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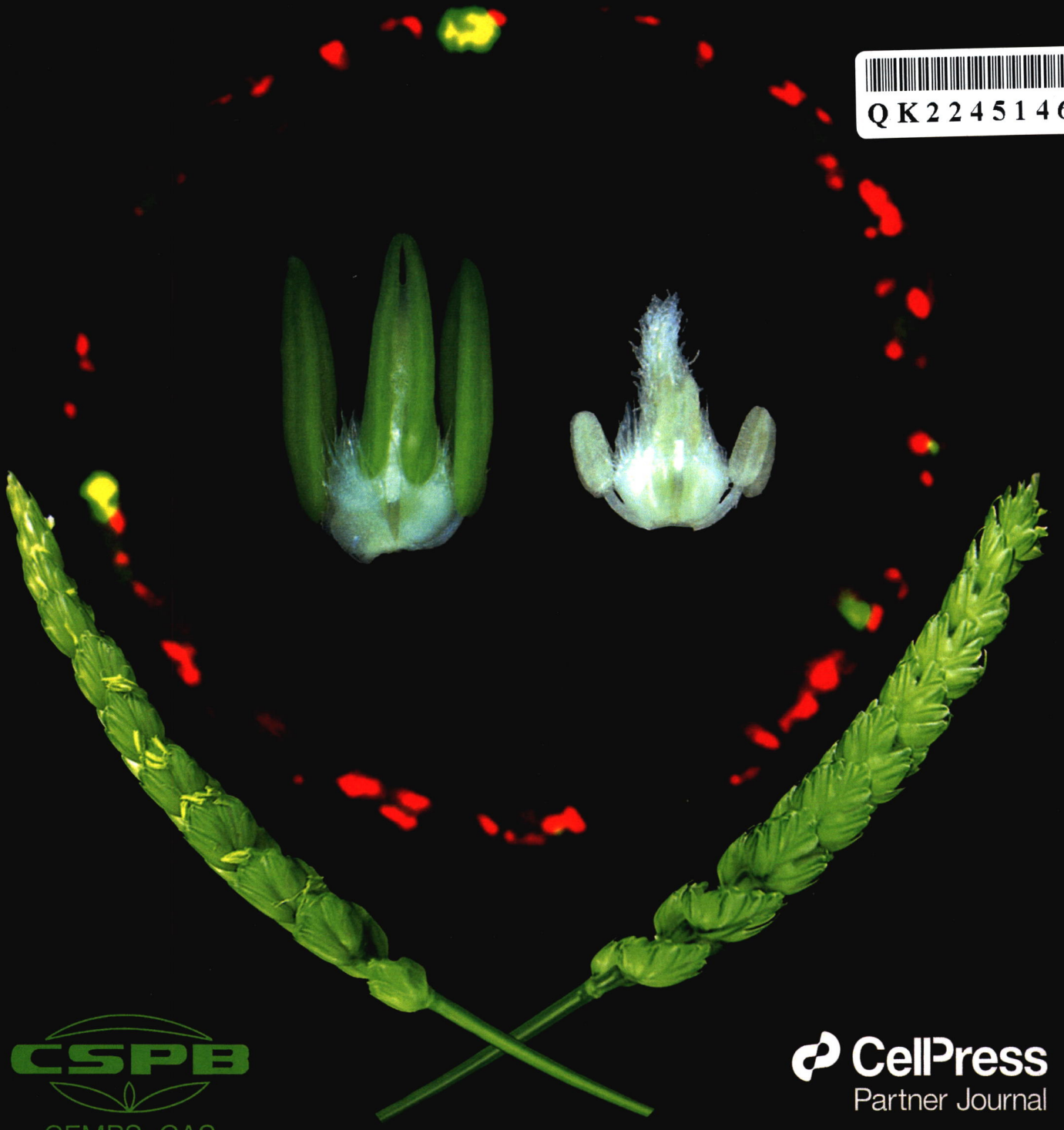

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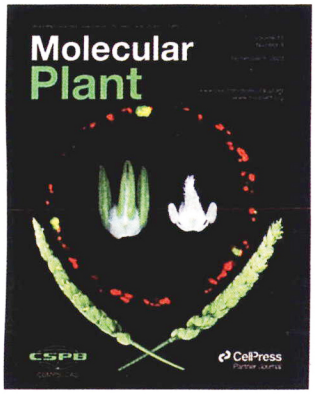

On the cover:

The Taigu male-sterile wheat line is a unique and precious male-sterile genetic resource that has been widely used in wheat breeding programs in China. The anther development of this male-sterile mutant line is arrested at the early stage, which is caused by anther-specific activation of *Ms2*. The mitochondria-localized Ms2 protein reduces the accumulation of reactive oxygen species (ROS) in anthers and consequently terminates wheat anther development through direct interaction with the mitochondria-localized wheat ROS modulator 1 (TaRomo1). The cover image illustrates the localization of Ms2 (indicated by the merged yellow signals) in the mitochondria, in which the wild-type wheat (left) and *ms2* mutant anthers (right) are shown. The images and cover caption were provided by Jiaqiang Sun, Chuan Xia, and Jie Liu. The cover was designed and processed by Juanying Ye.

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