

研究论文

甲基胂酸锌对水稻杀雄作用的细胞形态学观察

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摘要 本文为选用化学杀雄药剂、施药浓度和时期,提供细胞形态学上的参考依据。供试品种主要为筑紫晴。在二次枝梗分化期、花粉母细胞形成期喷施甲基胂酸锌的,都在单胞花粉期败育。单胞花粉期喷药的,可发育至三胞阶段,但花粉中所积累的淀粉形态发育不正常。试验表明:在花粉母细胞形成期至单胞花粉期喷施200ppm 甲基胂酸锌进行杀雄为适宜。花粉败育时,花丝、药隔维管束仍分化正常。花粉败育与绒毡层的最后消失几乎同时。处理的材料其绒毡层在单胞花粉败育时消失,较对照的在三胞期消失为早。药剂处理对雌蕊的发育未见影响,可以正常形成卵细胞和极核。

关键词

分类号

CYTO-MORPHOLOGICAL OBSERVATION ON MALE STERILITY IN RICE INDUCED BY ZINC METHYL ARSENATE

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Abstract The rice variety Zhu-zi-qing was used as chief material in this experiment. Solutions of Zinc methyl arsenate (Dao-jiao-qing) of 200,300 or 400 ppm were sprayed on the rice plants, and male sterility obtained was very obvious. The higher the concentration of Dao-jiao-qing, the more the abnormalities in cyto-morphology were. When the plants were treated with Dao-jiao-qing at the time of differentiation of the secondary branchlets of panicle, i.e. from the stage of PMC to the early phase of meiosis, some abnormal pheno...

Key words

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