• 計畫中文名稱	白芍炮製研究及工廠規範制訂		
• 計畫英文名稱	Study on the processing and establishment standard operating procedure of Paeonia lactifolia Pall. for factory		
• 系統編號	PG9601-0307	• 研究性質	其他
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• 研究領域	藥學		
• 研究人員	王靜瓊,陳立耿		
• 中文關鍵字	白芍；炮製；止痛消炎作用；芍藥甘；標準製作流程；；；		
• 英文關鍵字	Chinese paeony；prossced；anti-inflammatory；paeoniflorin；standard operating procedure；；；		
• 中文摘要	中藥炮製的目的是爲了減毒及增強療效，所以建立炮製的標準化流程，是建構中藥用安全環境重要的主題之一。然而，白芍（Paeonia lactifolia Pall.的根）爲常用補血養陰中藥材之一，但一般於方劑之中，多用麩炒白朮（炒黃），少用生品。因爲傳統醫藥典籍記載，炒黃白芍可使藥性由寒變溫，增強柔肝止痛作用。然而，白芍外觀從白色變成黃色，推測其成分應該有了改變，而其主成分爲單萜類配醣體及單寧，且 paeoniflorin，paeonol 及(+)-catechin 具有許多藥理功能，因此本計畫將以此三個成分爲主，檢測炮製前後的成分變化，並用 LC-Mass 及 GC-Mass 觀察指紋圖譜的消長。另，再利用止痛、抗發炎之動物模式，評估白芍炮製前後的藥效是否增強，並確認最好的炮製方法。再綜合炮製後白芍成分變化與止痛、抗發炎作用之關係，制定理想的白芍炮製方法及含量規格，再擴大到炮製工廠，實地試做反覆進行藥理及成分分析，最後確認『白芍炮製之標準製作流程』。		
• 英文摘要	Chinese paeony (radix of Paeonia lactifolia Pall.) is one of the tonic Chinese herbs. It has been used to invigorate the blood and benefit vital energy. However, the processed Chinese paeony are more popular used than raw material. Because, the processed- Chinese paeony can enhance the pharmacological functions, the bioactive compounds will be changed. In the present investigation, we will process Chinese paeony by ourselves. The quantitative analysis of monoterpene glycosides (paeoniflorin) and tannins (paeonol and (+)-catechin) analysis were detected by HPLC system in raw and processed. Moreover, the frigerprints of the HPLC-Mass and GC-Mass will be used to compared between raw and processed of Chinese paeony. The other hand, the analgesic activity and anti-inflammatory effects of Chinese paeony will be evaluated between		

	raw and processed. Principle-activity relationships on the analgesic activity and anti-inflammatory effects potency of the processed Chinese paeony will be discussed. In according to the results, we will regulate the best-processed way of Chinese paeony as the reference standard method. The method will be apple to phaemaceutical factory and established standard operating percedure (SOP) of prossced Chinese paeony.