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Basic Study

Acetoclofenac-induced hepatotoxicity: An ameliorative effect of Terminalia bellirica fruit and ellagic acid

Ashutosh Gupta, Abhay K. Pandey

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The fruit contains tannin, β -sitosterol, gallic acid, ellagic acid, ethyl gallate, chebulic acid etc. in various proportions (Sharma et al., 2010). A survey of literature revealed that no scientific study on the cardio-protective effect has been reported on T. bellirica.

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Another study on LPS-stimulated RAW 264 macrophages demonstrated that T. bellirica fruit aqueous extract, pure gallic acid and ellagic acid separately inhibited the expression of inflammatory mediator expression. Fruit aqueous extract significantly reduced LPS-induced mRNA expression of TNF- α , IL-1 β , IL-6, MCP-1, iNOS, and class A scavenger ...

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Background. Plants belonging to the genus *Terminalia* such as *Terminalia bellirica* and *Terminalia sericea* are used traditionally to treat several diseases and health disorders. Up to this date, the roots of *Terminalia sericea* and the fruits of *Terminalia bellirica* are the mostly studied plant parts. The phytochemical composition and the biological activities of the leaves of both species are

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1. Introduction. *Terminalia bellirica* is a deciduous tree that is common in Southeast Asia. In traditional Indian Ayurvedic medicine, the fruit of *Terminalia bellirica* is extensively used as a folk medicine for the treatments of diabetes, hypertension, and rheumatism [1]. The major polyphenolic components of the fruit are reported to be gallic acid, ellagic acid, and chebulagic acid [2].

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Terminalia bellirica (Gaertn.) Roxb. widely grows in Indian subcontinent, including Pakistan, Nepal, is well as South-East Asia. In India, it is popularly known as "Bahera" in Hindi,

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Author: Ashutosh Gupta, Ramesh Kumar, Piy... **Publish Year:** 2020