad Khairul bin Zakaria, Centre for Fundamental and Continuing Education



In a remarkable achievement for Universiti Malaysia Terengganu (UMT), a group of students from the STEM Foundation Centre have advanced to the final stage of the 2023 Inter-Asasi Public University Debate Competition and emerged as runners-up, marking the first time in UMT's history that it has achieved this feat. The competition witnessed the participation of 44 English and Malay language teams from 13 higher education institutions and matriculation colleges from across the country and was held at the National Defence University of Malaysia on February 18 and 19, 2023, featuring face-to-face semi-finals and finals rounds.

In the final round of the English language category, UMT went head-to-head with the University of Malaya A, presenting a compelling argument on the motion, "This House Believes That Parents Should Raise Their Children to Prioritize Collectivism over Individualism". In a closely fought battle, the University of Malaya A clinched the championship trophy and was declared the winner of the 2023 Inter-Asasi Public University Debate Competition. Despite falling short of the top spot, the achievements of UMT's main debaters, Muhammad Haziq Irfan Bin Azman, Muhammad Adam Bin Kamarul Azman, Muhammad Aiman Syauqi Bin Mohamad Zaini, and Muhammad Hazezur Bin Abdul Rauf, cannot be understated.

"This victory is a special achievement for us, but our experience and journey to reach this level are far more valuable," said Muhammad Haziq Irfan, representing his fellow debaters.

The Inter-Asasi Public University Debate Competition is an annual event organised by the Council of Asasi Deans and Directors of Public Universities, aimed at showcasing the



talent of Asasi and Matriculation students and honing their public speaking skills and oratorical art. Introduced in 2020, the competition employs a parliamentary-style debate format and has entered its third edition. According to Associate Professor Dr. Laili binti Haji Che Rose, Director of the Council of Asasi Deans/Directors of Public Universities and Director of the STEM Foundation Centre at UMT, the competition is an excellent opportunity for students to cultivate critical and analytical thinking practices. She expressed hope that the event will continue in the future, providing a platform for more students to hone their skills and showcase their talent.

UMT's outstanding performance in the 2023 Inter-Asasi Public University Debate Competition is a testament to the university's commitment to fostering a culture of excellence and nurturing talented individuals, as well as providing a conducive environment for students to learn and grow and an inspiration for aspiring debaters across the nation. UMT takes pride in the achievements of its students and looks forward to continuing its journey towards excellence in all areas. As UMT continues to raise the bar and carve a niche for itself in the academic world, we look forward to more achievements and accomplishments in the years to come.

# The Convergence of Education and Technology: PSNZ UMT's Vision for IR4.0 Innovation and Impactful Initiatives

Amirul Salam Hasan, Corporate Communications Office  
Muhamad Khairul bin Zakaria, Centre for Fundamental and Continuing Education

Universiti Malaysia Terengganu (UMT) has made significant strides in improving the quality of education for its students through its partnerships with prestigious organizations. The government of Malaysia recognizes the importance of libraries and the need to improve them, especially for students. To this end, UMT has received RM82 million through the 11th Malaysia Plan, with RM10 million set aside for UMT's IR 4.0 ICT infrastructure and infostructure facilities. UMT's marine and aquatic resources focus also secured about RM3 million for the Sultanah Nur Zahirah Library (PSNZ) under the element of Teaching and Learning Facilities for Higher Education 4.0 ICT. As a result, the library underwent significant renovation and upgrade projects, with the objective of improving the quality of services offered to its clients, particularly students and researchers. The project had two phases divided into three categories, namely software, equipment or machinery, and platform or room modification, and was completed in 2022.

The PSNZ management is committed to implementing transitional phases and facility upgrades to offer the best service to its customers, according to Abu Hasan Ghazali, the Chief Librarian at UMT. To achieve this, the library uses Industry 4.0 technology concepts, which are in line with UMT's strategic plan. The PSNZ Corporate Corner was also created to attract corporate companies to jointly develop the PSNZ. The PSNZ management has established a cooperation relationship with corporate companies to develop the collections, services, and facilities in the library, providing opportunities for library users to benefit from this cooperation.

UMT has also partnered with the Zakat Academy, Etiqa General Takaful Berhad, and Yayasan Bank Rakyat to enhance the quality of education for its students. Through the collaboration, Etiqa Takaful established an AZKA Corner at UMT, providing students with access to the latest information on Islamic finance, Zakat, Waqf, and social Islamic finance. The collaboration between UMT and the Etiqa General Takaful Berhad Business Zakat has also resulted in RM65,000 worth of assistance to a UMT-sponsored school, ensuring that students have access to essential equipment and furniture for their resource centres.



UMT has also received assistance from the Bank Rakyat Foundation's SIR Corner initiative, which donated the latest equipment and digital database materials to UMT's library. The initiative ensures that students have unlimited access to information, keeping up with the latest technological trends and creating a conducive learning environment. The Bank Rakyat Foundation has also established the Early Study Assistance initiative, which provides financial assistance to less fortunate UMT students to continue their studies. The initiative has allocated RM 100,000 to B40 UMT students, with each selected student receiving RM 1,000, ensuring that students from underprivileged backgrounds can access quality education.

UMT's collaborations with the Zakat Academy and the Bank Rakyat Foundation have contributed immensely to the quality of education at the university. These initiatives demonstrate UMT's commitment to providing its students with access to the latest information, ensuring that they receive a world-class education. With these collaborations and upgrades, UMT's Sultanah Nur Zahirah Library has become an excellent resource centre for students and researchers, supporting UMT's efforts in marine and aquatic resources.

The PSNZ's upgrades are not only beneficial to UMT students but also the community as a whole. UMT's commitment to improving its facilities and services is an inspiration to other institutions and an example of how investments in technology can enhance the quality of education. UMT's upgrades to the PSNZ are a testament to its commitment to academic excellence, and its strategic partnerships demonstrate how collaboration can help institutions achieve their goals.







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