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[Lab. of Pharmacognosy]

Two Methylated Flavonols from *Jasonia candicans*.

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Two new flavonols, 6,4'-dihydroxy-3,5,7-trimethoxyflavone (6-hydroxykaempferol 3,5,7-trimethylether) and 3'-hydroxy-3,5,7,4'-tetramethoxyflavone (quercetagenin-3,5,7,4'-tetramethyl ether) were isolated from the leaves of *Jasonia candicans* (Compositae) in addition to luteolin, isokaempferide, penduletin, jacedin and methyl ether of 6-hydroxykaempferol and quercetagenin. The structures of the new flavonols were characterized by spectroscopic analysis.

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[Lab. of Pharmacognosy]

New Isoflavones from *Iris nigricans*.

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Iris nigricans (Iridaceae) is a perennial herb with a stout and compact rhizome. It is endemic in the fallow field and steppe habitats of Jordan and is known by the common name "sawsan aswad". From the rhizome of *I. nigricans*, two new isoflavones, 4'-hydroxy-5-methoxy-6,7-methylenedioxyisoflavone (nigracin) and 4'-hydroxy-5,3'-dimethoxy-6,7-methylenedioxyisoflavone (nigricanin), were isolated and characterized, along with 5,4'-dimethoxy-6,7-methylenedioxyisoflavone (irilone), 5',3'-dihydroxy-4',5'-dimethoxy-6,7-methylenedioxyisoflavone, acetovanillone, ferulic acid. The new structures were established by spectroscopic and chemical method.

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Two xanthenes from Root Bark of *Calophyllum inophyllum*.

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Recently, the various bioactivities of xanthenes (cytotoxic and antitumor activity, anti-inflammatory activity, anti-fungal activity, enhancement of choline acetyltransferase activity and inhibition of lipid peroxidase) have been revealed in Guttiferae plants. To search for biological active principles related to xanthone compounds in the Guttiferae, the chemical constituents of *Calophyllum inophyllum* were investigated. In addition to known xanthenes (macluraxanthone and 1,5-dihydroxyxanthone), two new xanthenes named caloxanthenes A and B were isolated and determined these structure by spectroscopic analysis, in particular, by 2D-NMR techniques.