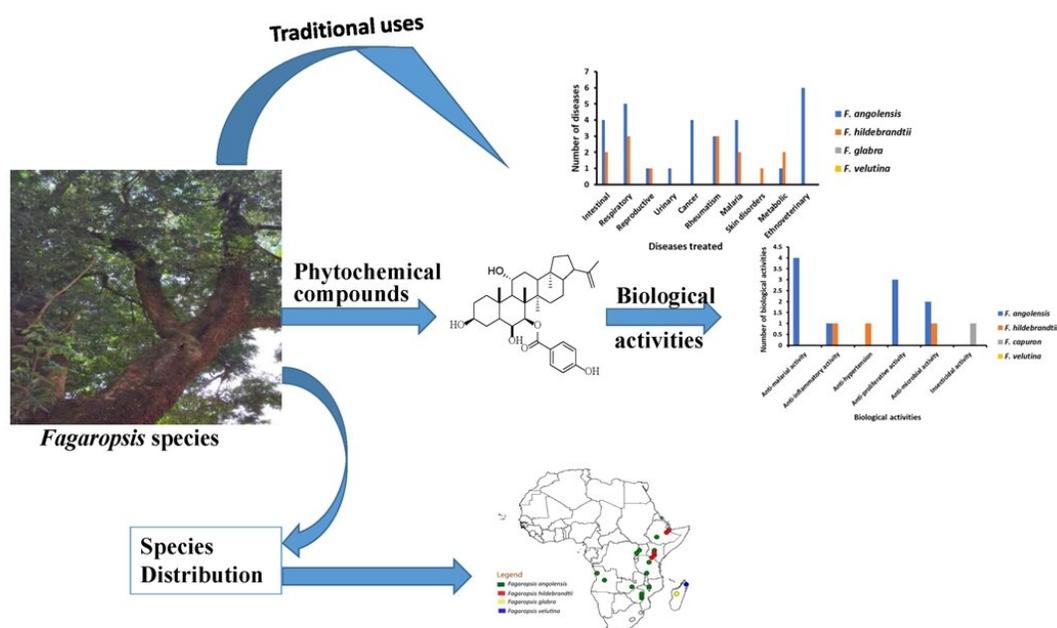


Research enlightens ethnobotanical uses, phytochemistry and pharmacology of genus *Fagaropsis* in Africa

December 23 2021, by Zhang Nannan



Credit: Elizabeth Syowai Mutinda

The genus *Fagaropsis* Mildbr. ex Siebenl. belongs to the Rutaceae family. It consists of four accepted species: *F. hildebrandtii*, *F. angolensis*, *F. glabra*, and *F. velutina*. The plants of this genus are trees and shrubs found in Africa and Madagascar. *Fagaropsis* species have

been used in folkloric medicine for the treatment and management of various diseases, such as malaria, cancer and chronic joint pain.

Researchers from the Wuhan Botanical Garden of the Chinese Academy of Sciences (CAS) and Jomo Kenyatta University of Agriculture and Technology provided inclusive information and made in-depth analyses on the ethnobotanical uses, phytochemistry, and pharmacology of the [species](#) in genus *Fagaropsis* and highlighted possible research gaps for further research opportunities.

Data on ethnobotany, phytochemistry, and pharmacology of *Fagaropsis* species was obtained through a systematic literature search using scientific databases, reports, books, etc.

The researchers isolated 18 compounds from two species (*F. angolensis* and *F. glabra*), including triterpenoids, alkaloids and flavonoids. They confirmed the pharmacological activities of *Fagaropsis* species in anticancer, antimalarial, antimicrobial and antifungal, and anti-inflammatory activities.

Phytochemical analyses have been performed on two species (*F. angolensis* and *F. glabra*) according to the available literature. More [scientific research](#) is required to explore this genus. Moreover, the majority of the currently available bioactivity-related analyses were applied to crude extracts.

Thus, further research is required on the application of medicinal plants in this [genus](#) which will link pharmacological activities to traditional uses and [phytochemistry](#) especially on the under reported species.

The research was published in the *Journal of Ethnopharmacology*.

More information: Elizabeth Syowai Mutinda et al, Traditional

medicinal uses, pharmacology, phytochemistry, and distribution of the Genus *Fagaropsis* (Rutaceae), *Journal of Ethnopharmacology* (2021).
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