

• 系統編號	RG9110-0513		
• 計畫中文名稱	以去活化蛋白激酵素及抗氧化酵素系統篩選模式評估龍膽瀉肝與當歸龍薈丸之療效		
• 計畫英文名稱	Evaluate the Potential Effects of the Decoction of Gentianae and Bolus of Angelicae Sinensis and Gentianae by Using the Screening Model on the Inactivated Protein Kinase and Anti-Oxidative Enzymes System		
• 主管機關	行政院衛生署	• 計畫編號	CCMP89-RD-112
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• 中文關鍵字	龍膽瀉肝湯；當歸龍薈丸；黃嘌呤氧化酶；基質金屬蛋白酶；龍膽；當歸；中藥方劑		
• 英文關鍵字	Long-Dan-Shieh-Gan-Tang；Dang-Guei-Long-Huei-Wan；Xanthine oxidase；Matrix metalloproteinase (MMP)；Gentiana scabra；Angelica sinensis；Chinese medicinal prescription		
• 中文摘要	<p>以三種傳統方劑龍膽瀉肝湯、當歸龍薈丸(不含麝香)及當歸龍薈丸，用各種不同極性之溶媒系統下之萃取物，於黃嘌呤/黃嘌呤氧化酵素系統、肝病變細胞株之細胞毒、DNA 斷裂之分析、總蛋白激酵素活性、細胞間質蛋白質裂解酵素之檢測等，並評估出一簡易之篩選模式。龍膽瀉肝湯、當歸龍薈丸(不含麝香)及當歸龍薈丸之水萃物對黃嘌呤/黃嘌呤氧化酵素系統由其 IC/sub 50/(2.05-2.79mg)及 Ki 值(1.87-2.76mg)表現其顯著之黃嘌呤氧化酵素抑制作用。於肝病變細胞株中，此三種方劑在相當於生藥 1mg/mL 之濃度下，對 Hep G2 及 Hep3B 具 44.87-54.66%之抑制生長率。各方劑之水萃物對細胞間質蛋白質裂解酵素(MMPs)之有效抑制濃度，對 MMP-2 及 MMP-9 其 IC/Sub 50/(ug/mL)介於 62.8-86.3。而在 DNA 斷裂之分析、總蛋白激酵素活性測定方面則並未顯現明確之差異。由以上之篩選模式可看出對此三個方劑而言，黃嘌呤/黃嘌呤氧化酵素系統、肝病變細胞株之細胞毒、細胞間質蛋白質裂解酵素之檢測等，可視為一簡易之篩選模式。</p>		
• 英文摘要	<p>There are three kinds of traditional Chinese herb composition, Decoction of Gentianae, Bolus of Angelicae sinensis and Gentianae, and one without musk, under different solvent system extraction, then try to built an convenient screening model to evaluate the potential effects on the xanthine/xanthine oxidase system, cytotoxicity, DNA fragmentation, total kinase activity, and matrix metalloproteinase inhibitory effect. Water extract of these three herb composition showed the potential inhibitory effects on xanthine oxidase (IC/sub 50/ 2.05-2.79mg; Ki 1.87-2.76mg). Under 1 mg/mL (crude drug) concentration, it was found the 44.87 to 54.66% growth inhibition on Hep G2 and Hep 3B cell lines. The inhibition of metastasis on the Hep G2 and Hep 3B were investigated the IC/sub 50/ 62.8-86.3 ug/mL, but there were no significantly difference on DNA fragmentation or total protein kinase analysis. The screening model of xanthine oxidase inhibitory system, cytotoxicity test and matrix metalloproteinase inhibition analysis could be contributing to evaluate the potential effects of Chinese herb medicine.</p>		