Entry No. IRRC-0387

Category	: International Rice Research Conference
Select Theme	: Climate change and environmental sustainability
Endorsement email	:
Keyword 1	: Adaptation to climate change
Keyword 2	: Climate smart agriculture
Keyword 3	: Environmental sustainability
Title of Entry	: Seed Treatment: A rapidly progressing science providing critical growers solutions
Presenting author	: PANKAJ SHARMA
Presenting author email	: pankaj.sharma@pioneer.com
Co author 1	: Alex Cochran; Keith O'Bryan; Dwain Rule; Julie Abendroth; Bhupendra Bhatiya
Co author 2	: Happy Flores; Nobutaka Kuroiwa; Allan Nieves; Deepesh Sharma
Affiliation presenting author	: Corteva AgriscienceTM, Agriculture Division of DowDuPont
Affiliation 1	: Corteva AgriscienceTM, Agriculture Division of DowDuPont
Affiliation 2	: Corteva AgriscienceTM, Agriculture Division of DowDuPont
Select only one type of presentation	: 15 minute oral presentation
Abstract	: Adoption of seed applied technologies has rapidly expanded over the past twenty years Since the introduction of high value neonicotinoid insecticide seed treatment technology in mid-1990s, not only has there been significant evolution in insecticide seed applied technologies, but also development of technologies to protect against early soil and foliar diseases, nematicides for early protection against plant pathogenic nematodes, and various biological organisms utilized for plant growth enhancement and pest management. Rice is grown in diverse agro-climatic conditions in Asia and rice farmers face multiple insect pests like thrips, leaf folder, stem borer, gall midge, hoppers and diseases like root rot, bakanae disease, rice blast, and sheath blight at early stages of rice crop growth. Additional rice management challenges may also include but is not limited to water and labour shortage, increasing labour costs, and unpredictable weather conditions. Seed treatment solutions can offer promise to rice farmers for early pest management, vigorous rice germination, stand establishment and early crop growth. It is imperative to understand the specific components of seed treatment technologies addressing rice disease and pest challenges as well provide solutions that give assurance to rice farmers for a healthy and safe seed germination and crop growth. Corteva AgriscienceTM, a division of DowDuPont, focuses on dedicated seed treatment efforts that spans from discovery, robust characterization, development and commercialization of new seed applied technology components along with integrated solutions that combine seed applied components with germplasm and traits in such a way that addresses critical grower needs. From the early development of these technologies for seed application, to how they are commercially positioned

globally based on the technical strengths defines on what it takes to bring new rice seed applied solutions to life.

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