

植物保护—研究进展

ISSR标记技术在植物病原真菌研究中的应用

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摘要:

本文对ISSR在植物病原真菌研究中的应用现状进行综述。在植物病原真菌研究中,ISSR主要应用在遗传多样性研究,种间及种内关系及病菌检测,种群遗传分化以及在抗病基因标记及定位中的应用等方面。ISSR技术具操作简单、重复性、多态性丰富和耗资少等优点,并且能鉴定到病原真菌小种,这将使其在新物种鉴定、病菌检测、遗传分化等研究中发挥积极作用,也会被越来越多地应用在更多领域中。

关键词: 抗病基因标记和定位

Applications of ISSR in the Researches of the Fungal Plant Pathogens

Abstract:

In the paper the present applications of ISSR in the researches of the fungal phytopathogens were gave. ISSR is applied in the following researches: the genetic diversity analysis, the study in intraspecific and interspecific relationships, the detection of fungal pathogens, the analysis of genetic population variation and the mapping of disease resistance genes. ISSR have simple procedures, good repetition, high polymorphism and low money, in addition to it can detect the race of pathogen. So it will play an important role in the identification of new species, the detection of plant pathogen and the genetic population variation. And it will be applied to more research fields in the future.

Keywords: mapping of disease resistance gene

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