

畜牧—研究进展

白三叶基因工程改良研究进展

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摘要:

白三叶 (*Trifolium repens* L.) 作为优良牧草和地被植物具有重要的应用价值。但其耐盐碱、干旱能力差等原因致使应用受到广泛限制, 转基因技术的快速发展为白三叶种质创新提供了有效技术手段, 为开展白三叶分子育种奠定了基础。本文就近30年来有关白三叶组织培养、转化方法、转基因遗传改良方面的研究进展进行了综述, 并对其应用进行了展望。

关键词: 基因改良

Progresses in Improvement of *Trifolium repens* L. by Genetic Engineering

Abstract:

Abstract: As one of the important forage grass species, white clover (*Trifolium repens* L.) has been extensively applied in feed industry and ornamental horticulture. However, the poor resistance of the majority of current white clover cultivars to salinity, drought and other abiotic stresses greatly restricts its adaptability for a broader range of soil and climatic conditions. Transgenic engineering is promising an alternative solution for the genetic modification of abiotic stress tolerance of white clover. In this paper, progresses in the research of tissue culture, transformation and genetic improvement of white clover during the past 30 years were reviewed.

Keywords: genetic modification

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