

Chemotaxonomic survey of Malaysian Mimosa species

ABSTRACT

Flavonoids of four Malaysian Mimosa species were analysed. Quercetin 7--methyl ether was found in all four Mimosa species, kaempferol, apigenin and acacetin were detected in *M. pigra* and *M. invis*. Orientin was the only flavone C-glycosides detected in *M. pudica*. Both *M. pigra* and *M. invis* synthesized quercetin 3-rhamnoside, quercetin 3-rutinoside, quercetin 3, 7--dirhamnoside, kaempferol 3-rhamnoside, kaempferol 3,7-dirhamnoside and luteolin 7-arabinoside. Flavonoid patterns of *M. pudica* differs from *M. longihirsuta* as the former species synthesized kaempferol 7-rutinoside and kaempferol 3-glucoside-7-rhamnoside, and the latter species produced quercetin 3-glucoside-7-rhamnoside.

Keyword: Malaysian Mimosa species