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• 計畫英文名稱	--		
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• 中文關鍵字	細本葡萄；生理功能；繁殖；肝臟纖維化		
• 英文關鍵字	*Vitis thunbergi*；Physiological Activities；Propagation；Tissue Transglutaminase		
• 中文摘要	本計畫以本土性植物細本山葡萄爲材料進行大量營養繁殖找尋適於細扦插成活的條件，不以任何化學藥劑進行病蟲害防治大量育苗供生理活性測試所需。定期採收其根、主莖和枝葉等部位，經乾燥、酒精萃取後，以 TLC，HPLC 及 LC/MS/MS 測試。其酒精萃取物將進行與保肝之相關評估測試，發現並無結締組織生長因子(CTGF)的表現 但顯示小葉葡萄萃取物 VTWR, VTTL,及 VRL 可有效抑制 iNOS 的表現，可能具有抗腦發炎的功能，同時細本葡萄之根、莖、葉均有明顯抗氧化功能。此外本研究亦發現細本葡萄根部具有對抗 G(+)抗藥性菌株之功能並純化三種抑菌物質。		
• 英文摘要	Vitis thunbergii var. taiwaniana is an important grape species indigenous to Taiwan and considered as a herb having the effect of prevention of cardiovascular diseases and cancer. The present study is aim to develop a functional food derived from root, stem or leaf of Vitis thunbergii var. taiwaniana. The alcohol extracts of the grape parts were found to be not effective in prevention of CTGF expression but we found that VTWR, VTTL, and VRL dose-dependently inhibited the iNOS expression, indicating wild grape extracts might exhibit anti-inflammatory activity in brain. It was also evident that the extract from leaf had a strong activity in antioxidation. Three compounds VTT-1, 2 and 3 were purified from the root extract and these compounds were found to inhibit methicillin-resistant Staphyllococcus areus and G(+) bacteria. The results will also be able to provede scientific evidences for the physiological activity of Vitis thunbergii var. taiwaniana.		