

COLLABORATION FOR SDG BEST PRACTICE

2023



**Universitas
Sumatera Utara**

 **Transformation
Towards the Ultimate**

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Faculty of Medicine USU and 19 Institutions Research Malaria Mosquitoes



The Faculty of Medicine at Universitas Sumatera Utara (USU) held a workshop titled Entomology Morphological and Identification PCR, focusing on mosquito research. This workshop took place from January 16 to 20 as part of a collaboration involving FK USU, James Cook University Australia, the University of Malaya, and the National Research and Innovation Agency (BRIN).

Brief Explanation of the Event: The workshop was attended not only by lecturers and students of FK USU but also by participants from 19 other institutions involved in this research project. Dr. Inke Nadia Diniyanti Lubis, M.Ked(Ped), Sp.A, PhD, Vice Dean III of FK USU, mentioned that this training aimed to enhance the capabilities of practitioners in identifying mosquitoes in the field and understanding the dynamics and prevention of diseases caused by Simeon Malaria.

Dr. Triwibowo Ambargarjito from B2V2PRP Salatiga, Balitbangkes, Ministry of Health RI, highlighted the importance of this training in supporting further analysis to understand the transmission dynamics of mosquito-borne diseases. This collaboration was also appreciated by Dr. Wong Meng Li from the University of Malaya, who expressed hopes for future collaborations to expand knowledge and strengthen relations between universities.

A workshop participant, Bram Van de Straat from James Cook University, regarded the hands-on research experience in Medan as highly valuable and hoped to learn more directly from experts. This event underscored the urgency of mosquito research, given the high number of malaria cases caused by mosquitoes.

Link:

<https://www.usu.ac.id/id/berita/fk-usu-bersama-19-institusi-teliti-nyamuk-malaria>

USU and SPIRIT Club Collaborate with University of Nicosia, Cyprus



The visit aimed to develop a curriculum on sports and nutrition to help prevent infectious diseases in the future. The USU SPIRIT Club, supported by USU Rector Prof. Dr. Muryanto Amin, S.Sos, M.Si., was established to promote proper physical activity and healthy nutrition. This club serves as an agent of change to encourage youth and the wider community to increase physical activity, as stated by the USU SPIRIT Project Coordinator, Prof. Dr. dr. Dina Keumala Sari, M. Gizi, SpGK (K).

Prof. Dina emphasized the importance of curriculum development at Universitas Sumatera Utara, which will be applied through two models: Conventional Courses and Life Long Learning (LLL) Courses. The conventional courses are already part of the curriculum at the Faculty of Medicine in the Wellness Integrated Medicine and Senior Care blocks. LLL courses target a broader academic audience.

The curriculum development includes collaboration with the University of Nicosia, Cyprus, focusing on the Nutrition Management and Exercise in Cancer Patients course. This initiative received positive feedback from UNIC's Rector, Philipos Pouyioutas. The course, offering an official certificate from the Faculty of Medicine at USU, is equivalent to 2 SKS or 3 ECTS credits.

This development aims to provide new insights into teaching sports techniques, emphasizing sports and nutrition for athletes, with hopes of further expanding the partnership in education and research.

USU Collaborates with Earthwise Consulting Japan for Waste Management Solutions



Universitas Sumatera Utara (USU) Rector, Prof. Dr. Muryanto Amin, S.Sos., M.Si., and Representative Director of Earthwise Consulting Japan, Yudai Tadaki, BSc., signed a Memorandum of Understanding and a Cooperation Agreement in the GBPA USU Audience Room on Thursday, April 6, 2023. This partnership focuses on environmental issues and involves the Environmental Engineering Program of the USU Faculty of Engineering.

Dean of the Faculty of Engineering, Dr. Ir. Fahmi S.T., M.Sc., IPM, explained that Earthwise Consulting would provide a pyrolysis machine for waste management within the campus, turning waste into energy. Plans are underway to extend this waste management initiative using pyrolysis beyond the campus, targeting the city of Medan, with discussions to follow with the Medan city government. Before the broader implementation, Yudai Tadaki will directly train USU Environmental Engineering students and assess the effectiveness of the pyrolysis technology. Tadaki expressed enthusiasm for the collaboration, noting USU's significant interest in waste management and Medan's potential for sustainable waste solutions. He also anticipated future collaborations beyond Indonesia.

