

Entry No. IRRC-0388

Category	: International Rice Research Conference
Select Theme	: Climate change and environmental sustainability
Endorsement email	:
Keyword 1	: Climate smart agriculture
Keyword 2	: Environmental sustainability
Keyword 3	: Water scarcity
Title of Entry	: Lumivia™ Seed Treatment: A revolution in insect control for rice farmers in Asia
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Select only one type of presentation	: 3-5 minute flash talk
Abstract	: Rice being a water loving crop attracts many early soil and foliar pests and diseases. Farmers typically observe the symptoms and then retroactively spray pesticides to minimize damage. There are few challenges with this approach. First, though foliar sprays provide good control, they do not prevent some damage from occurring. Secondly, rice farmers face challenges with labour shortage and cost of labour especially during the peak rice season. Additionally, if the climate conditions are not good for spraying like continuous rains or hot weather, it becomes cumbersome for farmers to apply foliar chemicals. Seed treatment

technology has rapidly evolved over the past twenty years beyond just early disease control protection from seed applied fungicides to now commonly include insecticides for early soil and foliar pest management, nematicides for early protection against plant pathogenic nematodes, and various biological organisms utilized for plant growth enhancement and protection. As a general perception, the utility of seed treatment technology for rice, especially transplanted rice, has always been a challenging question for farmers. There has not been a significant new mode of action insecticide with broad protection capability since the introduction of neonicotinoids in the mid-1990s. The Anthranilic diamides, chlorantraniliprole and cyantraniliprole represent two new significant technology introductions with broad utility for seed treatment use in many agricultural crops. Corteva Agriscience™ team has developed Lumivia™ (active ingredient- Chlorantraniliprole) that provides strong protection to multiple agricultural crops including rice, corn, and soybean from early lepidopteran pests. Lumivia has an excellent environmental profile, excellent seed safety, and low to no- significant impact on pollinators, parasitoids and predators when applied using Good Agricultural Practices. The physical properties of Lumivia™ makes it one of the top choices for use on rice as seed treatment. Lumivia™ moves systemically and provides protection against key lepidopteran pests from the shoot to growing aerial plant parts in transplanted and direct seeded rice and often improved vigour of the crop due to early pest protection. Lumivia™ is a promising new tool under development in Asia Pacific addressing early season rice insect pests giving peace of mind to farmers after sowing.

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