

SciFinder Training



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1. 基本功能介紹
2. 進階功能介紹
3. 實際例子 Demo
4. 新功能介紹

基本功能介紹

基本功能介紹

The screenshot shows the SciFinder web interface. At the top, there are navigation tabs: "Explore", "Saved Searches", and "SciPlanner". On the left side, there are three main search categories, each with a list of search criteria:

- REFERENCES** (highlighted with a red box):
 - Research Topic
 - Author Name
 - Company Name
 - Document Identifier
 - Journal
 - Patent
 - Tags
- SUBSTANCES** (highlighted with a blue box):
 - Chemical Structure
 - Markush
 - Molecular Formula
 - Property
 - Substance Identifier
- REACTIONS** (highlighted with a green box):
 - Reaction Structure

In the center of the interface, there is a search input field. Below it, there are examples of search terms: "The effect of antibiotic residues on dairy products" and "Photocyanation of aromatic compounds". A blue "Search" button is located below the examples. A "Advanced S" link is also visible.

Three callout boxes with red borders and white text point to specific search criteria:

- A callout box labeled "關鍵字查詢" (Keyword Search) points to the "Research Topic" criterion under REFERENCES.
- A callout box labeled "化學結構式(物質)查詢" (Chemical Structure (Substance) Search) points to the "Chemical Structure" criterion under SUBSTANCES.
- A callout box labeled "反應查詢" (Reaction Search) points to the "Reaction Structure" criterion under REACTIONS.

SciFinder®

Explore ▾ **Saved Searches ▾** SciPlanner

Saved Answer Sets
Keep Me Posted
History

SAVED ANSWER SETS

0 of 54 Reference Answer Sets Selected

References (54) Substances (23) Reactions (2)

- Autosaved Reference Set (52)
An answer set was automatically saved because the session ended due to inactivity on Sun Aug 16 23:58:33 EDT 2015.
Opened saved answer set "DYY Lab" (52)
- TSRC Q (1)
2530-86-1
Patent "jp5682599" > references (1) > Conjugated diene polymer, method for producing conjugated diene polymer, and conjugated diene polymer composition for tires
- 345 (1148)
Markush substructure > references (1223) > Combine Reference Answer Sets "123 (388)" (1148)
- 123 (388)
Substance Identifier "2530-86-1 " > substances (1) > get references (388)
- Sample of PP viewer (1)
Patent "wo2014018208" > references (1)

