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[Lab. of Pharmacognosy]

Four Flavonoids in the Roots of Euchresta formosana.

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Four new flavonoids from the roots of *Euchresta formosana* were chracterized as 5,5'-dihydroxy-8-isoprenyl- $\{6",6"-dimethylpyrano-(2",3": 7,6)\}-\{(6"",6""-dimethylpyrano (2"",3"": 4',3')\}-coumaronochromone (euchretin D), 5,5'-dihydroxy-6-isoprenyl-<math>\{6",6"-dimethylpyrano (2",3": 7,8)\}-\{6"",6""-dimethylpyrano (2"",3": 4',3')\}-coumaronochromone (euchretin E), 5,2'-dihydroxy-8-isoprenyl-<math>\{6",6"-dimethylpyrano (2",3": 7,6)\}-\{6"",6""-dimethylpyrano (2"",3"": 4',5)\}$ flavanone (euchrenone a₁₁) and 5,2'-dihydroxy-6-isoprenyl- $\{6",6"-dimethylpyrano (2",3": 7,8)\}-\{6"",6""-dimethylpyrano (2"",3"": 4',5')\}$ flavanone (euchrenone a₁₂) by means of spectroscopic analysis.

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[Lab. of Pharmacognosy]

An Isoflavanone from Roots of Echinosophora koreensis.

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MIZUO MIZUNO, SOON-KEUN HONG

Among the chemical constituents of *Echinosophora koreensis* Nakai, the presence of lupin alkaloids, isoflavanones and 3-hydroxyisoflavanones were confirmed. The antimutagenic and the immuno-relating activities of the plant extract have been investigated, but the biological princeples were not determined. To clarify the unidentified phenolic components in *E. koreensis*, we investigated the chemical constituents in the root to result the isolation of a new isoflavanone, 5'-geranyl-5,7,2',4'-tetrahydroxyisoflavanone (kenusanone A) in addition to some known phenolics.

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[Lab. of Pharmacognosy]

Two C-Methylated Flavonoid Glycosides from the Roots of Sophora leachiana.

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MIZUO MIZUNO, FRANK A. LANG

In succession to a characterization of sophaoraflavonone G and a new flavanone, named leachianone A, 5,7,4'-trihydroxy-6-methylflavone (poriol), its 7-O-glucopyranoside (poriolin), and a new flavonol glycoside were isolated from the roots of *Sophora leachiana*. Spectroscopic analysis established the structure of the new flavonol glycoside to be 8-methylkaempferol 7-O-glucopyranoside. The C-methylated flavonoids occur abundently in ferns, gymnosperms, and the Ericaceae but are rarely found in leguminous plants.