Entry No. IRRC-0650

Category	: International Rice Research Conference
Select Theme	: Genetic improvement
Endorsement email	:
Keyword 1	: Genetic gain
Keyword 2	: Breeding Strategy
Keyword 3	: Genomics-assisted breeding
Title of Entry	: Breeding End to End: Integrating phenotypic and genomic data into a modernized rice breeding strategy for the developing world
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Affiliation presenting author	: International Rice Research Institute
Affiliation 1	: International Rice Research Institute
Affiliation 2	: International Rice Research Institute
Select only one type of presentation	: 15 minute oral presentation
Abstract	: Feeding nearly half of the human population, rice is a critical focal point for achieving the UN Sustainable Development Goal of eliminating hunger and poverty by 2030 and providing a sufficient quantity of safe and nutritious food to vulnerable populations in the developing world. However, despite dramatic improvement in understanding the genetic basis of complex traits in rice over the last 20 years, annual rates of genetic gain for yield in most public rice breeding programs in Asia and Africa are either unknown or decidedly low. Supported by the Bill and Melinda Gates foundation and in coordination with the CGIAR Excellence in Breeding Platform CRP, IRRI aims to “transform rice breeding” by facilitating alignment among national public breeding programs in Asia and Africa around a common breeding model that appropriately leverages modern genomic technologies to ensure vulnerable smallholder rice farmers have access to a steady stream of high yielding, locally adapted, and market-ready rice varieties. Read Less»

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