

THE EFFECT OF *Fusarium graminearum* EXPOSURE OF THE SEMINIFEROUS TUBULES HISTOPATHOLOGICAL OF MICE (*Mus musculus*)

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ABSTRACT

The aim of this research was to show the influence of seminiferous tubules histopathology of mice (*Mus musculus*) caused *Fusarium graminearum* exposure. This research was done in April-May 2017 in Microbiology Laboratory Faculty of Science and Technology, Animal Laboratory, and Microbiology Laboratory Faculty of Veterinary Medicine Universitas Airlangga. This research used 20 male mice (*Mus musculus*) aged 6 weeks with 18-30 gram body weight. The mice divided into four groups: P0 given 0,25 ml *Sodium chloride* without *Fusarium graminearum* exposure by oral; P1 given 0,25 ml *Fusarium graminearum* exposure with dilution 10^2 by oral; P2 given 0,25 ml *Fusarium graminearum* exposure with dilution 10^3 by oral; and P3 given 0,25 ml *Fusarium graminearum* exposure with dilution 10^4 by oral. This treatment carried out for 21 days. Each milliliter dilution containing 228×10^6 spore for P1, 228×10^7 spore for P2, and 228×10^8 spore for P3. Then do the surgery and harvesting the testes then performed histopathological examination by scoring of seminiferous tubules. For data analyzing used non parametric difference *Kruskall-Wallis* and continued with *Mann-Whitney*. The result of this research was showed that decreased the spermatogenic cells in the process of spermatogenesis significant.

Key words : *Fusarium graminearum*, zearalenone, seminiferous tubules, mice, *Mus musculus*.