Explore ▾

Saved Searches ▾

SciPlanner

文獻自動搜尋

Saved Answer Sets

Keep Me Posted

History

KEEP ME POSTED

SAVED SEARCHES

Saved Answer Sets

Keep Me Posted

History

▾ 0 of 8 Profiles Selected

LED

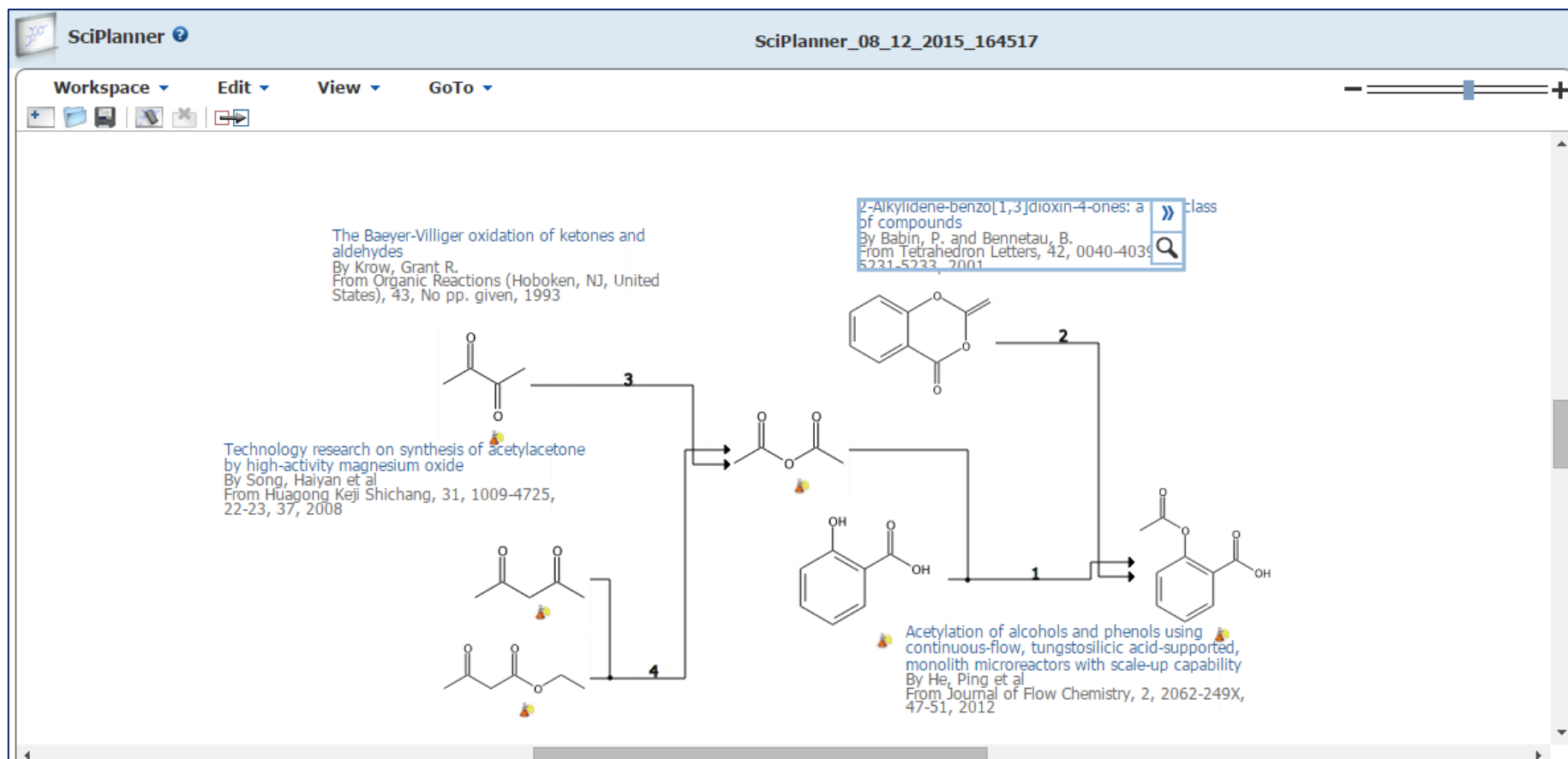
Edit

▶ Search Strategy:

Results Combine | Delete

<input type="checkbox"/>	Aug 22, 2015 (13)	Link
<input type="checkbox"/>	Aug 15, 2015 (3)	Link
<input type="checkbox"/>	Aug 8, 2015 (6)	Link
<input type="checkbox"/>	Aug 1, 2015 (7)	Link
<input type="checkbox"/>	Jul 25, 2015 (13)	Link
<input type="checkbox"/>	Jul 18, 2015 (8)	Link
<input type="checkbox"/>	Jul 11, 2015 (17)	Link
<input type="checkbox"/>	Jul 4, 2015 (6)	Link
<input type="checkbox"/>	Jun 27, 2015 (15)	Link
<input type="checkbox"/>	Jun 20, 2015 (13)	Link
<input type="checkbox"/>	Jun 13, 2015 (7)	Link
<input type="checkbox"/>	Jun 6, 2015 (11)	Link

自行建立合成途徑



進階功能介紹

進階功能運用 – Citing References

The screenshot illustrates the 'Citing References' workflow in SciFinder. It is divided into two main sections: a search input area and a refinement panel.

Step 1: The left sidebar under the 'REFERENCES' section has 'Company Name' highlighted with a red circle. A red arrow points from this circle to the search input field in the main area, which contains the text 'National Taiwan Univ'. Below the input field are examples: '3M' and 'DuPont', and a blue 'Search' button.

Step 2: The right sidebar, also titled 'REFERENCES', has the 'Refine' button highlighted with a red circle. Below it, the 'Refine by:' section has the 'Author' radio button selected and highlighted with a red circle. Other options include 'Research Topic', 'Company Name', 'Document Type', 'Publication Year', 'Language', and 'Database'. Below the radio buttons are input fields for 'Author Name', 'Last *', 'First', and 'Middle', followed by a 'Refine' button.

3

Analyze Refine Categorize

Analyze by: [?](#)

Author Name ▼

Yang Jye Shane 59

Huang Guan Jih 13

Sun Wei Ting 12

Huang Shou Ling 11

Lin Ying Chih 11

Huang Hsin Hau 9

Peng Shie Ming 9

Yan Jyu Lun 9

Chao Ito 8

Lin Cheng Kai 8

[Show More](#)

Sort by: Citing References ▼

0 of 59 References Selected

Page: 1 of 3

1. Central-ring functionalization and application of the rigid, aromatic, and H-shaped pentiptycene scaffold

[Quick View](#) [Other Sources](#)

By **Yang, Jye-Shane**; Yan, Jyu-Lun
 From Chemical Communications (Cambridge, United Kingdom) (2008), (13), 1501-1512. | Language: English, Database: CAPLUS

A review. The progress of pentiptycene chem. is reviewed. Pentiptycene belongs to the iptycene family and possesses a rigid, arom., and H-shaped scaffold. An important feature for pentiptycene vs. triptycene is the presence of a sterically shielded central benzene ring. Such a feature led to the use of pentiptycene as a conformational regulator and in the formation of functional mol., including fluorescent chemosensors, mol. machines, low dielec. const. materials, and porous solids. The synthesis of these materials relies on central-ring prefunctionalized pentiptycene building blocks. A useful approach toward the prep. of these building blocks is the derivatization of pentiptycene quinone.

