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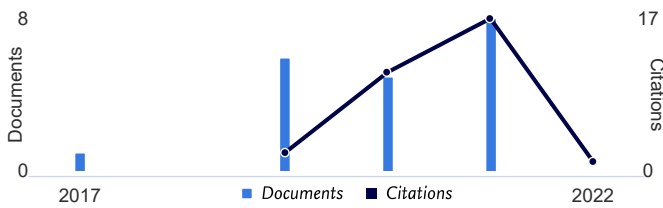
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Hidayati, N., Fuad, H., Munandar, H., ...Darmawati, S., Ethica, S.N.

*IOP Conference Series: Earth and Environmental Science*, 2021, 743(1), 012007

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## Antifungal activities of the rhizome extract of five member zingiberaceae against candida albicans and trichophyton rubrum

[Prastiyanto M.E.<sup>a</sup>](#), [Rohmah N.<sup>a</sup>](#), [Efendi L.<sup>a</sup>](#), [Arifin R.<sup>a</sup>](#), [Wardoyo F.A.<sup>a</sup>](#) [✉](#), [Wilson W.<sup>a</sup>](#),  
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**Abstract**

Fungal infections have now become serious health issues. One of the strategies to avoid the problems of fungal infections is by using natural product from plants that are effective against many human pathogenic fungi. The study portrayed the use of the extracts of plant rhizomes as the alternatives to fight against number of human pathogenic fungi. This research aimed to investigate the antifungal activities of crude ethanol extract of five member of the family Zingiberaceae (*Curcuma longa*, *Alpinia galanga* *Zingiber officinale* var. *rubrum*, *Zingiber officinale* var. *officinatum* and *Zingiber officinale* var. *amarum*), which are widely used as folk medicines against *Candida albicans* and *Trichophyton rubrum*. Crude ethanol extracts of five members of Zingiberaceae were evaluated for their antifungal activities and the results were calculated based on the zones of inhibition using the diffusion method. The

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In vitro antibacterial activities of crude extracts of nine plants on multidrug resistance bacterial isolates of wound infections

Prastiyanto, M.E. , Dewi, N.M.B.A. , Pratiningtias, T.D. (2021) *Biodiversitas*

Seeds extract of three artocarpus species: Their in-vitro antibacterial activities against multidrug-resistant (mdr) escherichia coli isolates from urinary tract infections (utis)

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Cortegiani, A. , Russotto, V. , Raineri, S.M. (2016) *Turk Anesteziyoloji ve Reanimasyon Dernegi Dergisi*

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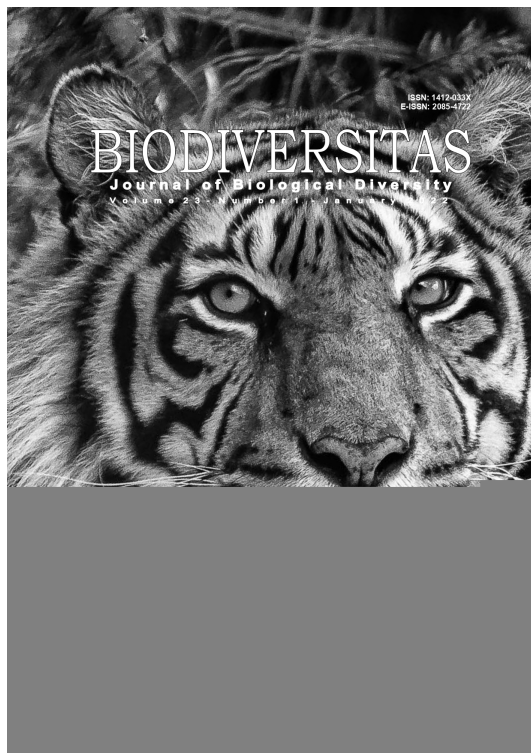
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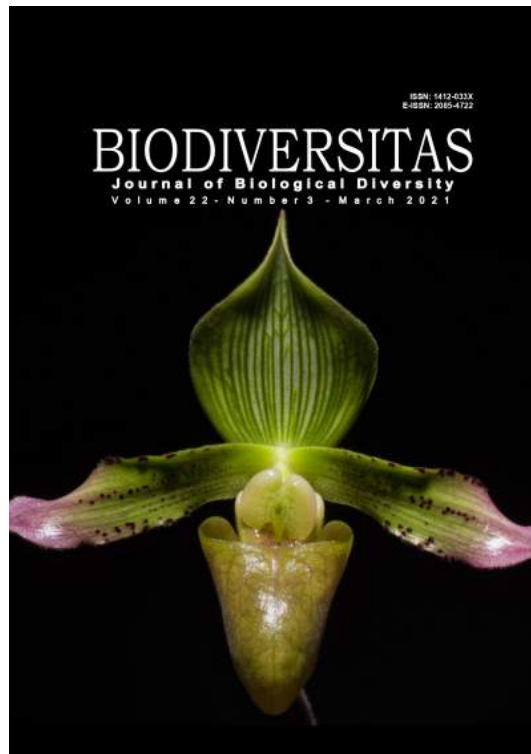
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Indigenous *Streptomyces* spp. isolated from *Cyperus rotundus* rhizosphere indicate high mercuric reductase activity as a potential

