

Exploring Knowledge about Different Pharmacological Activities of *Ficus Thonningii* Blume (Moraceae)

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Abstract: A phytochemical study of *Ficus thonningii* has led to the isolation of two previously unreported compounds, thonningiiflavanonol A and thonningiiflavanonol B together with 16 known compounds: shuterin, naringenin, syringic acid, p-hydroxybenzoic acid, genistein, 5,7,3',4',5'-pentahydroxyflavanone, luteolin, methylparaben, aromadendrin, garbanzol, dihydroquercetin, 5,7,3'-trihydroxyflavanone, β -sitosterol, sitosterolglucoside, lupeol acetate, and taraxerol. Their structures were elucidated on the basis of spectroscopic data. The new compounds and extracts displayed potent antioxidant activity. *Ficus thonningii* is an African ethnomedicine plant used to treat a number of diseases. The nutritional, phytochemical, and pharmacological aspects of *F. thonningii* in relation to its therapeutic purposes are numerous. *Ficus thonningii* contains alkaloids, terpenoids, flavonoids, tannins, active proteins, and active proteins. Continue to identify, isolate, and quantify the active ingredients, as well as their medicinal purposes. Chronic toxicity, toxicology, antineoplastic effects, acute toxicity, hypoglycemic effects, antidiarrheal effects, analgesic effects, anti-inflammatory effects, antioxidants, antifungal activity, antimicrobial effects, antiprotozoal properties etc..

Keywords: antioxidant activity; *Ficus thonningii*; Moraceae; thonningiiflavanonols A and B

REFERENCES

- [1]. Agroforestry Tree Database. 2011. (<http://www.worldagroforestrycentre.org/sea/Products/AFDbases/AF/Asp/speciesInfo.asp?SpID=866>) accessed 03/07/11.
- [2]. Ahur, V.M., Madubunyi, I., Adenkola, A.Y. and Udem, S.C. (2010). The effect of acetyl acetate extract of *Ficus Thonningii* (Blume) leaves on erythrocyte osmotic fragility and haematological parameters in acetaminophentreated rats. Com. Clin. Pathol., 10: 1107-1111.
- [3]. Aibinu, I.E., Akinsule, O.R., Adenipekun, T., Adelowotan, T. and Odugbemi, T. (2007). In vitro antimicrobial Activity of crude extracts from plants *Bryophyllum pinnatum* and *Kalanchoe crenata*. AJTCAM, 4: 338-344.
- [4]. Alawa, J. P., Jokthan, G.E. and Akut, K. (2002). Ethnoveterinary medical practice for ruminants in the sub-humid Zone of the northern Nigeria. Prev. Vet. Med., 54: 79-90.
- [5]. Aniagu, S.O., Nwinyi, F.C., Akumka, D.D., Agbain, E.O., Dzarma, S., Ajoku, P., Adelusola, K.A., Ibe, J., Inyang, U.S. and Gamaniel, K.S. (2008). Short term toxicity studies of *Ficus thonningii* Blume Moraceae leaf extracts in Rats. Int. J. Food Sci Tech 43: 456-464.
- [6]. Arbonier, M.A. (2004). Trees, Shrubs and Lianas of West African Dry Zones. 2nd edition, Margraf publishers, Netherlands, pp. 412.
- [7]. Bah, S., Diallo, D., Dembele, B. and Paulsen, S. (2006). Ethnopharmacological survey of plants used for the Treatment of schistosomiasis in Niono district, Mali. J. Ethnopharmacol., 105: 387-399.
- [8]. Bamikole, M.A., Ikhatua, U.J., Arigbede, M.O., Babayemi, O.J., Etela, I. (2004). An evaluation of the acceptability
- [9]. As forage, of some nutritive nad antinutritive components of the dry matter degradation profiles of five species of *Ficus*. Trop. Anim. Health Prod., 36: 157-167.



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- [10]. Bamikole, M.A. and Ikhataua, U.J. (2010). Nutritional evaluation of Ficus thonningii-Panicum maximum mixtures In West African dwarf goats. Nutrition and Food Science, 40: 280-288.
- [11]. Baur, J.A. and Sinclair, D.A. (2006). Therapeutic potential of resveratrol: The in vivo evidence. Nat. Rev. DrugDiscov., 5: 493-506.
- [12]. Benzie, I.F.F. and Watchtel-Galor, S. 2011. Herbal Medicine: Biomolecular and Clinical Aspects. 2nd edition. CRC Press, pp. 2.
- [13]. Berg, C.C. (1990). Annotated checklist of the Ficus species of the African floristic region with special reference And a key taxa of southern Africa. Kirkia, 13: 268-269.
- [14]. Burrows, J. and Burrows, S. (2003). Figs of southern and south-central Africa, Umdaus Press. Hatfield, South Africa.
- [15]. Bwititi, P. and Musabayane, C.T. (1997). The effect of plant extracts on plasma glucose in rats. Acta Med Biol., 45: 167-169.
- [16]. Chinsembu, K.C. and Hedimbi, M. (2010). An ethnobotanical survey of plants used to manage HIV/AIDS
- [17]. Opportunistic infections in Katima, Caprivi region, Namibia. J. Ethnobiol. Ethnomed., 6: 25.
- [18]. Coker, M.E., Emikpe, B.O., Adeniyi, B.A. and Budale, B.A. (2009). The inflammatory potential, haematological And histological changes induced in rats due to the administration of methanolic extracts of Ficus thonningii leaves. Afr. J. Pharm., 3: 273-276.