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## THE BREEDING OF GLUTINOUS HYBRID RICE

The glutinous rice is the traditional staple food most people in Asia. The glutinous rice is used in many countries for the preparation of the rice cake, and is an important cultural component. Along with living standards' enhancement and market economy's development and the demands for nutritious and healthy foods drive constant increase of the market for glutinous rice demand. The rice breeding programme has adopted the super rice breeding and good progress was made. It is important for us to develop glutinous hybrid rice for improving the yield of glutinous rice. Induced mutants of wx were directly obtained after irradiation on maintainer (B), restorer (R) and photoperiod (temperature) sensitive genic male sterile lines(S) of hybrid rice. CMS(A) lines with wx (referred to as wxA), T(P)GMS lines with wx (referred to as wxS), restorer lines with wx gene (referred to as wxR) as well as hybrid rice with wx gene (referred to as wx-hybrids) were developed. By using the wx-hybrid rice breeding method, most of CMS(T(P)GMS) lines and R lines used in China were transferred to wx-CMS (wx- T(P)GMS) lines and wx R lines. Till now, 8 wx-CMS (T(P)GMS) lines and 5 elite wx-hybrid rice were released for commercial production. Compared with the traditional glutinous rice, the yield of the wx-hybrid rice was improved about 1,500 kg ha2.

## **Country or International Organization**

Hybrid rice; Glutinous rice; wx-hybrid rice; Mutation

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