

**THE EFFECT OF YACON'S LEAVES (*Smallanthus sonchifolius*)
EXTRACT ON HISTOLOGICAL SEMINIFEROUS TUBULE
OF WHITE RAT EXPOSED BY ALLOXAN INDUCTION**

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ABSTRACT

The aim of this research was to know the effect of yacon's leaves (*S. sonchifolius*) extract can reform the histological seminiferous tubule of white rat (*Rattus norvegicus*) exposed by alloxan induction. Alloxan were intraperitoneally injected 120 mg/kgBW as single dose. A total of twenty three-month-old male rats were used in study. The rats were divided into five groups, 1) negative control group (K-) without alloxan induction and given with CMC Na 0.5% 0,01 ml/gBW, 2) positive control group (K+) within alloxan induction and given with CMC Na 0.5% 0.01 ml/gBW, 3) within alloxan induction and extract of *Smallanthus sonchifolius* 200 mg/kgBW (P1), 4) within alloxan induction and extract of *Smallanthus sonchifolius* 400 mg/kgBW (P2), 5) within alloxan induction and extract of *Smallanthus sonchifolius* 800 mg/kgBW (P3). Rats were treated for 28 days. The data of this study was analyzed by Kruskal-wallis and followed with Mann-withney test. The result of this study is *Smallanthus sonchifolius* can reform the histological seminiferous tubule of white rat (*Rattus norvegicus*) exposed by alloxan induction. The increased dose of ethanol extract of yacon's leaves was not effective to reform the histological seminiferous tubule of white rat (*Rattus norvegicus*) Wistar strain induced by alloxan.

Key words : *Smallanthus sonchifolius*, alloxan, seminiferous tubule, white rat.