

**THE EFFECT OF *Musa acuminata* SKINS EXTRACT ON THE AMOUNT OF
Mus musculus SPERMATOGONIA CELLS, PRIMARY SPERMATOCYTE
AND SERTOLI CELLS WHICH ARE EXPOSED WITH
CIGARETTE SMOKE**

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ABSTRACT

The aim of this research was investigated the effect of *Musa acuminata* skins extract to maintain the amount of *Mus musculus* spermatogonia cells, primary spermatocyte and sertoli cells which were exposed with cigarette smoke. 20 male mice aged 8-12 weeks with body weights ranging from 20-25 grams were used. These animals were divided into five groups and each group contains four mice. K- was not given any treatment, K+ was exposed with one cigarette smoke a day and then treated with aquadest. P1, P2 and P3 were exposed to one cigarette smoke a day and then treated with *Musa acuminata* skins extract as much as 14, 28 and 56 mg/kgBW. This research has been carried on 52 days. The data were tested by the Kolmogorov-Smirnov test and then analyzed using ANOVA (Analysis of Variants) then followed by Duncan Multiple Range test with a significance level of 5% from SPSS 20 for Windows because there were differences between treatments. The results showed that there was significant differences ($P < 0.05$) between P1 with K- and K+, P2 with K + and P3 with K-. The conclusion of this research was dose 28 mg/kgBW of *Musa acuminata* skin extract can be the optimal dose to maintain the amount of *Mus musculus* spermatogonia cells, primary spermatocyte and sertoli cells which were exposed with cigarette smoke.

Key words : *Musa acuminata*, spermatogonia cell, spermatocyte, sertoli cell.