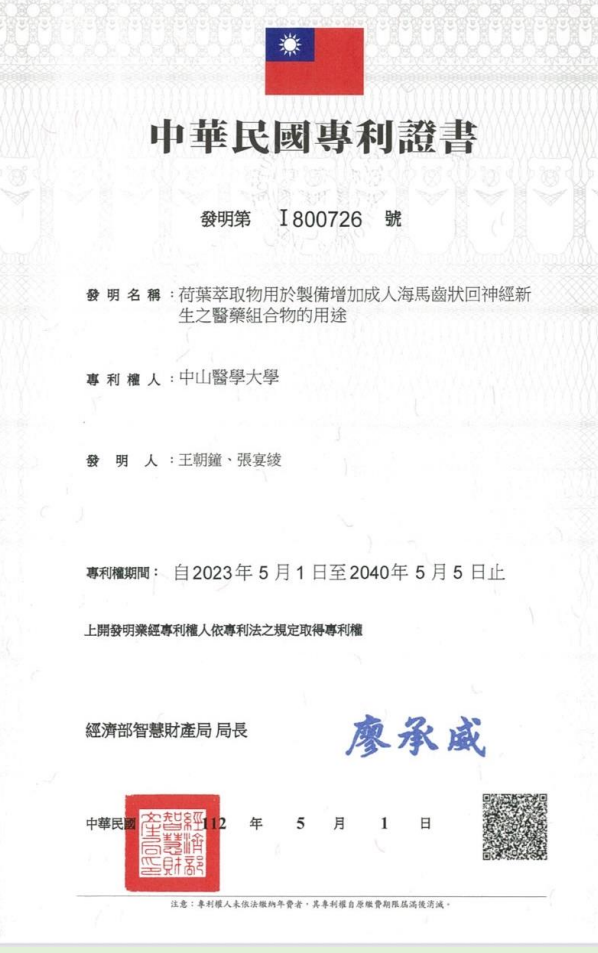


開發富含槲皮素糖醛酸苷荷萃做為預防神經退化新趨勢產業

(促進成人海馬回細胞新生)

富含槲皮素糖醛酸苷(Q3G)之植萃NLWE及NLAE促進adult hippocampal neurogenesis(AHN)做為預防及減少 neurodegeneration作用



2019確認成人海馬迴神經細胞新生(AHN) Q3G及荷萃活化小鼠海馬迴DNF/TrkB/p-CREB pathway, 促進小鼠海馬迴神經新生

作用存在於健康人但阿滋海默病人缺少 AHN(說明阿滋海默病人早期有AHN阻礙)

Adult hippocampal neurogenesis is abundant in neurologically healthy subjects and drops sharply in patients with Alzheimer's disease

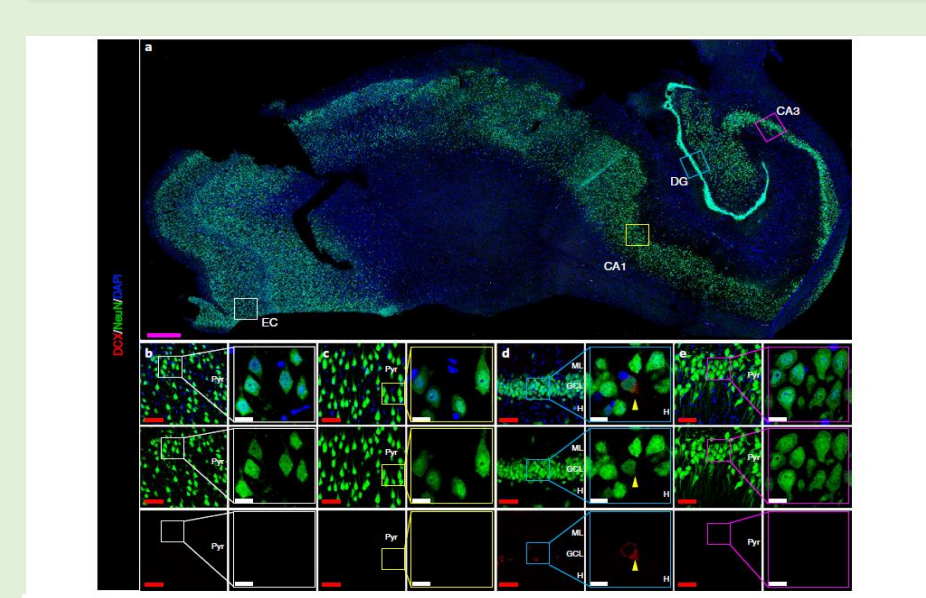


Figure 1 Adult hippocampal neurogenesis is a robust phenomenon in the dentate gyrus of neurologically healthy adult human subjects...

