

PROJECT SUMMARY

Ref No.: MRIC/IBG3-HI-A018	Title: An Investigation of Mauritian Endemic Plants- Bottle Palm, and Blue Latan Palm for its antimicrobial and Anticancer activities
Local Institution: JSS Academy of Higher Education and Research Mauritius	
Project Leader	
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TECHNICAL ABSTRACT The proposed project, titled "An Investigation of Mauritian Endemic Plants- Bottle Palm, and Blue Latan Palm for their antimicrobial and Anticancer activities.", aims to explore the phytochemical composition and biological activities of three endemic Mauritian palm species: the Bottle Palm (<i>Hyophorbe lagenicaulis</i>) and Blue Latan Palm (<i>Latania loddigesii</i>). These species, unique to Mauritius, are under-researched in terms of their potential medicinal and pharmaceutical applications. The project will involve the extraction and identification of secondary metabolites such as flavonoids, alkaloids, terpenoids, and phenolic compounds. Subsequently, the biological activities of these extracts will be evaluated, focusing on antimicrobial, antioxidant, and anti-inflammatory properties. The aim is to uncover novel bioactive compounds that could be developed into therapeutic agents or nutraceuticals. By combining traditional knowledge and modern phytochemical techniques, this research seeks to contribute to the scientific understanding of Mauritian plant species and their potential in the pharmaceutical industry. Ultimately, the project will enhance the value of Mauritius' biodiversity and promote sustainable use of its endemic flora in the development of new bio-based products.	
Key Words: Mauritius Endemic Plants, Bottle Palm, Blue Latan Palm, Phytochemical Composition, Biological Activities, Anticancer Activities	