

研究论文

韭不同倍性及其非整倍体的ITS序列变异研究

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收稿日期 修回日期 网络版发布日期 2003-8-22 18:15:00 接受日期

摘要 对不同倍性及其非整倍体韭*Allium tuberosum*和野韭*Allium ramosum*核糖体DNA的内部转录区(ITS)进行了PCR扩增和克隆,并测定10个ITS1和ITS2的序列,用ITS1+ITS2的序列探讨*Allium tuberosum*和*Allium ramosum*的系统发育关系。研究表明,*Allium tuberosum*与*Allium ramosum*种间的平均Kimura遗传距离仅为0.0146,二者是一对近缘种。虽然韭经历了长期的人工选择和自然选择,但与野韭的分化仍然较小。韭不同倍性及其非整倍体之间,其ITS序列亦无明显差异。

关键词 [韭](#) [野韭](#) [ITS序列](#) [多倍体](#) [非整倍体](#)

分类号

Studies on Variation of ITS Sequences with Different Ploidy and Its Aneuploid in *Allium tuberosum*

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Abstract

The ITS regions of 2 closely related species *Allium tuberosum* Rotuer. ex Spreng. and *Allium ramosum* L. in *Allium* Sect. *Rhiziridium* G. Don were amplified, cloned and sequenced. The genetic relationships among 10 materials of diploid, triploid, tetraploid and aneuploid in *Allium tuberosum* and *Allium ramosum* were reconstructed based on ITS1 + ITS2 sequences. The results demonstrated that the average Kimura pairwise distance between *Allium tuberosum* and *Allium ramosum* was 0.0146. They are a pair of closely related species. Although it was gone through evolution by artificial selection and natural selection, *Allium tuberosum* kept little differentiation from *Allium ramosum*. Sequences of ITS region show that there are no evident differentiation among the various diploid, triploid, tetraploid and aneuploid of *Allium tuberosum*.

Key words [Allium tuberosum](#) [Allium ramosum](#) [ITS sequence](#) [Polyploidy](#) [Aneuploid](#)

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