

International Symposium

on the UN's Sustainable Development Goals

Date: September 10, 2026 (Thu.) 13:00 – 16:20

Venue: C201 School of Applied Biological Science, Hiroshima University
(C203 Poster Presentation 14:30 - 15:20)

The UN's Sustainable Development Goals (SDGs) consist of 17 interdependent goals that are expected to be achieved by 2030. We at the Graduate School of Integrated Sciences for Life and School of Applied Biological Science have conducted comprehensive research and education which are directly involved in at least half of the goals (No Poverty, Zero Hunger, Good Health and Well-being, Clean Water, Responsible Consumption and Production, Climate Action, Life Below Water, Life on Land). In this symposium, through a total of 6 sessions covering the environment ~ biological diversity ~ bio-resource production ~ food sciences, researchers from our partner universities will deliver their research outcomes or country reports. At the end, we are going to discuss how we could elaborate comprehensive solutions or breakthroughs to help achieve the UN's SDGs, to pursue a sustainable and peaceful world through our research.

Program

- 13:00 Opening Message by the Dean**
- 13:10 Session1 : Mr. Lhumen A. Tejano**
(University of the Philippines Visayas)
- 13:30 Session2 : Dr. Angelo C. Macario**
(Zamboanga State College of
Marine Sciences and Technology)
- 13:50 Session3 : Dr. Nur Athiqah Binti Md Yusof**
(Universiti Sultan Zainal Abidin)
- 14:10 Session4 : Dr. Manuel D. Gacutan Jr**
(Visayas State University)
- 14:30 Poster presentations by Invited Students and
Hiroshima University Students**
- 15:20 Session5 : Dr. Fikri Ardhani**
(Mulawarman University)
- 15:40 Session6 : Dr. TOMINAGA Jun**
(Hiroshima University)
- 16:00 Concluding Remarks**

◆ This symposium is counted for students as a Science Seminar [Kyodo Seminar].

Hosted by the School of Applied Biological Science ,
the Graduate School of Integrated Sciences for Life , Hiroshima University
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HIROSHIMA UNIVERSITY

Program

Opening Message by the Dean
13:00

Session 1
13:10 – 13:30

“Seafood-on-the-Spot (SOS): Revolutionizing Emergency Seafood Products in the Philippines”

Mr. Lhumen A. Tejano (University of the Philippines Visayas/ Philippines)

Chair Dr. CAIGOY Jant Cres Cainglet (Hiroshima University)



Session 2
13:30 – 13:50

“Advancing Sustainable Capture Fisheries: Integrating Science, Innovation, and Governance from the Philippines and Japan”

Dr. Angelo C. Macario (Zamboanga State College of Marine Sciences and Technology/ Philippines)

Chair Dr. TOMIYAMA Takeshi (Hiroshima University)



Session 3
13:50 – 14:10

“Nature’s Water Detectives: How Aquatic Insects Reveal River Health”

Dr. Nur Athiqah Binti Md Yusof (Universiti Sultan Zainal Abidin/ Malaysia)

Chair Dr. WAKABAYASHI Kaori (Hiroshima University)



Session 4
14:10 – 14:30

“AI-Powered Detection of Feed Adulteration for Sustainable Livestock Production”

Dr. Manuel D. Gacutan Jr (Visayas State University / Philippines)

Chair Dr. INABU Yudai (Hiroshima University)



14:30 – 15:20 Poster presentations by Invited Students and HU Students

Session 5
15:20 – 15:40

“Reproductive Biotechnology in Nunukan Chicken: Artificial Insemination as a Tool for Genetic Conservation and Sustainable Dissemination to Farmers”

Dr. Fikri Ardhani (Mulawarman University / Indonesia)

Chair Dr. NISHIBORI Masahide (Hiroshima University)



Session 6
15:40 – 16:00

“Plant Wearables for Continuous Monitoring of Leaf Gas Exchange”

Dr. TOMINAGA Jun (Hiroshima University)

