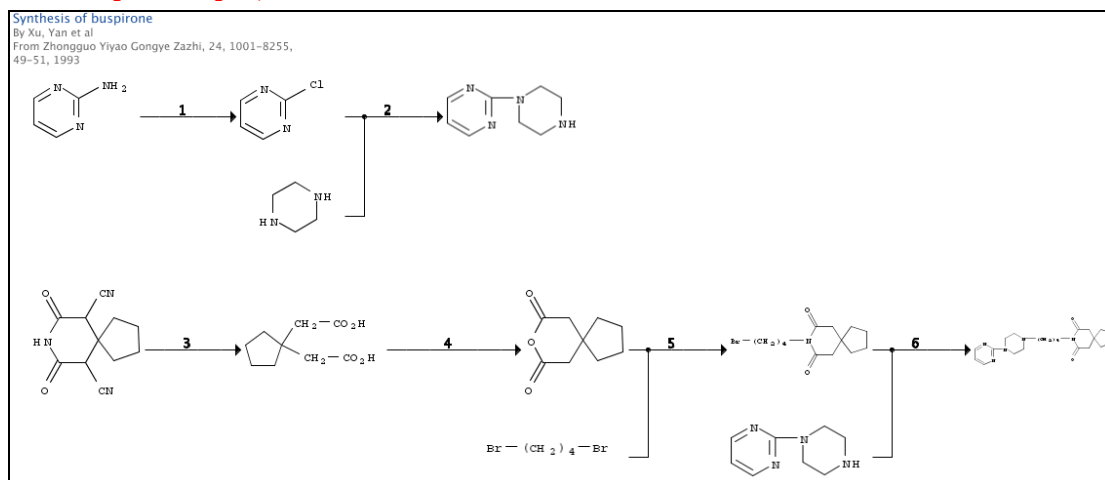


藥學科技(二)

Scifinder

最近藥化課antidepressant章節有教到buspirone，我覺得它的結構很特別，是一個spiro compound，所以用scifinder 搜尋它。由於我對SciPlanner這個功能很有興趣，所以自己參考*Synthesis of Buspirone*(By Xu, Yan; Zhu, Zhihong)(附件SciPlanner.pdf Page 5)，做了一個以“Synthesis of Buspirone”為主題的reaction，並輸出成pdf檔(見附件SciPlanner.pdf)，還有附上Substance Information。



然後，我又在 Explore References 輸入“Buspirone antidepressant”，得到 37 筆資料。

SciFinder - Reference Answer Set - Windows Internet Explorer

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

SciFinder®

Welcome Michelle Hsu | Sign Out

Research Topic "Buspirone antidepressant" > references (37) > Controlled-release oral formul...

References | Get Substances | Get Reactions | Get Related | Tools | Send to SciPlanner

37 References 0 Selected

Select All Deselect All Sort by: Accession Number

Display: 1 2

1. Controlled-release oral formulation of buspirone hydrochloride
By Yoon, Guk Ryeol
From Repub. Korean Kongkae Taeho Kongbo (2010), KR 2010077959 A 20100708. Language: Korean, Database: CAPLUS
The title pharmaceutical formulation comprises buspirone hydrochloride, lipophilic substances selected from glyceryl behenate, hydrogenated cottonseed oil, and hydrophilic polymers selected from hydroxypropyl Me cellulose, hydroxypropyl cellulose, and CM-cellulose sodium. The pharmaceutical formulation has both immediate-release and sustained-release effects.

2. Chronic buspirone treatment decreases 5-HT1B receptor densities and the serotonin transporter but increases the density of 5-HT2A receptors in the bulbectomized rat model of depression: An autoradiographic study
By Sato, Hiroki; Skelin, Ivana; Diksic, Mirko
From Brain Research (2010), 1345, 28-44. Language: English, Database: CAPLUS
The olfactory bulbectomized (OBX) rat model is an animal model of depression. The deregulation of the serotonergic (5-HT) system is implicated in the pathophysiol. of depression. Buspirone is a partial agonist of 5-HT1A receptors and is used in the treatment of depression and anxiety. The aim of this study was to assess, in OBX rats and sham operated controls, the effect of chronic buspirone treatment on the densities of 5-HT2A and 5-HT1B receptors, as well as the 5-HT transporter (5-HTT), which are all important mediators of 5-HT transmission. Male Sprague-Dawley rats (180-240 g) were used...

3. Method using an antidepressant agent for treating thermoregulatory dysfunction or vasomotor symptoms
By Richards, Patricia Allison Teves; Satow, Michael S.
From PCT Int. Appl. (2008), WO 2008060397 A2 20080522. Language: English, Database: CAPLUS

Analysis | Refine

Analyze by: Publication Year

Click bar to view only those references within the current answer set

Year	Count
1998	5
2003	4
2008	3
2002	3
1990	3
2010	2
2004	2
1995	2
1991	2
2007	1

並在右邊用“Publication Year”分析，發現 1998 年的最多。

但我想要新一點的資料，所以用 publication year 2010 來 refine，得到 2 筆資料。

The screenshot shows the SciFinder web interface. The search topic is "Bupirone antidepressant" with 37 references. It is refined by "2010" to show 2 references. The first reference is titled "Controlled-release oral formulation of bupirone hydrochloride" by Yoon, Guk Ryeol. The second reference is titled "Chronic bupirone treatment decreases 5-HT1B receptor densities and the serotonin transporter but increases the density of 5-HT2A receptors in the bulbectomized rat model of depression: An autoradiographic study" by Sato, Hiroki; Skelin, Ivan; Diksic, Mirko. The right sidebar shows an "Analysis" section with "Analyze by: Author Name" and a list of authors with their respective counts: Diksic Mirko (1), Sato Hiroki (1), Skelin Ivan (1), and Yoon Guk Ryeol (1).

