

Workshop

Accelerated Crop Breeding for Climate Resilience in Rice: Challenges and Opportunities

Venue:

IPB International Convention Center (IICC)
Botani Square Building Jl. Raya Pajajaran, Bogor City, West Java, Indonesia

13 -17 April 2026

Organized by

University of Saskatchewan (USASK) Canada
in collaboration with
IPB University, Indonesia



Target Stakeholders:

ASEAN Breeding Organizations, Rice Genebanks, ASEAN Agricultural Ministries, and Policy Consultants

Workshop Objectives:

1. Enhance knowledge of accelerated breeding technologies: Discuss cutting-edge methods such as genomic selection, genome editing, climate-controlled rapid generation cycle, and DH technology for rice.
2. Address institutional, regulatory and policy barriers: Identify and address hurdles that slow down the adoption of accelerated breeding techniques in ASEAN countries.
3. Establish the role of genebanks and the conservation and availability of plant genetic resources to support accelerated breeding technologies.

Expected Outcomes:

1. Capacity building: Participants will gain actionable insights into the status of rice germplasm conservation and availability and the latest accelerated breeding technologies and their practical applications in breeding programs for rice and other crops.
2. A set of policy recommendations for ASEAN countries: These will address institutional and regulatory bottlenecks that hinder the adoption of advanced breeding technologies and the conservation and availability of rice genetic resources.
3. Strengthened partnerships: New collaborations (with at least five organizations) between ASEAN countries and Canada, as well as international organizations (IRRI, Crop Trust) and public–private partnerships within the region.
4. Action plan: A regional action plan for the integration of genebanks and accelerated breeding technologies in breeding programs with timelines and responsible actors.

Program:

Date and Time	Activities	Comments
Day 1 (April 13): Accelerated Breeding - Workshop Inception and Session		
8:00AM – 10:00AM	Registration and Networking, Tea & Coffee	
10.00 - 10.05 AM	Opening Indonesian National Anthem	
10:05AM – 10:45AM	Welcoming and Opening Remarks <ul style="list-style-type: none"> • Dr. Alim Setiawan Slamet, Rector. IPB University (Welcoming remarks from Indonesia side) • Dr. Baljit Singh, VP Research, University of Saskatchewan (Welcoming remarks from Canada side) • Ms. Alice Birnbaum, Head of Cooperation and Counsellor, The Embassy of Canada to Indonesia (Opening remarks and officially open the workshop) 	
10:45AM – 11:30AM	"The Future of Accelerated Rice Breeding in ASEAN Countries: Challenges and Opportunities" Keynote Speaker: Dr. Michael Quinn, Research Director – Rice Breeding Innovations at the International Rice Research Institute (IRRI). Moderator: Dr. Bunyamin Tar'an, Usask	
11:30AM – 12:15PM	Title TBA Key speaker Dr. Julianne Biddle Partnerships Lead , Global Crop Diversity Trust Germany Moderator: Dr. Nicholas Tyack, Usask	
12:15PM -1:30PM	Lunch Break	
1:30 PM – 2:05PM	Genomic Selection for Accelerated Breeding	

	<p>Dr. Bill Biligetu, Assoc. Professor Ministry of Agriculture Strategic Research Program (SRP) Chair in Forage Crop Breeding Department of Plant Sciences, Usask Moderator: Dr. Bunyamin Tar'an, Usask</p>	
2:05PM – 2:40PM	<p>Gene Editing and UAV-based phenotyping for Accelerated Breeding Dr. Aaron Beattie, Assoc. Professor, Ministry of Agriculture Strategic Research Program (SRP) Chair in Barley and Oat Breeding and Genetics Department of Plant Sciences, Usask Moderator: Dr. Bunyamin Tar'an, Usask</p>	
2:40 PM – 3:15PM	<p>Rapid Generation Cycle for Accelerated Breeding Dr. Bunyamin Tar'an, Professor Ministry of Agriculture Strategic Research Program (SRP) Chair in Chickpea and Flax Breeding and Genetics Department of Plant Sciences, USask.</p>	
3:15 PM – 3:45 PM	Coffee Break and Networking	
3:45 PM – 4:20 PM	<p>Panel Discussion 1 Panelis : Dr. Julianne Biddle and Dr. Bill Biligetu, Session Moderator : Dr Trikoesoemaningtyas, IPB University</p>	
4:20 PM – 5:00 PM	<p>Panel Discussion 2 Panelis : Dr. Aaron Beattie and Dr Bunyamin Tar'an Session Moderator : Dr Hasan Pervej Ahmed, U. Sask</p>	
6.30 PM -8.30 PM	Welcome Dinner hosted by the Dean, Faculty of Agriculture, IPB	Place: IICC-IPB
Day 2 (April 14): Opportunity and Challenges of Accelerated Breeding in ASEAN		

