ABSTRACT

Latifah, Ifa Nurul. 2010. The influence of giving ginger (Zingiber officinale) extract to the amounts of neucrosis cells in the glomerulus and tubulus of the Allethrin-flatted Rattus norvegicus’ adrenal. Skripsi, Departement of Biology, Faculty of Science and Technology, The State Istamic Universiy Maulana Malik Ibrahim of Malang. Advisor: Kiptiyah, M. Si. and Dr. Munirul Abidin, M. Ag.

Key Words: Ginger (Zingiber officinale), Histological Adrenal, Allethrin

Ginger (Zingiber officinale) is plant of spices which consist of bioactive compounds such as gingerol, oleoresin, zingiron, shogaol. The four of which are fenolic compounds with the quality of antioxidant as a free radical-damper, so that it can protect cells from an oxidative destruction. These are of what encourage the researcher to investigate the effect of giving ginger (Zingiber officinale) extract to the histological description of the Allethrin-flatted Rattus norvegicus’ adrenal.

This research is an experimental investigation uses Complete Random Plan (CRP) with four repetitions. The treatments used are Rattus norvegicus without a negative control (-) treatment, and the flatted Allethrin treatment which it is as a positive control (+), as well as ginger extract treatment with dosis 100, 125, 150, 175, 200 mg/kg BW with a flatted Allethrin. The research itself started from May until July of 2010 in the Laboratory of Biology Department, Faculty of Science and Technology UIN Maliki Malang.

The data obtained then is analyzed by one way Anova with 1% significant level. Afterward, the Lowest 1% Real-Difference Test is used to investigate the distinction on every treatment. The result of this research shows that there are effects of giving ginger extract to the amounts of neucrosis cells in the glomerulus and tubulus of Rattus norvegicus.