

Category	: 8th Rice Genetics Symposium
Select Theme	: Genome and Gene editing: Novel tools and technologies
Endorsement email	:
Genome and Gene editing Novel tools and technologies Keyword 1	: CRISPR
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Genome and Gene editing Novel tools and technologies Keyword 3	:
Title of Entry	: CRISPR-Cas enabled advance plant breeding
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: CRISPR-Cas enabled advance plant breeding Amit Das ¹ , Pallavi Ghana ¹ , Bhojaraja Rudrappa ¹ , Pankaj Rajput ¹ , Surabhi Rana ¹ , Valasubramanian Ramaiah ¹ , Raman Babu ¹ , Anand Pandravada ¹ , Rita Gandhi ¹ , Sresty Venkata Tavva ¹ , Tom Greene ² and Amitabh Mohanty ^{1*} Corteva AgrisciencesTM, the Agriculture division of DowDuPontTM ¹ DuPont Knowledge Centre, ICICI Knowledge Park, Turkapally Village, Shamirpet Mandal, Hyderabad-500078, Telangana, India ² 7000 NW 62nd Ave, Johnston, IA 50131, USA *Author for correspondence- Amitabh.Mohanty@Pioneer.com The global population is estimated to be ~9 billion by the year 2050. This necessitates significant increase in food production to feed this ever growing population In addition to rising population, loss of farm land to urbanization and decreasing agricultural productivity in most populous parts of the world have created an urgent need to apply most modern and advance technologies to solve this problem. We at Corteva AgriscienceTM are applying cutting edge technologies such as CRISPR-Cas enabled advance plant breeding to solve some of these challenges towards crop improvement. This new technology allows us precise and targeted modification in the plant genome, thereby imparting ability to design and develop new generation of crops with improved traits. In this presentation we will focus on the latest developments in the field, including our waxy corn example and examples from rice.

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