

**THE PREVENTIVE EFFECT OF OKRA (*Abelmoschus esculentus L.*) ON
THE LIVER OF MICE (*Mus musculus*) INDUCED BY METHYL
MERCURY**

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ABSTRACT

This research was carrying out to study the preventive effect of okra (*Abelmoschus esculentus L.*) on the liver of Mice (*Mus Musculus*) induced by Methyl Mercury. Twenty male mice were divided into four groups, each treatment group included five mice and administered through orally for 30 days. The treatments were group C- (0.3 ml distilled water + 0.5 ml of CMCNa 0.5% solution), group C+ (0.0028 mg / KgBW Methyl Mercury + 0.5 ml of CMCNa 0.5% solution), group T1 and T2 (350, 700 mg / KgBW ethanolic extract of okra + 0.0028 mg / KgBW Methyl Mercury). After all the treatments for 30 days consecutively, histopathological evaluation was done by calculating the liver hepatocyte cells preparation. The data was analyzed by using Duncan's test and One Way Annova. The research results showed significant difference ($p < 0.05$) among all the treatment groups. Based on research that has been done, it can be concluded that the ethanolic extract of okra can act as an antioxidant to reduce the liver damage caused by free radicals of exposure to Methyl Mercury from histopathology picture.

Keywords: Ethanolic extract of Okra, Methyl Mercury, Toxicity, *Mus musculus*,
liver