

藥學科技(二)報告

“Scifinder” and “Thomson Innovation” 使用成果

Scifinder 使用情況

我想知道“大蒜對於降膽固醇的功效及其機轉”

Step 1 在 Research Topic 搜尋欄位輸入“garlic”和“cholesterol”這二個關鍵字。

1. 可限定搜尋結果的年份, ex. 我只想要 2011 年發表的論文或 2000 年至 2010 年所發表的等等。
2. 可選擇想要的文獻類型。

The screenshot shows the SciFinder search interface. The search bar contains the text "garlic cholesterol". Below the search bar, there are several filter options. The "Publication Year(s)" filter is set to "1995-1999, 1995-", and the "Document Type(s)" filter is set to "Journal". Red boxes highlight the search bar and the filter options, with circled numbers 1 and 2 indicating the year and document type filters respectively.

Step 2 選取符合自己需求的檢索結果

cholesterol. The concd. soln. of natural components comprises 70-95% of a functional acidic polysaccharide having a low viscosity derived seaweed; 0.2-5% of fucosterol derived from brown algae; and 2-25% of a **garlic** ext. Preferably the acidic polysaccharide derived seaweed is at least one selected from fucoidan, laminaran and porphyran. The prepn. method comprises the steps of (1) extg. an acidic polysaccharide fr...

Substances Reactions Citings Full Text Link Comments Tags

7. **The effects of dietary garlic powder on the performance, egg traits and blood serum cholesterol of laying quails**

By Yalcin, Sakine; Onbasilar, Ilyas; Sehu, Adnan; Yalcin, Suzan

From Asian-Australasian Journal of Animal Sciences (2007), 20(6), 944-947. Language: English. Database: CAPLUS

This study was conducted to study the effects of dietary **garlic** powder on laying performance, egg traits and blood serum **cholesterol** level of quails. A total of three hundred quails (*Coturnix coturnix japonica*) aged nine weeks were used. They were allocated to 3 dietary treatments. Each treatment comprised 5 replicates of 20 quails. The diets were supplemented with 0, 5 and 10 g/kg **garlic** powder. The exptl. period lasted 21 wk. The addn. of **garlic** powder did not significantly affect body wt., egg prodn., feed consumption, feed efficiency, egg shell thickness, egg albumen index, egg yolk ...

Substances Reactions Citings Full Text Link Comments Tags

8. **Inhibition of sterol 4 α -methyl oxidase is the principal mechanism by which garlic decreases cholesterol synthesis**

By Singh, Deep Ka; Bostler, Todd D.

From Journal of Nutrition (2006), 136(3, Suppl.), 759S-764S. Language: English. Database: CAPLUS

Clin. and exptl. evidence indicates that **garlic** ingestion lowers blood **cholesterol** levels, and treatment of cells in culture with **garlic** and **garlic**-derived compds. inhibits **cholesterol** synthesis. To identify the principal site of inhibition in the cholesterologenic pathway and the active components of **garlic**, cultured hepatoma cells were treated with aq. **garlic** ext. or its chem. derivs., and radiolabeled **cholesterol** and intermediates were identified and quantified. **Garlic** ext. reduced **cholesterol** synthesis by up to 75% without evidence of cellular toxicity. Levels of squalene and 2,3-oxidosq...

Substances Reactions Citings Full Text Link Comments Tags

9. **S-Alk(en)yl cysteines of garlic inhibit cholesterol synthesis by deactivating HMG-CoA reductase in cultured rat hepatocytes**

By Liu, Lijuan; Yeh, Yu-Yan

From Journal of Nutrition (2002), 132(6), 1129-1134. Language: English. Database: CAPLUS

The effects of water-sol. organosulfur compds. of **garlic** on hepatic **cholesterol** biosynthesis in cultured rat hepatocytes were studied. S-Alk(en)yl cysteines, i.e., S-allyl cysteine (SAC), S-Et cysteine (SEC) and S-Pr cysteine (SPC) inhibited **cholesterol** synthesis from [14C]acetate but not from [14C]mevalonate. The activity of 3-hydroxy-3-methylglutaryl CoA (HMG-CoA) reductase in the cells treated with SAC, SEC and SPC was 30-40% lower than that of the untreated cells. S-Alk(en)yl cysteines did not alter abundance of mRNA coded for HMG-CoA reductase or protein concn. of the enzyme. The rati...

