



**A COMPARATIVE STUDY ON THE ANTIMICROBIAL ACTIVITY OF
Musa acuminata (BANANA) AND *Allamanda cathartica* (YELLOW BELL)
FLOWER EXTRACTS AGAINST *Staphylococcus aureus* AND
*Pseudomonas aeruginosa***

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ABSTRACT

This study is conducted to evaluate the inhibitory potentials of *Allamanda cathartica* (Yellow bell) flower and *Musa acuminata* (Banana) blossom crude extracts on *Staphylococcus aureus* and *Pseudomonas aeruginosa* using disk diffusion employed in Kirby-Bauer method. Results show that both plant species are capable of inhibiting the microorganisms. Hence both bacteria compared to the standard susceptibility index of *S. aureus* (>17mm) and *P. aeruginosa* (>12mm) are resistant to the antibacterial components of the plant extracts except for 100% banana blossom extract wherein *P. aeruginosa* is susceptible. There is no significant difference ($p \leq 0.05$) among various concentrations of *Allamanda cathartica* (Yellow bell) flower extracts and the 25% *Musa acuminata* (Banana) blossom extract. However, a significant difference was observed in 75% and 100% banana blossom extracts. This indicates that banana blossom extract contains adequate amount of antimicrobial bioactive components such as tannins, saponins, steroids, alkaloids, flavonoids and phenolic compounds than yellow bell flower extract.



TABLE OF CONTENTS

	PAGE
TITLE PAGE	1
APPROVAL SHEET	2
ACKNOWLEDGMENTS	3
ABSTRACT	4
TABLE OF CONTENTS	5
CHAPTER 1 INTRODUCTION	7
1.1 Background of the Study	7
1.2 Framework of the Study	9
1.3 Statements of the Problem	10
1.4 Hypotheses of the Study	11
1.5 Scope and Limitations of the Study	11
1.6 Significance of the Study	11
1.7 Definition of Terms	13
CHAPTER 2 REVIEW OF RELATED LITERATURE	15
2.1 Conceptual Literature	15
2.2 Related Studies	20
CHAPTER 3 RESEARCH DESIGN AND PROCEDURES	22
3.1 Research Design	22



3.2	Research Setting	22
3.3	Research Procedure	23
3.4	Data Gathering and Statistical Analysis	25
CHAPTER 4 RESULTS AND DISCUSSION		26
4.1	Results	26
4.2	Discussion	27
CHAPTER 5 CONCLUSIONS AND RECOMMENDATIONS		31
5.1	Conclusion	31
5.2	Recommendations	31
CITED REFERENCES		33
APPENDICES		41
A.	STANDARD PROCEDURE	42
B.	PHOTODOCUMENTATION	43
C.	RAW DATA	49
D.	CURRICULUM VITAE	52