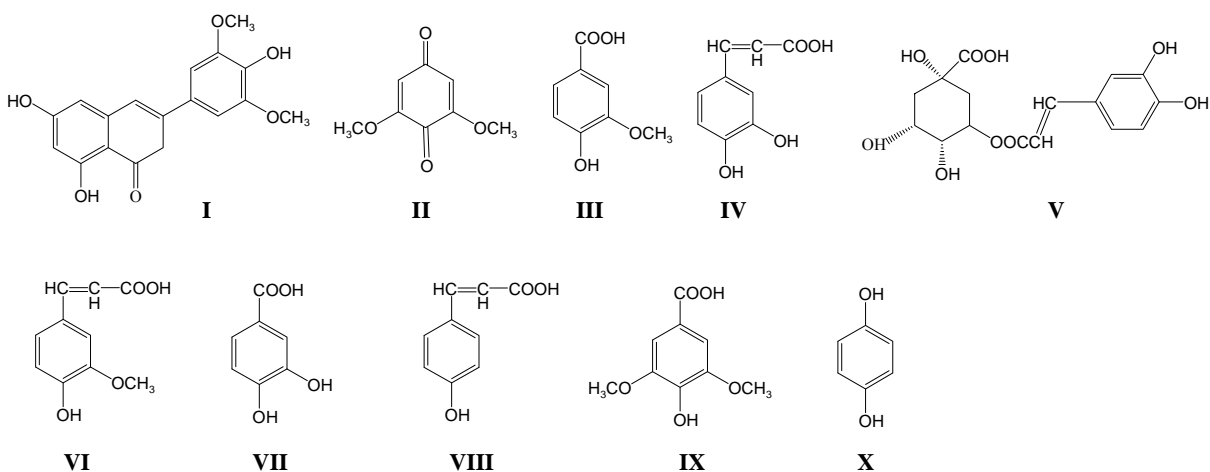


STUDY ON THE CHEMICAL CONSTITUENTS FROM A HEMOSTATIC MEDICINAL PLANT *BLUMEA RIPARIA* (BL.) DC. IN GUANGXI

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Abstract: The experimental samples, *Blumea riparia* (Bl.) DC, were collected from the south of China. *B. riparia* is the single herbal plant of an excellent patent Traditional Chinese Medicine (TCM), *Fu Xue Kang*, which is used for the treatment of vagina bleeding after miscarriage. It has very good activities in following aspects such as hemostasia, antioxidation, acesodyne and the acceleration of womb-restoration. The whole herb of *Blumea riparia* was extracted with H₂O and the extract was separated by solvent partitions to give EtOAc, *n*-BuOH, and water fractions. To test the bioactivity of the fractions, EtOAc fraction exhibited strong hemostatic activity. EtOAc fraction was subjected to silica gel and Sephadex LH-20 column chromatography to give a flavone, seven organic acids, and three other compounds. They were positively identified as 5,7,4'-trihydroxy-3',5'-dimethoxy flavone (I), 2,6-dimethoxy-p-benzoquinone (II), 3-methoxy-4-hydroxybenzoic acid (III), caffeic acid (IV), chlorogenic acid (V), ferulic acid (VI), protocatechuic acid (VII), hydroxycinnamic acid (VIII), 3,5-dimethoxy-4-hydroxybenzoic acid (IX), hydroquinone (X), and a new compound by UV, IR, NMR and MS. All of these compounds were isolated and identified for the first time from *Blumea riparia* (Bl.) DC. Further studies are in progress.



Keywords: *Blumea riparia* (Bl.) DC; hemostatic activity; chemical constituents

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