

# **Evaluation of the Hepatic and Renal-protective Effects of Ganoderma lucidum in Mice**

林松洲

Ying-Hua Shieh; Chi-Feng Liu; Yao--Kuan Huang; Jen-Yuann

Yang; I-Lin Wu; Chia-Hsien Lin and Song-chow Lin

摘要

## **Abstract**

The antioxidative effect of hot water extract of the mushroom *Ganoderma lucidum* on ethanol-induced free radical generation had been studied. In order to further investigate the hepatic and renal protective mechanism of *Ganoderma lucidum*, rates of lipid peroxidation were determined. The hot water extract of *Ganoderma lucidum* dose-dependently exhibited antioxidative effect on mouse liver and kidney lipid peroxidation; our results indicated that hepatic and renal homogenates have a higher malonic dialdehyde level in an ethanol administered group than in the *Ganoderma lucidum* treated group. It was concluded that the hepatic and renal protective mechanism of *Ganoderma lucidum*, might be due at least in part to its prominent superoxide scavenging effect. *Ganoderma* extract could protect the liver and kidney from superoxide induced hepatic and renal damages