"There is much hope for a brighter future for waste management in Medan and for further collaboration, not just locally but internationally," said Yudai Tadaki.

Link:

<https://www.usu.ac.id/id/berita/kolaborasi-usu-earthwise-consulting-japan-pengelolaan-sampah>

USU Collaborates with Universiti Sains Malaysia



On May 10, 2023, the team traveled to Penang and engaged in a Focus Group Discussion on May 11 with Prof. Sanusi regarding green buildings in Malaysia. The team also met with Assoc. Prof. Ts. Dr. Mohd Rodzi Bin Ismail, Dean of the School, to discuss further collaborations, including joint research, publications, and conferences. Prof. Sanusi proposed a collaborative conference in January 2024 in Bangkok with universities from Oman and Thailand.

The team also participated in discussions with Mr. Baylon Tham from the Malaysia Green Building Council, learning about green building assessments and examples in Malaysia. On May 12, they visited the Paramit Building, an energy-efficient electronics factory in Penang, known for its forest-inspired design and energy-saving systems that reduce energy use by 40%.

The team also visited the Night Shelter for Homeless, which employs zero energy, water, and waste concepts. The shelter features natural lighting and ventilation, grey water recycling for irrigation, rainwater harvesting for toilets, and composting waste management.

Dr. Hilma emphasized that these discussions and visits would help promote the importance of green buildings in Medan and Indonesia, supporting Indonesia's goal of achieving a 43% reduction in emissions by 2030. "Green buildings benefit users and contribute positively to urban environmental quality

Link:

<https://www.usu.ac.id/id/berita/tim-wcu-usu-kerja-sama-dengan-universitas-sains-malaysia>

USU-Duke NUS Strengthen Global Health Collaboration



Universitas Sumatera Utara (USU) signed a Memorandum of Understanding (MoU) with the National University of Singapore (NUS) and Singapore Health Services PTE LTD on July 20, 2023. The agreement includes joint research and publications, exchange of research materials and information, academic symposiums, project development, and other impactful activities.

USU Rector Prof. Dr. Muryanto Amin highlighted that the partnership aims to enhance academic quality and education at USU, especially in health and medicine. Vice Rector III, Prof. Dr. Poppy Anjelisa Zaitun Hasibuan, emphasized the significance of this tripartite collaboration involving USU, SingHealth, and Duke-NUS Medical School.

Dean of the Faculty of Medicine, Prof. Dr. dr. Aldy Safruddin Rambe, noted that this renewed MoU continues years of existing cooperation and aims to establish a SingHealth Regional Office at USU, supporting research, student exchange, and staff training.

Dean of Duke-NUS Medical School, Prof. Thomas Coffman, and other representatives expressed enthusiasm, recognizing this partnership as a unique and sustainable platform for expanding programs and contributing to healthcare advancements. Prof. Ivy Ng, Group CEO of SingHealth, underscored the importance of shared wisdom and knowledge to improve patient care in both Indonesia and Singapore.

Link:

<https://www.usu.ac.id/id/berita/usu-duke-nus-global-health-perkuat-kerja-sama>

USU SPIRIT Club Participates in International Event in Portugal



Universitas Sumatera Utara (USU) participated in the SPIRIT International Event funded by Erasmus Plus, held from September 11-15, 2023, at the University of Lisboa, Portugal. The event, themed "Inspiring Inclusion in Sports: Success Stories, Practical Skills, and Management Strategies," aimed to broaden participants' understanding of inclusive sports practices, highlighting the importance of involving all community members, including those with disabilities and individuals of diverse genders.