促進海馬回新生預防認知障礙

Adult Hippocampal Neurogenesis Is a Developmental Process Involved in Cognitive Development

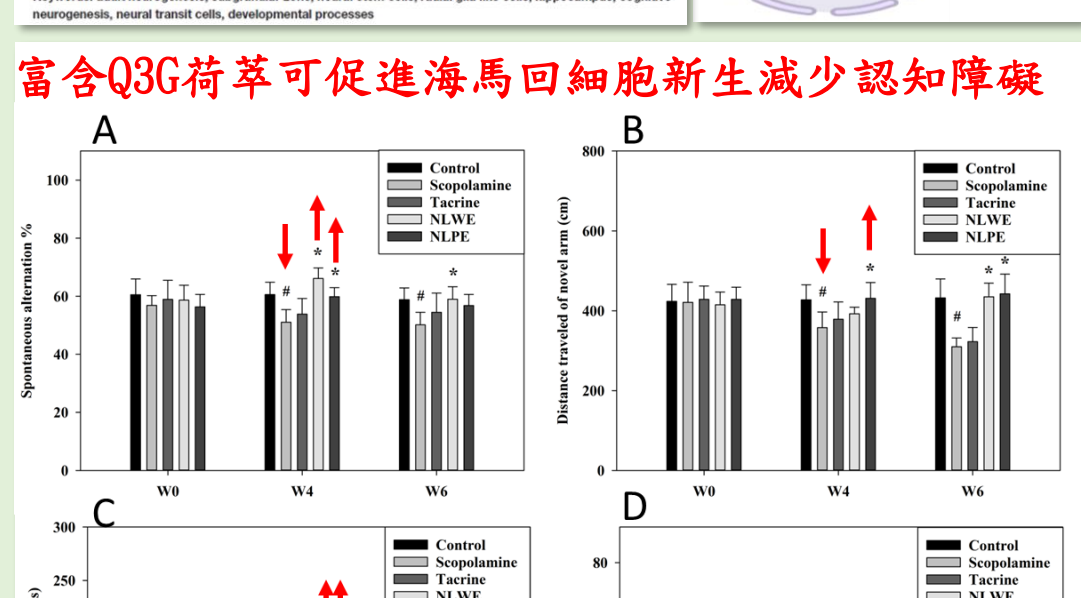


Figure 2 Q3G-rich plant extract promotes hippocampal neurogenesis and cognitive development...

