

Xanthenes from *Calophyllum gracilipes* and their cytotoxic activity.

ABSTRACT

Extraction and chromatographic isolation of the hexane, chloroform and methanol extracts of stem bark of *Calophyllum gracilipes* has led to the isolation of a new xanthone, gracixanthone (1) and the known zeyloxanthanone (2) and trapezifolixanthone (3) together with three common sterols, namely stigmasterol, friedelin and lupeol. The structures of the compounds were elucidated and established by spectroscopic analysis and compared with the spectral data from literature. The cytotoxicity of the compounds was evaluated and zeyloxanthanone (2) exhibited strong activity towards five cell lines with IC₅₀ values ranging at 8.00-26.00 μ M.

Keyword: *Calophyllum gracilipes*; Gracixanthone; Sterols; Trapezifolixanthone; Zeyloxanthanone