Chair Dr. SUZUKI Takuya (Hiroshima University)



Concluding Remarks
16:00 -16:20

Poster Presentations by HU Students

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	" Title "	Presenters Name	
1	"Formation mechanism of lipid whisker crystals for development of oleogels with controllable physical properties"	Fumiya Nakano	
2	"Hepatic gender difference in choline and one carbon metabolism during fasting"	Edeh Abigael Taiwo	
3	"The Effect of Hydrophobic Additives on the Physical Properties of O/W Nano-Colloidal Dispersion"	Nuha Mufida	
4	"Comparison of the Behavior of Cocoa Butter Substitute (CBS) Based on Differences in Composition"	Maho Sato	
5	"Direct Observation of the Crystallization Process of Cocoa Butter Using a Transmission Electron Microscope (TEM)"	Rito Nakamura	
6	"Population Genetic Study of Borneo Native Chickens"	Putri Sausan Azzahra Alindra	 
7	"Effect of Hydrogenated Starch Hydrolysates on the Appearance, Water Content, and Mechanical Property Changes of Frozen Wheat Flour Dough"	Yuri Nishikawa	 
8	"Guar Gum Fiber Enhances Intestinal Reg3 Expression via TLR2–IL-22–STAT3 Signaling in Mice"	Cláudia Domingos Mapure Siueia	
9	"Age-Related Changes in Intestinal Mucosal Barrier Function in Laying Hens During the Mid to Late Production Stages"	Ai Kuroda	   
10	"Effects of Intramammary Osmotic Pressure on Milk and Antimicrobial Substance Production"	Donghyeon Kang	   

Poster Presentations by Participating Summer School Students

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	" Title "	Presenters Name (University Name)	
1	"Isolation and Preliminary Characterization of Biosurfactant-Producing Bacteria from Fermented Sardines, <i>Sardinella</i> spp."	Sofi Andrea Iaiel O. Sambalod (University of the Philippines Visayas)	  
2	"Detection of Extended-Spectrum β -Lactamase and Integron Genes in Antimicrobial Resistant Gram-Negative Bacteria Isolated from Tilapia"	Elijah G. Valencia (University of the Philippines Visayas)	    
3	"In Vitro Antibacterial Activity of Methanolic Extracts from <i>Phyllanthus urinaria</i> and <i>Combretum quadrangulare</i> Against Multidrug-Resistant Bacterial Pathogens Associated with Striped Catfish (<i>Pangasianodon hypophthalmus</i>)"	Yra Jem G. Manguramas (Zamboanga State College of Marine Sciences and Technology)	   
4	"Evaluation of <i>Trichanthera gigantea</i> Leaf Meal as an Alternative Protein Source for African Catfish (<i>Clarias gariepinus</i>) Fry"	Sherrah Mae A. Pinote (Zamboanga State College of Marine Sciences and Technology)	  
5	"Hematology and Blood Biochemistry Profile of River Terrapin (<i>Batagur affinis</i>) and Painted Terrapin (<i>Batagur borneoensis</i>) in Kuala Berang Wildlife Conservation Centre, Terengganu Malaysia"	Aliya Dallina Binti Zaini (Universiti Sultan Zainal Abidin)	  
6	"The Effect of Salinity and pH on the Growth of Sea Grape"	Muhamad Zulfadli Bin Muhamad Sidid (Universiti Sultan Zainal Abidin)	  
7	"Vulnerability of Energy Feedstuff to Red Flour Beetle (<i>Tribolium castaneum</i> Herbst, 1797) Infestation: The Role of Feed Source and Physical Form"	Shea S. Jong (Visayas State University)	 
8	"Use of Insects and Its Derivatives as Animal Feeds"	Aaron Clarence A. Camacho (Visayas State University)	   
9	"Egg Weight and Shape Index as Predictors of Offspring Sex Ratio in Nunukan Chicken (<i>Gallus gallus domesticus</i>)"	Tsabita Fakhira, Jasmine Azzahara (Mulawarman University)	 