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Ethnopharmacological uses, phytochemistry, biological activities, and therapeutic applications of *Alpinia oxyphylla* Miquel: A review

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## Abstract

**Ethnopharmacological usages:** Fructus *Alpiniae oxyphyllae* (*A. oxyphylla*) is an important medicinal plant that is used not only as an edible fruit, but also as an important traditional medicine for benefiting cognitive performance and alleviating a wide spectrum of diseases. Such as; warming kidney, securing essence and arresting polyuria, as well as warming the spleen and stopping diarrhea and saliva.

**Aims:** The purpose of this review is to provide updated, comprehensive and categorized information on the traditional uses, phytochemistry and pharmacological research of *A. oxyphylla* in order to explore their therapeutic potential and establish a solid foundation for directing future research.

**Materials and methods:** All the available information on *A. oxyphylla* was collected via electronic search (using Pubmed, SciFinder, Scirus, Google Scholar and Web of Science) and additionally a number of unpublished resources, (e.g. books, PhD and MSc dissertations, government reports).

**Results:** Phytochemical research on *A. oxyphylla* has led to the isolation of components such as essential oils, terpenes, diarylheptanoids, flavones, nucleobases and nucleosides, steroids and others. Crude extracts, fractions and phytochemical constituents isolated from *A. oxyphylla* showed a wide

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