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Herewith we certify,

Lillis Suryani

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**ICOLIB**  
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# ICOLIB

International Conference on Life Sciences and Biotechnology



## EXPLORATION AND CONSERVATION OF BIODIVERSITY

The ICOLIB 2015 focuses on life sciences and biotechnology aspects to explore and conserve biodiversity by bringing together investigators from different fields such as health and medical, agriculture, food technology and security, new and renewable energy, and conservation management including exploration of biodiversity

Aston Jember Hotel  
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Jember - Indonesia, 28-29 September 2015



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Genetics Science



## PREVALENCE OF LEPTOSPIROSIS IN HOUSE RAT

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## Abstract

Leptospirosis is a zoonotic disease, transmitted by domestic animals and rodents. Rats are one of the rodent carriers of *Leptospira* bacteria. Rats are often found around the settlements, as *Bandicota bengalensis*, *Rattus norvegicus* and *Mus musculus*. Some rat-borne diseases such as plague, scrub typhus and leptospirosis. The aim of this study was to determine prevalence and the types of rats as the carrying *Leptospira* in Yogyakarta city. This study is an observational method with cross sectional design. The research included trapping and identification of house rats, examination of *Leptospira* in rats. A total of 200 traps installed in all districts of Yogyakarta city, which leptospirosis cases reported between 2011-2013. The blood and kidneys rats were taken for leptospirosis examination by Polymerase Chain Reaction. The research indicated that rats were captured amounted to 172, consisting outdoors were 18% and 82% indoors. There are three species rats that had been identified, i.e. *R. tanezumi* 82%, *Suncus murinus* 3.5% and *B. bengalensis* 14.5%. The prevalence of leptospirosis in rats were 12.7%.

**Keywords:** zoonosis, *Bandicota*, *Rattus*, *Suncus*

## EFFECTS OF ANTIOXIDANT DIFFERENTIAL STORAGE AT REFRIGERATION ON SPERM QUALITY OF BRA

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## Abstract

Spermatozoa storage at low and room temperature radicals. Effort to minimize the effects of free radical antioxidant (control), CEP with vitamin E, CEP with glutathione. Sperm motility was evaluated subjectively showed significant difference ( $p < 0.05$ ) between control were the addition of vitamin C and glutathione. Conclusion had difference effect to sperm quality during storage.

**Keywords:** antioxidant, sperm quality, CEP diluent, B