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Revised Structure of a Flavonoid from the Fern *Notholaena aschenborniana*.

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The structure of a flavonoid from the fern *Notholaena aschenborniana*, previously described as 5,4',6'-trihydroxy-6,7,2',3'-tetramethoxyflavone, is revised to 5,2',4'-trihydroxy-3,7,8,5'-tetramethoxyflavone on the basis of current studies on 2'-oxygenated flavonoids. Identity of the natural product with the proposed structure is confirmed by synthesis.

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Flavonoids Syntheses. IV. Syntheses of 2',3,4',5,5',6,7,8-Octaoxygenated Flavones.

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Six trihydroxy-pentamethoxyflavones (2',5,7-trihydroxy-3,4',5',6,8-pentamethoxy-, 2',3,7-trihydroxy-4',5,5',6,8-pentamethoxy-, 4',5,7-trihydroxy-2',3,5',6,8-pentamethoxy-; 3,4',7-trihydroxy-2',5,5',6,8-pentamethoxy-, 5,5',7-trihydroxy-2',3,4',6,8-pentamethoxy-, and 3,5',7-trihydroxy-2',4',5,6,8-pentamethoxyflavone) were synthesized so confirm the structure of 2',5,7-trihydroxy-3,4',5',6,8-pentamethoxyflavone, isolated from *Gutierrezia microcephala*.

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The Chemical Constituents of *Pyrrrosia ligua*

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From the leaves of *Pyrrrosia ligua*, β -sitosterol, kaempferol, quercetin, isoquercitrin, trifolin, chlorogenic acid, and glucose were isolated. The structures were confirmed by comparison with the respective authentic samples.