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A Brief Review on the Phytochemistry and Pharmacological Activities of Morinda citrifolia L.
(2024) *Malaysian Journal of Medicine and Health Sciences*, 20 (3), pp. 339-348.

DOI: 10.47836/mjmhs.20.3.45

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Abstract

Morinda citrifolia L., commonly known as mengkudu in Malaysia, is a medicinal plant utilized for thousands of years to treat various health problems. The plant has been widely used in traditional medicine, especially among the Malay community. However, there is little scientific proof of the medicinal properties of the plant. Thus, this review discussed and summarized the latest scientific findings on the phytochemistry and pharmacological activities of *M. citrifolia* L. The research articles were gathered from various electronic databases and following the title, abstract and content screening, a total of 136 articles were selected from SCOPUS (56), Web of Science (25), Science Direct (16), and Google Scholar (39) from 2016 to 2022. The duplicated articles from the databases were then eliminated. Information was gathered from the resulting 45 articles and discussed in this review. The data suggested that phytochemical compounds, mainly from the phenolics and flavonoids classes, found within different parts of the *M. citrifolia* L. plant possessed biological activities, including antibacterial, antioxidant, anti-diabetic, anti-obesity, anticancer, and antihypertensive properties. Factors such as the conditions and solvents used during the extraction process played essential roles in investigating the therapeutic properties of different parts of the plant. Although *M. citrifolia* L. could treat diseases, more clinical trials are needed to understand its therapeutic and preventive effects. © 2024 Universiti Putra Malaysia Press. All rights reserved.

Author Keywords

Mengkudu; *Morinda citrifolia* L.; noni; pharmacological; phytochemical

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Academic press

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Publisher: Universiti Putra Malaysia Press

ISSN: 16758544

Language of Original Document: English

Abbreviated Source Title: Malays. J. Med. Health Sci.

2-s2.0-85194964636

Document Type: Review

Publication Stage: Final

Source: Scopus

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