Chemical Constituents and Bioactivities from the twigs of Severinia buxifolia.

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The family Rutaceae (Sapindales) is distributed over temperate and sub-tropical regions, and more than 160 genuses belong to it. Among them, 13 genuses have been found in Taiwan. *Severinia buxifolia*, a small evergreen tree, is native to southern China and Taiwan. In previous pharmacological studies, *S. buxifolia* was reported to have cytotoxic, anti-bacterial, and antiviral activities. As results of earlier natural product researches, triterpenes, coumarins, acridones, and various phenolic compounds were considered as the major constituents of *S. buxifolia*. In our current investigation, the methanol-soluble layer of the twigs of *S. buxifolia* showed promising anti-inflammatory activity. The purification of *S. buxifolia* led to one new peroxyterpenyl coumarin (1) along with seventeen known compounds (2–18). The structures of these compounds were determined by spectroscopic methods, especially 2D NMR analyses.

HOO. 1