



## Table of contents

Table of figures .....	v
Table of tables.....	vii
List of abbreviations .....	viii
Mound morphology, antimicrobial properties and isolation of microorganism from various termite mounds across Kerala: A brief overview.....	1
Abstract.....	1
1. Introduction .....	2
1.2 Hypothesis .....	5
2. Materials and Methods .....	5
2.1 Study area.....	5
2.2 Sample collection .....	5
2.3 Morphological characterization.....	5
2.4 Sample processing.....	23
2.5 Experiment design .....	23
2.5.1 Experiment.....	23
2.5.2 Bacterial culture preparations .....	23
2.6 Antimicrobial assay .....	24
2.7 Mound soil physio-chemical analysis .....	24
2.8 Mound soil microorganism characterization .....	24
2.9 Statistical analysis.....	25
3. Results and discussion.....	25
3.1 Morphological characterization.....	25
3.1.1 Mound1 (M1) .....	25
3.1.2 Mound 2 (M2) .....	25
3.1.3 Mound 3 (M3) .....	28



3.1.4 Mound 4 (M4) .....	28
3.1.5 Mound 5 (M5) .....	28
3.1.6 Mound 6 (M6) .....	28
3.1.7 Mound 7 (M7) .....	28
3.1.8 Mound 8 (M8) .....	28
3.1.9 Mound 9 (M9) .....	29
3.2 Soil characterization and testing .....	29
3.3 Antimicrobial activity.....	29
3.4 Isolation of microorganisms .....	30
4. Conclusions.....	30
Acknowledgements .....	31
References.....	32