

✓ Scifinder

主題:benzocaine(因為這學期有做過benzocaine的實驗)

1. 學習成果

↓先輸入關鍵字查詢，右邊以作者名字分析

The screenshot shows the Scifinder search results page for the keyword "benzocaine". The page displays a list of references, with the first four visible. The right sidebar shows an "Analysis" section with a bar chart of author names and their corresponding number of references. The authors listed are De Paula Eneida (26), Moskin B J (23), Di Colo G (17), Nannipieri E (14), Serafini M F (14), Wang G K (13), Fisher A A (12), Fraceto Leonardo Fernandes (12), Richardson N E (12), and Sane R T (12). The "Show More" button is visible at the bottom of the list.

References (3779)

1. Is sodium cinnamate a photoswitchable hydrotrope?
By Devendra, Leena P.; Galkar, Vilas G.
From Journal of Molecular Liquids (2012), 165, 71-77. Language: English, Database: CAPLUS
Photoswitchable hydrotropic solubilization has been investigated by cis-trans isomerization about the olefinic bond of sodium cinnamate (Na-CIN) for various solutes such as cinnamic acid, aspartic acid, curcumin, thymol, and benzocaine. The extent and rate of isomerization depend on the concn. of Na-CIN and temp. The cis-trans isomerization of Na-CIN by UV irradiation, allows recovery of the solute from aq. Na-CIN solns., without diln. by water. Extn. of forskolin and curcumin from cecolus forskohli and curcuma longa, was also studied for recovery under UV irradiation.

2. Synthesis and in vitro activity of some new class of thiazolidinone and their arylidene derivatives
By Seelam, Nareshvarma; Shrivastava, S. P.
From Bulletin of the Korean Chemical Society (2011), 32(11), 3996-4000. Language: English, Database: CAPLUS
A series of thiazolidinone and their 5-arylidene derivatives, containing a 4-(4-methylbenzamido)benzoyl moiety was synthesized via the reaction of benzocaine with appropriate reagents. These compounds were screened for antibacterial activity against Gram-positive (B. subtilis, B. thuringiensis) and Gram-negative bacteria (E. coli, P. aeruginosa) as well as for antifungal activity (B. fabae, F. oxysporum, C. albicans). Additionally, the synthesized compounds were also screened for antitubercular activity. Some of the compounds showed promising antimicrobial and antitubercular activity in comparison with standard drugs.

3. Bioadhesive compositions for epithelial drug delivery
By Alar, Hemant H.; Hanwick, James A. H.; Prakash, Mandali; Johnson, Thomas P.
From PCT Int. Appl. (2011), WO 2011/133334 A2 20111129. Language: English, Database: CAPLUS
Disclosed are compounds and methods for treating a disease, such as infection, pain, or inflammation, by using the compounds. Particularly, disclosed is a method of treating oral pain, wherein, the above-described compounds are applied to the oral mucosa; the compounds undergo in-situ gelation, optimal adhesion to the oral mucosa, controlled erosion and controlled release of the active ingredient, i.e., benzocaine, which provides a superior degree of pain relief or analgesia for an extended period of time. A pharmaceutical composition contained benzocaine 20.0, PEG-200 20.0, Poloxamer-407, xanthan gum 2.0...

