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Isolation and structural elucidation of chemical constituents from stem bark of *Xeromphis nilotica* (Rubiaceae)

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In Africa and in many developing countries, medicinal plants are used in the treatment of various diseases and a large number of people depend on medicinal plants because they have no access to modern medicines. *Xeromphis nilotica* has been reported to possess bone fracture healing, antibacterial, antioxidant, anticonvulsant, anti-nociceptive and anti-inflammatory activities. Many active compounds have been reported from this plant including coumarins, alkaloids, flavonoids, terpenes saponins, Iridoids and other compounds. In the present work, on the basis of chromatographic and spectroscopic [1D, 2D-NMR and HR-ESI-MS] and chemical methods, beside four known compounds lupeol 1, 3 β -hydroxyolean-12-en-28-oic acid 2, stigmasterol 3 and daucosterol 4, we isolated and structurally elucidated new triterpenoid saponin, 3-O- $\{O-\alpha-L$ -rhamno-pyranosyl-(1 \rightarrow 3)-O- $[-O-\beta-D$ -glucopyranosyl-(1 \rightarrow 3)]- $\beta-D$ glucopyranosyl} oleanolic acid 5 from stem bark of *Xeromphis nilotica*.

Biography

Ibrahim Abdurrahman Adam has completed his MSc in Applied Chemistry in 2011 from Hassan II University, Morocco. Presently, he is a PhD student at College of Chemistry and Chemical Engineering, Northwest Normal University, Lanzhou, China. He has more than 12 years of teaching experience at University of Zalingei, Sudan. He has published three papers in international journals of repute.

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