

研究简报

## 大豆对SMV SC-7株系群的抗性遗传与基因定位

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**摘要** 科丰1号×南农1138-2的P<sub>1</sub>、P<sub>2</sub>、F<sub>1</sub>和180个重组自交家系接种SC-7株系群的鉴定表明, P<sub>1</sub>与F<sub>1</sub>全抗, P<sub>2</sub>全感, 说明抗性为显性; 重组自交家系抗、感按1:1分离, 说明抗性由一对基因控制。利用王永军等的遗传连锁图对SC-7株系群的抗性基因进行连锁分析, 将抗病基因Rsc-7定位于N8-D1b+W连锁群上, 并与已定位的5个抗性基因中的3个连锁, 还有一个与之相连锁的标记LC5T, 其排列顺序和遗传距离为Rsa (30.6 cM) Rsc-7 (22.1 cM) Rn3 (10.3 cM) Rn1 (15.8 cM) LC5T。

**关键词** [大豆](#) [大豆叶病毒\(SMV\)](#) [SC-7株系群](#) [抗性遗传](#) [基因定位](#)

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## Inheritance and Gene Mapping of Resistance to SMV Strain SC-7 in Soybean

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**Abstract** The P<sub>1</sub>, P<sub>2</sub>, F<sub>1</sub> and 180 RILs of Kefeng 1×Nannong1138-2 were inoculated with the SMV strain SC-7 for identification of their resistance. The results showed Kefeng 1 being resistant, Nannong 1138-2 being susceptible, F<sub>1</sub> being resistant, and the RILs segregating in a 1:1 ratio, which indicated that a dominant gene controlled the resistance to SC-7. With linkage analysis, the resistance gene Rsc-7 was located on the linkage group N8-D1b+W and linked with three of five resistance genes and a RFLP maker LC5T. The order and genetic distance of linked genes were Rsa (30.6 cM) Rsc-7 (22.1 cM) Rn3 (10.3 cM) Rn1 (15.8 cM) LC5T.

**Key words** [Soybean](#) [Soybean Mosaic Virus \(SMV\)](#) [Strain SC-7](#) [Inheritance of resistance](#) [Gene mapping](#)

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