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Introduction

According to the WHO, more than 80% of the population uses traditional medicine for primary health needs [1]. More than 120 compounds from plants are now used in modern medicine [2], such as artemether which comes from artemisinin.



Objectives

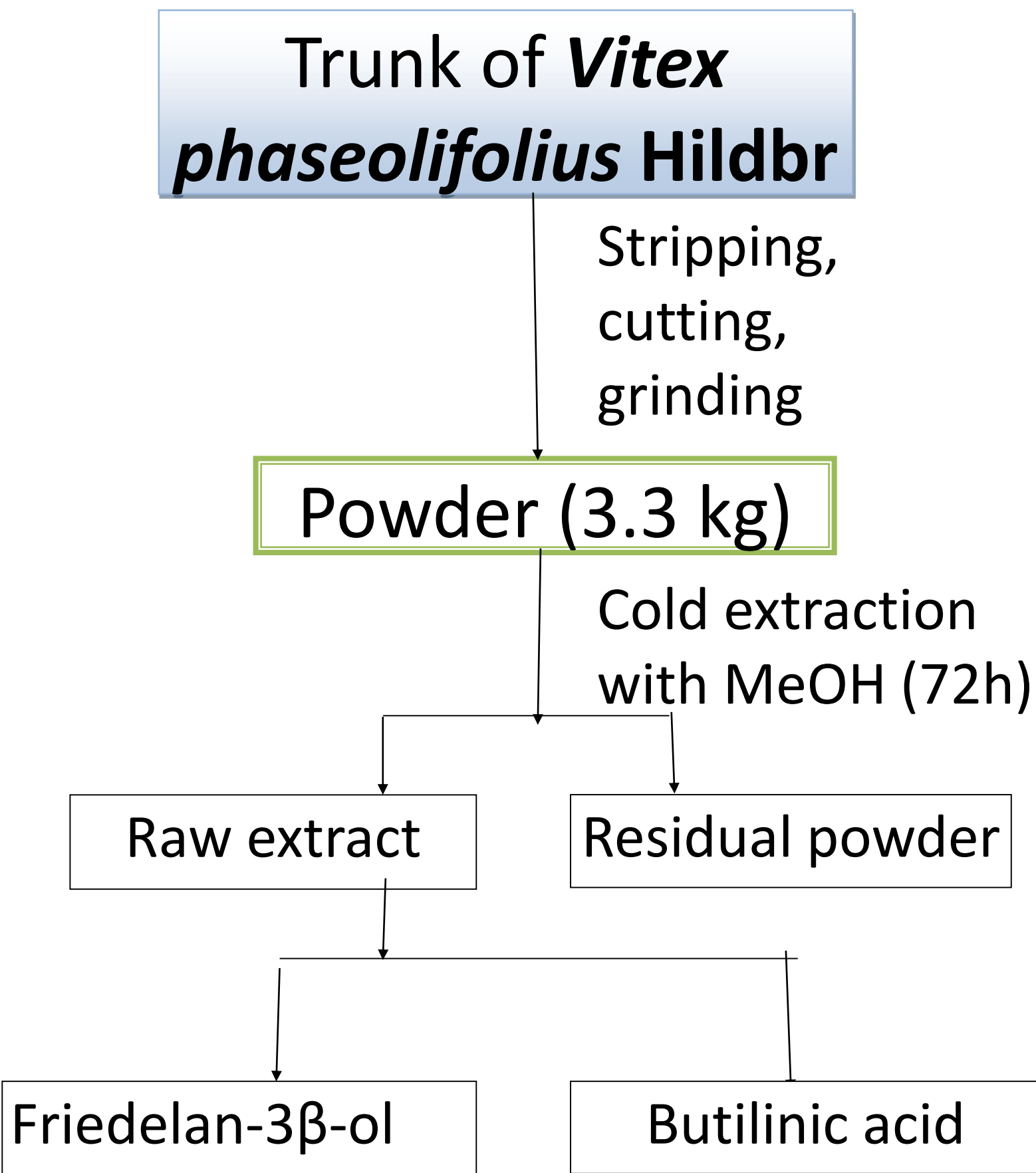
MAIN OBJECTIVE

Contribute to the phytochemical and biological study of the trunk bark of *Vitex phaseolifolius* Hildbr

