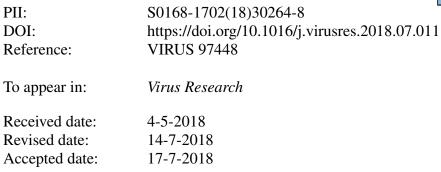
Accepted Manuscript

Title: Simultaneous resistance against the two viruses causing rice tungro disease using RNA interference

Authors: Shweta Sharma, Gaurav Kumar, Indranil Dasgupta



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ACCEPTED MANUSCRIPT

Title: Simultaneous resistance against the two viruses causing rice tungro disease using RNA interference.

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Highlights

- Rice tungro disease is caused by the joint infection of RTBV and RTSV
- Intron hairpin constructs were developed simultaneously against both viruses
- Transgenic rice having above constructs accumulated siRNAs against both viruses
- RTBV and RTSV levels decreased 100- to 500-fold in transgenic rice
- Transgenic rice plants showed significant mitigation of tungro symptoms

Summary

Rice tungro is the most important viral disease affecting rice in South and Southeast Asia, caused by two viruses rice tungro bacilliform virus (RTBV) and rice tungro spherical virus

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