遗传学报 1991 18 (3): 277-281 ISSN: 0379-4172 CN: 11-5450/R

ADH在光敏感核不育水稻中反应特征的研究*

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 乙醇脱氢酶(ADH)活性在湖北光敏感核不育水稻(HPGMR)幼穗发育的育性诱导阶段对光周期反 应非常敏感。此时，在短日照或远红光处理的条件下，乙醇脱氢酶同工酶AdhⅡ活性高，湖 北光敏感核不育水稻原始不育株农垦58雄性可育；在长日照或红光间断长暗期的条件下，Ad hⅡ活性陡降，表现雄性不育。因此认为AdhⅡ与湖北光敏感核不育水稻育性转换有关，可能是它参予了育性基因表达的调控作用。

关键词 光敏感核不育水稻,光周期,乙醇脱氢酶,育性转换

分类号

A Study of ADH Reaction Characteristics in Photoperiod Sensitive Genic Male-ster ile Rice

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Abstract

The activity of ADH (alcohol dehydrogenase)in the youn panicles of HPGMR (Hubei Photoperiod-sensitive Genic Male-steile Rice)during the fertility inducing peried is highly sensitive,Disposed with short day light or far red light,AdhⅡ,one o f the ADH isoenzymes,showed high activity and the primitive sterile strain of HP GMR,Nong Ken 58 became male fertile.It is considered that AdhⅡ is concerned with the transformation of HPGMR fertility,and it may participate in the regulation of the expression of fertile gene.

Key words HPGMR Photoperiod ADH Transformation of fertility

DOI:

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