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Articles

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**CHATCHAI NGERNSAENGSARUAY**

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## Abstract

**Abstract.** Boonthasak W, Ngernsaengsaruy C. 2021. The genus *Dolichandrone* (Fenzl.) Seem. (Bignoniaceae) in Thailand. *Biodiversitas* 22: 1120-1128. Morphological, anatomical, and palynological studies of the genus *Dolichandrone* (Bignoniaceae) Thailand were conducted. Three species, *D. columnaris* Santisuk, *D. serrulata* (Wall. ex DC.) Seem., and *D. spathacea* (L. f.) Seem. were investigated. Morphological descriptions, distributions and ecological information are provided. A key to the species based on morphological characters are leaflet margins, length of lower cylindrical tube and upper campanulate tube of corolla, width of upper campanulate tube of corolla, winged seed, shape and characters of fruits, width of septum, characters and width of pseudoseptum. *D. columnaris* occurs in low-lying rice fields and marshlands only in the peninsular region. *D. serrulata* occurs in mixed deciduous forest and low-lying rice fields in the eastern, central and peninsular regions. *D. spathacea* occurs in edges of mangrove forest in the central, south-eastern and peninsular regions. A key to the species based on anatomical characters includes leaf type, number of rows of palisade cells, arrangement of axial parenchyma, and height of ray parenchyma. All pollen grains are similar and do not provide characters for identification within the genus *Dolichandrone*.

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# Inhibition of $\alpha$ -amylase and $\alpha$ -glucosidase activities in vitro by extracts of selected medicinal plants



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DOI <https://doi.org/10.13057/biodiv/d220314> (<https://doi.org/10.13057/biodiv/d220314>)

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Articles

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## Abstract

**Abstract.** Pant DR, Aryal B, Pun D, Sharma S, Joshi GP. 2021. Inhibition of  $\alpha$ -amylase and  $\alpha$ -glucosidase activities in vitro by extracts of selected medicinal plants. *Biodiversitas* 22: 1187-1193. Several medicinal plants are being used traditionally in the treatment/management of Diabetes Mellitus (DM). The present work focuses on experimental verification of antidiabetic potential of different medicinal plants that have been reported to be used traditionally to manage DM. Aqueous and methanolic extracts of 12 species of plants were studied for their inhibitory effect on the activities of  $\alpha$ -amylase and  $\alpha$ -glucosidase, two key enzymes of carbohydrate metabolism. The extracts of all the species showed very high degree (nearly 90% or above) of inhibition of  $\alpha$ -amylase irrespective of the extraction solvent. The aqueous extracts of *Asterella wallichiana*, however, showed only 63.60% inhibition of  $\alpha$ -amylase. Except for *Asterella wallichiana*, the percentage inhibition of  $\alpha$ -amylase in aqueous and methanolic solution in all the species tested were almost similar. The percentage inhibition of  $\alpha$ -glucosidase was lower than that of  $\alpha$ -amylase for all the species in both types of extraction medium. The highest percentage inhibition of  $\alpha$ -glucosidase ( $81.13 \pm 1.36$  %) was found in methanolic extracts of *Rhuschinensis*. The inhibition of  $\alpha$ -glucosidase was much higher in methanolic extracts than in aqueous extracts for all the species tested. High degree of inhibition of  $\alpha$ -amylase activity in vitro by the extracts of all the species tested provides scientific basis for using these plants in the management/treatment of diabetes in traditional medicine.

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