

藥學科技(二)報告 scifinder & innovation

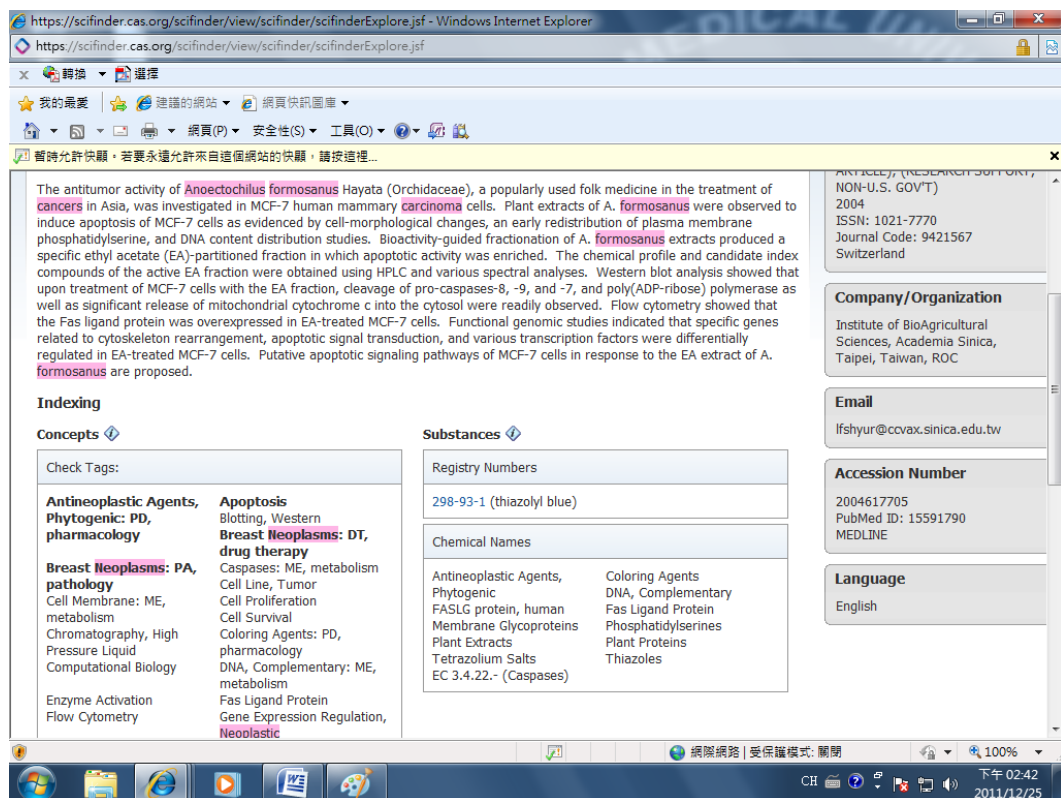
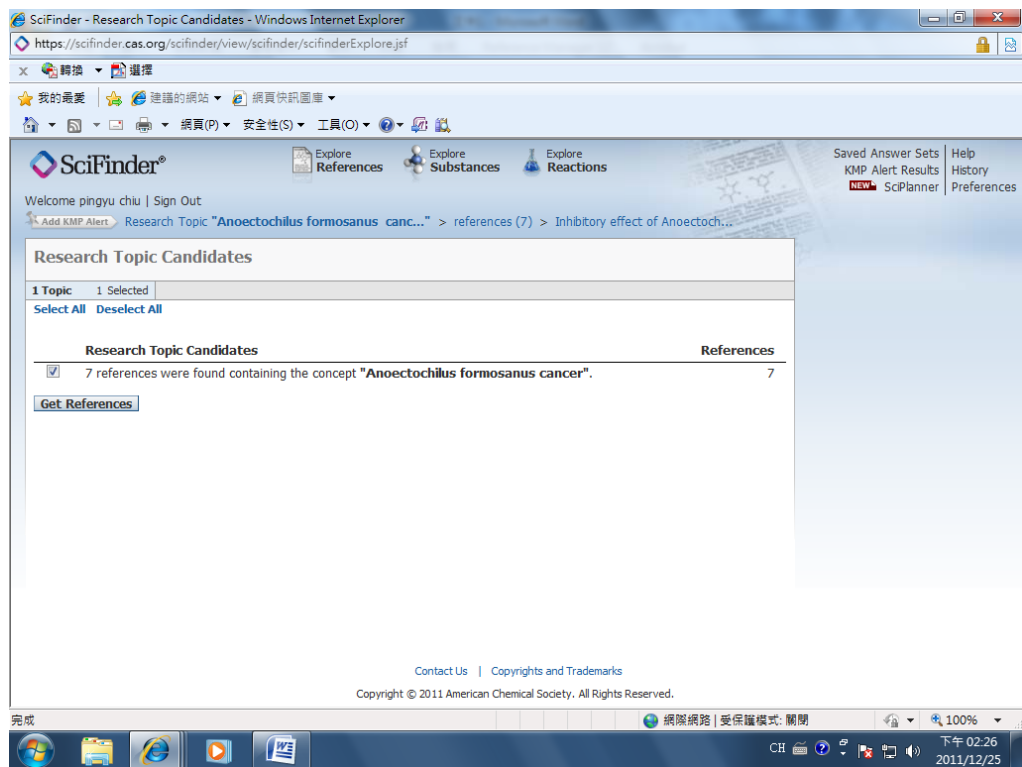
指導老師：吳建德 小 C 班 B303098132 邱冰瑀

