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不同浓度6-BA和AgNO₃对甘蓝叶片不定芽分化的影响

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Effect of 6BA and AgNO₃ on Shoot Regeneration of Cabbage Leaf

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摘要 探索不同浓度的6-BA和AgNO₃对甘蓝叶片分化的影响, 以期为甘蓝基因工程育种, 尤其是质体基因工程育种奠定基础。试验以甘蓝叶片作为外植体, 研究了不同浓度的6-BA, AgNO₃对甘蓝叶片芽分化的影响。结果表明: 在MS+6BA 1mg/L+AgNO₃ 0.01 mg/L的培养基上芽的诱导率最高, 达到96.7%。增殖率最高的培养基为MS+6BA 1mg/L+AgNO₃ 0.05 mg/L, 达到7.99。叶片高效离体再生体系的建立, 为甘蓝叶绿体基因转化打下了一个良好基础。

关键词: 甘蓝 6-BA AgNO₃ 不定芽分化

Abstract: Transplastomic transformation has become attractive technology in plant molecular breeding. However, the efficiency of plasmid transformation limited because of low regeneration in many plants. AgNO₃ as a competitive inhibitor regulating the synthesis of ethylene and polyamine plays a very important role in organogenesis or morphogenesis of in vitro cultures. The research was conducted to study the effects of different concentrations of 6-benzylaminopurine (6-BA) and AgNO₃ on inducing adventitious buds from cabbage (*Brassica oleracea* var. capitata L.) leaf. In the experiment, cabbage leaf of aseptic seedling was cut into segments measured about 0.5cm×0.5cm, cultured on the MS medium supplemented with different concentrations of 6BA and AgNO₃. The results showed that the optimal induction medium was MS+6BA 1mg/L+AgNO₃ 0.01mg/L, the inducing rate reached as high as 96.7%. While the optimal proliferation medium was MS+6-BA 1mg/L+AgNO₃ 0.05 mg/L, proliferation rate was 7.99. A high efficiency regeneration system of leaf explants in cabbage has been developed based on the study, which lay the foundation for further research of cabbage chloroplast transformation.

Keywords: cabbage 6-benzylaminopurine AgNO₃ adventitious bud differentiation

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