Substances Reactions Citings Full Text Link Comments Tags

10. **Food labeling: health claims; garlic, reduction of serum cholesterol, and the risk of cardiovascular disease in adults**

By Food Drug Administration, HHS

From Federal Register (1998), 63(119), 34110-34112. Language: English. Database: CAPLUS

The Food and Drug Administration (FDA) is issuing an interim final rule to prohibit the use on foods of a claim relating to the relationship between **garlic**, decreased serum **cholesterol**, and the risk in adults of cardiovascular disease. This interim final rule is in response to a notification of a health claim submitted under section 303 of the FDA Modernization Act of 1997

Step 3 點選鍵結進入該論文的詳細記錄畫面

1. 畫面的右邊“Source”欄位可得知此論文的資訊 ex.發表在哪一本期刊、第幾頁、發

表年份等。

2. Scifinder 檢視的結果皆只有摘要，若要檢視全文可點選畫面上方的“Get Full Text”。
3. 若想儲存檢視的文章可點選“Save”。

Step 4 觀看全文之後，我了解大蒜是藉由抑制 sterol 4 α -methyl oxidase 來達到降膽固醇的功效，而有效成分為 diallyl disulfide, diallyl trisulfide, and allyl mercaptan，這時我想知道這些成分的結構，我可以點選主畫面上方的“Explore Substances”。

1. 在畫面的左方有“Chemical Structure”、“Molecular Formula”、“Substance Identifier”可供選擇，因為我不知道這些成分的結構式和分子式，因此我點取“Substance Identifier”來搜尋我要的資訊。
2. 在欄位中輸入欲搜尋的物質。

Step 5 選取符合自己需求的檢索結果

進入頁面之後可得知此物質的分子式、結構式還有化學性質 ex. Solubility, Density, Boiling point, NMR spectrum 等。

SciFinder®

Welcome jhunpei chou | Sign Out

Add KMP Alert Substance Identifier "diallyl disulfide" > substances (1)

Substances Get References Get Reactions Tools NEW Send to SciPlanner

1 Substance 0 Selected Save Print Export

Select All Deselect All Sort by: CAS Registry Number ↓

Answers per Page [15]

View: [] [] [] []

1. Substance Detail
2179-57-9

$$\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{S}-\text{S}-\text{CH}_2-\text{CH}=\text{CH}_2$$

C₆ H₁₀ S₂
Disulfide, di-2-propen-1-yl

Step 6 點選畫面上方的“Send to SciPlanner”可將此結構貼到 SciPlanner 上，在 SciPlanner 可以瞭解關於此化合物的化學反應、要怎麼合成、商業來源等資訊。

SciFinder®

Welcome jhunpei chou | Sign Out

Add KMP Alert Substance Identifier "diallyl disulfide" > substances (1) > 2179-57-9 > get reactions (0) > get reactions (0) > get reactions (0) > commercial sources (17)

Substance Detail Get References Get Reactions Get Commercial Sources Get Regulatory Info NEW Send to SciPlanner

Link Save Print Export

Return

CAS Registry Number: 2179-57-9

C₆ H₁₀ S₂
Disulfide, di-2-propen-1-yl

Allyl disulfide (6CI,7CI,8CI); Disulfide, di-2-propenyl (9CI); 4,5-Dithia-1,7-octadiene; Bis(2-propenyl) disulfide; Di(2-propenyl) disulfide; Diallyl disulfide; Diallyl disulphide; Dipropenyldisulfide; Garlicin; NSC 29228

$$\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{S}-\text{S}-\text{CH}_2-\text{CH}=\text{CH}_2$$

SciFinder®

SciPlanner SciPlanner_11_25_2011_205234

Workspace Edit View GoTo

CAS Registry Number: 77-65-6

View Substance Detail

Explore by Structure

Synthesize this...