一、Scifinder

查詢主題：金線連對癌症影響

使用成果：總共 7 個結果，有兩篇需要的相關文獻

查詢過程如附圖



SciFinder - Research Topic Candidates - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

我的最愛 進站的網站 網頁快訊圖庫

網頁(P) 安全性(S) 工具(O)

The inhibitory effect and the mechanism of **Anoectochilus formosanus** polysaccharide on human prostate cancer cell line PC-3 were investigated. **Anoectochilus formosanus** polysaccharide was extd. by water extn. and alic. pptn. method. PC-3 was treated by **Anoectochilus formosanus** polysaccharide, MTT assay was used to detect the inhibitory rate and IC50 (50% inhibiting concn.) was fingered out, cells morphol. changes were obsd. under fluorescence microscope, apoptosis rate was analyzed by flow cytometry, RT-PCR was used to detect the mRNA expression of caspase-3. After culturing with cells for 48 ...

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2. **Induction of Apoptosis in MCF-7 Human Breast Cancer Cells by Phytochemicals from *Anoectochilus formosanus***

By Shyur, Lie-Fen; Chen, Chih-Huai; Lo, Chiu-Ping; Wang, Sheng-Yang; Kang, Pei-Ling; Sun, Show-Jane; Chang, C. Allen; Tzeng, Chi-Meng; Yang, Ning-Sun

From Journal of Biomedical Science (Basel, Switzerland) (2004), 11(6), 928-939. Language: English, Database: CAPLUS

The antitumor activity of **Anoectochilus formosanus** Hayata (Orchidaceae), a popularly used folk medicine in the treatment of cancers in Asia, was investigated in MCF-7 human mammary carcinoma cells. Plant exts. of **A. formosanus** were obsd. to induce apoptosis of MCF-7 cells as evidenced by cell-morphol. changes, an early redistribution of plasma membrane phosphatidylserine, and DNA content distribution studies. Bioactivity-guided fractionation of **A. formosanus** exts. produced a specific Et acetate (EA)-partitioned fraction in which apoptotic activity was enriched. The chem. profile and candidat...

+Substances Reactions ~12 Citings Full Text Link 0 Comments 0 Tags

3. **Medicinal Herb Extract and a Single-Compound Drug Confer Similar Complex Pharmacogenomic Activities in MCF-7 Cells**

By Yang, Ning-Sun; Shyur, Lie-Fen; Chen, Chih-Huai; Wang, Sheng-Yang; Tzeng, Chi-Meng

From Journal of Biomedical Science (Basel, Switzerland) (2004), 11(3), 418-422. Language: English, Database: CAPLUS

Metabolite profiling and DNA microarray anal. of global gene expression profiles were employed to characterize the bioactivities of the herbal ext. of **Anoectochilus formosanus**(AF), a popular folk medicine with anticancer activity, in MCF-7 cancer cells. The pharmacogenomic activities of this plant ext. as a crude phytocompound mixt. were compared to those conferred by the single-compd. drug, plumbagin. A similar level of complexity in transcriptional regulation at the genomic level was obsd. for both AF ext.- and plumbagin-treated MCF-7 cells, as revealed by the no. of up- or downregulated g...