This five-day event brought together representatives from 11 universities across Portugal, Spain, Cyprus, India, Sri Lanka, and Indonesia. It served as a platform for sharing best practices and strategies under the Erasmus Plus EU-funded SPIRIT Project. Coordinated by Ana Pipio at the Faculdade de Motricidade Humana, University of Lisboa, the event emphasized the role of physical activity and proper nutrition in preventing non-communicable diseases, advocating for the inclusion of diverse groups in sports.

The event featured presentations such as "Inclusions In High Performance Sport" by coach Ivo Quendera and international paralympic medalist Norberto Mourao, which provided insights into success stories and pathways to achieving high performance. These presentations inspired participants, including USU representatives Dessy Ramasari (Faculty of Dentistry), Risris Salmah Andrian (Faculty of Cultural Sciences), and Fiora Patricia Ginting (Faculty of Economics and Business). The final day offered students the opportunity to share their reflections and insights gained during the event through a session titled "student premium time." Practical activities, including korfbal, traditional sports, and regional games, were conducted to reinforce the lessons of promoting physical activity as a means to prevent non-communicable diseases, with youth being positioned as change agents.

Link:

<https://www.usu.ac.id/id/berita/usu-spirit-club-ikuti-international-event-di-portugal>

USU Strengthens Ties with Chiba University of Commerce through MoU



Universitas Sumatera Utara (USU) has formalized a collaboration with Chiba University of Commerce (CUC), a leading Japanese institution recognized for its commitment to being a 100 percent renewable energy university. The memorandum of understanding (MoU) aims to bolster the internationalization efforts of both universities, enhancing joint research, student and staff exchanges, visiting professor programs, and guest lectures, where CUC faculty will contribute to USU's academic environment. The USU delegation, emphasized that this partnership is expected to advance international research collaboration and provide greater global exposure for USU students, enabling them to better adapt to international contexts. The collaboration will include program supervision to ensure sustainable and focused outcomes.

USU and CUC have a history of cooperation, marked by exchange programs involving USU students in past years. This recent visit by the USU delegation is set to expand the scope of collaboration, particularly in research. Prof. Muryanto expressed interest in learning from CUC's implementation of a renewable energy university model and its integrated research center operations, aiming for joint publications, citation growth, and doctoral program research. CUC, known for its strong programs in economics, accounting, sustainability, and research, is expected to contribute valuable insights. President of CUC, Toshinori Nakayama, welcomed the partnership, which aligns with the university's participation in the Global Partnership of Asian Colleges, comprising institutions from Japan, Korea, Taiwan, Vietnam, China, and Israel. This alliance encourages student exchange among member universities, and the new agreement with USU is anticipated to enhance CUC's global outreach.

Link

<https://www.usu.ac.id/id/berita/usu-mou-dengan-chiba-university-of-commerce-di-jepang>

USU and Muroran Institute of Technology Collaborate on AI Development



Universitas Sumatera Utara (USU) is advancing its efforts in artificial intelligence (AI) as part of its internationalization strategy through a collaboration with Muroran Institute of Technology in Japan, a renowned institution known for its technological advancements. USU's Rector, Prof. Dr. Muryanto Amin, SSos, MSi, led the university delegation to explore joint initiatives. This collaboration, initially established in 2013, aims to expand with programs focusing on AI development and earthquake mitigation technology. USU plans to increase doctoral student exchanges and introduce joint teaching programs featuring faculty from both institutions. The partnership will also include joint research projects funded by shared resources from Japan, enhancing USU's academic reputation globally and supporting its internationalization initiatives.

Muroran Institute, currently partnering with 52 universities across 22 countries, emphasized its commitment to expanding this relationship with USU through academic exchanges and research collaborations. Future initiatives will include visiting Muroran faculty teaching at USU and collaborative studies in disaster management, computer science, agriculture, and engineering. The students expressed strong support for these international programs and proposed more collaborative efforts, such as double degree and sandwich programs. USU continues to expand its network with reputable universities in Asia, Europe, the Americas, and the Middle East, reinforcing its commitment to becoming an internationally recognized academic institution.

