

大鼠部分肝切除前后热激处理对过氧化物酶基因表达的影响 Expression Difference of the Peroxidase Genes in Partial Hepatectomy and Heat Shock

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摘要 用过氧化物酶原位复性电泳(SDS-POD-PAGE)技术分析了部分肝切除(partial hepatectomy, PH)、部分肝切除后再热激(partial hepatectomy following heat shock, PH-HS)和先热激再部分肝切除(heat shock following partial hepatectomy, HS-PH)后肝再生期间过氧化物酶(POD)基因表达差异,结果表明,PH中表达的POD基因种类(7个)>PH-HS(5个)>HS-PH(3个);三个模型的POD总活性为:HS-PH>PH>PH-HS。根据实验结果推测,POD在肝再生和肝损伤恢复中起一定作用。

Abstract: Expression difference of the peroxidase(POD) genes during liver regeneration after partial hepatectomy(PH), partial hepatectomy following heat shock(PH-HS) and heat shock following partial hepatectomy(HS-PH) was analyzed by POD renatured electrophoresis(SDS-POD-PAGE). The results showed that the expressed POD gene kinds in PH, PH-HS and HS-PH were 7, 5 and 3 respectively, and that the total activities of POD in the three models were HS-PH>PH>PH-HS. The results suggested that POD play some roles during liver regeneration and in recovery after liver damage.

关键词 [部分肝切除\(PH\)](#) [热激\(HS\)](#) [过氧化物酶\(POD\)](#) [等位酶](#) [诱导酶](#) [肝再](#) [Key words](#) [partial hepatectomy\(PH\)](#) [heat shock\(HS\)](#) [peroxidase\(POD\)](#) [allelic enzyme](#) [induced enzyme](#) [liver regeneration](#)

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