~77

2. Meta Conjugation Effect on the Torsional Motion of Aminostilbenes in the Photoinduced Intramolecular Charge-Transfer State

[Quick View](#) [Other Sources](#)

By **Yang, Jye-Shane**; Liao, Kang-Ling; Li, Chun-Yi; Chen, Mon-Yao
 From Journal of the American Chemical Society (2007), 129(43), 13183-13192. | Language: English, Database: CAPLUS

formation of a TICT state? YES → NO NO → YES

The photochem. behavior of a series of trans-3-(N-arylamino)stilbenes (m1, aryl = 4-substituted Ph with a substituent of cyano (CN), hydrogen (H), Me (Me), or methoxy (OM)) in both nonpolar and polar solvents is reported and compared to that of the corresponding para isomers (p1CN, p1H, p1Me, and p1OM). The distinct propensity of torsional motion toward a low-lying twisted intramol. charge-transfer (TICT) state from the planar ICT (PICT) precursor between the meta and para isomers of 1CN and 1Me reveals the intriguing meta conjugation effect and the importance of the reaction kinetics. Whereas the poor charge-redistribution (delocalization) ability through the meta-phenylene bridge accounts for the unfavorable TICT-forming process for m1CN, it is such a property that slows down the decay processes of fluorescence and photoisomerization for m1Me, facilitating the competition of the single-bond torsional reaction. In contrast, the quinoidal character for p1Me in the PICT state kinetically favors both fluorescence and photoisomerization but disfavors the single-bond torsion. The resulting concept of thermodynamically allowed

but kinetically inhibited TICT formation could also apply to understanding the other D-A systems, including trans-4-cyano-4'-(N,N-dimethylamino)stilbene (DCS) and 3-(N,N-dimethylamino)benzointrile (3DMABN).

~56

3. Photoisomerization of the green fluorescence protein chromophore and the meta- and para-amino analogues

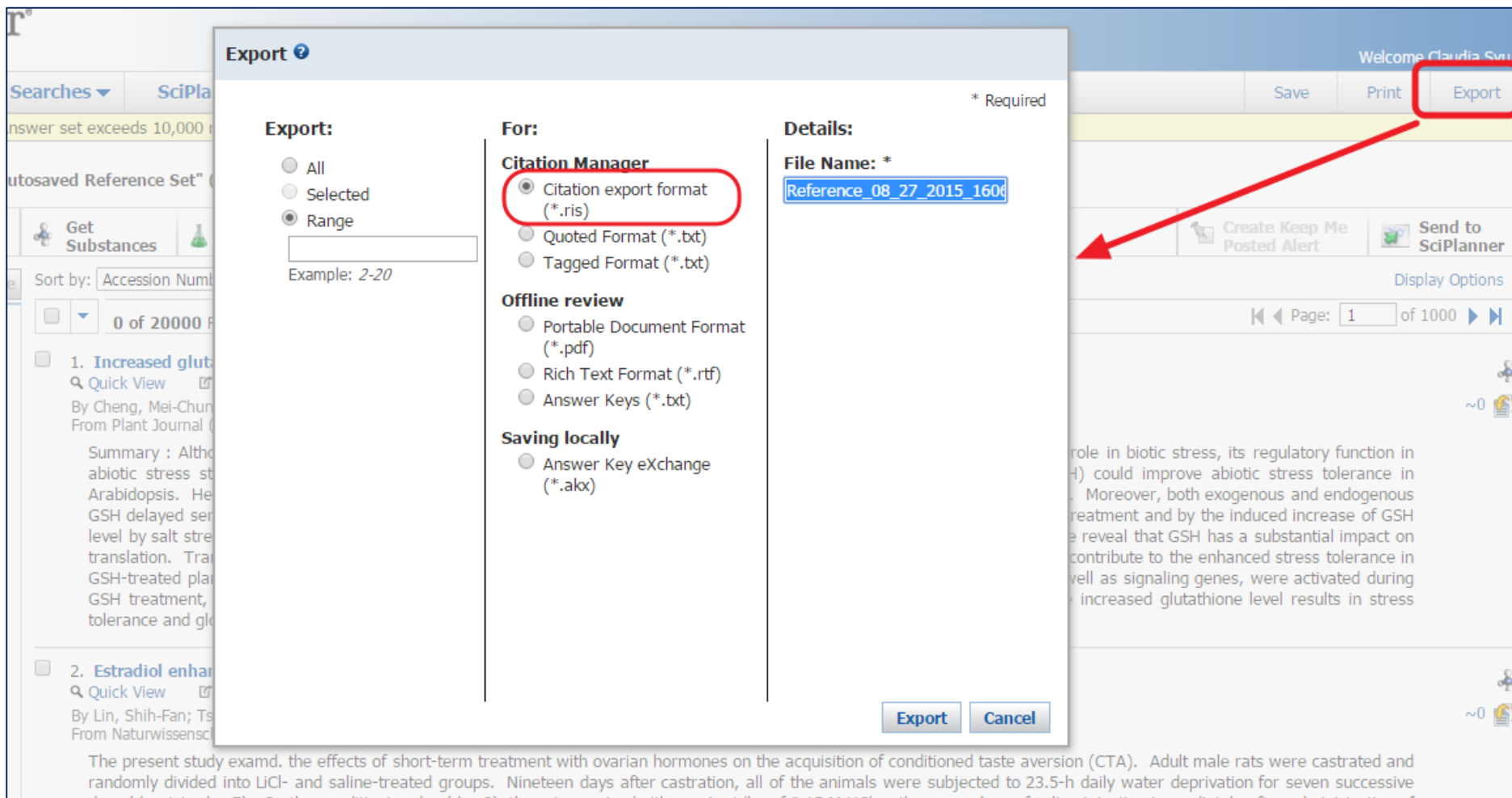
[Quick View](#) [Other Sources](#)