富含Q3G的荷萃

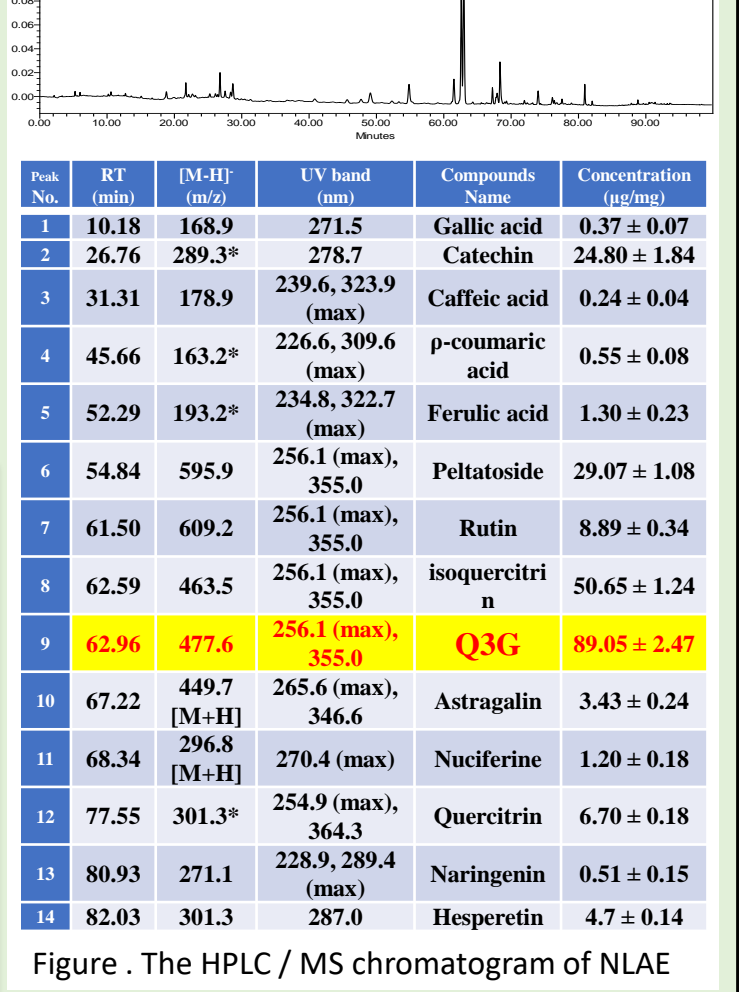


Figure 3. The HPLC/MS chromatogram of NLAE

目前所有的治療均是：在無法治療及預防的形勢下，促進成人AHN作用

