

**ANTIMICROBIAL AND PHYTOCHEMICALS  
PROPERTIES *OF Arenga pinnata***

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**Final Year Project Report Submitted in  
Partial Fulfillment of the Requirements for the  
Degree of Bachelor of Science (Hons.) Biology  
in the Faculty of Applied Sciences  
Universiti Teknologi MARA**

**JULY 2015**

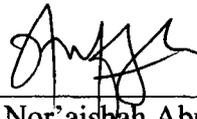
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## ABSTRACT

### ANTIMICROBIAL AND PHYTOCHEMICAL PROPERTIES OF *Arenga pinnata*

Bacterial resistance towards presence antibiotics causes the need for new drugs especially from natural resources. *Arenga pinnata* is a native plant from Kuala Pilah and the lack of study of this plant in antimicrobial activity is resolved here. The study aim to determine the antimicrobial properties of dry and fresh methanolic extract of *A. pinnata* and to determine the phytochemical compound in *A. pinnata*. The result of the study showed that dry methanolic extract of *A. pinnata* show very little antimicrobial activity towards two Gram positive bacteria (*Bacillus subtilis* and *Staphylococcus aureus*) and one Gram negative bacteria (*Escherichia coli*). The fresh methanolic extract of *A. pinnata* showed no antimicrobial activity on any bacteria. Qualitative phytochemical tests for dry and fresh methanolic extract of *A. pinnata* was tested and alkaloids and terpenoids were detected on dry extract while only terpenoids were detected on fresh extract. In conclusion, *A. pinnata* has a low potential to be a new antibiotics.