• 計畫中文名稱	利用初代人類軟骨細胞與關節炎鼠模式，開發小葉葡萄應用於關節炎保建之研究		
• 計畫英文名稱	The Use of Arthritis Animal Experiments and Human Osteoarthritic Chondrocytes to Develop Vitis thunbergii against Arthritis		
• 系統編號	PW9611-1271	• 研究性質	應用研究
• 計畫編號	96 農科-1.2.1-科-a1(21)	• 研究方式	委託研究
• 主管機關	行政院農業委員會	• 研究期間	9601 ~ 9612
• 執行機構	台北醫學大學藥學系(所)		
• 年度	96 年	• 研究經費	1000 千元
• 研究領域	藥學		
• 研究人員	王靜瓊,曾頌惠,謝明勳		
• 中文關鍵字	小葉葡萄；關節炎；人類軟骨細胞；		
• 英文關鍵字	Vitis thunbergii；Arthritis；Human Osteoarthritic Chondrocytes		
• 中文摘要	以 LPS 或 IL-1 誘導初代人類軟骨細胞產生發炎反應，活化 COX-2、PGE2、MMP-3、MMP-13 等表現之體外模式，檢測小葉葡萄活性，篩選具抑制 COX-2、PGE2、MMP-3、MMP-13 作用之有效劃分部或天然物，確認出具潛力開發關節炎保健食品之小葉葡萄萃取物。預期將得到預防關節炎之活性萃取物，其樣品定性與定量方法，將可提供給廠商進行健康食品之開發。且目前尚無相關專利報告，所以小葉葡萄若可應用於預防關節炎，將可申請相關專利，其成果預期亦可發表 SCI 期刊。		
• 英文摘要	Arthritic patients frequently used alternative and complementary medicine to alleviate their joint discomfort or to maintain the health of their joints. Vitis thunbergii is a native medicinal plant of Taiwan used in many age-related illness such as arthralgia, hepatitis, gastritis, eye disorder, sprain and strain etc. The objective of the study is to develop Vitis thunbergii as a nutritional supplement for arthritis. Firstly, the extracts of Vitis thunbergii will be used to investigate and delineate the inhibitory effect and the underlying mechanims of Vitis thunbergii against LPS or IL-1?? induced production of inflammatory mediators and MMPs in primary human chondrocytes. In the second year, the effective extracts will be investigated against collegenase-induced osteoarthritis model in animal. The result of this study will clarify several important information regarding the role of Vitis thunbergii as a nutritional supplement against arthritis, including the pharmacological effect and methods of quality control for the preparation.		