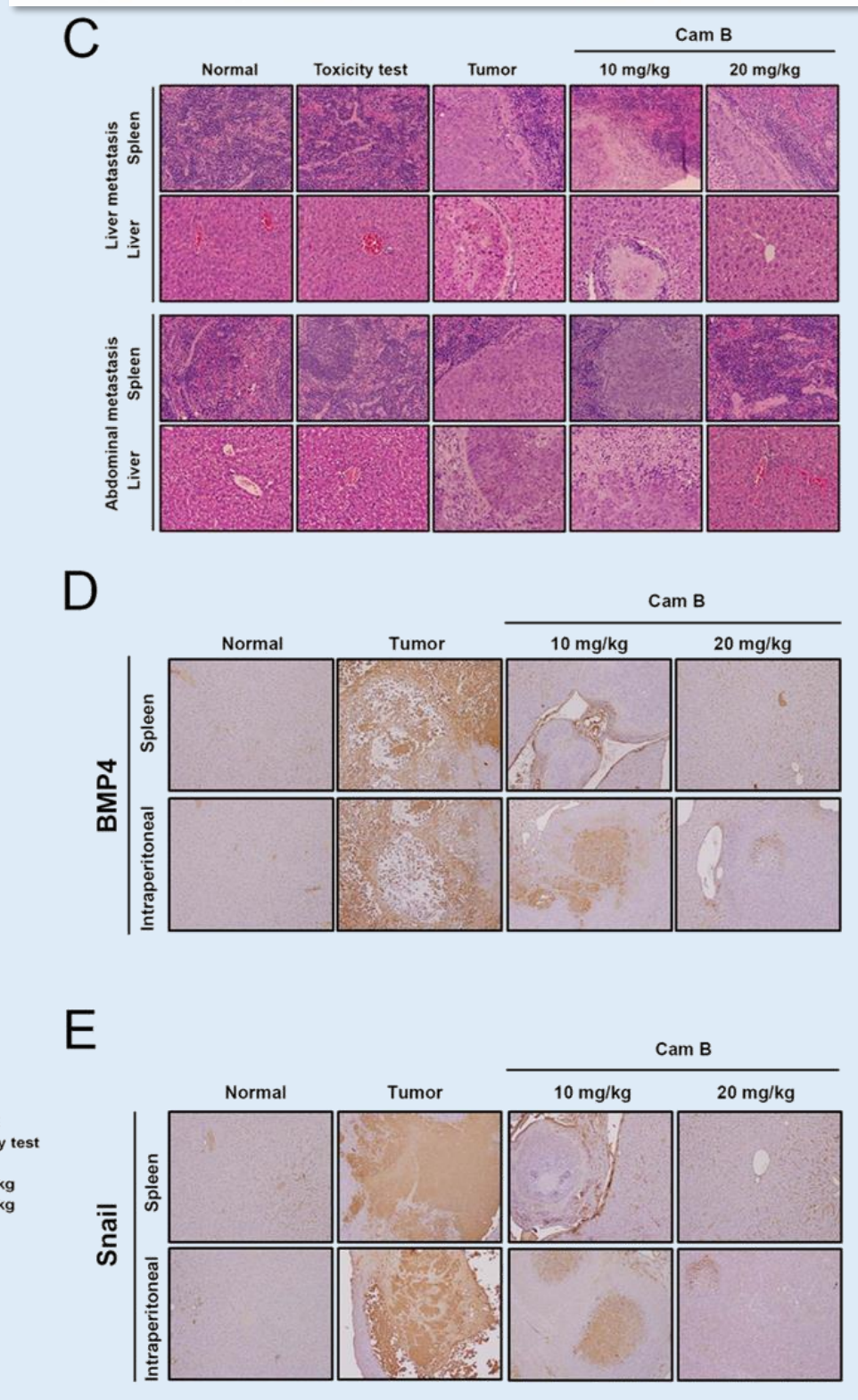
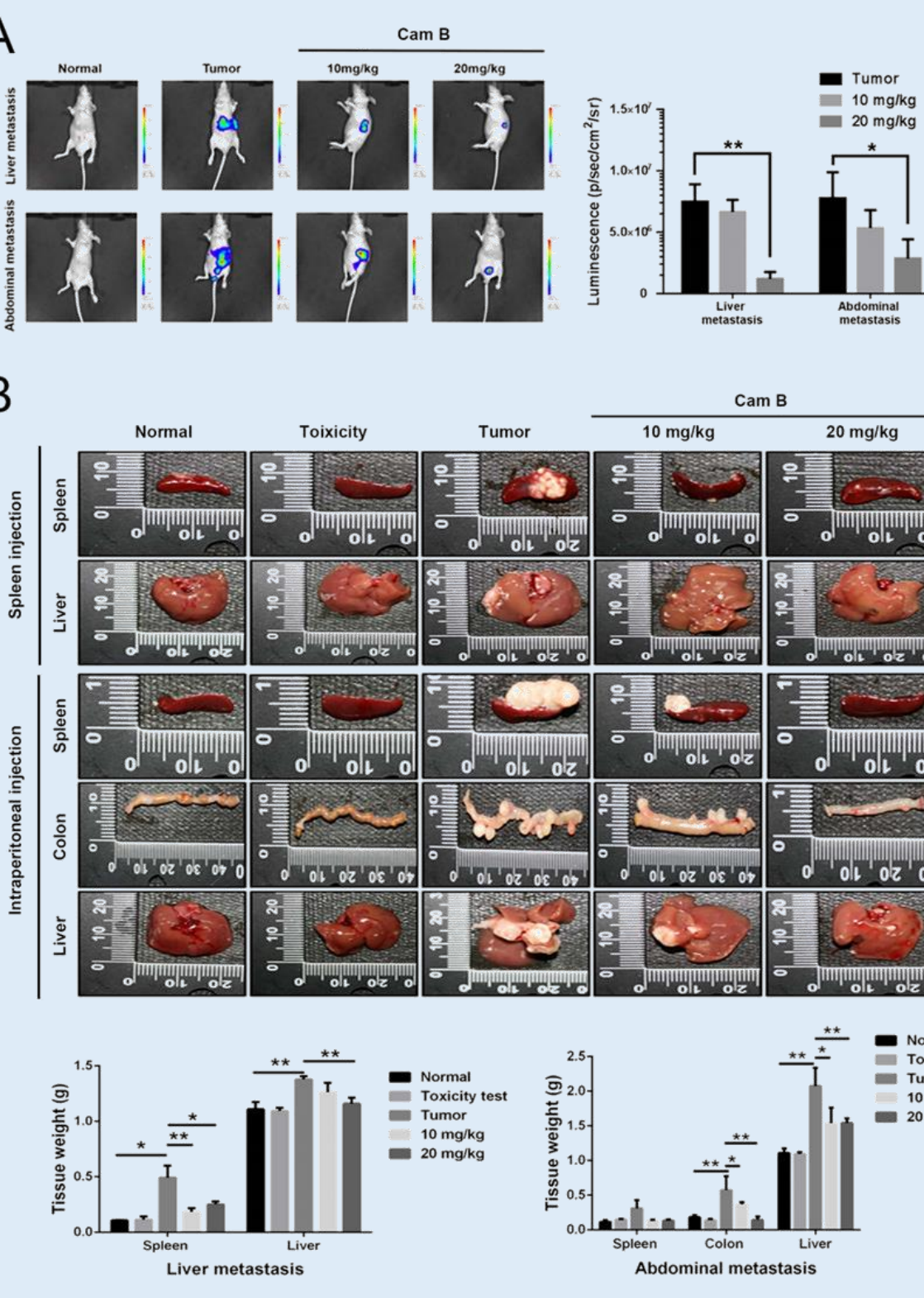
80歲老人還能產生大量腦神經細胞！阿茲海默治療或有新解方

