

**EFFECT OF *Moringa oleifera* LEAVES EXTRACT ON THE
HISTOPATHOLOGICAL FEATURES OF KIDNEY
PROXIMAL TUBULES IN MICE (*Mus musculus*)
INDUCED BY METHYLMERCURY**

Rachmi Dwiani Siti Annisa

ABSTRACT

This research aimed to investigate the protective effect of *Moringa oleifera* leaves extract on histopathological changes of kidney proximal tubules induced by methylmercury in mice (*Mus musculus*). Twenty five male mice were divided into five groups and administered orally with different treatments for 21 days. C- (0.2 ml Na-CMC solution), C+ (0.4 mg/kg bw methylmercury), T1, T2, and T3 (200, 400, and 600 mg/kg bw *Moringa oleifera* leaves extract respectively + 0.4 mg/kg bw of methylmercury). The histopathological features of kidney proximal tubules were examined by using Modified Arshad Scoring method. Then, Kruskal-Wallis test followed with Mann-Whitney test of statistical analyses showed that *Moringa oleifera* leaves extract could protect kidney proximal tubules exposed methylmercury in mice (*Mus musculus*). The best dose of *Moringa oleifera* in this research was 400 mg/kg bw.

Keywords: *Moringa oleifera*, Methylmercury, *Mus musculus*, kidney proximal tubules