By **Yang, Jye-Shane**; Huang, Guan-Jih; Liu, Yi-Hung; Peng, Shie-Ming
 From Chemical Communications (Cambridge, United Kingdom) (2008), (11), 1344-1346. | Language: English, Database: CAPLUS

The Z → E photoisomerization and fluorescence quantum yields for the wild-type green fluorescence protein (GFP) chromophore (I) and its meta- and para-amino analogs (II and III) in aprotic solvents (hexane, THF, and acetonitrile) and protic solvents (methanol and 10-20% H₂O in THF) are reported. The dramatic decrease in the quantum yields on going from aprotic to protic solvents indicates the important role of solvent-solute hydrogen bonding in the nonradiative decay pathways. The enhanced fluorescence of II is

~54


進階功能運用 – 文獻導入EndNote



The screenshot displays the SciFinder interface with an 'Export' dialog box open. The dialog box is titled 'Export' and contains three main sections: 'Export:', 'For:', and 'Details:'. In the 'Export:' section, the 'Range' radio button is selected. In the 'For:' section, the 'Citation Manager' sub-section has the 'Citation export format (*.ris)' option selected and circled in red. The 'Details:' section shows the 'File Name' as 'Reference_08_27_2015_1600'. The 'Export' button in the top right of the SciFinder window is also highlighted with a red box, and a red arrow points from it to the selected 'Citation export format (*.ris)' option. The background shows a list of search results with details for two entries: '1. Increased glutathione...' and '2. Estradiol enhances...'. The 'Export' button in the top right of the SciFinder window is highlighted with a red box.

進階功能運用 – 購買化學物質





[Explore](#) | [Saved Searches](#) | [SciPlanner](#)

Substance Identifier "65017-57-4" > substances (1) > **65017-57-4**

SUBSTANCE DETAIL
Get References
Get Reactions
Get Commercial Sources

[Return](#)

CAS Registry Number 65017-57-4

$C_{12}H_{22}N_2$

4-Piperidinemethanamine, 1-butyl-

Molecular Weight
170.30

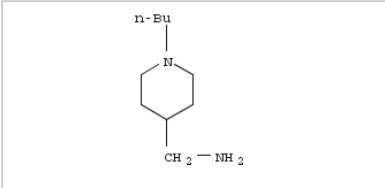
pKa (Predicted)
Value: 10.13±0.29 | Condition: Most Basic Temp: 25 °C

Boiling Point (Predicted)
Value: 225.1±8.0 °C | Condition: Press: 760 Torr

Density (Predicted)
Value: 0.883±0.06 g/cm³ | Condition: Temp: 20 °C Press: 760 Torr

Other Names

- 1-Butyl-4-(aminomethyl)piperidine
- 1-Butyl-4-piperidinemethanamine
- 1-Butyl-4-piperidylmethanamine
- 1-Butylpiperidin-4-ylmethanamine
- N-Butyl-4-piperidylmethanamine



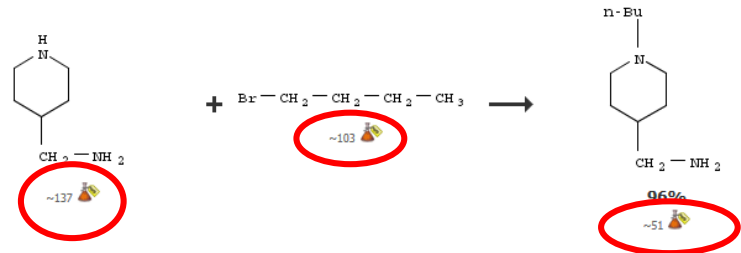
Get References
Tools

Group by: No Grouping | Sort by: Accession Number

0 of 6 Reactions Selected

1. [View Reaction Detail](#) | [Link](#) | [Similar Reactions](#)

Single Step *Hover over any structure for more options.*



~137
~103
96%
~51

Overview

Steps/Stages

- 1.1 R:KOH, S:PhMe, 12 h, 80°C
- 1.2 R:HCl, S:H₂O, 1 h, 50°C

REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

Chemical Structure
Markush
Molecular Formula
Property
Substance Identifier

REACTIONS

Reaction Structure

SUBSTANCES: SUBSTANCE IDENTIFIER ?

50-18-0

Enter one per line.

Examples:

