

SEMINAR

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

September 19, 2024, 09:30 - 16:45 hr SGT

Theatrette 2, Level 2M, Matrix, 30 Biopolis Street, Singapore 138671

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 19, 2024** in **Singapore** 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/2024PrecisionAgri_Singapore

FOR INQUIRIES, CONTACT:

ILSI Southeast Asia
Region

Singapore

Tel: 65 6352 5220

Email: event@ilsisea.org.sg

For more information, visit:

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

ORGANIZERS



COLLABORATORS





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TENTATIVE PROGRAM

08:45 - 09:30 Registration

09:30 - 09:50 Opening Remarks/ Introduction

Mr. Timothy Harrison, Agricultural Counsellor, United States Department of Agriculture Foreign Agricultural Service (USDA FAS), Malaysia

Mr Geoffry Smith, President, ILSI SEA Region, Singapore

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

09:50 - 10:20 Precision Technology for Food and Agriculture Production – Enhancing Food & Nutrition Security in Singapore and ASEAN

Prof Paul Teng, Dean and Managing Director, National Institute of Education International (NIEI), Nanyang Technology University, Singapore

10:20 – 11:00 Gene Editing– Update on Risk Assessment and Global Regulatory Review for Policy Consideration

Prof Wayne Allen Parrott, Professor, University of Georgia, USA

11:00 – 11:20 Morning Break

11:20 – 11:50 Science, Research and Development of Gene Editing Technology in Singapore

Assoc Prof Tan Meng How, Associate Professor, Nanyang Technological University (NTU) & Genetic Modification Advisory Committee (GMAC), Singapore

11:50 – 12:20 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

12:20– 12:50 Gene Editing and Biosafety Regulations in the Philippines

Dr Gabriel Romero, Executive Director, Philippines Seed Industry Association (PSIA), Philippines

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- 12:50 - 13:30 Group Q&A and Discussion
- 13:30 - 14:30 Lunch Break and Networking

Session 2: Gene Editing - Risk Perception and Communication

- 14:30 -15:00 **Overview on Risk Perception and Risk Communication on Gene Editing Technology for Food and Food Crops**
Dr. Andrew D Powell, Chief Executive Officer, Asia BioBusiness (Singapore) Pte. Ltd., Singapore
- 15:00 – 15:30 **The Importance of Consumer Perception and Understanding in Risk Communication- SE Asia Case Study**
Prof. Dr. Rofina Yasmin Othman, Honorary Professor, Institute for Advanced Studies, Universiti Malaya, Malaysia
- 15:30 – 16:00 **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
- 16:00 – 16:45 Q&A and Panel Discussion
- 16:45 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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