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Clinical Image

It Needs to be Taken Seriously of the new Rising Disease: Bacterial Brown Stripe of Rice

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Bacterial brown stripe of rice (BBSR), caused by *Pseudomonas syringae* pv. *panici* (Elliott) stepp and/or *Acidovorax avenae* subsp. *avenae*, also called heart rot disease of rice, was firstly reported in 1989 in China. BBSR was minority and occasionally occurred at small scale in rice production area of Yangtze River basin, southern Chinaandnorthern cold regionin the past three decades. It occurred and aggravated in recent years, the rate of the diseased plants was 20-25% in common paddy fields infected by BBSR, whereas the disease happened seriously, the mortality rate of seedling could reached above 60%. However, the BBSR was seriously outbreak in 2018 in



Figure 1: Heart leaf dead.



Figure 2: Bacterial concentration.

partial areas in China, including Sichuan, Hunan, Hubei, Anhui and Chongqing provinces (municipality) in upper reaches of Yangtze River, Liaoning and Jilin provinces in northeast. There are more than 100 thousand hectare of rice field were seriously infected (caused large scale of rice plants destroyed) by BBSR, the major infected varieties are Y Liangyou 957 (hybrid rice) and Yanjing 47 (japonica) (Figures 1-4).

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Figure 3: Symptoms of BBSR in the field.

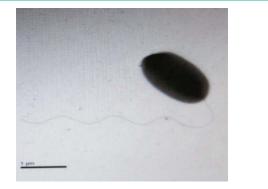


Figure 4: Cell of the pathogenic bacterium.