50-00-0

999815

Acetaminophen

Search

若知道物質CASRN(CAS註冊碼)或商品名、俗名、IUPAC命名，可使用物質檢索 Substance Identifier此項功能

Analyze Refine

Sort by: CAS Registry Number

0 of 1 Substance Selected

Analyze by: Substance Role

Analytical Study 1

Biological Study 1

Formation, Nonpreparative 1

Miscellaneous 1

Occurrence 1

Preparation 1

Process 1

Properties 1

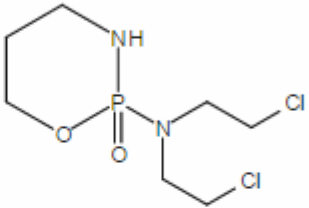
Prophetic in Patents 1

Reactant or Reagent 1

Show More

1. 50-18-0

~27734 ~69



C₇ H₁₅ Cl₂ N₂ O₂ P
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide

Regulatory Information
Spectra
Experimental Properties

此圖示表示該物質在市場上可購買到。點擊該圖示可獲取此物質商品來源廠商資訊。

單擊第一行任一標題，可重新排序商家。

例如:點擊 Purity (純度)，商品來源將按照物質純度排列。標示最高純度的商家排列在最前方。

Analyze by: Commercial Source

Sort by: Preferred Sources ↑

0 of 69 Commercial Sources Selected

Page: 1 of 4

Commercial Source	Substance	Purity	Quantity	Purchasing Details	Stock Status	Ships Within
1. 3B Scientific Corporation Product List United States Set Preference ▼	50-18-0 Cyclophosphamide		Grams	50g, \$500 100g, \$750	Intermittently available	4 weeks
2. A Chemtek Product List United States Set Preference ▼	50-18-0 Cyclophosphamide				Typically in stock	
3. AAA Chemistry Stock Product List Hong Kong Set Preference ▼	50-18-0 methyl 3-(diethylamino)butanoate	90-95%		Bulk	Typically in stock	2 weeks
4. Abcam Biochemicals Product List United Kingdom Set Preference ▼	50-18-0 N,N-Bis(2-chloroethyl)tetrahydro-2H-1,3,2-oxazaphosphorin-2-amine 2-oxide	>=99%	Milligrams	Order from Source 50.000mg, \$35.00 Bulk	Typically in stock	1 week
5. ACC Corp. Catalog United States Set Preference ▼	50-18-0 CYCLOPHOSPHAMIDE		Grams	1g 2.5g 5g		
6. AKos Building Blocks Product List Germany Set Preference ▼	50-18-0 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide			Screening	Typically in stock	2 weeks
7. AldrichCPR United States Set Preference ▼	50-18-0 N,N-bis(2-chloroethyl)-1,3,2-oxazaphosphinan-2-amine 2-oxide		Milligrams	Order from Source 25 mg Screening	Typically in stock	
8. Amatek Chemical Catalog	50-18-0		Grams	1g		



分析與排序商品來源

Analyze

Analyze by: ?

- Bulk
- Bulk
- CAS Registry Number
- Commercial Source
- Country
- Order from Source
- Preferred Sources
- Purity
- Quantity
- Screening
- Ships Within
- Stock Status

查看哪些廠商有做公斤以上的量 如:噸

Commercial Source	Substance	Purity	Quantity	Purchasing Details
1.  Chemsence Product List United States	50-18-0  Cyclophosphamide	95-98%	Milligrams	100mg, USD 80 200mg, USD 150 Bulk Screening

廠商依照國家分類




Analyze by: ?

Country

United States	52
United Kingdom	11
China	9
Hong Kong	7
Germany	3
Netherlands	3
Austria	2
Canada	2
France	2
Czech Republic	1

Show More

分類可線上購物的廠商

Commercial Source	Substance	Purity	Quantity	Purchasing Details	Stock Status	Ships Within
3.  United States Set Preference ▾	50-18-0  N,N-bis(2-chloroethyl)-1,3,2-oxazaphosphinan-2-amine 2-oxide		Milligrams	 Order from Source 25 mg Screening	Typically in stock	

Analyze

Analyze by: ?

- Purity
- Bulk
- CAS Registry Number
- Commercial Source
- Country
- Order from Source
- Preferred Source
- Purity**
- Quantity
- Screening
- Ships Within
- Stock Status

Purity 依照純度排列

Quantity 容量大小分類

Analyze by: ?

Quantity

Milligrams	13
Grams	14
Kilograms or greater	3
No Quantity Available	44

Screening 包裝與價格分類

Purchasing Details

Order from Source

- 1 g
- 25 g
- 100 g
- Bulk

Order from Source

- 1 kg
- Bulk

Ships Within 到貨時間

Analyze by: ?

Ships Within

1 week	15
2 weeks	7
4 weeks	3
No Ships Within	49

Stock Status 庫存狀態

指定喜愛的廠商

Commercial Source	Substance	Purity	Quantity	Purchasing Details	Stock Status	Ships Within
<input type="checkbox"/> 1. ApexBio Technology Product List United States Set Preference ▼	50-18-0 Cyclophosphamide	95-98%	Milligrams	Order from Source 100mg, \$80 Bulk Screening	Maintained in stock	1 week
<input type="checkbox"/> 2. Aurum Pharmatech Product List United States Set Preference ▼	50-18-0 Cyclophosphamide	95-98%	Grams	Order from Source 2.5 G, USD 160 5 G, USD 236.44 25 G, USD 663.58 100 G, USD 1888.99 Bulk	Maintained in stock	1 week
<input type="checkbox"/> 3. Chemscene Product List United States Set Preference ▼	50-18-0 Cyclophosphamide	95-98%	Milligrams	100mg, USD 80 200mg, USD 150	Maintained in stock	1 week

往後每次查詢此廠商皆“會”
在結果頁面第一個出現

<input type="checkbox"/> 3. Chemscene Product List United States Set Preference ▼	50-18-0 Cyclophosphamide
<input type="checkbox"/> 4. Preferred <input type="checkbox"/> Non-Preferred <input type="checkbox"/> No Preference	Product List 50-18-0 Clafen(Cyclo