其中，我又對 chronic bupirone treatment 較有興趣，所以將它輸出成

[chronic bupirone treatment.pdf](#)

它共有 118 個 cited references，也可以輸出成 pdf 檔。

(見附件 [get cited.pdf](#))

The screenshot shows the SciFinder web interface displaying the "cited references" for the selected article. The search topic is "Bupirone antidepressant" with 37 references, refined by "2010" to show 2 references. The first reference is titled "A genetic rat model of depression, Flinders sensitive line, has a lower density of 5-HT1A receptors, but a higher density of 5-HT1B receptors, compared to control rats" by Nishi, Kyoko; Kanemaru, Kazuya; Diksic, Mirko. The second reference is titled "Anxiety is associated with reduced central serotonin transporter availability in unmedicated patients with unipolar major depression: a [11C]DASB PET study" by Remold, M.; Batra, A.; Knobel, A.; Smolka, M. N.; Zimmer, A.; Mann, K.; Solbach, C.; Reischl, G.; Schwaerzler, F.; Gruender, G.; et al. The right sidebar shows an "Analysis" section with "Analyze by: Author Name" and a list of authors with their respective counts: Leonard B E (7), Diksic Mirko (5), Palacios J M (4), Pazos A (4), Blier P (3), De Montigny C (3), Debonnel Guy (3), Hasegawa Shu (3), Kapur S (3), and Mavris J H (2).

citing references，則有 3 個。

(見附件 get citing.pdf)

The screenshot shows the SciFinder web interface in a Windows Internet Explorer browser. The address bar displays the URL: <https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf>. The page title is "SciFinder - Reference Answer Set". The breadcrumb trail indicates the search path: "Research Topic 'Buspirone antidepressant' > references (37) > refine '2010' (2) > Chronic buspirone treatment de... > citing references (3)".

The main content area displays a list of references. The first two references are visible:

- 1. Neurochemical and behavioural changes in rat models of depression**
By Skelin, Ivan; Kovacevic, Tomislav; Diksic, Mirko
From *Croatia Chemica Acta* (2011), 84(2), 287-299. Language: English, Database: CAPLUS
Depression is one of the most prevalent psychiatric disorders with significant lifetime prevalence. The study of human depression is hindered by the relatively significant heterogeneity of this disorder. As a result of these heterogeneities, studies using a sound and representative animal model of depression are extremely valuable and, in general, provide important information regarding the neurochem./biol. changes occurring during depression and the subsequent treatment of its symptoms. In this review we conc. on two solid rat models of depression: olfactory bulbectomized (OBX) rats and Fl...
- 2. The lumped constant of α -methyl-L-tryptophan is not influenced by drugs acting through serotonergic system**
By Pivac, Nela; Diksic, Mirko
From *Neurochemistry International* (2011), 58(7), 826-832. Language: English, Database: CAPLUS
Lumped const. (LC) is a const. used to convert brain trapping const. of α -methyl-L-tryptophan (using α -14C-methyl-L-tryptophan) into the const. for conversion of tryptophan into serotonin (5-hydroxytryptamine, 5-HT), which can be then used with certain assumptions in the calcn. of the brain regional 5-HT synthesis rate. The aim of the present study was to investigate the acute effects of two drugs on the regional stability of the LC and possible effect on its value. Drugs used were a selective 5-HT reuptake inhibitor, fluoxetine, and a drug that releases 5-HT and inhibits 5-HT uptake, D,L-fe...

The right sidebar contains an "Analysis" section with a "Refine" button and a table titled "Analyze by: Author Name". The table lists authors and their corresponding counts:

Author Name	Count
Diksic Mirko	3
Kovacevic Tomislav	2
Skelin Ivan	2
Pivac Nela	1
Sato Hiroki	1

Below the table is a "Show More" button and a "Categorize" section with a "Categorize" button.

