

## Findings of Pathogenicity test of Blast Pathogen on Rice and Wheat Plants

A total of 12 blast infected wheat samples were collected from 3 different locations of Bangladesh supplied by Wheat Research Center, BARI. Isolation and purification of 11 isolates of wheat blast pathogen were done in Plant Pathology Laboratory, BRRI, Gazipur. Isolates were preserved in paper disc on silica gel in appendorp and also in prune agar medium. Four wheat blast isolates were inoculated on BARI Gom25, BARI Gom26, popular susceptible rice varieties BRRI dhan34, BRRI dhan29 and LTH (a universal susceptible variety). Disease incidence and severity data were recorded 7 and 14 days after inoculation. It was found that only blast symptom developed on wheat seedlings but not on rice (Fig. 1). This trial was repeated 3 times in green house.



**Fig. 1.** Both wheat and rice plants were inoculated by an isolate of wheat blast pathogen (Wheat plant shows blast symptom but no symptom on rice plant)

**Fig. 2.** Both rice and wheat plants were inoculated by an isolate of rice blast pathogen (Rice plant shows blast symptom but no symptom on wheat plant)

On the other hand, 3 rice blast isolates were inoculated on BARI Gom 25, BARI Gom26, popular susceptible rice varieties BRRI dhan34, BRRI dhan29 and LTH. After disease assessment, it was found that only blast symptom developed on rice leaves but not on wheat plants (Fig. 2). Similarly, trial was repeated thrice in green house. **From the above experiments it is concluded that wheat blast pathogen does not infect rice plant conversely rice blast pathogen does not infect wheat plant.**



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