

## PO-4

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### **Isolation and characterization of bioactive compounds from *Broussonetia papyrifera* (L.) L'Hér. ex Vent.**

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*Broussonetia papyrifera* (L.) L'Hér. ex Vent. (Moraceae), known as paper mulberry, is a deciduous tree naturally occurring in Southeast Asia. Like other plants of the Moraceae family, *B. papyrifera* can be characterized by the presence of prenylated substances that possess various pharmacological effects. Extracts of *B. papyrifera* exhibit antioxidant, anti-inflammatory, antidiabetic and antimicrobial properties.

In the present work, chromatographic separation of chloroform part of ethanolic extract of *B. papyrifera* wood led to the isolation of several phenolic compounds from the group of flavonoids, coumarins, lignans and stilbenoids. The structures of the substances were determined by HRMS, and by 1D and 2D NMR. Currently, the biological activity of isolated compounds is evaluated in *in vitro* assays.