8.30AM – 10.00AM	<p>8:30-9:15 Opportunities and challenges of accelerated breeding in ASEAN: Case of Indonesia.</p> <p>Speakers: Dr. Yudhistira Nugraha and Prof. Dr. Bambang S. Purwoko</p> <p>9:15-10:00 Opportunities and challenges of accelerated breeding in ASEAN: Case of Vietnam.</p> <p>Speakers: Dr. Nguyen Phuong and Dr. Nguyen Văn Hieu</p> <p>Moderator: Dr. Venuprasad Ramaiah, IRRI</p>	
10.00AM – 10.30AM	Coffee and Networking Break	
10.30AM – 12.00PM	<p>10:30-11:15 Opportunities and Challenges of Accelerated Breeding in ASEAN: Case of the Philippines</p> <p>Speaker: Dr. Glenn Gregorio</p> <p>11:15-12:00 Opportunities and Challenges of Accelerated Breeding in ASEAN: Case of Thailand.</p> <p>Speaker: Dr. Siwaret Arikrit</p> <p>Moderator: Dr. Willy Bayuardi, IPB University</p>	
12.00 PM – 1.00 PM	Lunch Break	
1.00 PM – 3.00 PM	<p>1:00-1:40 Opportunities and Challenges of Accelerated Breeding in ASEAN: Case of Cambodia.</p> <p>Speaker: Ms. Sothear Ouk</p> <p>1:40-2:20 Opportunities and Challenges of Accelerated Breeding in ASEAN: Case of Laos.</p> <p>Speaker: Mr. Leah Homsengchan</p> <p>2:20-3:00 Opportunities and Challenges of Accelerated Breeding in ASEAN: Case of Malaysia</p> <p>Speaker: Dr. Rahiniza Binti Kamaruzaman</p>	

	Moderator: Dr. Inez H. Slamet-Loedin, IRRI	
3.00 PM – 3.30 PM	Coffee and Networking Break	
3.30 PM – 5:00 PM	Development of a Project Plan on “ <i>Rapid Enhancement of Sustainable and Inclusive Livelihoods through Equitable New Technologies in Rice and Soybean Systems in ASEAN (RESILIENT-ASEAN)</i> ” – Dr. Bunyamin Tar’an, Dr. Venkatesh Meda, and Dr. Hasan Pervej Ahmed Open Discussion and Q&A	
Day 3 (April 15): Field Trip		
6.30 AM – 9.30 AM	Travel to Subang, West Java	
9.30 AM – 12.30 PM	Visit to the Indonesian Rice Research Center (BRMP-Food Crops) at Sukamandi, District of Subang, West Java	
12.30 PM - 2.00PM	Lunch Break: Alam Sari Danau,Subang	
2.00 PM – 4.30 PM	Travel back to Bogor	
4.30 PM – 5.30 PM	Visit to Handayani batik center, Bogor	(tentative)
5.30 PM	Back to Hotel	
Day 4 (April 16): Policy Landscape Analysis I (Location: IPB University Main Campus-Darmaga)		
07.30-08.30	Travel to IPB University - Darmaga Campus	
8.30:00 AM – 10:00 AM	Presentation of Survey Results <ul style="list-style-type: none"> • Topics: Regulatory frameworks for breeding technologies and Institutional challenges in research and implementation • Speakers: Dr. Bailey Peterson-Wilhelm, Assistant Professor, Department of Agricultural and Resource Economics, USask. and Dr. Pedro Naso, Research Scientist at the Swedish University of Agricultural Sciences (SLU). 	Present survey results

	<ul style="list-style-type: none"> • Panellists: Dr. Sobir; Nitin Verma; Dr. Nguyen Thuy; Dr. Inez Hortense Slamet-Loedin • Moderator: Dr. Nicholas Tyack, Assistant Professor, Department of Agricultural and Resource Economics, USask. 	
10.00 AM – 10.30 AM	Coffee and Networking Break	
10.30 AM – 12.00 AM	Policy Mapping Exercise: Identifying Bottlenecks in Accelerated Breeding Adoption Speakers: Dr. Nicholas Tyack & Dr. Bailey Peterson-Wilhelm	
12.00 PM – 1.00 PM	Lunch Break	
1.00 PM – 2.00 PM	Campus excursion	
2.00 AM – 3.30 PM	Breakout Sessions: Drafting Policy Recommendations for ASEAN Countries	4 Breakout Groups - led by: Nicholas, Pedro, Bailey and Dr. Sobir
3.30 PM – 4.00 PM	Coffee Break and Networking Break	
4.00 PM – 5.00 PM	Synthesis from the Breakout Sessions and Feedback Session Presenter: Breakout Group Representative/Leader Moderator: Dr. Nicholas Tyack	
5.00 PM – 8.30PM	Back to Hotel and Dinner at Aroem Resto	
Day 5 (April 17): Policy Landscape Analysis and Closing		
9.00 AM – 10.30 AM	Presentation of Policy Landscape Analysis (Summary from Day 4 and Findings from Activity 3.1 (Policy consultants and experts from USask and ASEAN countries) Speakers: Dr. Bailey Peterson-Wilhelm and Dr. Pedro Naso Discussion, Q&A and feedback from stakeholders - Dr. Nicholas Tyack	
10.30 AM – 11.00 AM	Coffee and Networking Break	

11.00 AM – 12.00 AM	Closing Session: Roadmap for Strengthened Partnerships and Collaborations Dr. Hasan Pervej Ahmed and Dr. Nicholas Tyack, University of Saskatchewan	
12.00PM -1.30PM	Lunch, Closing Remarks and Certificate Distribution <ul style="list-style-type: none"> • Dr. Trikoesoemaningtyas, IPB University • Dr. Bunyamin Tar'an, University of Saskatchewan 	

For further information, please contact:

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