

7th Edition of International Conference on

Pharmacognosy and Medicinal Plants

March 11-12, 2019 London, UK

Am J Ethnomed 2019, Volume 6 DOI: 10.21767/2348-9502-C1-009

Chemistry and medicinal properties of *Erythrina brucei* (A medicinal plant of Ethiopia)

Getahun Tadesse Gurmessa I B and Masessane R R T

Majinda Wollega University, Ethiopia

Erythrian brucei is a tree grown only in Ethiopia. It grows up to the height of 15-20 m long with colorful flowers. In different parts of the country the root and stem bark of this plant is used to treat ear infection and other diseases. Previous studies revealed that the flower and seed of *E. brucei* contain biologically active alkaloids; however, there was no report for the nonalkaloidal constituents of this plant. Recently, however we did a comprehensive phytochemical investigation on root bark, stem bark and twigs of the plant concentrated on nonalkaloidal compounds. In the study, we isolated biologically significant compounds and come up with

two new compounds which were not isolated so far from the nature. The identities of the compounds were established based on spectrometric and spectroscopic analysis including MS, 1D and 2D NMR. Resazurin based antibacterial minimum inhibitor concentration (MIC) and DPPH antioxidant assay were carried out on some selected compounds using standard references chloramphenicol and trolox respectively. The tested compounds showed promising antibacterial activity up to (IC50 = 0.0625 mg/mL) and antioxidant activity (IC50 = 1.1µg/mL) comparable to standard references.