因為時間關係，我沒有一次就把所有要查的東西查好，所以運用 Saved Answer Sets，這樣下次就不用重找了！

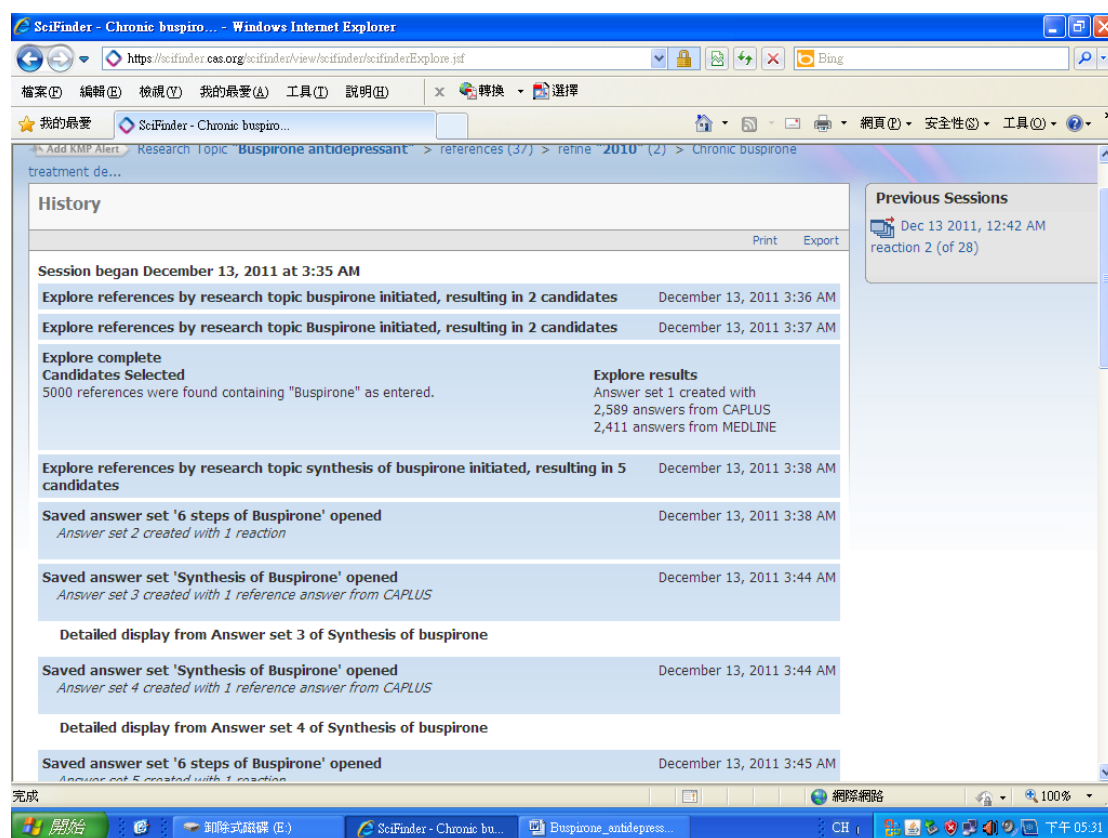
The screenshot shows the SciFinder web interface in a Windows Internet Explorer browser. The address bar displays the URL: <https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf>. The page title is "SciFinder - Chronic buspiro...". The breadcrumb trail indicates the search path: "Research Topic 'Buspirone antidepressant' > references (37) > refine '2010' (2) > Chronic buspirone treatment de...".

The main content area displays the "Explore References" section with various search filters:

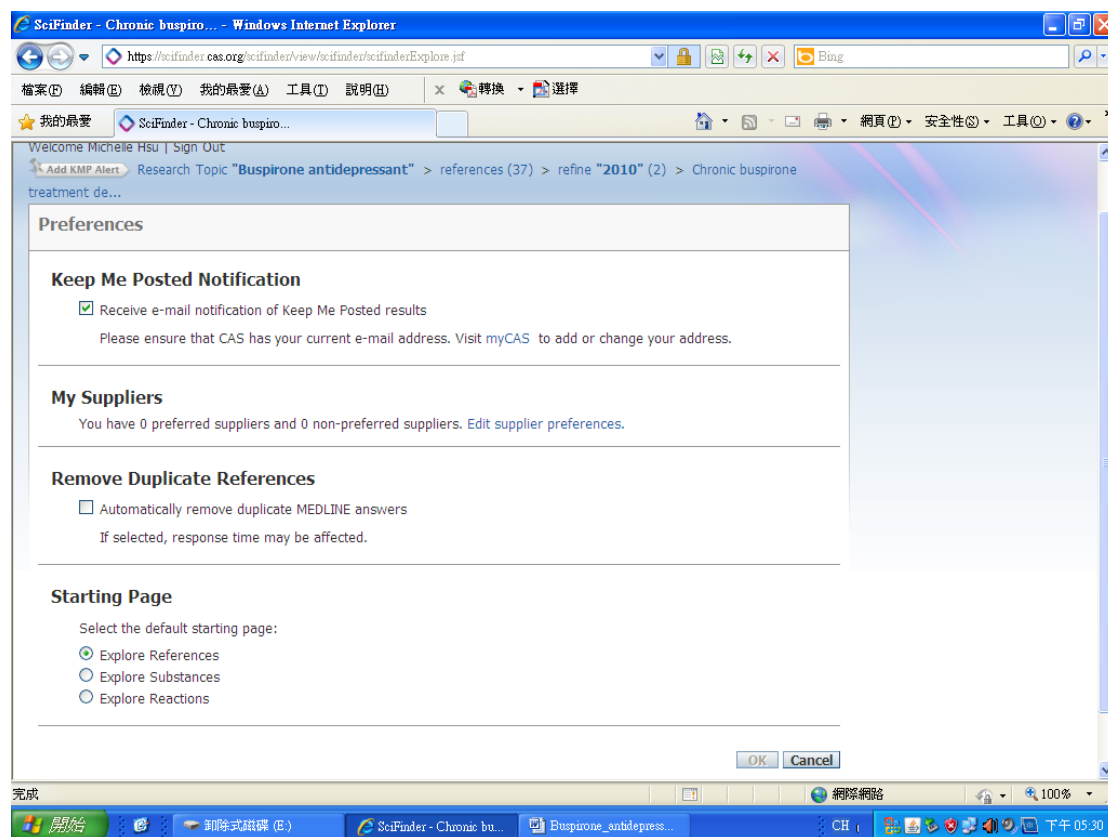
- Research Topic:** A search box with a "Search" button. Examples provided: "The effect of antibiotic residues on dairy products", "Photocyanation of aromatic compounds".
- Author Name:** A dropdown menu.
- Company Name:** A dropdown menu.
- Document Identifier:** A dropdown menu.
- Journal:** A dropdown menu.
- Patent:** A dropdown menu.
- Tags:** A dropdown menu.
- Publication Year(s):** A search box with a dropdown arrow. Examples provided: "1995", "1995-1999", "1995-, -1995".
- Document Type(s):** A grid of checkboxes for various document types:
 - Biography
 - Book
 - Clinical Trial
 - Commentary
 - Conference
 - Dissertation
 - Editorial
 - Historical
 - Journal
 - Letter
 - Patent
 - Preprint
 - Report
 - Review
- Language(s):** A search box with a dropdown arrow. Examples provided: "Chinese", "German", "Polish".

