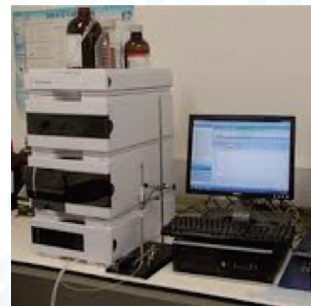
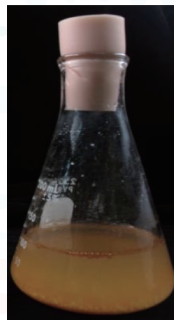
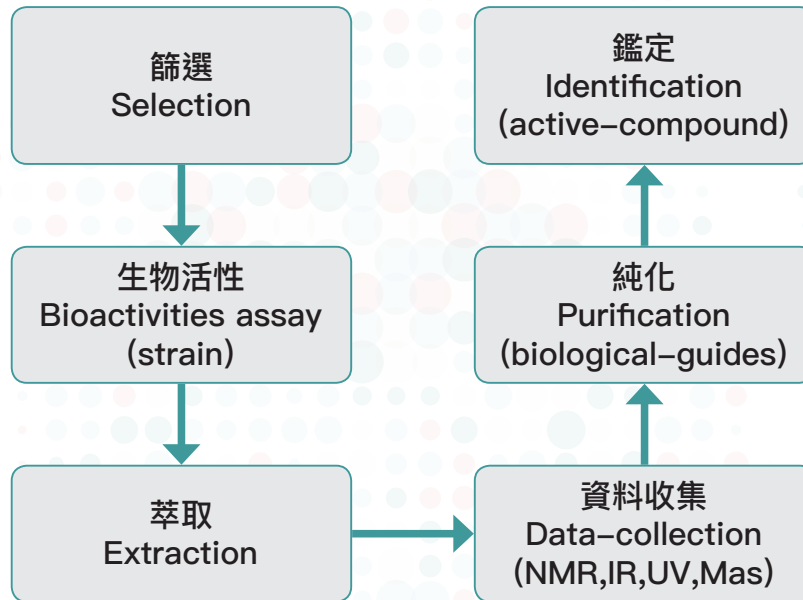


