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Biotransformation of sesquiterpenoids: a recent insight

(2022) *Journal of Asian Natural Products Research*, 24 (2), pp. 103-145. Cited 4 times.

DOI: 10.1080/10286020.2021.1906657

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Abstract

Sesquiterpenoids have been identified as natural compounds showing remarkable biological activities found in medicinal plants. There is great interest in developing methods to obtain sesquiterpenoids derivatives and biotransformation is one of the alternative methods for structural modification of complex sesquiterpenes structures. Biotransformation is a great drug design tool offering high selectivity and green method. The present review describes a comprehensive summary of biotransformation products of sesquiterpenoids and its structural modification utilizing a variety of biocatalysts including microorganisms, plant tissue culture and enzymes. This review covers recent literatures from 2007 until 2020 and highlights the experimental conditions for each biotransformation process. © 2021 Informa UK Limited, trading as Taylor & Francis Group.

Author Keywords

biocatalysts; Biotransformation; drug-design; sesquiterpenoids

Index Keywords

bicyclic sesquiterpene, enzyme, monocyclic sesquiterpene, sesquiterpene, sesquiterpene lactone, sesquiterpenoid, tricyclic sesquiterpene, unclassified drug, sesquiterpene; biocatalyst, biotransformation, drug design, halogenation, marine species, microorganism, nonhuman, plant tissue culture, Review, biotransformation, chemical structure; Biotransformation, Molecular Structure, Sesquiterpenes

Funding details

Ministry of Higher Education, Malaysia MOHEFRGS/1/2018/STG01/UIAM/03/3, FRGS19-029-0637

This work was financially supported by funding from Ministry of Higher Education (MOHE) Malaysia through Fundamental Grant Scheme FRGS19-029-0637 (FRGS/1/2018/STG01/UIAM/03/3).

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Publisher: Taylor and Francis Ltd.

ISSN: 10286020

CODEN: JANRF

PubMed ID: 33783284

Language of Original Document: English

Abbreviated Source Title: J. Asian Nat. Prod. Res.

2-s2.0-85103421857

Document Type: Review

Publication Stage: Final

Source: Scopus