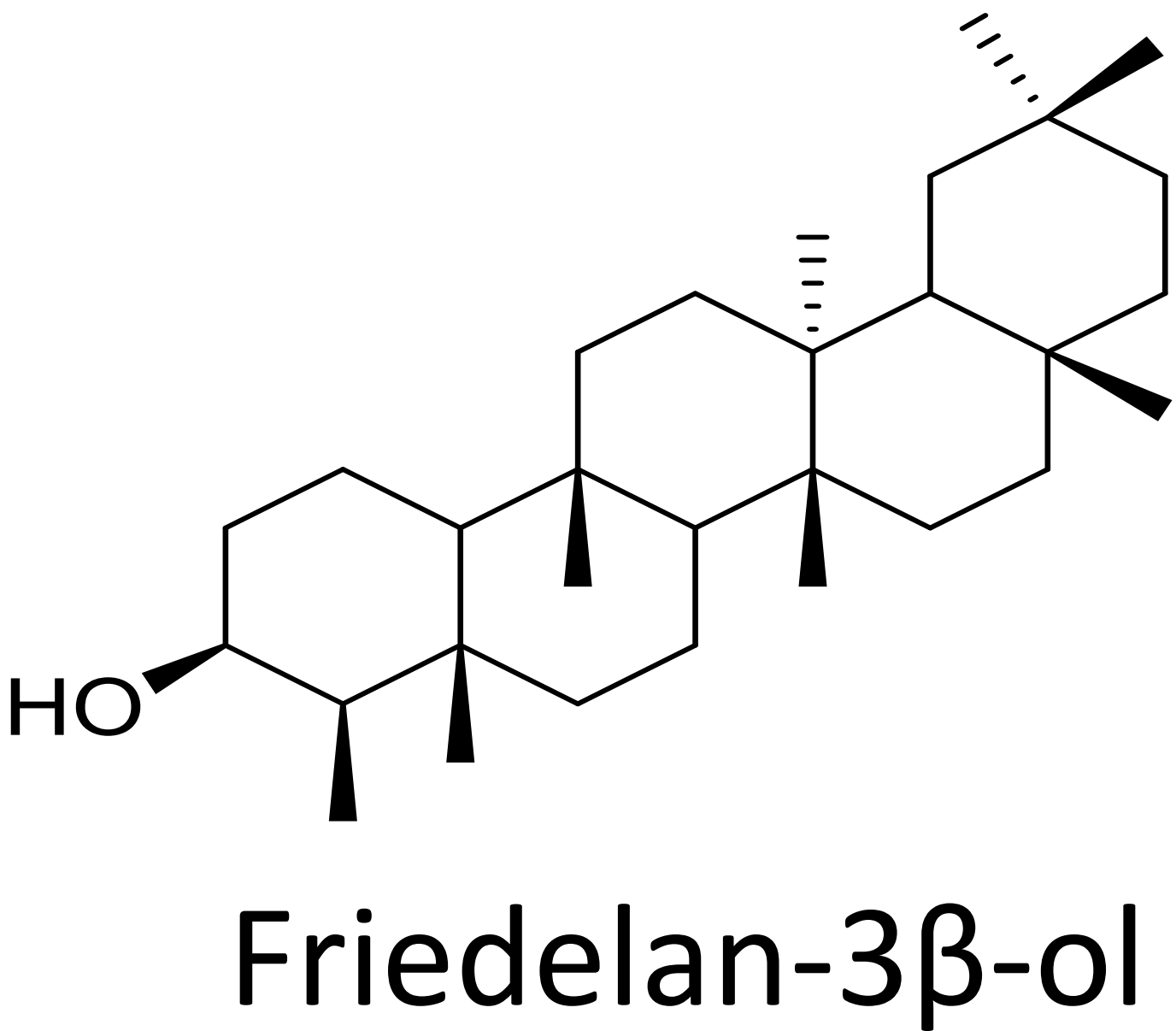
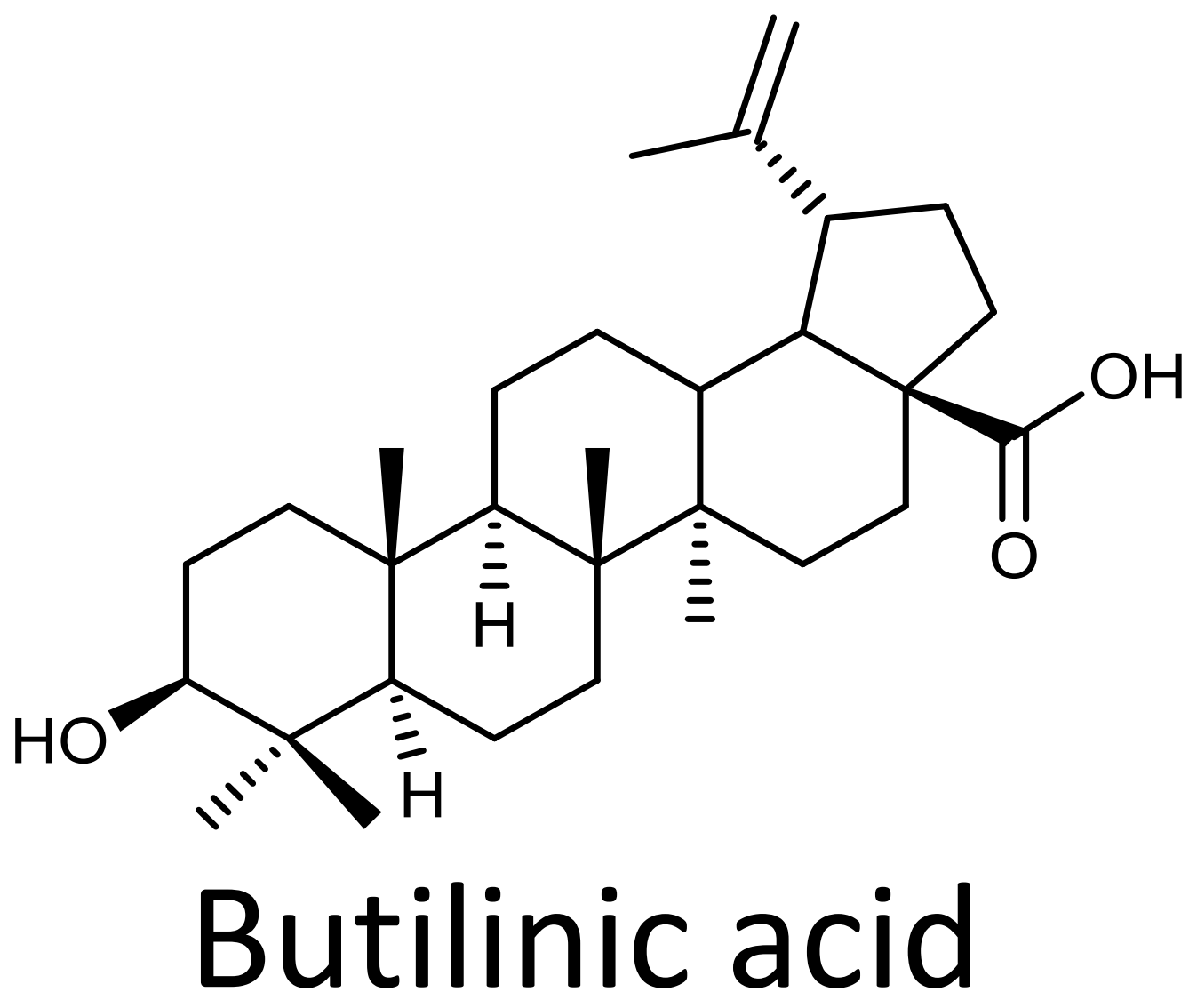
Specific objectives