The right sidebar contains a "Saved Answer Sets" section with a "View All" button and an "Import" button. Below it is a "Keep Me Posted Results" section with a "No profiles exist" message.

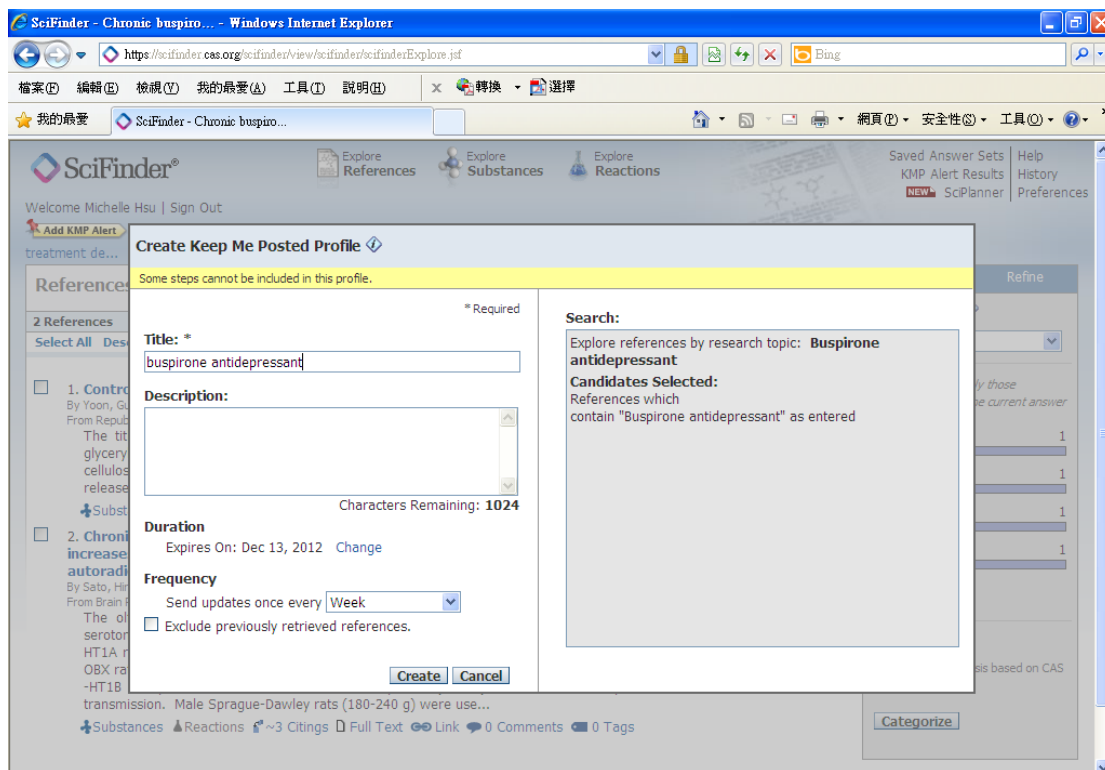
Scifinder 也很貼心的有 History 功能，有需要就可以隨時點回去找剛查過的資料。



