

# International Symposium

on the UN's Sustainable Development Goals

**Date: September 12, 2024 (Thur.) Japan Time 9:30 – 14:00**

**Venue: C201 School of Applied Biological Science, Hiroshima University  
(C203 Poster Presentation 11:00 - 12:00)**

## (Online participation)



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

- 9:30 Opening Message by the Dean**
- 9:40 Session1 : Dr. Breno Eduardo Da Silva Barros  
(Federal Rural University of Amazonia)**
- 10:00 Session2 : Dr. Wahyudin  
(University Maritim Raja Aki Haji)**
- 10:20 Session3 : Dr. Ana Marquiza M. Quilicot  
(Visayas State University)**
- 10:40 Session4 : Dr. Cyrill John P. Godinez  
(Visayas State University)**
- 11:00 Poster presentations by Invited Students and  
Hiroshima University Students**
- 13:00 Session5 : Dr. Yunika Mayangsari  
(Gadjah Mada University)**
- 13:20 Session6 : Dr. CAIGOY Jant Cres Cainglet  
(Hiroshima University)**
- 13:40 General Discussion**

◆ 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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# Program

## Opening Message by the Dean 9:30

### Session 1 9:40 – 10:00

(Brazil time  
Sep.11 21:40-22:00)

#### "Playing seek and hide in nature: Enhancing survival skills through leaf mimetic behavior in vertebrates"

Dr. Breno Eduardo Da Silva Barros (Federal Rural University of Amazonia / Brazil )  
Chair Dr. SAKAI Yoichi ( Hiroshima University / Japan )



### Session 2 10:00 – 10:20

#### "Marine Protected Areas in Bintan Island, Indonesia: A Cost-Benefit Analysis of Coral Reef Conservation and Fisheries Enhancement"

Dr. Wahyudin ( University Maritim Raja Aki Haji / Indonesia )  
Chair Dr. YAMAMOTO Tamiji ( Hiroshima University )



### Session 3 10:20 – 10:40

#### "VSU-CVM's Impact on the UN Sustainable Development Goals Through Animal Health Research and Extension Activities"

Dr. Ana Marquiza M. Quilicot ( Visayas State University / Philippines )  
Chair Dr. NAKAMURA Yoshiaki ( Hiroshima University )



### Session 4 10:40 - 11:00

#### "Molecular Genetic Characterization of Farm Animal Genetic Resources (FAnGR) in the Philippines: FAO Strategic Priority for Global Action Plan for FAnGR"

Dr. Cyrill John P. Godinez ( Visayas State University / Philippines )  
Chair Dr. NISHIBORI Masahide ( Hiroshima University )



### 11:00 – 12:00 Poster presentations by Invited Students and HU Students Onsite Only

### 12:00 – 13:00 < < < Lunch Break > >

### Session 5 13:00 – 13:20

( Indonesia time  
11:00-11:20 )

#### "Indonesian Functional Food and Functional Ingredients for Gut Health"

Dr. Yunika Mayangsari ( Gadjah Mada University / Indonesia )  
Chair Dr. SUZUKI Takuya ( Hiroshima University )



### Session 6 13:20 – 13:40

#### "Breaking the Barrier : Targeting Biofilms for Food Safety and Hygiene "

Dr. CAIGOY Jant Cres Cainglet ( Hiroshima University )  
Chair Dr. SUZUKI Takuya ( Hiroshima University )








### General Discussion 13:40 -14:00

## Poster Presentations



















### by Participating Summer School Students

**12 September, 2024 (Thur.) 11:00-12:00**

	<b>" Title "</b> <b>Presenters Name ( University Name )</b>
1	<p>"Spatial Distribution of Macroplastics on the Coastal Areas of Tanjungpinang City, Indonesia"</p> <p><b>Sintana Tri Yuniar (Universitas Maritim Raja Ali Haji)</b></p> 
2	<p>"Marine Debris and Its Relation to Gastropods in the Waters of Tanjungpinang City, Indonesia"</p> <p><b>Deby Mauren Sipayung (Universitas Maritim Raja Ali Haji)</b></p> 
3	<p>"Phenotypic and molecular genetic characterization of local mallard ducks (Anas platyrhynchos, Linnaeus, 1758) in Southern Leyte based on mitochondrial DNA"</p> <p><b>Manuel Salvador J. Aras, Jr. and Carla Cabardo (Visayas State University)</b></p> 
4	<p>"Application of a Modified Animal-based Welfare Assessment Tool for Goat Farms in Leyte, Philippines"</p> <p><b>Thereza Marie L. Cahig (Visayas State University)</b></p>  

## Poster Presentations by HU Students

### 12 September, 2024 (Thur.) 11:00-12:00

	" Title "	Presenters Name
1	" Effects of cashew nutshell liquid on milk production and methane emission of dairy cows in a farm condition"	Gaspe, R - Jun Frederick Avelino 
2	"Gut-brain axis modulation of typical and non-typical prebiotics"	Braga Jason Dumaguing    
3	"Elucidating the Beneficial Health Effect of Anti-inflammatory Peptides Derived from Jack Bean (Canavalia ensiformis (L.) DC) Protein Hydrolysates"	WIJATNIKO Bambang Dwi      
4	"Study on the Endotoxin Tolerance (ET) in the Mammary Gland of Goats"	JAISUE Jirapat 
5	"Compression molding of food powder based on glass transition temperature for sustainable society"	MOCHIZUKI Takumi  
6	"Effect of Sucrose Esters on Crystallization Behavior of Cocoa Butter in Oil-in-Water Nanoemulsion"	Mufida Nuha 
7	"Effect of electric field application on CB crystallization"	NAKAO Yuka 
8	"Effects of the shrinkage control on steamed cakes made from rice flour"	OMURA Rinka 
9	"Effect of hydrostatic pressure on crystal polymorphism of cocoa butter"	TAMURA Keigo 
10	"Controlling crystallization behavior of cocoa butter by using high intensity ultrasound and stirring simultaneous stimulation"	Zining Wang 