Commercial Source
<input type="checkbox"/> 1. Chemscene Product List United States <input checked="" type="checkbox"/> Preferred ▼

指定黑名單的廠商

0 of 78 Commercial Sources Selected

Commercial Source	Substance	Purity	Quantity
<input type="checkbox"/> 1. ChemScene ChemScene Product List United States Preferred	50-18-0 Cyclophosphamide	95-98%	Milligrams
<input type="checkbox"/> 2. ACC Corp. Catalog United States Non-Preferred	50-18-0 CYCLOPHOSPHAMIDE		Grams
<input type="checkbox"/> 3. AKos Building Blocks Product List Germany Set Preference	50-18-0 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide		Grams
<input type="checkbox"/> 4. AldrichCPR United States Set Preference	50-18-0 N,N-bis(2-chloroethyl)-1,3,2-oxazaphosphinan-2-amine 2-oxide		Milligrams

往後每次查詢此廠商“不會”
在結果頁面第一個出現

匯出報告商品來源訊息

Export ⓘ

* Required

Export:

- All
- Selected
- Range

Example: 2-20

For:

Offline review

- Portable Document Format (*.pdf)
- Rich Text Format (*.rtf)
- Microsoft Excel Worksheet (*.xls)
- Quoted Format (*.txt)
- Tagged Format (*.txt)

Details:

File Name: *

Source_07_28_2015_150907

Export **Cancel**

按下 Export 選擇格式為
Excel表格，方便管理。

實際例子

例子 MERS疫苗開發

REFERENCES

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula

REFERENCES: RESEARCH TOPIC ?

MERS of vaccine

Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds

Search

Advanced Search

MERS 查詢結果

201506查詢結果

1 of 5 Research Topic Candidates Selected

- 18 references were found containing "**MERS of vaccine**" as entered.
- 2233 references were found containing the two concepts "**MERS**" and "**vaccine**" closely associated with one another.
- 5022 references were found where the two concepts "**MERS**" and "**vaccine**" were present anywhere in the reference.
- 571381 references were found containing the concept "**MERS**".
- 451421 references were found containing the concept "**vaccine**".

Get References

201508查詢結果

1 of 5 Research Topic Candidates Selected

- 21 references were found containing "**MERS of vaccine**" as entered.
- 2259 references were found containing the two concepts "**MERS**" and "**vaccine**" closely associated with one another.
- 5077 references were found where the two concepts "**MERS**" and "**vaccine**" were present anywhere in the reference.
- 576912 references were found containing the concept "**MERS**".
- 456655 references were found containing the concept "**vaccine**".

Get References

MERS 疫苗開發查詢過程

REFERENCES ⓘ

Analyze Refine Categorize

Analyze by: ⓘ
Publication Year ▼

2008	113
2010	112
2014	110
2013	98
2012	98
2009	86
2011	80
2007	76
2015	69
2006	67

Show More

Analyze - Publication Year

60 Items 0 Selected Export

Sort by: Natural Order ▼ Page: 1 of 2

Select bars to view only those references within the current answer set.

<input type="checkbox"/>	2015	69
<input type="checkbox"/>	2014	110
<input type="checkbox"/>	2013	98
<input type="checkbox"/>	2012	98
<input type="checkbox"/>	2011	80
<input type="checkbox"/>	2010	112
<input type="checkbox"/>	2009	86
<input type="checkbox"/>	2008	113
<input type="checkbox"/>	2007	76
<input type="checkbox"/>	2006	67

Apply Cancel



Analyze Refine Categorize

Analyze by: ⓘ
Publication Year ▼

2015	69
------	----

Show More

利用 **Categorize** 有系統尋找預探討主題，
 此次我們選擇生物技術中的“**疫苗**”、“**抗病毒劑**”與“**藥物傳遞系統**”，這三個關鍵字的文獻。

Categorize ?

1. Select a heading and category. 2. Select index terms of interest.

Category Heading	Category	Index Terms	Selected Terms
All	Substances in medicine (290)	<input checked="" type="checkbox"/> Vaccines 12 ▲	Click 'x' to remove the category from 'Selected Terms' <input checked="" type="checkbox"/> Biotechnology > Medicine (3 Terms)
Genetics & protein chemistry	Medicine (47)	<input checked="" type="checkbox"/> Antiviral agents 6	
Physical chemistry	Agriculture (5)	<input type="checkbox"/> Immunization 5	
Biology	Food (1)	<input type="checkbox"/> Vaccines, influenza 3	<div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> 疫苗 抗病毒劑 藥物傳遞系統 </div>
Biotechnology	Toxicology & forensics (1)	<input type="checkbox"/> Antitumor agents, vaccines 2	
Analytical chemistry		<input checked="" type="checkbox"/> Drug delivery systems 2	
General chemistry		<input type="checkbox"/> Immune adjuvants 2	
Polymer chemistry		<input type="checkbox"/> Immunotherapy 2	
Synthetic chemistry		<input type="checkbox"/> Infection Control 2	
Environmental chemistry		<input type="checkbox"/> Vaccines, synthetic 2	
Technology		<input type="checkbox"/> Vaccines, tumor 2	
		<input type="checkbox"/> Abortion 1	
		<input type="checkbox"/> Adjuvants, Immunologic 1	
		<input type="checkbox"/> Adolescent Health Services 1	