Get Reactions where Substance is a

Get Commercial Sources

Get Regulatory Information

Get References

Export as Image

Product

Reactant

Reagent

Reactant/Reagent

Catalyst

Solvent

Any Role

Scifinder 使用心得

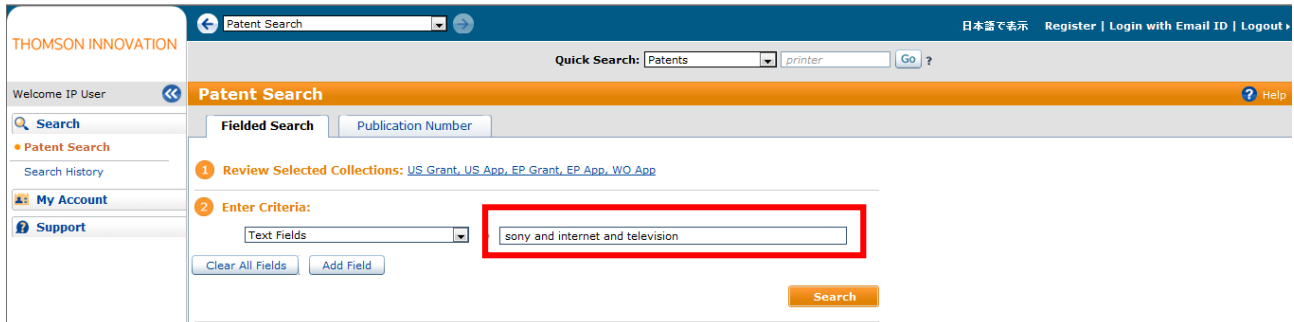
在使用 Scifinder 之前我最常用的論文搜尋平台是 PubMed，但是在使用 Scifinder 之後我發現它比 PubMed 來得更方便，所能蒐集到的資訊也較多，Scifinder 不僅能蒐訊論文、還能查詢化合物的結構、化學性質、甚至連合成方法、商業來源都可輕易的查到，而 PubMed 雖然也能查到這些資料，但可能需要重複輸入一些關鍵字來搜尋，而 Scifinder 譬如說我想查 acetaminophen 的結構和它的合成方法，我只要點選主畫面上方的“Explore Substances”輸入 acetaminophen 就可找到它的結構，再將此結構貼到 SciPlanner 上就可找到合成方法，就連關於 acetaminophen 的化學反應都可輕易查到，Scifinder 真的是提供我們一個很棒的化學知識檢

索平台，資料內容多、方便又快速。

Thomson Innovation 使用情況

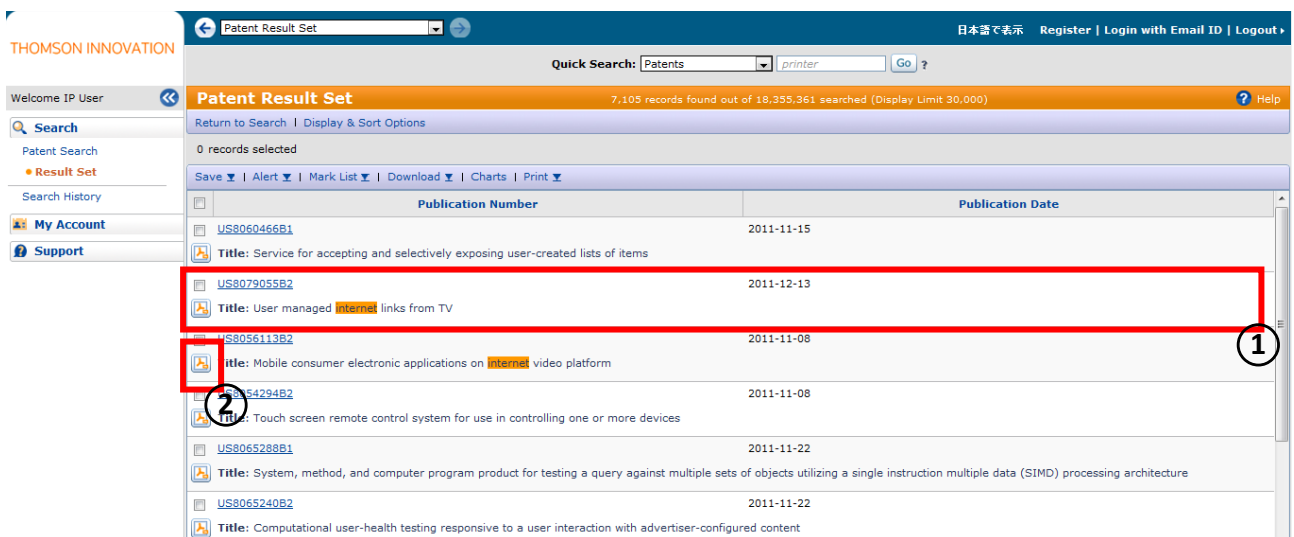
前陣子在電視廣告上看到 Sony 推出新一代的液晶電視，而與眾不同的是這款電視又稱為 Internet TV，也就是說它結合了傳統電視與網際網路的功能，除了觀看電視節目外，還能即時查看社群網站的最新動態，以及觀看 youtube 上的影片等，而我想知道 Sony 公司在 Internet TV 這一塊有沒有申請專利，以下是我利用 Thomson Innovation 查詢的結果：

Step 1 在搜尋欄位輸入“sony and internet and television”這三個關鍵字。



Step 2 選取符合自己需求的檢索結果

1. 在搜尋結果的 Page 3 我看到了符合我要搜尋的東西 “User managed Internet links from TV”。
2. 點選 PDF 的圖示可下載該專利的全文。



Step 3 點選鍵結進入該專利的詳細記錄畫面

1. 該專利的摘要
2. 該專利的申請者
3. 該專利的申請序號、申請日期、核准序號、核准日期

Patent Record View - US8079055B2 Working... Close Record View

Record View: Patent US8079055B2 Help

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

Quick View Go to Full View

DWPI Title ?

