

生物技术 生命科学

主要农作物转基因飘流频率和距离的数据调研与分析 II . 水稻

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摘要:

水稻是重要的粮食作物,转基因抗虫水稻在我国已经获得安全证书,且其他性状的转基因水稻也进入田间试验和环境释放阶段,因此,水稻的基因漂流备受关注。归纳和分析了近10年来国内外水稻基因漂流的数据和信息,分别包括向栽培稻品种、不育系和普通野生稻的基因漂流,明确了转基因向不育系的漂流频率最大,其次是普通野生稻,向栽培稻品种的漂流频率最小,并提出了向这三种类型水稻基因漂流的0.1%阈值距离。

关键词: 水稻;基因漂流;阈值距离

Data Survey and Analysis of the Tansgene Flow Frequencies and Distances in Major Crops II . Rice

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Abstract:

Rice is one of the most important food crops. At present, transgenic insect-resistant rice has obtained safe certificate in China and transgenic rice with other traits have entered cultivation test and environmental release stage. So transgene flow of rice was paid more attention. This article reviewed and analyzed the data and information on rice tansgene flow, which is published internationally in recent ten years. The data include the frequencies and distances of gene flow to common cultivars, male-sterile lines and common wild rice (*Oryza Rufipogon*). It is indicated that the frequency of transgene flow to male-sterile lines is highest, to common cultivars is lowest, and to common wild rice is between male-sterile lines and common cultivars. The isolation distances at a threshold level 0.1% for the three categories of rice are determined.

Keywords: rice gene flow threshold distance

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