+Substances Reactions ~16 Citings Full Text Link 0 Comments 0 Tags

4. **Antitumor and immunostimulating effects of *Anoectochilus formosanus* Hayata**

By Tseng C-C; Shang H-F; Wang L-F; Su B; Hsu C-C; Kao H-Y; Cheng K-T

From Phytomedicine : international journal of phytotherapy and phytopharmacology (2006), 13(5), 366-70. Language: English, Database: MEDLINE

The water extract of **Anoectochilus formosanus** Hayata showed a potent tumor inhibitory activity in BALB/c mice after subcutaneous transplantation of CT-26 murine colon cancer cells. The tumor-inhibition ratios of mice

Chen Chih-Huai
Shyur Lie Fen 4
Tzeng Chi Meng 4
Wang Sheng Yang 4
Yang Ning Sun 4
Chang C Allen 2
Kang Pei Ling 2
Lo Chiu Ping 2
Sun Show Jane 2
Chen Wenjuan 1

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More detailed analysis based on CAS indexing

Categorize

網路網路 | 受保護模式: 關閉

下午 02:31
2011/12/25

台灣金線蓮(*Anoectochilus formosanus*)

由金線蓮抽取物質會誘導 MCF - 7 人類乳腺癌細胞的凋亡，金線蓮萃取物會製造 EA，此物質有很高的活性使細胞凋亡。在各項測試中證明金線蓮萃取物的確可調控影響細胞凋亡的機制。

標題：Induction of apoptosis in MCF-7 human breast cancer cells by phytochemicals from *Anoectochilus formosanus*

作者：Shyur Lie-Fen; Chen Chih-Huai; Lo Chiu-Ping; Wang Sheng-Yang; Kang Pei-Ling; Sun Show-Jane; Chang C Allen; Tzeng Chi-Meng; Yang Ning-Sun

摘要：The antitumor activity of *Anoectochilus formosanus* Hayata (Orchidaceae), a popularly used folk medicine in the treatment of cancers in Asia, was investigated in MCF-7 human mammary carcinoma cells. Plant extracts of *A. formosanus* were observed to induce apoptosis of MCF-7 cells as evidenced by cell-morphological changes, an early redistribution of plasma membrane phosphatidylserine, and DNA content distribution studies. Bioactivity-guided fractionation of **A. formosanus** extracts produced a specific ethyl acetate (EA)-partitioned fraction in which apoptotic activity was enriched. The chemical profile and candidate index compounds of the active EA fraction were obtained using HPLC and various spectral analyses. Western blot analysis showed that upon treatment of MCF-7 cells with the EA fraction, cleavage of pro-caspases-8, -9, and -7, and poly(ADP-ribose) polymerase as well as significant release of mitochondrial cytochrome c into the cytosol were readily

observed. Flow cytometry showed that the Fas ligand protein was overexpressed in EA-treated MCF-7 cells. Functional genomic studies indicated that specific genes related to cytoskeleton rearrangement, apoptotic signal transduction, and various transcription factors were differentially regulated in EA-treated MCF-7 cells. Putative apoptotic signaling pathways of MCF-7 cells in response to the EA extract of *A. formosanus* are proposed.

學習心得：

學校的電子資源十分豐富，在課程中學習到如何去使用它，能幫助我們無論是在尋找資料，或是之後需要相關文獻時很方便。一開始還不是很熟悉，尤其登入時只能有兩個人，所以花了一些時間。接下來在找資料時，關鍵字也是很重要，當只有一個關鍵字時，通常會跑出大量的資料，也很難去找到我們要的，但是配合時間，或是其他進階的搜尋方法時，就能縮小範圍，快速的尋找到我們想要的文獻。而且可以先看摘要，了解他是否為我們要的資料，再下載全文來觀看。還有也可以直接點入觀看那一項物質的相關資料，結構、如何製造等等。