Biotechnology > Medicine > 3 Index Term(s) Selected

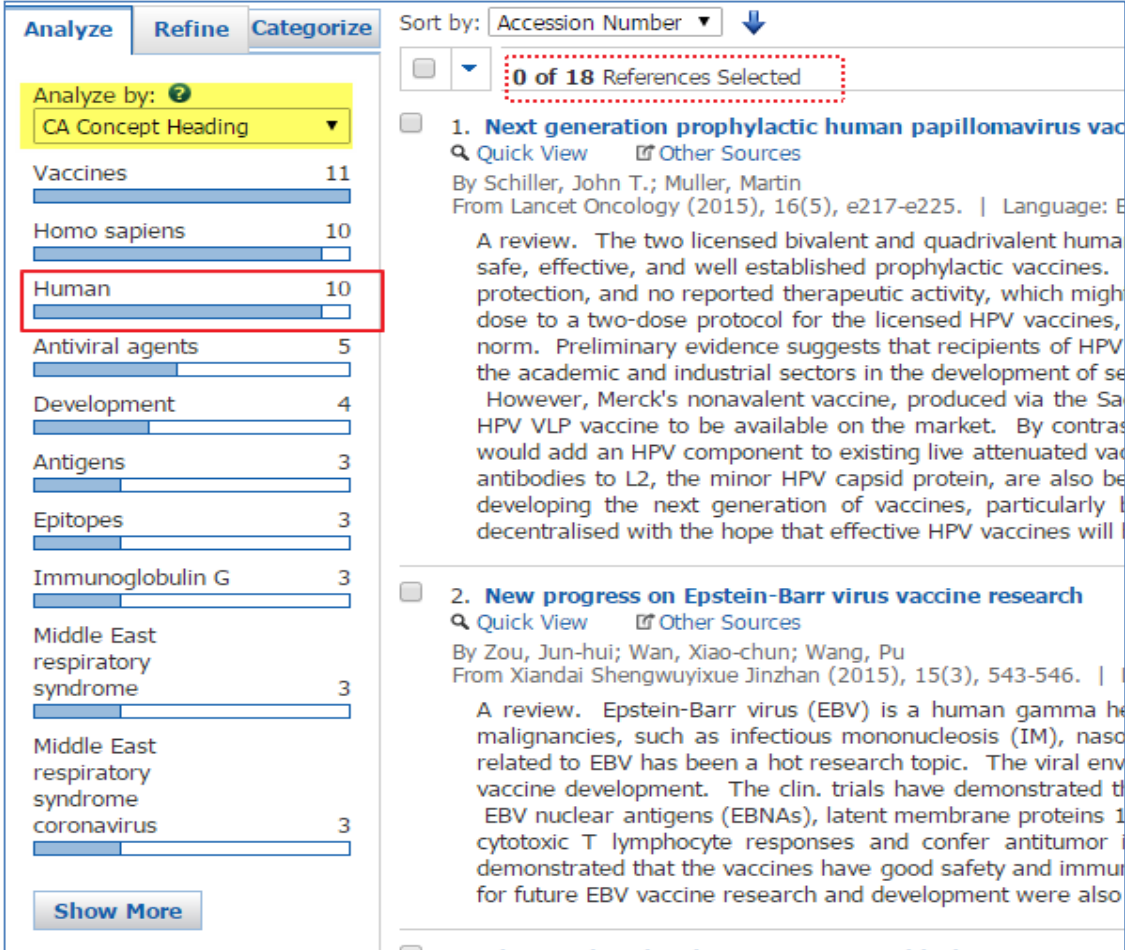
生物技術 **藥物**

OK Cancel

透過Categorize的分類，有效的限縮與關注主題。

篩選出的文獻(18篇)再利用 **CA Concept Heading**

選擇領域“Human”，限縮10篇文獻。



The screenshot displays the SciFinder interface with the 'Categorize' tab active. The 'Analyze by:' dropdown is set to 'CA Concept Heading'. A list of concept headings is shown, with 'Human' highlighted in a red box. The right pane shows a list of references, with the first one selected and highlighted in a red dashed box.

Concept Heading	Count
Vaccines	11
Homo sapiens	10
Human	10
Antiviral agents	5
Development	4
Antigens	3
Epitopes	3
Immunoglobulin G	3
Middle East respiratory syndrome	3
Middle East respiratory syndrome coronavirus	3