若對查找的主題很有興趣，還可以在 Preferences，設定要求它寄信通知最新消息。

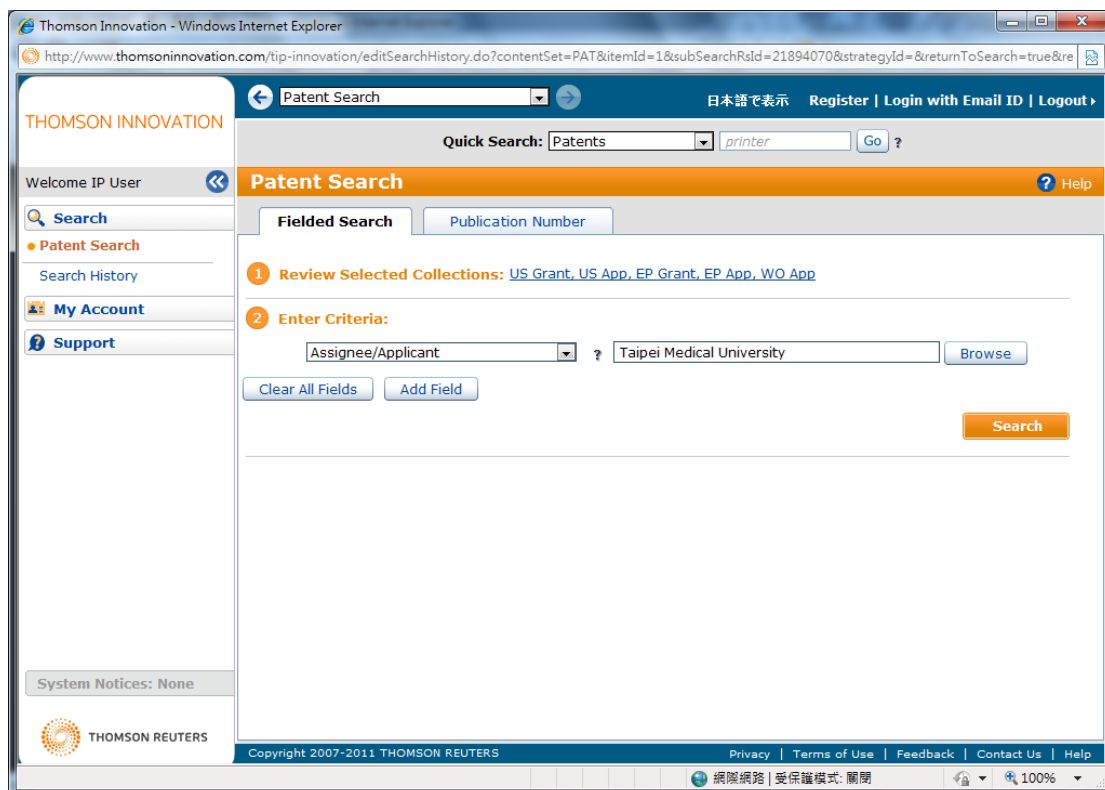


左上角的 Add KMP Alert，更可以進一步設定希望它多久寄一次消息。



Thomson Innovation

我想找學校的專利，所以用 Assignee/Applicant 搜尋 Taipei Medical University。



總共查到 84 筆專利

Thomson Innovation - Windows Internet Explorer
http://www.thomsoninnovation.com/tip-innovation/resultSetPatent.do

Patent Result Set

Quick Search: Patents printer Go ?

Patent Result Set 84 records found out of 18,395,623 searched (Display Limit 30,000)

Return to Search | Display & Sort Options

0 records selected

Save | Alert | Mark List | Download | Charts | Print

Publication Number	Publication Date
US7928188B2	2011-04-19
Title: Antigen polypeptide for the diagnosis and/or treatment of ovarian cancer	
US7906155B2	2011-03-15
Title: Method for increasing an amount of effective constituents from a plant in a solvent	
US7867543B2	2011-01-11
Title: Rice bran flour and method of making thereof	
US7838049B2	2010-11-23
Title: Extracts and compounds for inhibiting tyrosinase activity	
US7807139B2	2010-10-05
Title: Use of outer membrane protein A (OMP) in treatment/prevention/diagnosis of infections caused by Klebsiella pneumoniae and other gram-negative bacteria	
US7741495B2	2010-06-22

Displaying 1 - 10 of 84 Page 1 of 9

Go to Page: Go Display: 10 Records per page

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因為最近化妝品學剛好有教到，可以透過抑制 tyrosinase，抑制 melatonin 生成的機轉來達成美白效果，而且是教我們生藥的李美賢老師的，便點進去看：

Thomson Innovation - Windows Internet Explorer
http://www.thomsoninnovation.com/tip-innovation/recordView.do?pager.offset=3&recordCount=4&parentIds=null&totalRecords=84&fromRecordView=false&datasource=...

Patent Record View - US7838049B2

Record View: Patent US7838049B2

Add to Work File | Mark Record | Watch Record | Download | Print

Quick View

DWPI Title ?
Pyracantha koidzumii extract used for whitening skin, is produced by extracting Pyracantha koidzumii with ethanol to obtain an ethanol extract and extracting the ethanol extract with ethyl acetate to obtain ethyl acetate extract

Original Title ?
Extracts and compounds for inhibiting tyrosinase activity

Abstract ?
The invention provides a *Pyracantha koidzumii* extract and new compounds isolated from the extract and their derivatives. This extract and these compounds have activity in inhibiting tyrosinase.

First Claim ?
1. A *Pyracantha koidzumii* extract, which is produced by the following steps: extracting *Pyracantha koidzumii* with ethanol to obtain an ethanol extract and extracting the ethanol extract with ethyl acetate to obtain ethyl acetate extract.

