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Current Pharmaceutical Biotechnology

Volume 17, Issue 12, 2016, Pages 1024-1035

Stereospermum fimbriatum as a potential source of phytochemicals: A review of Stereospermum genus (Review)Awang, A.F.I.^a, Ferdosh, S.^b, Mohamed, Z.I.S.^a, Sheikh, H.I.^c, Ghafoor, K.^d, Yunus, K.^c^a Department of Pharmaceutical Technology, Faculty of Pharmacy, International Islamic University Malaysia, Kuantan Campus, Kuantan, Pahang, Malaysia^b Department of Plant Science, Faculty of Science, International Islamic University Malaysia, Kuantan Campus, Kuantan, Pahang, Malaysia^c Department of Biotechnology, Faculty of Science, International Islamic University Malaysia, Kuantan Campus, Kuantan, Pahang, Malaysia[View additional affiliations](#)[View references \(74\)](#)

Abstract

Stereospermum fimbriatum is one of the medicinal plants that has been claimed to be used traditionally to treat several illnesses such as stomachache, earache, skin irritation and postpartum illness. The genus of this plant is known to possess medicinal properties in every part of the plant. Therapeutic potential of *S. fimbriatum* is anticipated based on numerous previous studies that documented variety of phytochemical contents and bioactivity of the genus. The most reported bioactivities of its genus are antimicrobial, antioxidant, anti-diabetic, anti-inflammatory, anti-diarrheal and analgesic activities. *S. fimbriatum* is a rare species that has not been discovered yet. Thus, this review aims at highlighting the potentials of *S. fimbriatum* by collecting available data on the bioactivities of its genus and set the directions for future research on this plant. © 2016 Bentham Science Publishers.

Author keywords

Bioactive compound; Bioactivity; Extract; Natural product; Phytochemical; Stereospermum fimbriatum

Indexed keywords

EMTREE drug terms: flavonoid; plant extract; plant medicinal product; saponin; Stereospermum fimbriatum extract; tannin; unclassified drug**EMTREE medical terms:** ABTS radical scavenging assay; analgesic activity; antidiabetic activity; anti-diarrheal activity; anti-inflammatory activity; antimicrobial activity; antioxidant activity; biological activity; DPPH radical scavenging assay; drug potentiation; extraction; genus; high performance liquid chromatography; lipid peroxidation assay; minimum inhibitory concentration; nonhuman; phytochemistry; plant; Review; Stereospermum; Stereospermum fimbriatum**Chemicals and CAS Registry Numbers:** saponin, 8047-15-2; tannin, 1401-55-4

ISSN: 13892010 CODEN: CPBUB Source Type: Journal Original language: English

DOI: 10.2174/1389201017666160919163207 Document Type: Review

Publisher: Bentham Science Publishers B.V.

Funding details

Funding number	Funding sponsor	Acronym
0026	King Saud University	KSU

Funding text

The authors extend their appreciation to the International Scientific Partnership Program (ISPP) at King Saud University, Riyadh, Saudi Arabia for funding this work through ISPP# 0026.

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