健康的老人並未隨其年齡增長而降低認知能力或是罹患神經精神疾病，主要是因為他們的海馬迴持續保有神經新生的能力...

開發富含Antrodin B樟芝菌絲體做為癌症輔助食品

現況：
1. 市場有5健康食品字號及多數保健食品，多用於提高免疫力，護肝功能
2. 藉由Antrodin B 抑制癌細胞惡化轉移的US專利開發為癌症輔助食品增加樟芝市場競爭力

United States Patent (12) Patent No.: US 10,912,760 B1 (45) Date of Patent: Feb. 9, 2021



開發桑椹為多重護肝產品

桑椹抑制慢性酒精性肝炎之護肝作用機轉

Hepatoprotective effect of mulberry water extracts on ethanol-induced liver injury via anti-inflammation and inhibition of lipogenesis in C57BL/6 mice

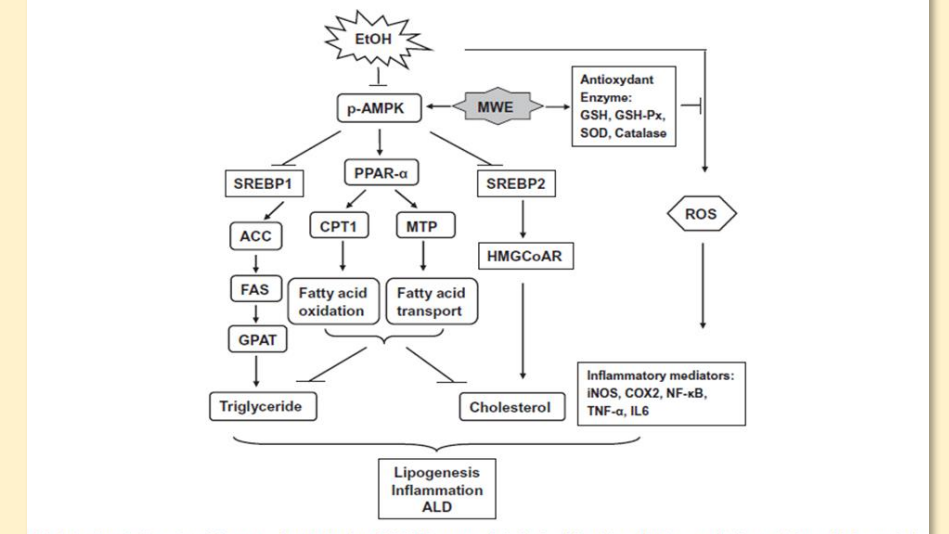
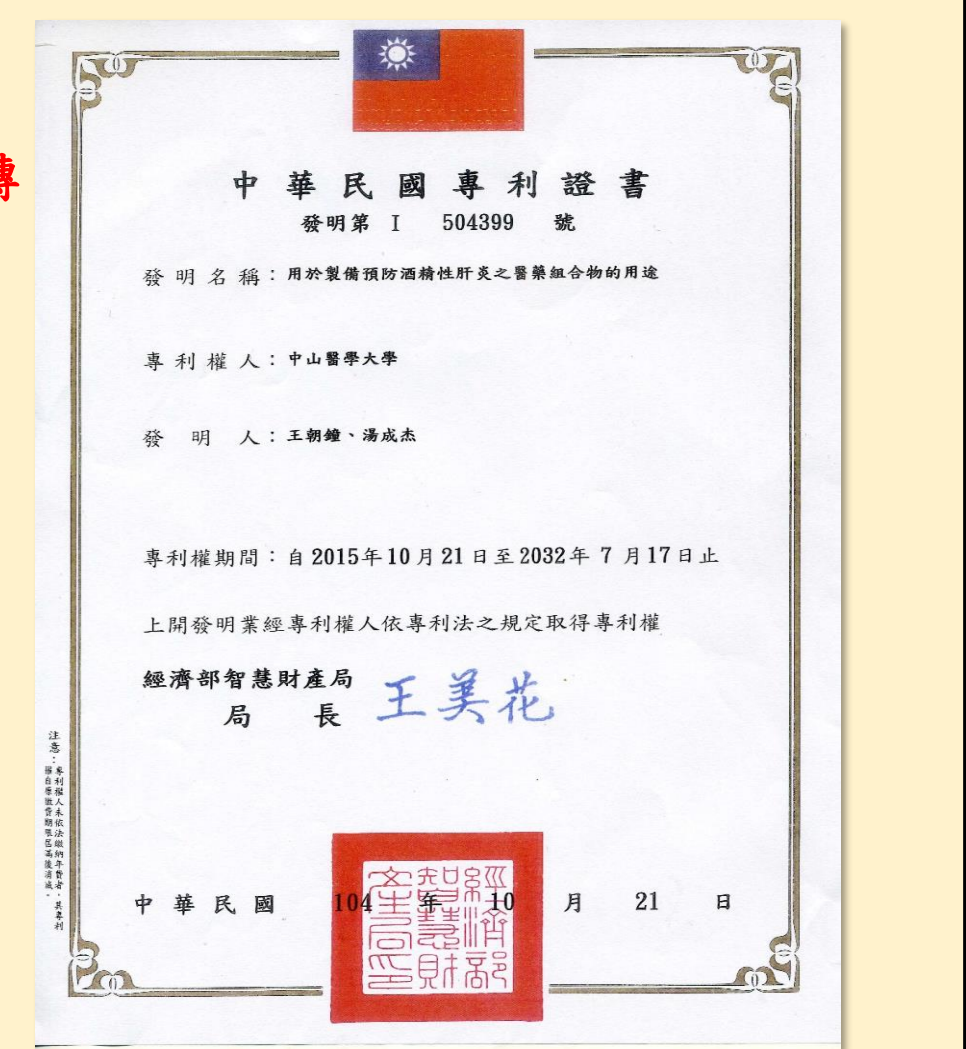


