



棉花抗黄萎病QTL定位研究进展

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Progresses on QTL Mapping for Cotton Resistant to *Verticillium* Wilt

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摘要

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摘要 QTL(quantitative trait locus)定位将控制数量性状的基因分解成单个孟德尔因子进行详细剖析, 更为细致地了解数量性状的遗传规律, 为加速棉花抗黄萎病的遗传改良奠定基础。本文概述了棉花抗黄萎病QTL定位理论和现状, 讨论了棉花抗黄萎病QTL定位过程中存在的问题及在遗传改良上的应用前景。

关键词: 棉花 QTL定位 黄萎病 分子标记

Abstract: The development of QTL mapping make it easy to dissect the genetic basis of quantitative traits into Mendelian factors, and the genetic basis of quantitative traits could be better understood. So the technique could lay a foundation for the acceleration of improvement on cotton resistant to *Verticillium* wilt through molecular breeding. In the light of problems as encountered in QTL mapping for cotton resistant to *Verticillium* wilt, we made a detailed review that focused on the theory, progresses on QTL mapping for cotton resistant to *Verticillium* wilt. The application of QTL mapping for cotton resistant to *Verticillium* wilt to genetic improvement in the future was discussed also in this paper.

Keywords: cotton; QTL mapping *Verticillium* wilt molecular marker

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