4. Coating of endoprostheses consisting of a tight mesh of polymer fibers

↓我選擇一篇關於麻醉劑活性的資料

The screenshot shows the "Reference Detail" page for the article "Benzocaine-loaded polymeric nanocapsules: Study of the anesthetic activities". The article is by Silva De Melo, Nathalie Ferreira; De Araujo, Daniele Ribeiro; Grillo, Renato; Moraes, Carolina Moraes; De Matos, Angelica Prado; Paula, Eneida de; Rosa, Andre Henrique; Fraceto, Leonardo Fernandes. The abstract describes a comparison of different polymeric nanocapsules (NCs) prepared with polymers poly(D,L-lactide-co-glycolide), poly(L-lactide) (PLA), and poly(ε-caprolactone) and used as carrier systems for the local anesthetic (LA) benzocaine (BZC). The results showed particle size distributions with polydispersity indices below 0.135, av. diam. up to 120 nm, zeta potentials up to -30 mV, and entrapment efficiencies around 70%. Formulations of BZC using the polymeric NCs presented slower release profiles, compared with that of free BZC. Slowest release (release const., k = 0.0016 min⁻¹) was obtained using the PLA NC system. Pharmacol. evaluation showed that encapsulation of BZC in PLA NCs prolonged its anesthetic action. This new formulation could potentially be used in future applications involving the gradual release of local anesthetics (LAs). © 2011 Wiley Periodicals, Inc. and the American Pharmacists Assoc. J Pharm Sci.

Indexing
Pharmaceuticals (Section 63)

Tags
0 Tags | Edit Tags

Comments
0 Comments

Source
Journal of Pharmaceutical Sciences
Pages Ahead of Print
Journal
CODEN: JPMSAE
ISSN: 0022-3549
DOI: 10.1002/jps.22829

Company/Organization
Department of Biochemistry
State University of Campinas
Sao Paulo, Brazil

Accession Number
2011:1496206
CAPLUS

Publisher
Wiley-Liss, Inc.

Language

↓以 publication year 整理，看看有沒有新發表的資訊

The screenshot shows the SciFinder interface with the search results for 'benzocaine' sorted by publication year. The results list includes:

- 260. A 3-year-old boy with fever and oral lesions. Diagnosis: methemoglobinemia. By Kreshak Allyson A; Ly Binh T; Edwards Whitney C D; Carson Stephen H. From *Pediatric annals* (2009), 38(11), 613-6. Language: English, Database: MEDLINE.
- 261. A comparison of a refrigerant and a topical anesthetic gel as preinjection anesthetics: a clinical evaluation. By Kosaraju Amar; Vandewalle Craig S. From *Journal of the American Dental Association* (1939) (2009), 140(1), 66-72; quiz 112-3. Language: English, Database: MEDLINE.
- 262. A study of the thermal decomposition of adulterated cocaine samples under optimized aerobic pyrolytic conditions. By Gotic, T.; Klemenec, S.; Stefanc, B. From *Forensic Science International* (2009), 187(1-3), 19-28. Language: English, Database: CAPLUS.
- 263. A study of the thermal decomposition of adulterated cocaine samples under optimized aerobic pyrolytic conditions.

The right sidebar shows the 'Analysis' tab with 'Publication Year' selected. The bar chart displays the number of references for each year from 2000 to 2009:

Year	References
2009	153
2008	148
2007	144
2006	143
2005	134
2004	131
2003	123
2002	114
2001	105
2000	104

↓因為發現這樣查到的資料可能不是直接探討 benzocaine，所以再用 index 篩選，右方也可以顯示剛剛有幾篇在現在搜尋的資料裡面(黃色與藍色)

The screenshot shows the SciFinder interface with the search results for 'benzocaine' filtered by index terms. The results list includes:

- 13. Benzocaine induced methaemoglobinemia: a case study. By Bittmann Stefan; Krueger Carsten. From *British journal of nursing* (Mark Allen Publishing) (2011), 20(3), 166-70. Language: English, Database: MEDLINE.
- 29. Development, characterization, and in vitro and in vivo evaluation of benzocaine- and lidocaine-loaded nanostructured lipid carriers. By Puglia Carmelo; Sarpietro Maria Grazia; Borini Francesco; Costelli Francesco; Zambullaro Muglio; Chaccho Santana. From *Journal of pharmaceutical sciences* (2011), 100(5), 1892-9. Language: English, Database: MEDLINE.
- 45. Five years of changes on the receiving end of a disaster. By Spedale Steven B. From *Pediatrics* (2011), 128 Suppl 1, S18-9. Language: English, Database: MEDLINE.

