

## Asia Week 2024 Report\_Nature cluster (Morning Session)

企画名 Title	Sustainable Agriculture and Environmental Stewardship in Asia and Oceania
開催日時 Date & Time	November 07, 2024
参加人数 Number of Participants	<p>現地/In-person : 59 (40 students, 18 staff)</p> <p>Participant Breakdown:</p> <ul style="list-style-type: none"> <li>• 42 Faculty of Agriculture</li> <li>• 3 Q-AOS (Kyushu University)</li> <li>• 1 Kyoso</li> <li>• 1 Graduate School of Social and Cultural Studies</li> <li>• 1 Faculty of Arts and Sciences</li> <li>• 3 Other Universities</li> <li>• 8 Unknown</li> </ul>
開催概要	
主な概要 Outline	<p><b>Date:</b> November 07, 2024</p> <p><b>Time:</b> 10:00 - 12:00</p> <p><b>Venue:</b> I<sup>2</sup>CNER Hall, Kyushu University</p> <p><b>MC:</b> Harsha Prakash, Specially Appointed Assistant Professor, Lab of Animal Life Science, Faculty of Agriculture and Q-AOS, Kyushu University</p> <p><b>Introduction:</b></p> <p>The <b>Nature Cluster Seminar on Sustainable Agriculture and Environmental Stewardship in Asia and Oceania</b> was held on November 07, 2024, at <b>I<sup>2</sup>CNER Hall</b>, as a part of Asia Week 2024. The seminar brought together researchers and students to explore key issues surrounding sustainable agriculture, climate change, and food security in the Asia-Pacific region. The event featured four presentations from Kyushu University and Palau Community College, each focusing on challenges faced by agricultural systems in Asia and Oceania, with a focus on Palau, Vietnam, and the broader impact of climate change on food production.</p> <p><b>Event Overview and Schedule:</b></p> <p>The seminar was structured around four presentations, each addressing specific challenges faced by agricultural systems in Asia and Oceania, with a focus on Palau, Vietnam, and the broader impact of climate change on</p>

food production.

**1. 10:00 - 10:30: Presentation 1 – *Agriculture in Palau***

Dr. Kitalong and Dr. Nwe discussed the challenges faced by Palau's agricultural sector, where over 85% of food is imported, creating a significant dependency on global markets. Their presentation highlighted the importance of integrating traditional farming techniques with modern methods to enhance food security and sustainability. They proposed strategies for improving agricultural output and resource management in Palau, stressing the need for local solutions tailored to the unique ecological context.

**2. 10:30 - 11:00 Presentation 2 – *What We Can Do for Sustainable Farming in Palau***

Dr. Abiko focused on Taro cultivation in Palau, a key staple crop. She outlined the potential for sustainable farming practices through family farming systems that use local resources and traditional methods. Drawing from her fieldwork in Palau, she discussed how international collaboration could strengthen local agricultural systems. Her presentation was particularly focused on the role of family-run farms in promoting sustainable farming. After the presentation, the discussion for the first two sessions took place, during which there was an active exchange of ideas. The audience was highly engaged, eager to ask numerous questions and provide valuable suggestions

**3. 11:00 - 11:30: Presentation 3 – *Impact of Global Warming on Poultry Farming***

Dr. Chowdhury's presentation addressed the increasing threat of heat stress in poultry farming due to global warming, particularly in tropical and subtropical regions. Drawing from his research, he demonstrated how high ambient temperatures negatively impact chickens' health and productivity. He introduced findings from his lab that identified specific amino acids in chickens'

blood that are affected by heat stress. Furthermore, he discussed potential solutions, including the use of agricultural waste like waste from watermelon, to improve thermotolerance and reduce heat stress in poultry farming. There was an active discussion after this presentation as well.

4. **11:30 - 12:00: Presentation 4 – *Meat Production in Vietnam***

Duong Thi Phuong Lan and Dong Thi Ngoc Mai provided an in-depth look at Vietnam's meat production industry, which is crucial to the country's agricultural economy. They discussed the challenges faced by the industry, including rising production costs, disease outbreaks like African Swine Fever, and the impact of natural disasters. The presenters proposed a series of strategies aimed at making the industry more sustainable, including improvements in animal health management and feed efficiency and using alternative sources as protein. The discussion session after the presentation was also very interesting. There was an active exchange of ideas, with the audience engaging in lively discussions and offering insightful suggestions.

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Pictures

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## Asia Week 2024 Report\_Nature Cluster (Afternoon Session)

企画名 Title	21 t h Asian Natural Products Conference
開催日時 Date & Time	2024/11/7
参加人数 Number of Participants	オンライン/online : 40 名
開催概要	
主な概要 Outline	<p>2024 年 11 月 7 日、第 21 回アジア天然物会議が開催されました。中国、エジプト、インド、日本、マレーシアの 5 カ国から 8 名の研究者が講演し、天然物の発見と利用について、発表し、討議しました。</p> <p>会議は、清水准教授の開会の挨拶で始まり、さまざまな天然資源から得られる天然物の潜在的な役割と、人類、社会、環境に対するその役割について話されました。</p> <p>第一セッションでは、皮膚保護剤としての生理活性化合物の役割から始まり、天然物の研究と応用の広い分野をカバーしました。また、乳がんに対するいくつかの薬用植物からの天然物の生物学的活性の発表もありました。さらに、不整脈の一型であり、突然死の原因と成り得るトルサード・ド・ポワント (Torsades de Pointes) のリスク分類のための複合インシリコバイオマーカーの予測有効性についても言及されました。</p>

第2セッションでは、抗マイコバクテリア剤探索の有望なソースとしての海洋由来の微生物の役割と、バイオマスからのナノファイバーの合成について発表がありました。

閉会の挨拶では、様々な側面における天然物の価値と可能性を明らかにし、SDGs 目標に基づく天然物の開発と、研究における新たな展望の可能性で締めくくられました。

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