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• 計畫中文名稱	水金京之莖、根及血桐葉之抗癌與抗病毒活性成份研究(I-III)		
• 計畫英文名稱	Studies on the anticancer and Antivirus Principles from the Stem and Root of Wendlandia formosana, and the leaf of macaranga tanarius (I-III)		
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• 研究人員	徐鳳麟 Hsu, Feng-Lin		
• 中文關鍵字	水金京；血桐；植醇；抗癌；抗病毒；細胞毒性；熊果酸		
• 英文關鍵字	Wendlandia formosana；Macaranga tanarius；Phytol；Anticancer；Antivirus；Cytotoxicity；Urosolic acid		
• 中文摘要	從水金京之根、葉分離出具有細胞毒性之三帖化合物 Ursolic acid(1)及三帖化合物 Phytol(2)。另外從血桐葉之醋酸乙酯可溶部份分離出具有細胞毒性之 Nymphaeol C(3)。上述化合物之單離純化工作是藉由 Diaion、MCI、Sephadex LH-20 及 ODS 膠體而完成。正相色層層析之進行則以矽膠體之管柱。除上述化合物外，有三十七個 Pthalimide 衍生物，十四個 1,8 Naphthalimide 衍生物，十四個 Isoindole 衍生物，四個 Pyridine 2,3Di-caboxyimide 衍生物及四個 Cantharidine 衍生物已被製備。於這些合成化合物中僅兩個 Cantharidine 衍生物(4)及(5)呈現顯著之細胞毒性。		
• 英文摘要	Ursolic acid a cytotoxic triterpene and a diterpene called Phytol were isolated from roots and leaves of Wendlandia formosana. A cytotoxic flavone (-)-Nymphaeol C was isolated from ethyl acetate soluble fraction of leaves of Macaranga tanarius. Isolation and purification of above compounds has been carried out by reverse phase chromatography using Diaion, MCI, Sephadex-LH 20, and ODS gels. Normal phase chromatography performed over Silica gel columns. In addition to the above, thirty seven pthalimide derivatives, fourteen 1,8 naphthalimide derivatives, fourteen isoindole derivatives, four pyridine 2,3 di-caboxyimide derivatives and four cantharidine derivatives were prepared. Among all synthetic compounds only two cantharidine derivatives and showed significant cytotoxic activity.		