Link:

<https://www.usu.ac.id/id/berita/usu-institut-muroran-di-jepang-kerja-sama-pengembangan-ai>

USU Strengthens Academic Ties through Visit to Universities in China



In a strategic move to advance its internationalization agenda, Universitas Sumatera Utara (USU), led by Rector Prof. Dr. Muryanto Amin, S.Sos., M.Si., attended a series of meetings with prominent universities in China from November 6-7, 2023. The visit aimed to establish academic collaborations and enhance USU's global profile. During his visit to Yantai Nanshan University (YNU) in Shandong Province, USU engaged in discussions with the university's leadership. YNU, established in 1988 by Nanshan Holdings, boasts 55 undergraduate programs, 69 departments, and a student body of 30,000, supported by 1,500 academic staff and state-of-the-art laboratory resources valued at approximately USD 289.9 million.

Key areas of cooperation discussed included joint master's programs, faculty exchanges, and collaborative research efforts focusing on advanced technologies such as aluminum processing. Additionally, the delegation toured Shandong Nanshan Aluminium Co., Ltd., a leader in aluminum processing, which is set to develop a bauxite smelter in Bintan with an investment of USD 5 billion. This visit aimed to enhance USU's research capabilities and strengthen its academic environment to align with industry needs, preparing graduates for employment in sectors that demand skilled professionals, particularly in foreign-investment-driven industries. The USU delegation also met with leaders at Yantai University (YU), which collaborates with Peking University and Tsinghua University. YU expressed interest in forming its first partnership with an Indonesian university, proposing initiatives such as international staff mobility, joint degree programs, doctoral education for YU faculty at USU. These collaborations, supported by HK Haibin Education Group Limited, are expected to facilitate technology and knowledge transfer between China and Indonesia.

<https://www.usu.ac.id/id/berita/rektor-usu-hadiri-undangan-dari-universitas-di-china>

Collaborative Research Initiative: USAID Indonesia and USU's Anti-Corruption Study Center on Gen Z Voter Perceptions and Political Integrity in the 2024 Election



The Faculty of Law at Universitas Sumatera Utara (USU), through its Anti-Corruption Study Center (PKAK FH USU), collaborated with USAID Indonesia in preparation for research titled “The Perception of First-Time Generation Z Voters in North Sumatra on Voting Rights and Political Money in the 2024 Political Year.” The meeting was attended by Jeremy Meadows, Director of USAID Indonesia, and Justin Snyder, Chief of Party for USAID's Integritas Program, alongside PKAK FH USU representatives including Dr. Mahmud Siregar, SH, M.Hum, and Dr. Mohammad Ekaputra, SH, M.Hum, among others. This research involves cross-disciplinary collaboration, integrating insights from political science experts such as Dr. Harmona Daulay, S.Sos., M.Si.

PKAK FH USU, established in August 2022, builds upon its predecessor founded in 2018, and serves as a strategic partner to Indonesia’s Corruption Eradication Commission (KPK). Its mission is to foster anti-corruption efforts, policy formulation, and research into corruption, money laundering, and related issues, contributing significantly to governance reform and transparency.

This initiative aligns with SDG 16 (Peace, Justice, and Strong Institutions) by promoting accountable institutions, advancing anti-corruption measures, and fostering informed civic engagement among young voters. It embodies the principles of SDG 17 (Partnerships for the Goals) through international cooperation aimed at strengthening democratic practices and combating corruption.

Link:

<https://fh.usu.ac.id/id/berita/kolaborasi-riset-kerja-sama-usaid-indonesia-dan-pusat-kajian-anti-korupsi-fakultas-hukum-usu>

Collaborative Research Initiative on Community-Based Tourism Law Between USU and UiTM Malaysia



Universitas Sumatera Utara (USU) and Universiti Teknologi MARA (UiTM) Malaysia have launched a significant international research collaboration focused on community-based tourism law. This initiative, spearheaded by USU's Doctoral Program in Law and led by Prof. Dr. Ningrum Natasya Sirait, SH, M.Li, aims to develop a new legal framework for halal tourism, with research activities conducted in the Samosir region near Lake Toba. The collaboration, formalized through a Memorandum of Agreement (MoA) and an Implementation Arrangement (IA), involves joint field studies, focus group discussions, and strategic networking with stakeholders, including local governments and academic experts from both universities.