Assignee / Applicant ?
Standardized: UNIV TAIPEI MEDICAL
Original: Taipei Medical University, Taipei, TW

Record 4 of 84

Images

Image 1/5

Zoom (+)

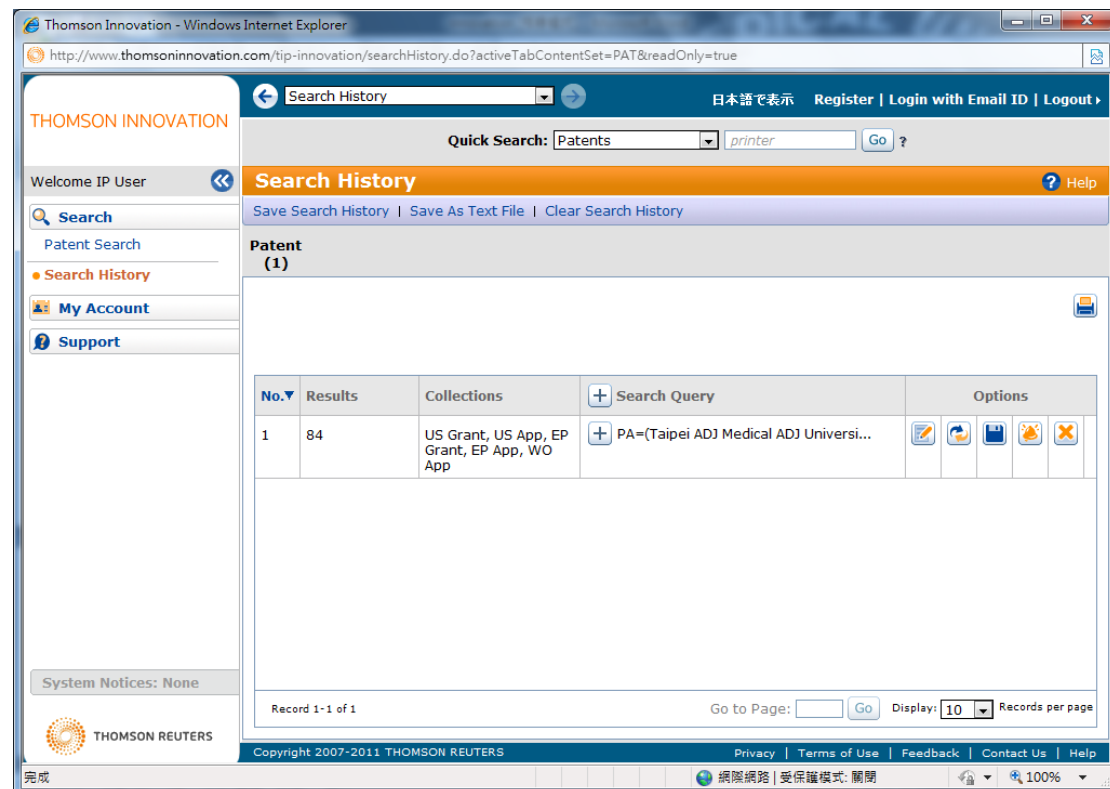
Cellular tyrosinase activity (%)

