

**Diversity, Morphometry and Phylogenetic relationship of  
Orthopterans in Coimbatore, Tamil Nadu, India**

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## **80\_Recommendation**

The present study provides distinctive information of Orthoptera diversity among different host plants, different seasons as well as different regions of the study area and this result would help to assess appropriate and possible strategies for Orthopteran conservation as well as ecosystem management in the future. This study will not only show the species existence in the ecosystem but also explained how different environmental structure affects their composition, morphology and genotype. The study of plant composition among Orthopteran habitats will help to identify the preferable host plant for rearing Orthopteran in the future. Meteorological parameters with grasshopper population can help to understand the correlation between environment and species. This will help to assess the relative success or failure of the reconstruction and the quality of ecosystems. The morphometric and molecular study will provide information about the taxonomy of acridids based on their various morphological features and genetic characteristics. The molecular study proposes novel information among major lineage within selected acridids. Overall, this study added basic knowledge to the diversity, morphometry and molecular evolution of Orthopterans.