# 微生物代謝物分析及活性評估

## 活性成份分離技術 Active ingredient separation technology



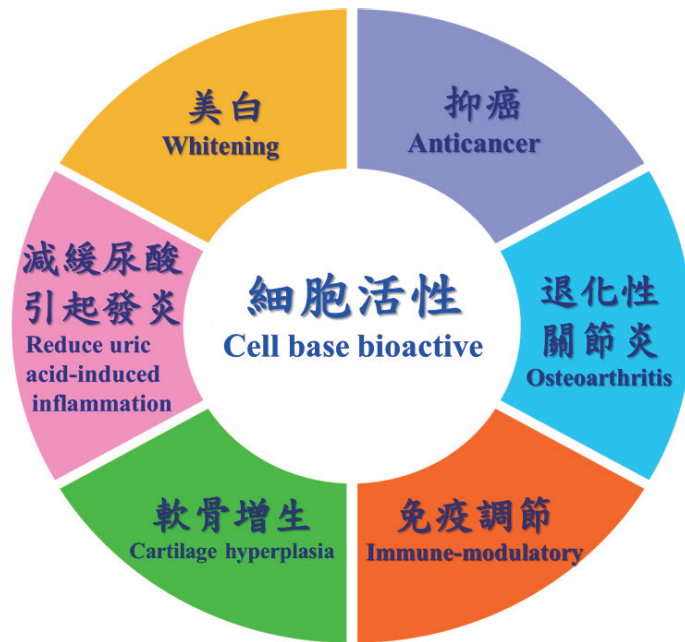
### ◎ 抑菌活性評估試驗

- ▶ 細菌
- ▶ 酵母菌
- ▶ 真菌

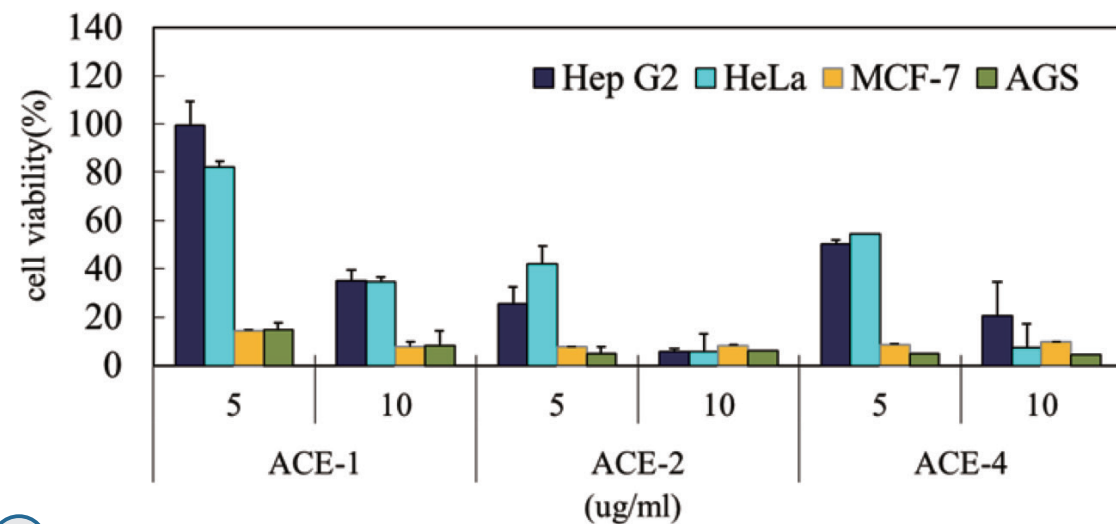
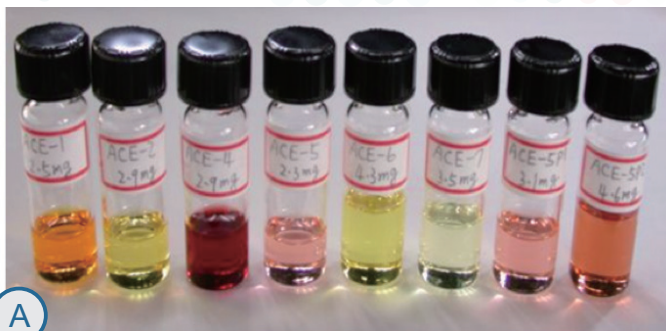
### ◎ 抗氧化試驗

- ▶ 超氧陰離子清除能力 (SOD)
- ▶ 總多酚含量測定 (Total phenolic )
- ▶ 類黃酮含量測定 (Flavonoid determination)
- ▶ 總抗氧化能力測定 (TEAC)





