



---

# thymoquinone ameliorates the immunological and histological changes induced by exposure to imidacloprid insecticide.

Mohany M, El-Feki M, Refaat I, Garraud O, Badr G.

## Abstract:

Previous studies have shown that thymoquinone (TQ) exerts protective effects in some models of pesticide-induced immunotoxicity. However, no data exist regarding its possible modulatory effect during imidacloprid (IC)-induced toxicity. Therefore, the aim of this study was to investigate the impact of TQ on IC-induced immunotoxicity. Sixty adult male albino rats were divided into three groups of twenty animals each. The control group was given distilled water orally, while the IC-treated group was orally administered 0.01 LD<sub>50</sub> (0.21 mg/kg body weight) of IC insecticide daily for 28 days. The animals in the third group (IC/TQ group) received the same IC dose as the IC-treated group for 28 days in addition to an intraperitoneal (I.P.) injection of TQ (1 mg/kg) once every 7 days. We found that IC induced significant increases (P

## Published In:

J Toxicol Sci. , 37(1) , 1-11.