

# International Symposium

## on the UN's Sustainable Development Goals

**Date: September 11, 2025 (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 of 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 researches.

### Program

- 13:00 Opening Message by the Dean**
- 13:10 Session1 : Dr. Jason Dumaguing Braga**  
(Cavite State University)
- 13:30 Session2 : Dr. Sharon Nuñal**  
(University of The Philippines Visayas)
- 13:50 Session3 : Dr. Jeongwhui Hong**  
(Chonnam National University)
- 14:10 Session4 : Dr. Dao Thanh Huyen**  
(Thai Nguyen University of  
Agriculture and Forestry)
- 14:30 Poster presentations by Invited Students and  
Hiroshima University Students**
- 15:20 Session5 : Dr. Jade Dhapnee Z. Compendio**  
(Visayas State University)
- 15:40 Session6 : Dr. KATO Aki**  
(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 **“Sustainable Strategy for Epilepsy Alleviation:  
A Synergistic Approach Using Prebiotics and GABA-Transaminase Inhibitor”**

Dr. Jason Dumaguing Braga (Cavite State University/ Philippines)

Chair Dr. KUMRUNGSEE Thanutchaporn (Hiroshima University)



**Session 2**  
13:30 – 13:50 **“Sea the change: Post-harvest solutions for sustainable fisheries”**

Dr. Sharon Nuñal (University of the Philippines Visayas/ Philippines)

Chair Dr. SHIMAMOTO Tadashi (Hiroshima University)



**Session 3**  
13:50 – 14:10 **“Strategies for Advancing Sustainable Aquafeed Development in Aquaculture”**

Dr. Jeongwhui Hong (Chonnam National University/ Republic of Korea)

Chair Dr. WAKABAYASHI Kaori (Hiroshima University)



**Session 4**  
14:10 – 14:30 **“OCOP (One commune one product) and Sustainable Development:  
A Vietnamese Model for Local Innovation and Global Responsibility”**

Dr. Dao Thanh Huyen (Thai Nguyen University of Agriculture and Forestry/ Vietnam)

Chair Dr. TRAN Anh Duc (Hiroshima University)



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

**Session 5**  
15:20 – 15:40 **“Quality Evaluation of Cryopreserved Spermatozoa of Morphologically  
Profiled Sinirangan Native Boars (*Sus scrofa* L. 1758)”**

Dr. Jade Dhapnee Z. Compendio (Visayas State University / Philippines)

Chair Dr. NISHIBORI Masahide (Hiroshima University)



**Session 6**  
15:40 – 16:00 **“Exploring the Diversity of Coralline Algae: Ecosystem Engineers of the Ocean”**

Dr. KATO Aki (Hiroshima University)

Chair Dr. SUZUKI Takuya (Hiroshima University)



















**Concluding Remarks**  
16:00 - 16:20

## Poster Presentations

by Participating Summer School Students

**September 11, 2025 (Thur.) 14:30-15:20**













**Venue : C203**

	" Title " Presenters Name ( University Name )	
1	"Evaluation of Egg Yolk from Various Poultry Species as Semen Extenders for Large White Boars" <b>Khristel Nicole L. Bañes (Visayas State University)</b>	
2	"Watermelon ( <i>Citrullus lanatus</i> ) fruit juice as semen extender alternative in domestic boar ( <i>Sus scrofa domestica</i> )" <b>Mark Laurence L. Fornis (Visayas State University)</b>	     
3	"Optimizing the process of extracting saponin from wild bitter melon ( <i>M charantia</i> L. var. <i>abbreviata</i> Seringe)" <b>Nguyen Cong Duong (Thai Nguyen University of Agriculture and Forestry)</b>	
4	"In vitro and in silico bioactivity evaluations of enzymatic protein hydrolysates from green ( <i>Perna viridis</i> ), brown ( <i>Modiolus modioloides</i> ), and black ( <i>Mytella strigata</i> ) mussels" <b>Gardel Xyza Silverderio (University of the Philippines Visayas)</b>	  
5	"Antioxidant and Structural Characterization of Carrageenan-based Biocomposite Film Enriched with Tuna Viscera Protein Isolate" <b>Raymund Parcon (University of the Philippines Visayas)</b>	
6	"Aquaponics: Integrating Aquaculture and Agriculture for SDGs" <b>Kipyung Ko (Chonnam National University)</b>	 
7	"Development of Climate-resilient Aquaculture for <i>Parapristipoma trilineatum</i> : Integrated Evaluation of Rearing Environment, Nutrient Utilization, and Metabolic Adaptation" <b>Ganghui Joo (Chonnam National University)</b>	 

# Poster Presentations by HU Students

## September 11, 2025 (Thur.) 14:30-15:20

### Venue : C203

	" Title "	Presenters Name	
1	"Production of plant-based foods by thermal compression based on glass transition: powder integration via mechanical fusion"	<b>Takumi Mochizuki</b>	   
2	"Enteral regulation of breast milk IgA correlates with resistance to neonatal sepsis"	<b>Rina Kanazawa</b>	
3	"Effect of frying conditions on the glass transition of the fried coating of deep-fried food"	<b>Takuya Mori</b>	   
4	"The colonic <i>Cyp2c55</i> expression is transcriptionally regulated by intestinal microbiota and inflammation"	<b>Adrian Hilman</b>	
5	"Taxonomic and molecular phylogenetic studies of rhodolith-forming non-geniculate coralline algae ( <i>Corallinophycidae</i> , <i>Rhodophyta</i> ) in Japan"	<b>Min Khant Kyaw</b>	
6	"The temperature-induced effects on ecdysis frequency, feeding habits, and growth response of Gazami ( <i>Portunus trituberculatus</i> ) crablets"	<b>Angelo Constancia Macario</b>	
7	"Functional Characterization of <i>CsCPC</i> Genes in <i>Arabidopsis thaliana</i> "	<b>Juri Wakamatsu</b>	