

*Studies on the Selection and Appraisal of  
Blight-disease-resistant Families of *Aleurites fordii**

Hua Suolong

(The Research Institute of Subtropical Forestry CAF)

**Abstract** Investigations conducted in the recent 10 years have showed that the major varieties or forms, as well as most of the open-pollination progenies from blight-disease-resistant parent individuals of *Aleurites fordii* were not tolerant to the blight disease infected by *Fusarium oxysporum* f. sp. *aleuritidis*. However, trees of the first generation from self-pollination of the resistant individual R44⑥ and from crossbreeding of R44⑥ × R53⑨ were found to possess an evident resistance to the disease. The early effective examination of the disease resistance was conducted by inoculation through application of the fungus suspension to wounded roots at the young seedling stage. It was also found that the content of amino acid in resistant trees was significantly higher than that in the susceptible ones, but lower than that in *A. montana* trees, which are immune from the wilt disease.

**Key words** *Aleurites fordii*; blight disease of tungoil tree; selection and appraisal of families

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### “华北石质山风沙防护区遥感综合调查研究”通过鉴定验收

“华北石质山风沙防护林区遥感综合调查研究”是国家“七五”攻关项目“遥感技术开发”的组成部分，由中国林科院资源信息所和北京农大畜牧系主持，全国19个单位参加。经过近4年的团结攻关，行程1.5万km，完成了9万km<sup>2</sup>的制图、7万km<sup>2</sup>的多学科数据量算分析，做了大量深入、细致的研究，超额完成了合同下达的各项指标。该课题于1990年12月31日在北京通过了由中国科学院资源环境科学局主持的鉴定和验收。鉴定委员有学部委员吴中伦、陈述彭等12名同行专家和教授。通过审查，他们认为：该项研究在科学性和实用性等诸方面均具特色，技术上取得了突破性进展；在航天遥感图象处理上，开拓了导向比值法，针对华北石质山区地形复杂、山势阴影较重的特点，通过纠正变换获得了清晰图象；在遥感信息系统建立上，融空间数据管理、数字图象处理、数据库管理和应用分析为一体，实现了从试验阶段到大区域性实用化的过渡；将数字分析模型应用到综合调查的各专题中，如草地的并行指示法分类、多种遥感资料进行蓄积估测与评定、立地类型的模糊评判等，完善了从定性到半定量、定量分析的遥感手段；提出了该地区土地利用方向、土地资源的空间分布及质量评价、宜林地立地类型划分及实用性图件，林业、草地建设的战略性意见，对今后该地区资源开发、环境保护将产生明显的社会效益。鉴定委员会和验收组一致认为该研究从总体上和实用性上均达到国际先进水平。在图象处理、防护林信息提取方面居国际领先地位。

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