• 系統編號	RG9413-3078
• 計畫中文名稱	中草藥功能性化妝品之應用開發
• 計畫英文名稱	The Applied Development of Cosmetics in Chinese Herbal Medicines
• 主管機關	--
• 計畫編號	CCMP93-RD-034
• 執行機構	台北醫學大學生藥學研究所
• 本期期間	9303 ~ 9312
• 報告頁數	31 頁
• 使用語言	中文
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• 中文關鍵字	中草藥；抗老化；美白
• 英文關鍵字	Chinese herbal medicines；anti-aging；whitening

• 中文摘要

近幾年植物性皮膚保養品之應用已成爲消費市場之風潮，因此對於中草藥在皮膚保養化妝之研究更是期待加強。本計劃目的在開發中草藥應用於抗老化、美白等皮膚保養的化妝品，擬利用清除氫氧 (hydroxyl) 自由基以及抑制酪氨酸酶 (tyrosinase) 活性，來進行皮膚抗老化、美白之活性測試。本計劃自傳統古籍文獻中被記載可作爲化妝保養品之三十種中草藥材料，以酒精溶劑萃取後，利用抗老化、美白之活性測試，篩選活性強之中草藥，發現其中雞血藤具不錯活性，乃進一步進行以活性追蹤方式進行抽取、分離、純化有效成分，與結構之解析以及活性成分之抗老化、美白、防皺 (抑制 matrix metalloproteinase 9 之活性) 之活性測試。發現雞血藤中之 3',4',7-Trihydroxyflavone 具有抗老化與美白活性，可做爲將來中草藥相關化妝保養產品的添加劑，對將來中草藥於保養化妝品應用開發上更具實質幫助。

• 英文摘要

Recently, the consumers pay attention to the plant products cosmetics on their use within skin-care preparations. Therefore, the development of Chinese herbal medicines on skin-care cosmetics should be emphasized. The aim of this project was to screen material extracts of Chinese herbal medicines for developing the skin-care cosmetic application on anti-aging and whitening by using hydroxyl radical scavenging activity and inhibition of tyrosinase activity. We will collect thirty kinds of Chinese herbal medicines which usually were used in the skin-care on ancient books. After the extraction of these raw materials, anti-aging and whitening activities will be done. We selected one of these active extracts, Spatholobus suberectus, to isolate and purify the active components by using bio-guide. The active structure, 3 ? H ? H,4 ? H ? H,7-trihydroxyflavone , was identified by physical data, various spectra and references. Sequentially, the anti-aging, whitening, and anti-wrinkle activities (matrix metalloproteinase 9 inhibitory activity) of this component will be tested. 3 ? H ? H,4 ? H ? H,7-Trihydroxyflavone was exhibited the anti-aging and whitening activities.

We hope this finding will be developed to the additives in the skin-care cosmetics. The results will be enabled us to offer one of the most comprehensive ranges of cosmetic Chinese herbal medicines extracts available in the future.