• 系統編號	RC8901-0460		
• 計畫中文名稱	經由 Aziridine 開環反應合成斑蝥胺及其活性評估		
• 計畫英文名稱	Synthesis and Bioactivity of Cantharidinimide via Ring Opening of Aziridine		
• 主管機關	行政院國家科學委員會	• 計畫編號	NSC88-2314-B038-110
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• 研究人員	林本元 Lin, Pen-Yuan		
• 中文關鍵字	斑蝥素胺；藥物合成；斑蝥素；開環反應；生物活性；氮雜環丙烷		
• 英文關鍵字	Cantharidinimide；Drug synthesis；Cantharidin；Ring opening；Biological activity；Aziridine		
• 中文摘要	斑蝥素胺由斑蝥要與一級氨在約 200.degree.反應所得,探討天然斑蝥胺(Cantharidinimides)在天然物化學中,具簡單且非常特別的分子結構,在基礎化學與藥物研究開發上極具潛力的標的物。在文獻中記載之藥理活性中具除了具抗癌作用外,在經化學修飾發現抑制 Xanthine oxidase 得藥理活性,並發現具有冠狀動脈舒張的作用。本計畫進行斑蝥素胺合成,經由三環的 Activated aziridines 的開環作用,產生 Amide 或 Amine 的衍生物。		
• 英文摘要	Cantharidine was converted to cantharidinimides by reaction with primary amines at ca. 200.degree.C. Products with a slightly modified basic structure have also been synthesized in an analogous manner. Several of them showed anticonvulsant and antixanthine-oxidase activities. Cantharidinimides with N-substituents seem to be unknown at present, although they may potentially exhibit more than antitumor activities. This projects showed that another cantherinimides were synthesized via ring opening of activated aziridines, and might obtain some new cantharidinimides and these bioactivities were tested.		