Figure 4. A schematic illustration of the proposed mechanism by which MWEs protect against alcohol-induced liver injury...

Research Article: Improvement of lipopolysaccharide-induced hepatic injuries and inflammation with mulberry extracts



Mulberry water extracts (MWEs) ameliorated carbon tetrachloride-induced liver damages in rat

Research Article: Mulberry extract inhibits oleic acid-induced lipid accumulation via reduction of lipogenesis and promotion of hepatic lipid clearance

Research Article: Mulberry extract inhibits oleic acid-induced lipid accumulation via reduction of lipogenesis and promotion of hepatic lipid clearance

第四案:開發龍葵不易形成脂肪及多重護肝專利健康食品



(I) 龍葵功能
Summary of biological activity of Solanum elaeagnifolium on various diseases



(III) 發明專利
龍葵之安全性評估
龍葵萃取物28天毒性試驗

桑椹抑制細菌性肝炎護肝作用

Research Article: Mulberry extract inhibits bacterial hepatitis via anti-inflammatory and anti-lipogenic effects

Research Article: Mulberry extract inhibits bacterial hepatitis via anti-inflammatory and anti-lipogenic effects

桑椹抑制肥胖性肝炎之護肝作用

Research Article: Mulberry extract inhibits obesity-induced liver injury via anti-inflammatory and anti-lipogenic effects

桑椹精華抑制肥胖性、酒精性及化學性致脂肪肝發炎、肝硬化及肝癌之作用



產學合作項目
1. 本研究室已發表桑椹降低血脂，抗氧化，抑制癌細胞轉移，減少脂肪肝，抑制酒精性肝炎及抗肥胖及抑制動脈粥狀硬化之作用。