This partnership aligns with SDG 8 (Decent Work and Economic Growth) by promoting sustainable tourism as a means of fostering economic opportunities and community growth. It also supports SDG 11 (Sustainable Cities and Communities) through the focus on developing heritage and community-centered tourism models that protect cultural and natural assets. Moreover, the collaboration embodies SDG 17 (Partnerships for the Goals) by facilitating cross-border research and joint academic initiatives that strengthen international cooperation and knowledge exchange.

Link:

Strategic Research Collaboration Between USU and Wageningen University of Research for Sustainable Agricultural Development



Universitas Sumatera Utara (USU) has formalized a research collaboration with Wageningen University of Research (WUR) in the Netherlands, marked by a visit from USU's Vice Rector III, Prof. Dr. Poppy Anjelisa Zaitun Hasibuan, and the Dean of the Faculty of Agriculture, Dr. Ir. Tavi Supriana, MS, from March 7-10, 2023. This partnership aims to advance multidisciplinary research in agriculture, covering topics such as agribusiness, agronomy, plant breeding, soil science, food and agricultural technology, animal science, and water resource management.

USU also participated in the Wageningen-Indonesia Scientific Exposure (WISE) event themed "Towards High Quality Indonesian Agricultural and Life Sciences Research Through Multidisciplinary Collaborations," which facilitated the formation of a research consortium involving other Indonesian universities. The initiative, supported by the Indonesian Education and Cultural Attaché in the Netherlands, Dr. Agus Setiabudi, underscores a shared commitment to sustainable research practices.

The collaboration supports SDG 2 (Zero Hunger) by enhancing agricultural research to boost food security and sustainable farming practices. It aligns with SDG 12 (Responsible Consumption and Production) by promoting eco-friendly agricultural technologies and resource management. Additionally, the research fosters SDG 17 (Partnerships for the Goals) through the establishment of international collaborations that encourage knowledge sharing and innovation for mutual academic and practical benefits.

Link:

<https://www.usu.ac.id/en/news/usu-collaborates-with-wageningen-university-of-research>

ADVANCE-ID LAUNCH SYMPOSIUM: Experts Meet to Discuss Latest Research and Strategies to Fight Antimicrobial Resistance in Asia



The ADVANCE-ID (ADVANCing Clinical Evidence in Infectious Diseases Network) Launch Symposium was held on February 27-28, 2023, at NUSS Kent Ridge Guild House, Singapore, to address the critical issue of antimicrobial resistance (AMR) and infectious diseases. AMR is projected to become a significant global health challenge by 2050, often termed the "silent pandemic." The symposium gathered health experts, including Vice Dean III of the Faculty of

Medicine at Universitas Sumatera Utara (USU), Dr. Inke Nadia Diniyanti Lubis, M.Ked(Ped), Sp.A, Ph.D., who discussed the impact of infectious diseases such as HIV, tuberculosis, and malaria on Low-Middle Income Countries (LMICs) in Asia. The meeting highlighted the vulnerabilities faced by these countries due to inadequate health systems, poverty, and poor sanitation.

Renowned speakers from various countries shared insights into local and global infectious disease priorities. The symposium aimed to facilitate knowledge exchange and showcase successful programs, such as Indonesia's initiatives to eliminate neglected tropical diseases (NTDs) and enhance national surveillance systems for vaccine-preventable diseases. The event concluded with site visits to health facilities in Singapore, including NUH and NCID, to demonstrate best practices in infectious disease management and prevention.

This collaborative meeting aligns with **SDG 3 (Good Health and Well-being)** by addressing health challenges and strengthening health systems through international cooperation. It also supports **SDG 17 (Partnerships for the Goals)** by fostering global partnerships that enhance research, share expertise, and promote sustainable health solutions.

Link:

<https://fk.usu.ac.id/en/news/advance-id-launch-symposium-experts-meet-to-discuss-latest-research-and-strategies-to-fight-antimicrobial-resistance-in-asia>