The right sidebar shows the 'Analysis' tab with 'Index Term' selected. The bar chart displays the number of references for each index term:

Index Term	References
Benzocaine	920
Anesthetics	837
Humans	601
*Benzocaine	542
Anesthetics, Local	439
Drug delivery systems	403
*Anesthetics, Local	371
Female	341
Male	340
adverse effects	324

↓找到與第一次搜尋找到相似的文獻，且更深入

The screenshot displays the Scifinder database interface. At the top, there's a navigation bar with 'References', 'Substances', and 'Reactions' tabs. Below this, a search bar shows 'benzocaine' with 3779 references found. The main content area displays a reference titled '29. Development, characterization, and in vitro and in vivo evaluation of benzocaine- and lidocaine-loaded nanostructured lipid carriers'. The abstract text describes the study on the topical delivery of benzocaine (BENZO) and lidocaine (LIDO) from nanostructured lipid carriers (NLCs). On the right side, there's a 'Quick Links' section with '0 Tags, 0 Comments', a 'Source' section listing 'Journal of pharmaceutical sciences' (Volume 100, Issue 5, 2011), and a 'Company/Organization' section for 'Department of Pharmaceutical Sciences, University of Catania, Catania, Italy'. At the bottom, there's an 'Indexing' section with 'Concepts' and 'Substances' tabs, showing various tags like 'Analgesics: AD, administration & dosage' and 'Anesthetics, Local: AD, administration & dosage'.

2. 學習心得：

以前查資料只會用 Pubmet 來檢索，但它的侷限性很大，而且資料不多，有時並不是非常的實用，老師介紹 Scifinder 這個資料庫後，可以說讓我們真的是有兩把刷子在身，降低我對未知事物的恐懼，因為，資料唾手可得！Scifinder 這個資料庫裡面所包括的資料實在是非常廣，不僅有學術的論文，還有許多額外的資料，例如，會議摘要、專題討論、電子期刊、等資料，以後我有念研究所深造的打算，能夠提早接觸這些資訊，再好不過了！另外，我還發現他居然還囊括了「網路預出刊」，明年要出版的期刊在這個資料庫裡已經有了，這個對於想了解產業最新方向的研究者一定是非常好的工具。

不僅資料庫內容豐富，我覺得 Scifinder 他的架構非常的“userfreindly”，且能夠依自己想要的搜尋方式、方向來搜尋，比如說我這次查 benzocaine，第一次查到五花八門的資料，發現資料太多了，只想要針對 benzocaine 的資料，於是，資料庫就可以自動幫你篩選，這個是我覺得最珍貴的地方所在。此外，這次藉由作業，我也學到最近麻最近的新知識，也就是關於 benzocaine- and lidocaine-loaded nanostructured lipid carriers，可延長麻醉的時間，感覺未來麻醉劑似乎越來越有可看性。