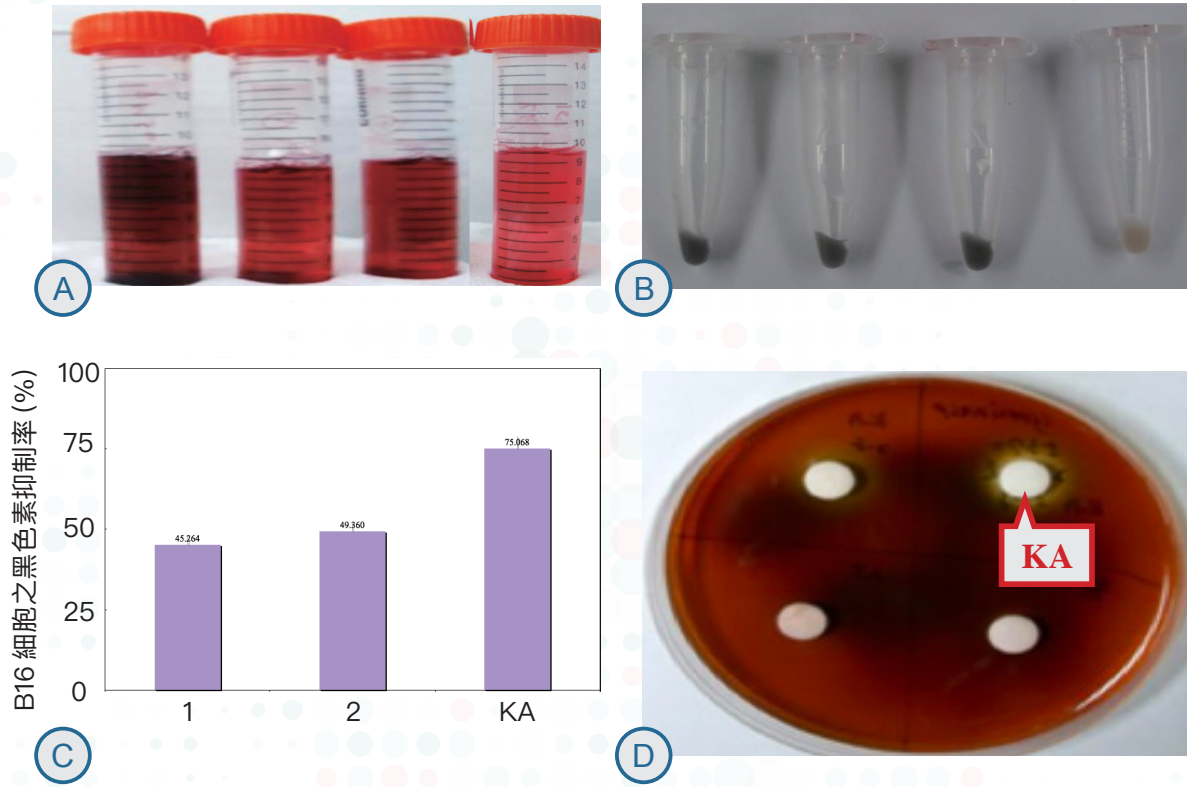
◎ 抑癌體外活性評估



C

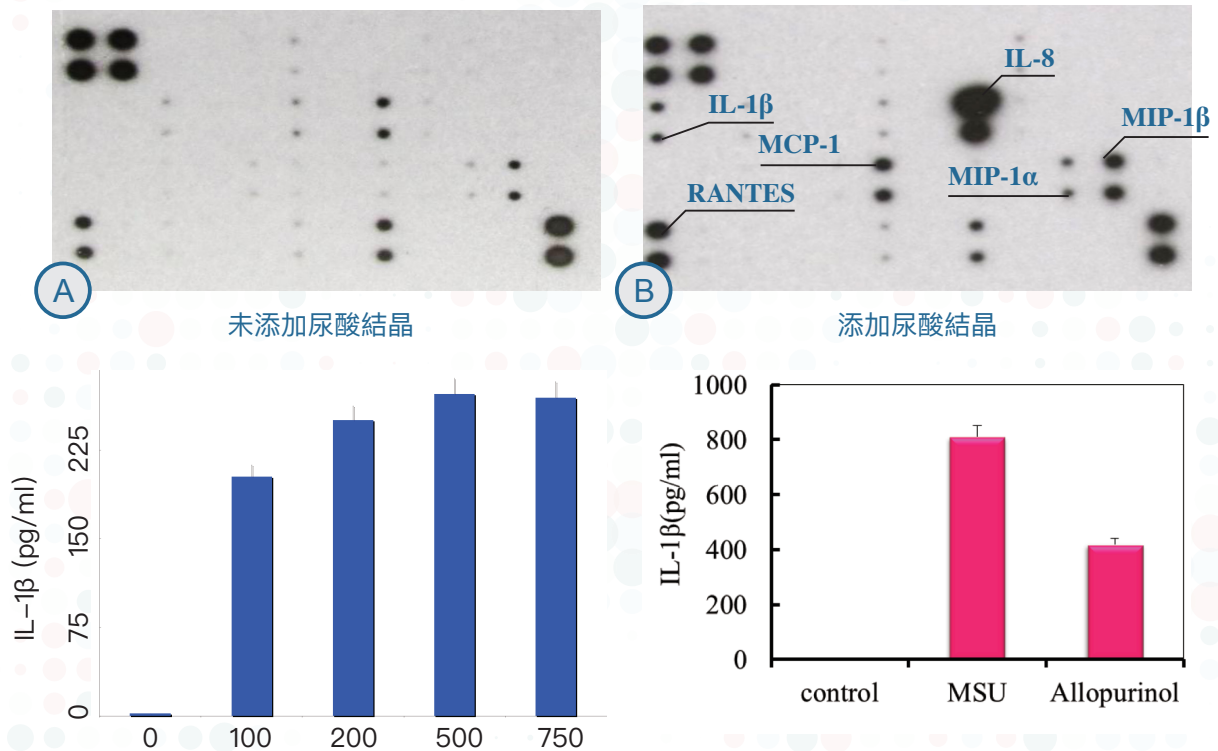
牛樟芝 (A) 化合物，(B) 固體發酵物，(C) 抑癌活性

◎ 美白活性評估



黑色素瘤細胞 (B16 cell) 經測試物質作用後，(A) 培養基顏色的變化，(B) 細胞團顏色，(C) 抑制 B16 黑色素細胞生成黑色素試驗 (D). 酪胺酸酶抑制圈平板試驗 (A~C 細胞實驗) 編號 1、2：測試物質；KA：麴酸

◎ 減緩尿酸引起之發炎反應活性評估

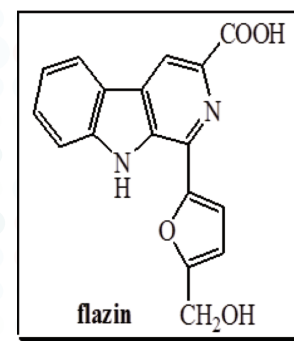
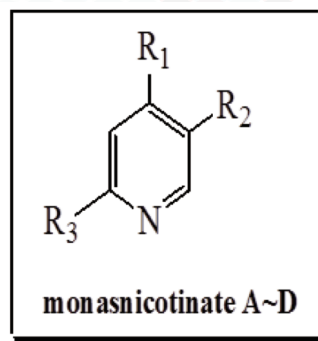
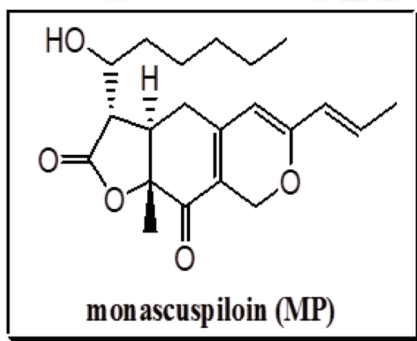


尿酸 (MSU) 誘發巨噬細胞生成 IL-1 $\beta$  (A)MSU 劑量之影響，(B)Allopurinol 抑制 MSU 引起之 IL-1 $\beta$  表現



## 研發成果 R & D results

- ▶ Monascuspiloin(MP) 具治療雄性禿之功效，已申請專利
- ▶ Monasnicotinate A~D 具降血糖之功效，已申請專利及發表 Paper
- ▶ Flazin 具降尿酸之功效，已申請專利及發表 Paper
- ▶ 另發表數十個具各式功效之活性化合物



### ◎ 紅麴發酵產品 *Monascus* fermented products

- ▶ 具美白功效  
With skin whitening function
- ▶ 抑制黑色素細胞生成黑色素  
Inhibition of melanin production  
of melanin cells



◎ 麴菌發酵產品 Mold-fermented products

- ▶ 具減輕尿酸引發之發炎功效產品  
With reduced uric acid-induced inflammatory products
- ▶ 減少 IL-1 $\beta$ 、IL-8 及 RANTES 等細胞激素表現之麴菌萃取物  
A mold extract that reduce the expression of IL-1 $\beta$ , IL-8, RANTES and other cytokines
- ▶ 尿酸激酶生產  
Uricase production

◎ 牛樟芝發酵產品 Antrodia cinnamomea fermented products

- ▶ 具減輕尿酸引發之發炎功效產品  
Modulation of uric acid-induced inflammation
- ▶ 具有提升巨噬細胞吞噬能力  
Enhancement of macrophage phagocytosis
- ▶ 可抑制癌細胞生長  
Inhibition of cancer cell proliferation



◎ 菇菌發酵產品 Mushroom fermented products

- ▶ 高粗多醣發酵產品  
High crude polysaccharide fermented products
- ▶ 降血糖、降血脂、提升免疫產品  
Hypoglycemic, hypolipidemic, enhance immune products

