



# ABSTRACT BOOK



## THE 1<sup>ST</sup> IMHO

*International Conference Medical  
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## **TOMBELU EXTRACT (*BACTRONOPHORUS SP*) INHIBITS PLASMODIUM FALSIPARUM METABOLISM IN VITRO**

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### **ABSTRACT**

Malaria is still a serious public health problem in the world, including Indonesia, because it is still found with a fairly high prevalence. Malaria is a pathological condition caused by Plasmodium transmitted through the bite of the Anopheles mosquito. Subjects who live in endemic areas or have had malaria can be carriers of the parasite. Tombelu (*Bactronophorus sp*) is believed by coastal communities to be able to increase stamina and overcome various diseases including malaria. The purpose of the study was to determine the effectiveness of Tombelu extract (*Bactronophorus sp*) in inhibiting the metabolism of Plasmodium falciparum. Method: is quasi-experimental research in vitro. Plasmodium falciparum is obtained from the blood of symptomatic malaria patients identified in subjects in endemic and non-endemic areas. The treatment group was divided into a normal control group (no treatment), and a negative control group. equates, F1 treatment: 10% Tombelu water extract, and F2 treatment: 100% Tombelu water extract. Plasmodium readings were performed at 100 LPB (large field of view). The research was conducted in 2018 in East Kolaka and Kendari City. The data collected is the form of plasmodium falciparum which is identified on a microscope using the thick blood droplet method. Data is processed and analyzed descriptively. Results: Plasmodium falciparum was identified at normal controls: 9 plasmodium forms merozoite, trophozoite, and gametocytes. Plasmodium was identified in the 12th (gametocyte), 40th (2 trophozoites), 60th (3 gametocytes), 72nd (trophozoites), and 90th (2 gametocytes) field of view. On negative control: Plasmodium identified 4 plasmodium forms trophozoite and gametocyte. Tubes added to Tombelu (*Bactronophorus sp*) at dilutions of 10% and 100% were not identified. Conclusion: Administration of Tombelu water extract (*Bactronophorus sp*) at dilutions of 10% and 100 can inhibit the metabolism of Plasmodium of falciparum. Suggestion. It is important to conduct further research to develop the benefits of Tombelu (*Bactronophorus sp*) as a functional food.

**Keywords:** Tombelu, P. falciparum, Tombelu inhibits P. falciparum