- Extract, isolate and purify
- Unravel the isolated metabolites' structures
- Assessment of the antibacterial activity of the trunk bark of *Vitex phaseolifolius* Hildbr

Methodology



Results



Crude extract	Antioxidant activity	Percentage of protein denaturation
	IC50 of 5.55 µg/mL	40%.

Perspectives

- Extend our study to other species of the genus
- Assess the *in vivo* toxicity of the ethanolic extract and other compounds in order to establish the structure-activity relationship
- Formulate with a view to obtaining a traditional medicine

References

[1]. Hostettman K, Marston A. Twenty years of research into medicinal plants: results and perspectives. *Phytochemistry Review* 2002; 1: 275-285.
[2] Lhuillier A. Contribution à l'étude phytochimique de quatre plantes malgaches *Agauria salicifolia* Hook.f ex Oliver, *Agauria polyphylla* Baker (*Ericaceae*), *Tambourissa trichophylla*
[3] LiMM, Su XQ, Sun J, Gu YF, Huang Z, Zeng KW, *et al.* Anti-inflammatory Ursane- and Oleanane-Type Triterpenoids from *Vitex negundo* var. *cannabifolia*. *J Nat. Prod* 2014;77:2248-2254.
[4] Govindarajan R, Rastogi S, Vijayakumar M, Shirwaikar A, Rawat AK, Mehrotr S *et al.* Studies on the antioxidant activities of *Desmodium gangeticum*. *Biol. Pharm. Bull* 2003;26(10):1424-1427.

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