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#### 论文

樟脑胺氯乙酸铂对DNA模板的影响

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摘要:

本文报道樟脑胺氯乙酸铂(camphoramine chloroacetic platinum,CCP)对DNA模扳的影响。采用同位素、紫外光谱,粘度测定等技术,分析和讨论了CCP与DNA结合方式和对DNA二级结构的影响。结果表明,CCP可能以顺式双配位基形式与DNA发生共价结合,产生链内及链间交联,从而损伤了DNA模板,使DNA对碱及温度的敏感性增加,分子变短,粘度下降,最终抑制了DNA复制。

关键词: 樟脑胺氯乙酸铂 DNA模板 共价及非共价结合 DNA二级结构

### EFFECTS OF CAMPHORAMINE CHLOROACETIC PLATINUM (CCP) ON DNA TEMPLATE

WANG Long-Gui; LIU Xiao-Mei and JI Xiu-Juan

#### Abstract:

In this paper, the effects of camphoramine chloroacetic platinum (CCP) on DNA template are reported. The mode of action and effects of CCP on DNA secondary structure were analysed by using isotope, UV spectra and viscosity techniques. Experimental results showed that CCP damages DNA template by binding to DNA both covalently and noncovalently, which further results in DNA interstrand and intrastrand corsslinking, destablizing DNA secondary structure such as shortening the molecules, decreasing viscosity, increasing sensitivity to temperature and pH. This suggests that CCP seems to from a cis-bidentate complex with DNA and finally inhibit DNA replication.

Keywords: DNA template Binding covalently and noncovalently: DNA secondary structure Camphoramine chloroacetic platinum

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