

Category	: International Rice Research Conference
Select Theme	: Sustainable and equitable farming systems
Endorsement email	:
Keyword 1	: Disease management
Keyword 2	: Sustainable management practices
Keyword 3	:
Title of Entry	: Evaluation of new hybrid fungicide Regev™ on the control of Rice diseases
Presenting author	: Cristobal Arroyo
Presenting author email	: cristobal@stk-ag.com
Co author 1	: Kristel Hawod
Co author 2	: Fredy Villamil
Affiliation presenting author	: STK bio-ag Technologies
Affiliation 1	: STK bio-ag Technologies
Affiliation 2	: STK bio-ag Technologies
Select only one type of presentation	: 15 minute oral presentation

**Abstract** : Evaluation of new hybrid fungicide Regev™ on the control of Rice diseases Two of the most important diseases on Rice are sheath blight (*Rhizoctonia solani*) and rice blast (*Magnaporthe grisea*) affecting yield and grain quality are responsible for approximately 25% and 30% respectively of rice production losses globally. Reasonable control of both diseases has been achieved by spraying mixtures of strobilurins (Qol) and triazoles (DMI's) fungicides at least two times per cycle in the last decade. A reduction in efficacy was observed in the last years. New effective alternatives of products that can provide different and multiple mode action, with lower risk for fungicide resistance and reduce chemical load to environment with consistent disease control, are necessary to complement the control of Rice diseases. Field trials performed in Meta, Colombia on 2016 and Central Luzone, Philippines on 2017 evaluated the efficacy of the new hybrid fungicide Regev™ (EC, difenoconazole 200 gL + tea tree oil 400 gL,). This unique formulation based on the broad spectrum activity of the *Melaleuca alternifolia* extract (Tea Tree Oil) which provides different mechanisms of action plus a triazole fungicide provides efficacy performance improvements on traditional chemistry. Its activity has been shown on wide range of other fungal plant diseases. The field trials consisting of 5 treatments and 2 sprays at 20 days interval in Colombia and 6 treatments with 3 applications on late boot stage at 7 days interval on the Philippines. On the first set of trials Regev™ significantly reduced disease incidence and severity of sheath blight and rice blast. Regev at 0,4 L/ha<sup>-</sup> shows the most consistence and significant results (75% control) compared to untreated plants and was better than epoxiconazole 125gL<sup>-</sup> +kresoxym -methyl 125 gL<sup>-</sup>(%64.4). On the second set of trials Regev™ at 0.25, 0.50 or 1.0 Lha<sup>-</sup> provided high control of both diseases 97-98.3%) and was similar to the standards of difenoconazole 150 gL<sup>-</sup> + propiconazole 150 gL<sup>-</sup> (98.3%) and difenoconazole 250 gL<sup>-</sup>(98.0%) and statistically different from the untreated plants. This work provides substantial evidence that Regev™ constitutes an attractive alternative for controlling various diseases in Rice.

[Read more»](#)

## Uploaded Files »

No files found.

