

**IDENTIFICATION of SPERM MEMBRANE PROTEINS
of *Macaca fascicularis* INFECTED WITH H5N1 SUBTYPE
AVIAN INFLUENZA VIRUS**

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ABSTRACT

The study aimed to finding out of membrane protein of sperm cell from infected H5N1 of *Macaca fascicularis*. SDS-PAGE was the method of this study. The sample of the study was taken through several stages. Use of electroejaculator, at this stage the *Macaca fascicularis* was still alive. Subsequently, using centrifugation technique, the spermatozoa protein had been separated and identified by SDS-PAGE method. The obtained protein bands were read based on their molecular weights. The result of the protein molecular weight of spermatozoa cell membrane from the control of *Macaca fascicularis* were 159,36 kDa, 128,29 kDa, 95,16 kDa, 70,58 kDa, 48,27 kDa, 29,62 kDa, 21,38 kDa, and 11,38 kDa. The result of the protein molecular weight of sperm cell membrane from the infected H5N1 of *Macaca fascicularis* were 128,29 kDa, 70,58 kDa, and 29,62 kDa. It showed that there were differences protein of sperm cell membrane between the control of *Macaca fascicularis* and the infected H5N1 of *Macaca fascicularis* that were seen on the molecular weight of 159,36 kDa, 95,16 kDa, 48,27 kDa, 21,38 kDa dan 11,14 kDa. The main possibility of the loss of five proteins had been caused by the infected of H5N1 virus to the *Macaca fascicularis*.

Key word: *Macaca fascicularis*, membrane protein of sperm cell, *Avian Influenza*, SDS-PAGE.