研究简报

⁶⁰Co-**∀**射线辐射对红掌几种酶活性及MDA含量的影响

闫芳芳,强继业*

(云南农业大学烟草学院, 云南 昆明 650201)

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摘要 试验研究了用不同剂量⁶⁰Co-γ射线辐射处理整株红掌后,其叶片中几种酶活性及MDA含量的变化。结果表明:辐射后丙二醛(MDA)含量,超氧物歧化酶(SOD),过氧化物酶(POD)活性与对照相比均有增加,且最大值均出现于50Gy处理时;多酚氧化酶(PPO)和过氧化氢酶(CAT)活性最大值分别出现于20Gy,90Gy,为对照的1.75倍、1.25倍; SOD活性与MDA含量呈极显著正相关,与POD活性呈极显著正相关;CAT活性与MDA含量呈显著负相关。

关键词 <u>红掌 辐射</u> 酶 MDA

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Effect of Radiation of ⁶⁰Co-**y** Ray on Some Enzyme Activities and MDA Content of *Anthurium adndracanum*

YAN Fang-fang, QIANG Ji-ye

(Faculty of Tobacco Science, Y A U, Kunming 650201, China)

Abstract

We studied the effects of irradiation of ⁶⁰Co-γ ray on some enzyme activity and MDA content of *Anthurium adndracanum*. The results showed that after treated with irradiation of ⁶⁰Co-γ Ray, The MDA content, SOD activity, POD activity increased and at the treatment of 50Gy they reached the maximum; PPO and CAT activity come to the head at treatment of 20Gy, 90Gy and were 1.75 and 1.25 times of CK respectively; There was a significant positive correlation between SOD activity and MDA content, between SOD activity and POD activity also, but the correlation between the CAT activity and MDA content was negative.

Key words Anthurium adndraeanum irradiation some enzyme MDA content

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