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Phytochemistry Vol. 114

Contents

Special Issue: Ganoderma Phytochemistry

EDITORIAL

Editorial for the special issue on Ganoderma

R. Russell M. Paterson*, Nelson Lima

ARTICLES

Global diversity of the Ganoderma lucidum complex (Ganodermataceae, Polyporales) inferred from morphology and multilocus phylogeny

Li-Wei Zhou, Yun Cao, Sheng-Hua Wu, Josef Vlasák, De-Wei Li, Meng-Jie Li, Yu-Cheng Dai*

Ganoderma lingzhi is the most widely cultivated medicinal species within the Ganoderma lucidum complex, within which 13 species have been recognized from morphology and phylogeny.

Failed PCR of Ganoderma type specimens affects nomenclature

R.R.M. Paterson*, N. Lima

Genome analysis of medicinal Ganoderma spp. with plant-pathogenic and saprotrophic life-styles

Ursula Kües, David R. Nelson, Chang Liu*, Guo-Jun Yu, Jianhui Zhang, Jianqin Li, Xin-Cun Wang, Hui Sun

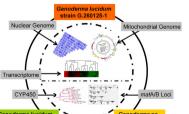
This review carries out a detailed comparison of the nuclear genomes, mitochondrial genomes and transcriptomes from several Ganoderma species. Genes involved in biosynthetic pathways such as CYP450 genes and in cellular development such as matA and matB genes are characterized and compared in detail.

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PHYTOCHEMISTRY







Chemical features of Ganoderma polysaccharides with antioxidant, antitumor and antimicrobial activities

Isabel C.F.R. Ferreira*, Sandrina A. Heleno, Filipa S. Reis, Dejan Stojkovic, Maria João R.P. Queiroz, M. Helena Vasconcelos, Marina Sokovic

This review aims to contribute to the knowledge on bioactivity (antioxidant, antitumor and antimicrobial properties) of polysaccharides, glycoproteins and polysaccharidic extracts obtained from Ganoderma species. The chemical features were analyzed and related with the correspondent bioactivity.

From 2000 years of Ganoderma lucidum to recent developments in nutraceuticals

Karen S. Bishop*, Chi H.J. Kao, Yuanye Xu, Marcus P. Glucina, R. Russell M. Paterson, Lynnette R. Ferguson

A review. Ganoderma lucidum has been revered as a medicinal mushroom to treat assorted diseases and prolong life. Nowadays it is a multi-billion dollar industry.

Secondary metabolites from Ganoderma

Sabulal Baby*, Anil John Johnson, Balaji Govindan

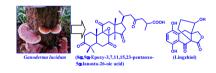
Ganoderma is a genus of medicinal mushrooms. Phytochemical studies led to the isolation of over 380 terpenoids (ganoderic acids, lucidenic acids, meroterpenoids) from genus Ganoderma. More than 30 steroidal compounds were also isolated from the genus. Terpenoids, steroids (and polysaccharides) isolated from Ganoderma showed significant biological activities.

Ganoderma pfeifferi - A European relative of Ganoderma lucidum

Ulrike Lindequist*, Wolf-Dieter Jülich, Sabine Witt

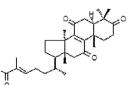
Ganoderma pfeifferi contains farnesylhydroquinones named ganomycins and several triterpenoid compounds. Extracts and some of the isolated compounds possess antibacterial, antiviral and other biological activities.

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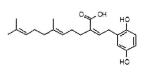


Ganoderma lucidum





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