

**THE EFFECT OF KEPOK BANANA PEEL EXTRACT
(*musa acuminata*) TOWARD THE NUMBER OF
MACROPHAGE ALVEOLAR CELL AND
GREAT ALVEOLAR CELL OF MALE
MICE'S (*mus musculus*) LUNG
WHICH EXPOSED WITH
CIGARETTE SMOKE**

M. Rajif Ramadhan

ABSTRACT

Smoking is an activity done by various societies, various ages, and various economy status. Although the society aware about the danger caused by smoking, but the joy causing lot of people forgot the dangers inflicted toward themselves, environment and animal. This research aims was to determine the effect of Kepok banana peel extract (*Musa acuminata*) toward the number of macrophage alveolar cell and great alveolar cell of male mice's (*Mus musculus*) lungs exposed with cigarette smoke. The research was done with 7 days of adaptation, 14 days of smoke cigarette exposure and next 14 days used for giving Kepok banana peel extract and vitamin C. this research used 20 male mice (*Mus musculus*) 8-12 weeks old, body weight about 20 - 25 gram, with six kinds of treatment and 4 times of repetition i.e K- (non-exposed, non extract given), K+ (smoke exposed, non extract given), KO (smoke exposed, given vitamin C 0.3 mg/Kg BW), P1 (smoke exposed, given extract 14 mg/kg BW) P2 (smoke exposed, given extract 28 mg/Kg BW) and P3 (smoke exposed, given extract 56 mg/Kg BW). The data were analyzed with Analysis of Variance (ANOVA) and continued with multiple range test Duncan with 5% of significant level for any difference in each treatment. The result showed that kepok banana peel extract able to maintain the number of macrophage alveolar cell and great alveolar cell of male mice's (*mus musculus*) lung exposed to ciggarete smoke. The effective dose of the extract is 28 mg/Kg BW.

Keyword : *Musa acuminata*, lung, cigarette smoke