Condition	Cellular tyrosinase activity (%)
Medium	100
EtOAc ext.	55
Arbutin	75

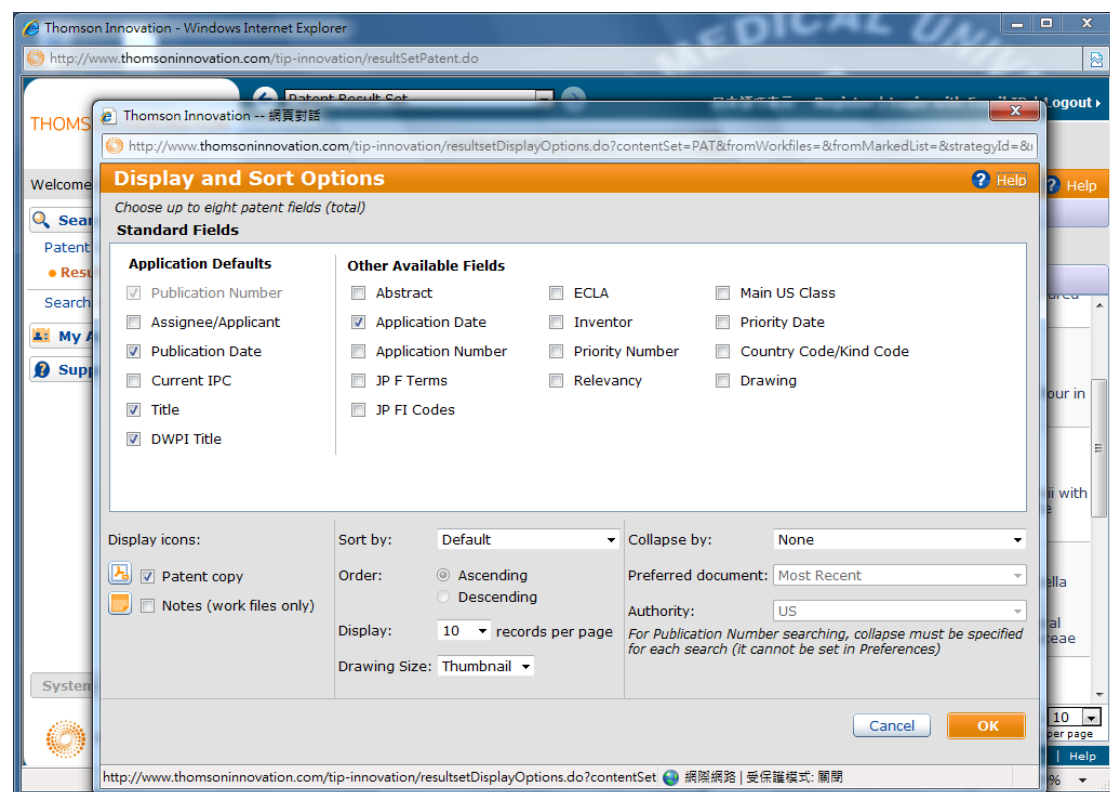
1 2 3 4 5 6 7

Mark and Next

Thomson Innovation 跟 Scifinder 一樣有輸出成 pdf 檔的功能(見附件 tyrosinase.pdf)
另外，也跟 Scifinder 一樣有 Search History 的功能：



點右邊第 2 個圖 rerun，就可以重新回到搜尋學校專利的頁面
我也嘗試使用 Display and Sort Options 的功能：



發現頁面上的資料更一目瞭然了！

Thomson Innovation - Windows Internet Explorer

http://www.thomsoninnovation.com/tip-innovation/resultSetPatent.do

THOMSON INNOVATION

Welcome IP User

Search

Patent Search

Result Set

Search History

My Account

Support

System Notices: None

THOMSON REUTERS

Patent Result Set

Quick Search: Patents

日本語で表示 Register | Login with Email ID | Logout

84 records found out of 18,395,623 searched (Display Limit 30,000)

Return to Search | Display & Sort Options

0 records selected

Save | Alert | Mark List | Download | Charts | Print

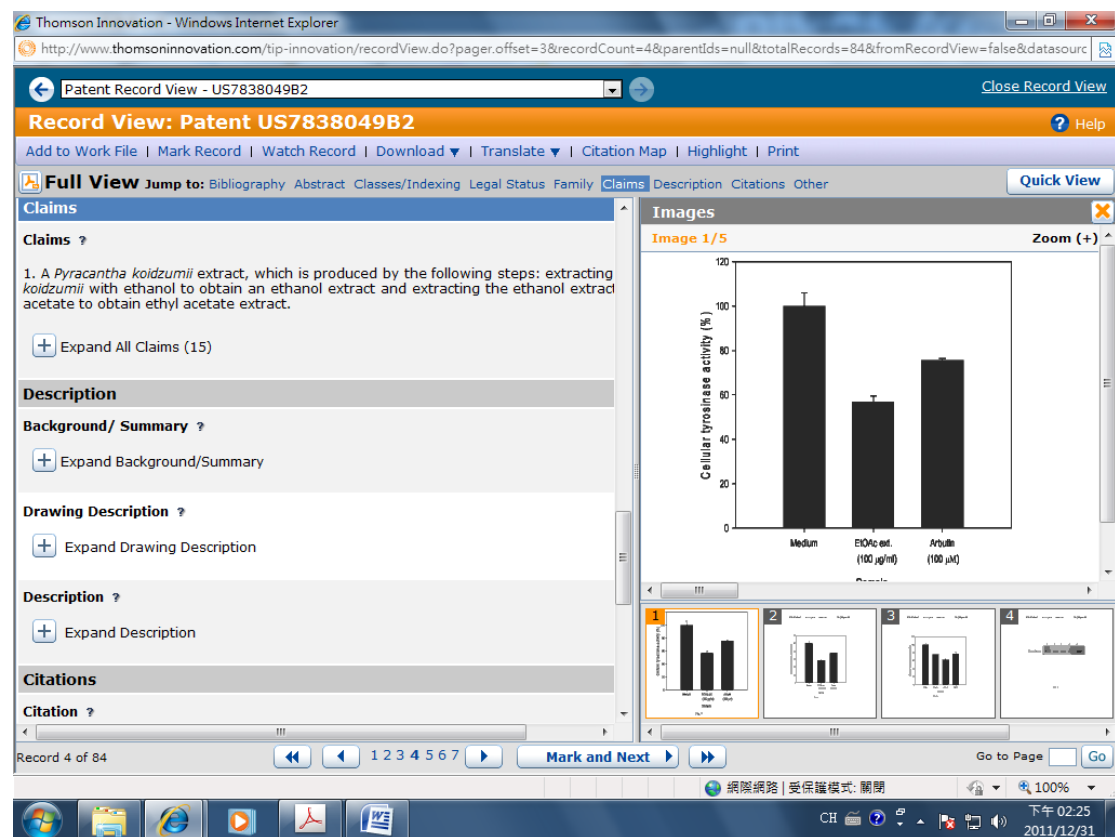
	Publication Number	Publication Date	Application Date
☐	US7928188B2	2011-04-19	2008-10-30
	Title: Antigen polypeptide for the diagnosis and/or treatment of ovarian cancer DWPI Title: New antigen polypeptide, useful for detecting, diagnosing, treating and preventing ovarian cancer		
☐	US7906155B2	2011-03-15	2007-09-18
	Title: Method for increasing an amount of effective constituents from a plant in a solvent DWPI Title: Method for increasing effective components of plant in solvent, involves treating solvent with far infrared ray material, and effective components of plant are extracted by treated solvent		
☐	US7867543B2	2011-01-11	2005-10-19
	Title: Rice bran flour and method of making thereof DWPI Title: Rice bran flour making used to nutriment or health foods involves treating rice bran and rice bran flour in double boiler under high pressure and high temperature		
☐	US7838049B2	2010-11-23	2009-01-23
	Title: Extracts and compounds for inhibiting tyrosinase activity DWPI Title: Pyracantha koidzumii extract used for whitening skin, is produced by extracting Pyracantha koidzumii with ethanol to obtain an ethanol extract and extracting the ethanol extract with ethyl acetate to obtain ethyl acetate		