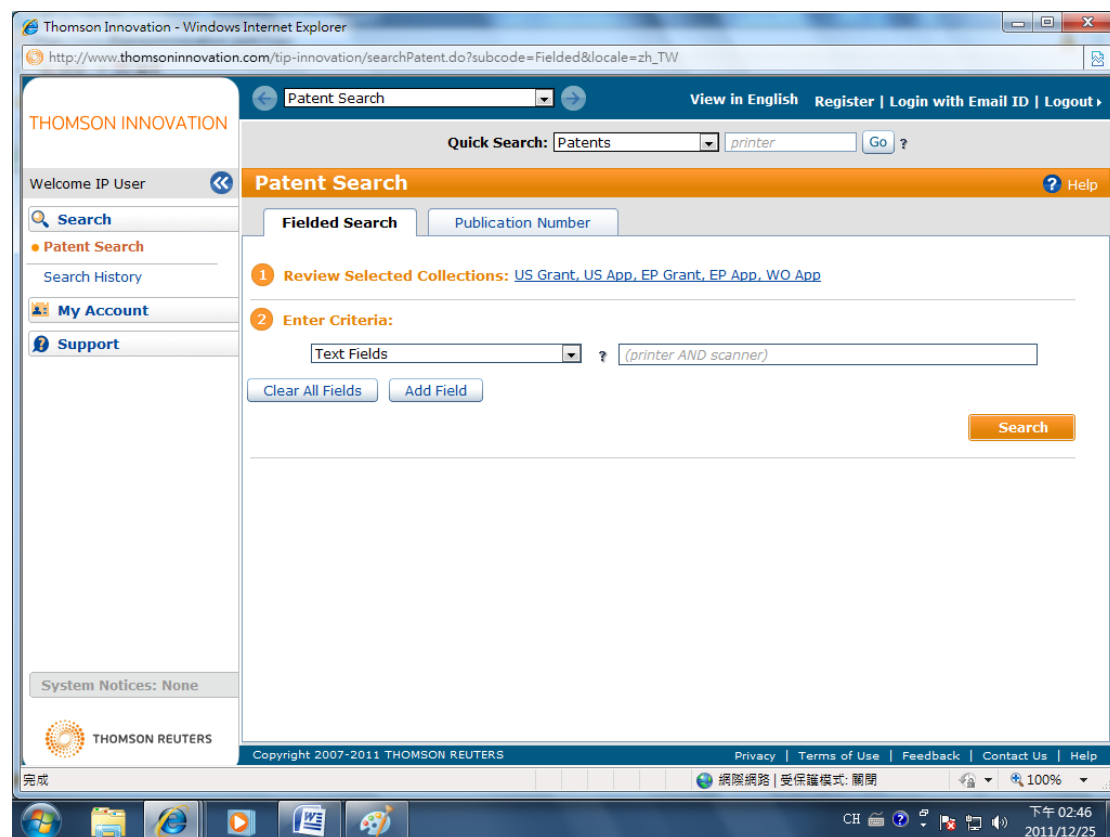
很高興能學到，以及獲得這樣一個資料庫。

二、Thomson innovation

查詢主題：金線蓮和癌症

使用成果：總共 15 個結果，有一篇相關文獻

查詢/使用過程如附圖



標題：Use of **Anoectochilus formosanus** plant extracts and their derived fractions as herbal medicines or nutraceutical supplements for chemoprevention or treatment of human malignancies

金線連萃取物作為人類惡性腫瘤的化學預防或治療的草藥或營養補充品

摘要：這個發明提供藥用活性提取物，從金線連中萃取出有藥用活性的物質可抑制腫瘤細胞生長。

申請者：中研院(Academia Sinica, Tapei, TW)

日期：2006 / 04 / 25 ([US7033617B2](#))

學習心得：

專利是從智慧產權開始後，越來越重要的一項資源及保護。可是眾多的發明中，在尋找相關資料方面卻不知道該如何下手，這次從課程中學習到、認識這一個專利的資料庫收穫很多。當我們很想知道有關於有興趣的主題那一方面有什麼樣的專利時，就可以使用這個資料庫。也可以輔助我們關於研究的方向或是一些前人的資料與資源。

從快速登入進去後，搜尋的介面可以從內文、申請人、編號等等選項，去尋找我們想要的資料，關鍵字一樣重要，也可以搭配一些其他的搜尋引擎或是資料庫一起使用，能更快速找到。也可以從已經找到的資料再做延伸，看看這個申請者有沒有其他的相關資料。能學習到使用方法以及學校提供的資源真是太棒了。