Original Title ?
User managed [internet](#) links from TV

Abstract ?

A method of obtaining metadata associated with an element of **television** programming involves instructing an access device to generate and communicate a signal to a control device suitable for driving a display, wherein the signal contains metadata suitable for rendering on a display device in a visual representation; receiving the signal and storing a representation of the video frame; processing the video frame using OCR to extract enough information to identify an element of **television** programming content from the video frame; processing the video frame to extract sufficient information to identify an element of **television** programming content from the video frame; and retrieving metadata associated with the identified element of **television** programming content from a **television** programming content source of metadata. This abstract is not to be considered limiting, since other embodiments may deviate from the features described in this abstract.

First Claim ?

1. A method of obtaining metadata associated with **television** programming content, comprising:

- instructing, via a digital **television** device that does not have direct access to the metadata, an access device to generate and communicate a signal to the digital **television** device suitable for driving a **television** display of the digital **television** device, where the signal contains visual metadata in a video format suitable for rendering on the **television** display of the digital **television** device in a visual representation;
- receiving the signal at the digital **television** device and storing a representation of a video frame within a memory of the digital **television** device;
- processing the video frame via the digital **television** device using optical character recognition (OCR) of the visual metadata to extract enough information to identify the **television** programming content from the video frame;
- retrieving additional metadata associated with the identified **television** programming content from a **television** programming content source of metadata; and

Record 22 of 7105 19 20 21 22 23 24 25 Mark and Next

Images Go to Full View

Image 5/16

Patent Record View - US8079055B2 Working... Close Record View

Record View: Patent US8079055B2 Help

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Quick View Go to Full View

- displaying the retrieved additional metadata on the **television** display of the digital **television** device at a configured time other than a time at which the additional metadata is retrieved.

Assignee / Applicant ?

Original: Sony Electronics Inc., Park Ridge, NJ, US

Inventor ?

Hardacker Robert L., Escondido, CA, US [Candelore Brant L., San Diego, CA, US](#)

Publication Number / Date ? **Application Number / Date ?**

US8079055B2 / 2011-12-13 [US2009587783A](#) / 2009-10-13

Priority Number / Date ?

[US2009587783A](#) / 2009-10-13

IPC ?

	Current IPC	Invention	Version	Additional	Version
Full		H04N 7/173	20060101	G06F 13/00 G06F 7/00 G06F 17/30 G06K 7/10	20060101 20060101 20060101 20060101
Main Group	-	-	-	-	-
Subclass	-	-	-	-	-
	Original IPC	Invention	Version	Additional	Version

Images Go to Full View

Image 5/16

Thomson Innovation 使用心得

Thomson Innovation 提供我們一個專利檢索的平台，在 Thomson Innovation 上我們可以搜尋到目前為止已申請過的專利，“專利”在現今講求智慧財產權的時代可說是非常重要的，就以新藥研發來說，藥廠研發出新藥皆會向專利局申請專利來保護他們的產品，在專利期內保護辛辛苦苦研發出的新藥免於被他人輕易的仿冒販賣。另外，Thomson Innovation 對於從事研發工作的人來說是一套非常實用的工具，同樣以新藥研發來說，在藥廠發現或合成出任何可能有生理活性的物質後，應先搜尋此物質是否已經有人做過且申請過專利，若是等到已經要準備上市的時候才突然發現原來這早已有有人做過，那之前研發新藥所花的時間、所砸下去的金錢不是全都泡湯了，一個新藥從研發到上市少說也需要 10 年左右，且新藥上市前的臨床實驗也需要一筆龐大的支出，這些時間和金錢上的花費對藥廠來說都是很大的成本，再者，若是你所上市的新藥早已有有人申請過專利，那麼對方很有可能控告你侵權，到時又需支付一筆賠償費，沒有一間藥廠能夠承擔起這種損失的。Thomson Innovation 真的是提供我們一個很好的專利檢索平台，在從事研發前先查查是不是有人已經申請過專利了，免得到最後所做的努力全都白費了。