✓ Thomson Innovation

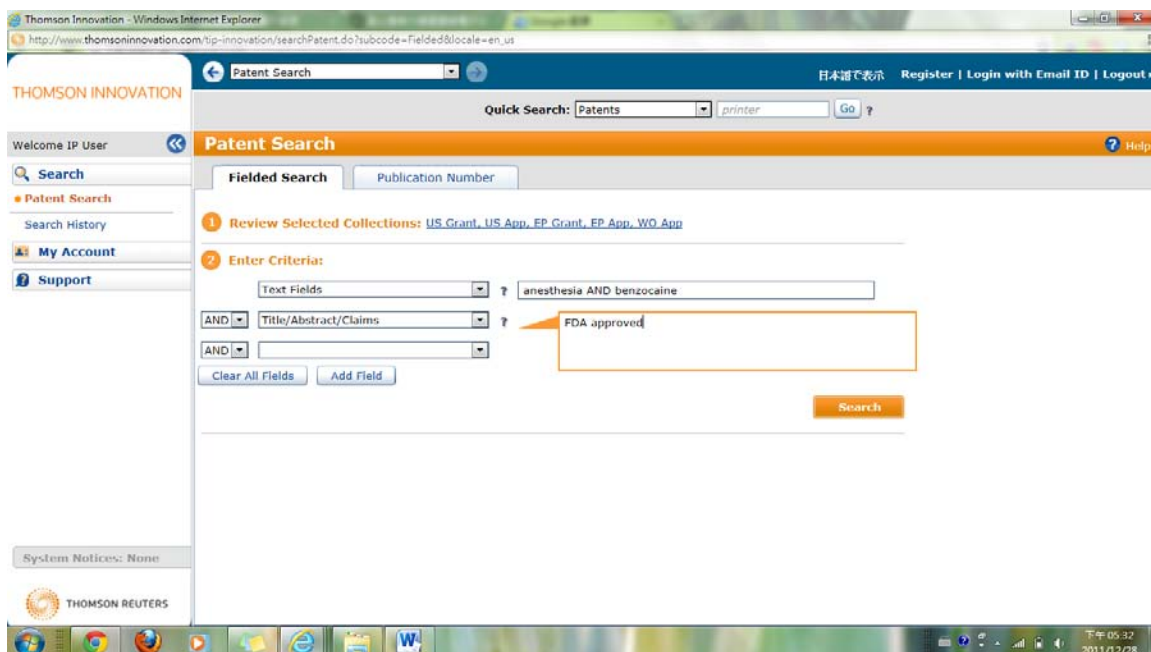
主題：New Patent about Anesthesia, benzocaine, FDA approved

1. 學習成果

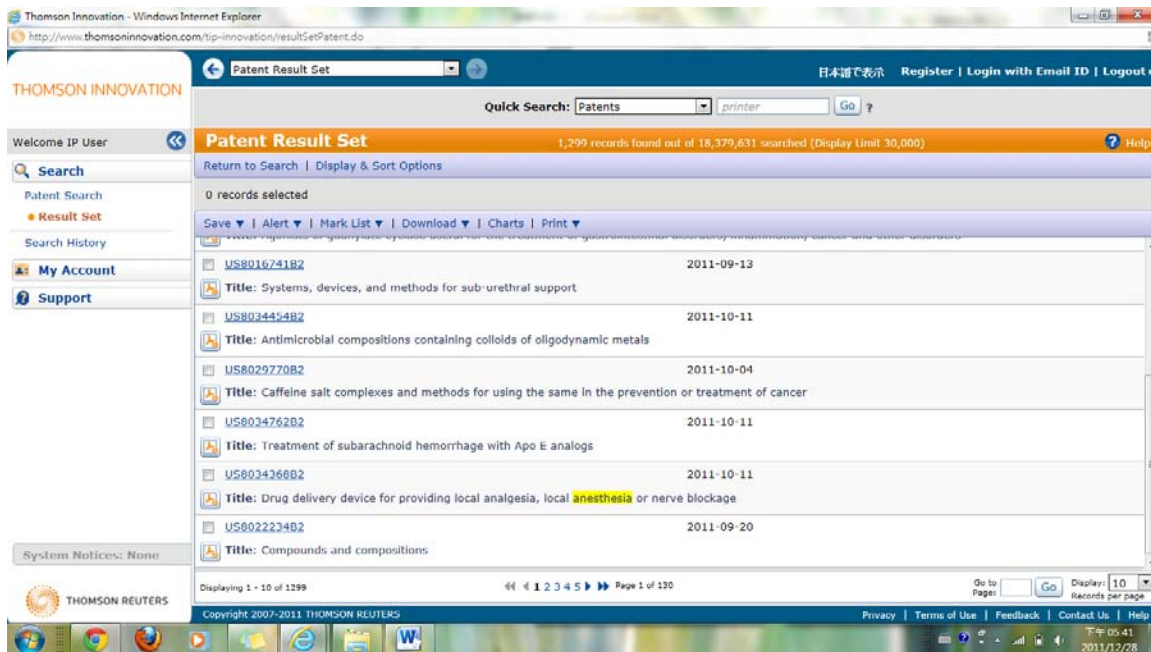
↓輸入關鍵字，由於發現到僅輸入一關鍵字資料量太大，故直接輸入不同方向的關鍵字，並用之前上課有說到的，A or B、A and B、A not B來縮小搜尋範圍，欲搜尋有關麻醉劑、benzocaine的新專利，我的搜尋為：

