The Effect of Ginger Plant (*Zingiber officinale*) Aqueous Extract on Function and Histological Structure of Kidney in Mice Treated with Carbon Tetrachloride

Israa Salim Abdulhameed*1, Dalya Faiz Hashim Al-Mohamadamin2, Asmaa Basheer Abed1, Wijdan Basheer Abid1

1Department of Biology, College of Education for Pure Science (Ibn Al-Haitham) University of Baghdad
2Institute of Biomedical Technologies, Auckland University of Technology, Auckland, New Zealand

**Abstract**: The percent work was designed to determine the effect of ginger plant aqueous extract on function and histological structure of kidney in mice treated with carbon tetrachloride (CCl4). Ginger plant caused a protective effect against CCl4 induced kidney damage and improved the kidney weight and biochemical parameters including urea, uric acid and creatinine. The ginger plant has a protective effect against injury in the kidney of mice treated with CCL4, because the ginger plant protects the tissues of kidney from toxic effect of CCL4. The kidney of CCL4 treated mice showed many histological alterations in the kidney included: atrophy, vascular degeneration and hemorrhage, death cell, degeneration of epithelial cells, destruction of basement membrane and reduce of interstitial connective tissue.

**Key words**: Kidney, CCl4, Urea.

---


****