Displaying 1 - 10 of 84

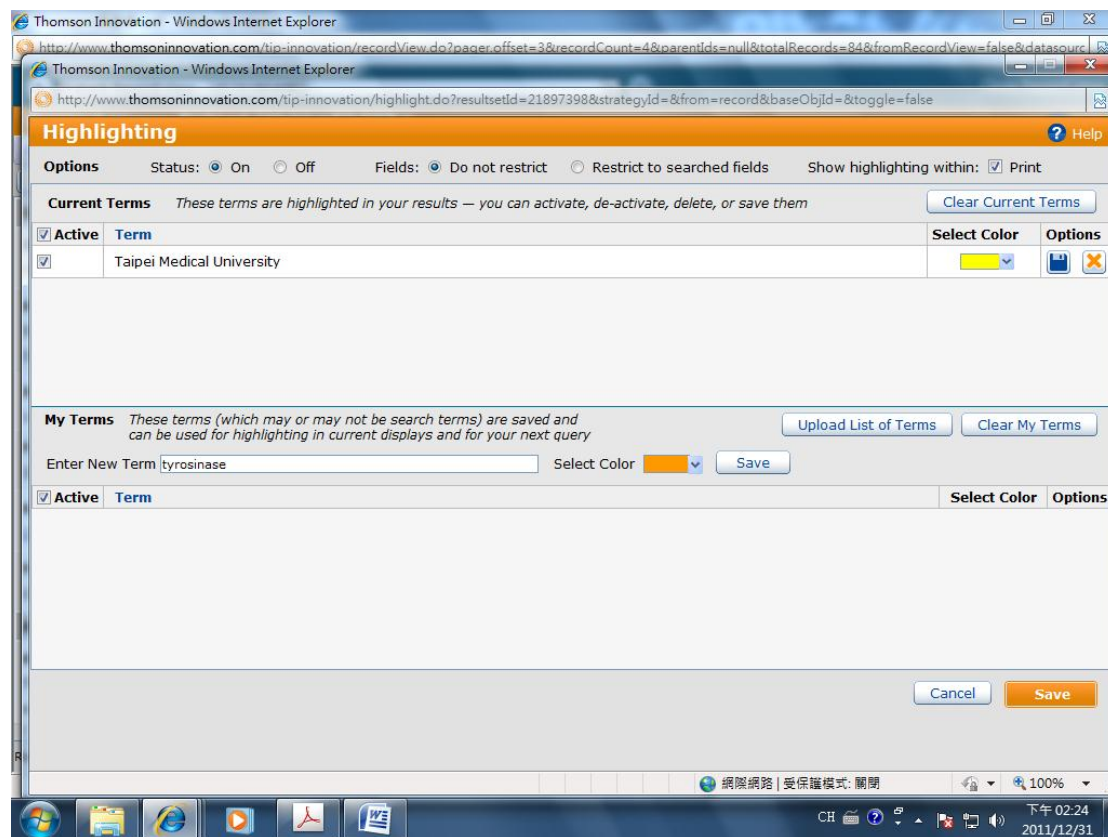
Go to Page: [] Go Display: 10 Records per page

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跟 Scifinder 較不一樣的是它有 Jump to 的功能，我點了 Claims，就可以直接看。



本來，我想利用 Highlight 功能，將 tyrosinase 都標示出來，可是需要帳號密碼，只好放棄。



我接著嚐試好幾個功能都需要帳號密碼，所以無法呈現出來。

總心得：**Scifinder** 真的是一個很有用又有趣的資料庫，不僅可以查到可信度高且正確的資料，還能視需求連結到很多相關的資料。其中，我最喜歡的就是 **Sciplanner** 這個功能，能依自己的意思做出屬於自己的東西，很有成就感！**Thomson Innovation** 這個專利檢索平台感覺也很好用，但是因為沒有帳號密碼，所以很多功能都不能用，很可惜！

我個人覺得 **Scifinder** 比較實用，可能是因為我們能使用的功能比較多的關係。不過我們現在身處的地球村越來越注重智慧財產權，透過 **Thomson** 這個平台可以找到世界各地的專利，真的非常方便，而且不僅不用怕自己做出來的東西已經有人申請過專利，還能從別人申請過的專利找靈感，一舉兩得！

這兩個電子資源，對現在身處這個資訊爆炸時代的我們來說，真的是很大的福利，尤其是對將來要走學術路線，或進入研發領域的人來說一定有很大的用處！很謝謝老師請專人介紹這兩個平台給我們，這樣將來一旦有需要時，就能快速上手了！