

**EFFECTS OF ECP ON THE STIMULATION OF LEUCOCYTE NUMBER
AND PHAGOCYTOSIS OF JAPANESE EEL *Anguilla japonica* AGAINST
Edwardsiella tarda NUF251**

Hari Suprpto

Faculty of Veterinary Medicine, Airlangga University
Kampus C Mulyorejo, Surabaya 60115-Indonesia

ABSTRACT

The Extra Cellular Products (ECP) was rapidly induced leucocyte number compared to Edwardsiella tarda NUF251 in eel blood. The reason could be live cells need time to multiplied in eel body whereas the ECP composed of high protein therefore induce the leucocyte production in short time. The number of leucocyte in eel blood were not different between inactivated ECP and control eels. Although the leucocyte number increased gradually in live cells injected eel but have not correlation to increasing Phagocytosis Index (PI) in vivo phagocytosis. The PI and Phagocytic Rate (PR) of in vivo phagocytosis relatively constant from 24-96 h post injection.

Keywords : *Anguilla japonica, phagocytes, number of leucocytes, Edwardsiella tarda*