

[本期目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)[\[打印本页\]](#) [\[关闭\]](#)**农学—研究报告****平阳霉素诱变‘兰考矮早8’引起性状变异的研究及SSR分析****张希太**

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**摘要:**

为通过基因突变途径创造新的小麦种质资源，在小麦苗的起身拔节期将0~50 μg/mL不同浓度的盐酸平阳霉素溶液通过叶鞘注射到小麦品种‘兰考矮早8’的生长点部位，其后代在株高、蜡质层、芒型、穗型、叶绿素、生育期等几个方面发生大量变异。通过对变异后代的系统选择得到了多个稳定的变异种质系；通过对‘兰考矮早8’及两个种质系pym-s-6、pym-s-2基因组DNA的SSR分子标记检测，引物xgwm148、xgwm645、xgwm6、xgwm107、xgwm213、xgwm219、xgwm260、xgwm400、xgwm295检测出了较丰富的多态性DNA片段。从分子水平上证明了在小麦苗起身拔节期向小麦生长点注射盐酸平阳霉素的诱变方法切实可行。

**关键词:** SSR分子标记

### Study on Character Variation of ‘Lankaoaizao8’ Induced by Pingyangmycin and Assessment of Genetic Diversity of the Descendant Using SSR Markers

**Abstract:**

For invent the new germplasm line by mutator gene, we had been injected the aqua of pingyangmycin in each concentration between 0-50 μg/mL into the growing point in stem tip of the wheat ‘Lankaoaizao8’. There were many descendants had been mutated in plant height, waxiness, awn, ear type, chlorophylle, maturation. We had owned many unaltered germplasm line by subsequent continuous selection in the variational descendants. Detect the DNA of ‘Lankaoaizao8’、pym-s-6、pym-s-2 using SSR markers. There were many differential fragments which had been found by the Prime xgwm148, xgwm645, xgwm6, xgwm107, xgwm213, xgwm219, xgwm260, xgwm400, xgwm295. In molecular level, It had been attested that Injected the aqua of pingyangmycin into the growing point in stem tip of the wheat at growth phase is a feasible program to Induced mutator gene of the wheat.

**Keywords:** SSR markers**收稿日期** 2011-01-10 **修回日期** 2011-02-28 **网络版发布日期** 2011-05-27**DOI:****基金项目:****通讯作者:** 张希太**作者简介:**

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