

SEMINAR

PRECISION AGRICULTURE AND GENE EDITING TECHNOLOGY FOR SUSTAINABLE FOOD PRODUCTION: SCIENCE AND COMMUNICATION

September 18, 2024, 09:00 - 15:45 hr SGT

Dewan Tan Sri Yusof Hashim, MARDI Headquarters
Persiaran MARDI-UPM, 43400 Serdang, Selangor, Malaysia

Technological change is occurring at an unprecedented rate in the global agri-food value chain. New biotechnologies are a major part of this transformational change, including precision agriculture technology and new plant breeding techniques such as gene editing for targeted modification of plant genomes. In combination with innovative practices for monitoring and managing food and agricultural systems, they are opening up new pathways to delivering sustainable food production systems of the future.



It is, thus, important that key stakeholders along the value chain and regulatory authorities share the latest scientific knowledge on the technology and their safety assessment, updates on status and advancement as well as regulatory approach towards potential adoption of these technologies. There is also increasing recognition of needs to engage and educate the broader community and consumers through innovative communication tools to impart knowledge and mitigate any misperception of these technologies.



The one-day Seminar on **Precision Agriculture and Gene Editing Technology for Sustainable Food Production – Science and Communication**, to be held on **September 18, 2024** in **Malaysia** aims to bring together key stakeholders to share scientific updates and facilitate stakeholders' engagement, addressing issues and perspectives on new biotechnologies, safety assessment, regulatory development and communication strategies.

REGISTER HERE:



[bit.ly/2024Precision
Agri_Malaysia](https://bit.ly/2024PrecisionAgri_Malaysia)

FOR INQUIRIES, CONTACT:

Malaysian Agricultural Research and
Development Institute (MARDI)

Dr. Rogayah Sekeli and/or Dr. Zulkifli Ahmad Seman

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For more information, visit:

ilsisea-region.org/event/precision-agriculture-gene-editing-2024

ORGANIZERS



COLLABORATORS





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TENTATIVE PROGRAM

- 08:15 - 09:00** **Registration**
Opening Remarks/ Introduction
- 09:00 - 09:30** **Mr. Timothy Harrison**, Agricultural Counsellor, United States Department of Agriculture Foreign Agricultural Service (USDA FAS), Malaysia
Mr Geoffry Smith, President, ILSI SEA Region, Singapore
Dato' Dr. Mohamad Zabawi bin Abdul Ghani, Director General, Malaysian Agricultural Research and Development Institute (MARDI), Malaysia

Session 1: Gene Editing – Benefits, Risk Assessment and Regulation

- 09:30 - 10:10** **Precision Agriculture and Gene Editing – Update on Risk Assessment and Global Regulatory Review for Policy Consideration**
Prof Wayne Allen Parrott, Professor, University of Georgia, USA
- 10:10 – 10:35** **Science, Research, and Development of Gene Editing Technology for Food Crops at MARDI**
Mr Amin Asyraf Tamizi, Research Officer, Agri-Omics and Bioinformatics Programme, Biotechnology and Nanotechnology Research Centre, MARDI, Malaysia
- 10:35 – 10:50** **Morning Break**
- 10:50 – 11:15** **Status and Process for Biosafety Regulation on Gene Editing in Malaysia**
Dr. Kumitaa Theva Das, Senior Lecturer, Institute for Research in Molecular Medicine, Universiti Sains Malaysia, Penang, Malaysia
- 11:15 – 11:40** **Implementation of a Regulatory Framework for Genome-edited Crops in Singapore**
Dr Tan Yong Quan, Covering Specialist Team Lead, Bioengineering, National Centre for Food Science, Singapore Food Agency, Singapore
- 11:40– 12:05** **Gene Editing and Biosafety Regulations in the Philippines**
Dr Gabriel Romero, Executive Director, Philippines Seed Industry Association (PSIA), Philippines

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- 12:05 - 12:30 Group Q&A and Discussion
12:30 - 14:00 Lunch Break and Networking

Session 2: Gene Editing - Risk Perception and Communication

- 14:00 -14:25 **Effective Strategies for Communications with Policy Makers, Health Professionals and the Public**
Dr Mahaletchumy Arujanan, Executive Director, Malaysian Biotechnology Information Center (MABIC), Malaysia
- 14:25 – 14:50 **The Importance of Consumer Perception and Understanding in Risk Communication**
Prof. Dr. Rofina Yasmin Othman, Honorary Professor, Institute for Advanced Studies, Universiti Malaya, Malaysia
- 14:50 – 15:15 **Education and Communication Strategies to Enhance Public Awareness and Acceptance in Gene Editing Technologies – Singapore Experience**
Ms Mazlina Banu Jaikubali & Ms Li Xin Kang, Genetic Modification Advisory Committee (GMAC) Secretariat, Singapore
- 15:15 – 15:45 Q&A and Panel Discussion
- 15:45 Closing Remarks / Afternoon Refreshment and Networking

Note: Topic and title of presentations are subject to change upon final confirmation with invited speakers.

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