

育种与栽培

中国杨树遗传改良

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摘要:

中国是杨树资源丰富的国家.杨树遗传改良主要为中国杨树工业用材林和生态防护林提供杨树新品种.本文主要论述了中国林科院主持国家攻关杨树育种项目的研究进展.近年来在青杨派和黑杨派树种遗传改良取得了可喜进展.主要包括:①杨树育种亲本材料的遗传改良策略;②杨树种质资源的研究;③杨树配合性杂交,亲本与子代相关的研究;④杨树杂种优势和新品种创造;⑤杨树生物技术育种等.

关键词: 中国 杨树 遗传改良

Genetic Improvement of Poplar in China

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Abstract:

China is replete with rich natural resource of Populus. The work of directional genetic improvement , mainly aimed at developing genetically improved poplar cultivars, used industrial woody plantations and protective stands in China. This paper summarizes the key results of several national key five-year projects undertaken by researchers of the Chinese Academy of Forestry. Significant genetic developments of species of Tacamachaca and Aigeiros described include (1) straregies for genetic improvements of parent materials, (2) collection and evaluation of poplar resources in China, (3) match-crossing of poplar species and relationships between parent and progeny, (4) insights on heterosis and new cultivars obtained by selection and breeding, and (5) results of breeding integrated in biotechnologies such as salt-tolerant somatic mutants of Populus×xiaozhuanica, the molecular linkage map of Populus deltoides Marsh×P.cathayana Rehd. , and associations between quantitative traits and molec...更多

Keywords: China Populus Genetic improvement

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