

# 满江红鱼腥藻与其宿主的遗传多样性和协同性的RAPD分析 The Genetic Diversity and Homology of Anabaena azollae and its Host Plant (Azolla) Based on Rapd Analysis

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**摘要** 从16个代表不同种属或地域来源的满江红样本中分离出共生藻并通过处理获得无藻的满江红宿主,对二者同步进行了RAPD扩增,分别得到了大量DNA多态片段。通过建立满江红鱼腥藻及其宿主的UPGMA聚类关系图,看出二者在遗传分支上存在着一定程度的协同对应关系。但在种内的不同品系间,这种协同性有所减少,发现有的品系的共生藻发生了明显的变异。

**Abstract:**Symbiotic Anabeana azollae and its host plant Anabeana-free Azolla were isolated from 16 Azolla accessions representing different Azolla species or geographic origins.DNA polymorphic fragments were obtained by simultaneous RAPD amplification of both symbiont and host.The UPGMA clusters of Anabeana azollae and its host Azolla were established separately based on Dice coefficient caculation and a coordinated relationship was shown between Anabeana azollae and its Azolla host along both individual genetic divergence,but this genetic homology was reduced among different strains within Azolla species while the obvious mutants of Anabeana azollae were detected in some Azolla tested strains collected from different geographic area in the same host species.

**关键词** [满江红鱼腥藻](#) [满江红](#) [共生](#) [遗传多样性](#) [RAPD分析](#) **Key words** [Anabeana azollae](#) [Azolla symbiosis](#) [genetic diversity](#) [RAPD analysis](#)

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## Abstract

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