

الجامعة السلامية العالمية ماليزيا نتى النالغ انتارا نغسا ملسن

# **IN-VIVO ANTIPARASITIC ASSESSMENT OF** *Allium sativum* (GARLIC) AGAINST **Trypanosoma evansi IN MICE**

### Mohd Shukri Baba and Muhammad Khairul Nizam Abdul Izam

Department of Biomedical Science, Kulliyyah of Allied Health Sciences, International Islamic University, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia.

## INTRODUCTION

Cell morphological changes are frequently used as indirect indicators of the effect of studied materials on targeted cells. Antiparasitic effects of Allium sativum (garlic) aqueous extract was in-vivo compared with antitrypanosomal commercial drug, Berenil, on the growth and survival of haemoflagellate Trypanosoma evansi in mice. Groups of male ICR strain mice were infected with 5.0  $\times$  10<sup>3</sup> *T. evansi* per mouse and daily given pre-, concurrent- or post-infection treatments with 0.1 mL of 15 µg/mL A. sativum per mouse orally. Stained blood smear were examined for evaluation both under light and electron (SEM) observation. The results from this study suggest that A. sativum has a stronger anti-parasitic activity against *T. evansi* by causing the destruction of the cells.





# METHODOLOGY

Allium sativum







### RESULTS