Text field: anesthesia AND benzocaine

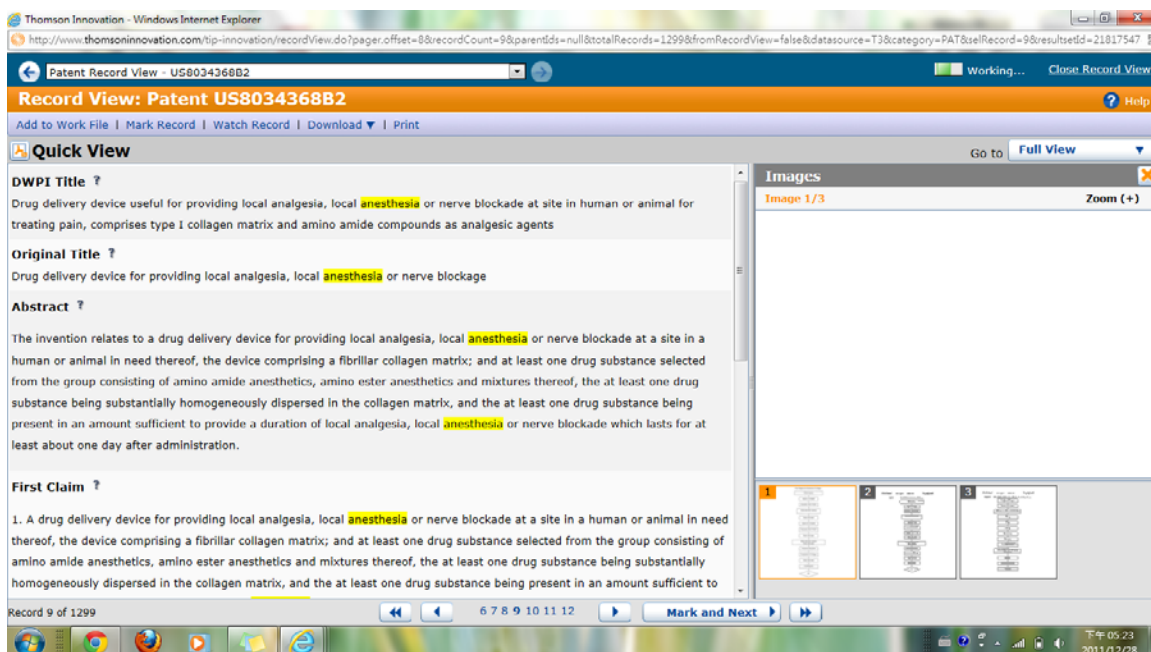
Title/Abstract/Claim: FDA approved



↓找到一篇今年 10 月的專利



↓美國的專利，關於局部麻醉劑、身經阻斷的藥物輸送系統



2. 學習心得：

我覺得 Thomson Innovation 這個專利檢索系統真的是個很強的檢索系統，沒有領域的限制性，相關的專利也可以找的到，做一個東西，也可以看到性質類似的其他專利資料，是個滿不錯的資料庫，不過也因為搜尋能力太強，資料類別太多，若是要找自己想要的那個特定專利，會很困難或需經過非常多層的篩選，所以直接在其他搜尋引擎查到專利碼，再輸入 innovation 會比較快。