Sort by: Accession Number

0 of 18 References Selected

- Next generation prophylactic human papillomavirus vaccine**
 Quick View Other Sources
 By Schiller, John T.; Muller, Martin
 From Lancet Oncology (2015), 16(5), e217-e225. | Language: English
 A review. The two licensed bivalent and quadrivalent human papillomavirus (HPV) vaccines are safe, effective, and well established prophylactic vaccines. However, the need for improved protection, and no reported therapeutic activity, which might be achieved by a two-dose protocol for the licensed HPV vaccines, has led to the development of next generation HPV vaccines. Preliminary evidence suggests that recipients of HPV vaccines from the academic and industrial sectors in the development of safe and effective HPV vaccines. However, Merck's nonavalent vaccine, produced via the Saquinavir (Sa) HPV VLP vaccine to be available on the market. By contrast, the development of next generation HPV vaccines would add an HPV component to existing live attenuated vaccines. The development of next generation HPV vaccines would add an HPV component to existing live attenuated vaccines. The development of next generation HPV vaccines would add an HPV component to existing live attenuated vaccines.
- New progress on Epstein-Barr virus vaccine research**
 Quick View Other Sources
 By Zou, Jun-hui; Wan, Xiao-chun; Wang, Pu
 From Xiandai Shengwuyixue Jinzhan (2015), 15(3), 543-546. | Language: Chinese
 A review. Epstein-Barr virus (EBV) is a human gamma herpesvirus 4 (γHV4) that causes EBV infections, such as infectious mononucleosis (IM), nasopharyngeal carcinoma (NPC), and nasopharyngeal carcinoma (NPC). EBV is a hot research topic. The viral envelope (VE) is a hot research topic. The viral envelope (VE) is a hot research topic. The viral envelope (VE) is a hot research topic.

MERS 疫苗開發查詢結果

3. Middle East respiratory syndrome coronavirus (MERS-CoV) particulate vaccine

By: Smith, Gale; Liu, Ye; Massare, Michael
 Assignee: Novavax, Inc., USA

中東呼吸道症候群 (MERS-Cov) 微粒疫苗

The authors disclose virus-like particles for eliciting protection against Middle East respiratory syndrome coronavirus (MERS-CoV). The virus-like particles (VLP) comprises nanoparticles of the MERS-CoV spike glycoprotein. In the examples, administration of VLP to mice or transgenic cattle was shown to induce a strain cross-reactive neutralizing antibody response.

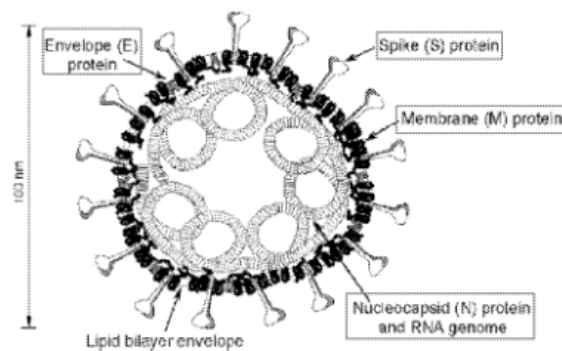
作者透露VLPs(virus-like particles)能夠誘發體內抵禦MERS-CoV。

VLPs由MERS-CoV 中spike glycoprotein的奈米顆粒所組成。

在實際的案例中，VLPs使用在小鼠和基轉牛隻上，已經證實可以誘發交叉中和性抗體反應。

Figure 1

Coronavirus Structure



Masters, *Adv Virus Res* 2006

- Single strand RNA virus
- 30 kb genome with 14 ORFs
- Four structural proteins:
 - Spike (S)
 - Membrane (M)
 - Envelope (E)
 - Nucleocapsid (N)

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Viral spike glycoprotein (Middle East respiratory syndrome coron

Protein Sequence

Sequence Length: 1353

CAS Registry Number 1676114-43-4

~1 

Viral spike glycoprotein (Middle East respiratory syndrome coronavirus strain Al-Hasa gene S)

Other Names

1: PN: WO2015042373 SEQID: 2 claimed protein

Protein Sequence

Sequence Length: 1353

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Substance
Image
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1676114-43-4

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SEQUENCE DETAILS

Sequence:

序列

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1 MIHSVFLLMF LLTPTESYVD VGPDSVKAC IEVDIQTFE DKTWRPVIDV
51 SKADGIIYPO GRYSNIIIT YQGLFPYQGD HGDYVYSAG HATGTPQKL
101 FVAIYSQDVK QFANGFVRI GAAANSTGTV IISPTSATI RKIYPAPMLG
151 SSVGNFSDGK MGRFFNHTLV LLPDGCGLL RAFYCLEPR SGNHCPAGNS
201 YTSFATYHTP ATDCSDGNYN RNASLNSFKE YFNLRNCTFM YTYNITEDEI
251 LENFGITQTA QGVHLFSSRY VDLYGGNMFQ FATLPVYDTI KYYSIIPHSI
301 RSIQSDRAKAW AAFVYVKLOP LTFLLDFSDV GYIRRAIDCG FNDLSQLHCS
351 YESFDVESGV YSVSSFEAKP SSVVEQAEQ VECDFSPLLS GTPPQVYVFK
401 RLVFTNCNIN LTKLLLSFV NDFTCQISP AAIASNCYSS LILDYFSPPL
451 SMKSRLSVDV AGPISQFNK QSFNPTCLI LATVPHNLTIT ITKPLKYSYI
501 NKCSRLSDD RTEVPQLVNA NQYSPCVSIV PSTVWEDGDY YRQKLSPLEG
551 GGHLVASGST VAHTEQLQMG FGITVQYGTD TNSVCPKLEF ANDTKIASQL
601 GNCVEYSLYG VSGRGVFQNC TAVGRVQRFF VYDAYQNLVG YYSDDGNIYC
  
```

Patent Annotations

Source	Feature	Location	Description	Reference
Not Given				WO2015042373, SEQID 2; claimed



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