

# 大豆基因型对根癌农杆菌菌株敏感性的研究 The Studies of Sensitivity of Genotypes in Soybean to Lines of *Agrobacterium tumefaciens*

王罡, 王萍, 蔺宇, 张领兵, 吴颖 WANG Gang, WANG Ping, LIN Yu, ZHANG Ling-bing, WU Ying  
解放军军需大学植物基因工程研究中心, 植物分子生物学研究室, 长春 130062 Laboratory of Plant Molecular Biology, Research Center For Plant Genetic Engineering, The Quatermaster University of PLA, Changchun 130062, China

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**摘要** 以栽培大豆 [*Glycine max* (L.) Mer] 吉林30、吉林43、绥农8、黑农35和东农42等的下胚轴为外植体, 用EHA105和LBA4404 2个根癌农杆菌菌株(分别含有pGBI121S4ABC和pGBI4A2B质粒)研究大豆基因型对根癌农杆菌的敏感性, 以及根癌农杆菌对大豆的侵染能力。结果表明, 大豆基因型对根癌农杆菌的敏感性存在显著差异, 以吉林43最敏感。根癌农杆菌菌株对大豆下胚轴侵染能力不同, 含有pGBI121S4ABC质粒的LBA4404侵染能力较强, 但差异未达显著水平。

**Abstract:** The sensitivity of genotypes in soybean to lines of *Agrobacterium tumefaciens* and the ability of *A. tumefaciens* infecting to soybean were investigated with hypocotyls of soybean (Jilin30, Jilin43, Suinong8, Heinong35 and Dongnong42) and lines of *A. tumefaciens* LBA4404 and EHA105 which including plasmid pGBI121S4ABC and pGBI4A2B respectively. The results showed that the sensitivity of genotypes in soybean to *A. tumefaciens* was significantly different. Jilin43 was the most sensitive materials to *A. tumefaciens*. The ability of *A. tumefaciens* infecting hypocotyls in soybean was different. LBA4404 including plasmid pGBI121S4ABC was easier to infect hypocotyls of soybean.

**关键词** [大豆](#) [基因型](#) [根癌农杆菌](#) [下胚轴](#) **Key words** [soybean](#) [genotypes](#) [Agrobacterium tumefaciens](#) [hypocotyl](#)

分类号

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## Abstract

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