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**The *in-vitro* anti-methicillin resistant *Staphylococcus aureus* (MRSA) activity of *Garcinia binucao* (Choisy)****Alyanna Maachah P Hipe**

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The use of antibiotics has paved the way for the health improvement of the people, but its use and misuse have also caused several problems which has alarmed the clinical community. Natural products, specifically underutilized and indigenous fruits of the Philippines may have promising effects compared to chemically synthesized antibiotics. *Garcinia binucao*, an evergreen fruit tree, is abundant in the Visayas region and its only known function is as a souring agent among the locals. This study shall identify Batuan's bioactive compounds and screen the fruit and leaf extract against

methicillin-resistant *Staphylococcus aureus* (MRSA), a clinically significant multi-drug resistant pathogen. The fruits and leaves will be procured in Jaro, Iloilo and will be extracted using ethanol and methanol. These crude extracts will be prepared for an antimicrobial susceptibility assay and a time-kill assay. Transmission electron microscopy will be done to observe cell ultrastructure on the extract's exposure to MRSA which, may shed light on the extract's possible mechanism of action.

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