

植物保护

云南烟草赤星病菌遗传多样性的RAPD分析

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摘要 运用RAPD分子标记技术分析了来自云南各地24个烟草赤星病菌株的遗传多样性。结果表明, 12个随机引物共扩增出了145条DNA条带, 所扩增出的DNA条带均为多态带, 表明云南烟草赤星病菌存在丰富的遗传多样性。不同地点赤星病菌的遗传结构之间都有一定的差异, 生态环境相似性越大的地点, 赤星病菌的遗传结构相似程度就越高。赤星病菌的遗传结构也随寄主品种(基因型)的不同而表现出一定的差异, 寄主品种的遗传背景影响着赤星病菌的遗传结构。

关键词 [烟草](#); [赤星病](#); [遗传多样性](#); [RAPD](#)

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Analysis on Genetic Diversity of *Alternaria alternata* by RAPD in Yunnan

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Abstract

24 *Alternaria alternata* isolates from different places in Yunnan province were analyzed for genetic diversity by using Random Amplified Polymorphic DNA (RAPD). The results showed that there existed rich genetic diversity in all the isolates in Yunnan province. Following PCR amplification with 12 arbitrary primers, a total of 145 DNA bands were found and all of them were polymorphic. The genetic structure of *Alternaria alternata* (Fries) Keissler was different among different places, and the more similarity of growing environment of tobacco plant, the more similarity in genetic structure of these isolates. The genetic structure of *Alternaria alternata* (Fries) Keissler was influenced by genetic background of host cultivar, and the genetic structure of isolates from different host cultivar was different.

Key words [Tobacco](#) [Alternaria alternata](#) [genetic diversity](#) [RAPD](#)

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