

# 藥學科技(二) 報告

## Scifinder & Innovation 應用

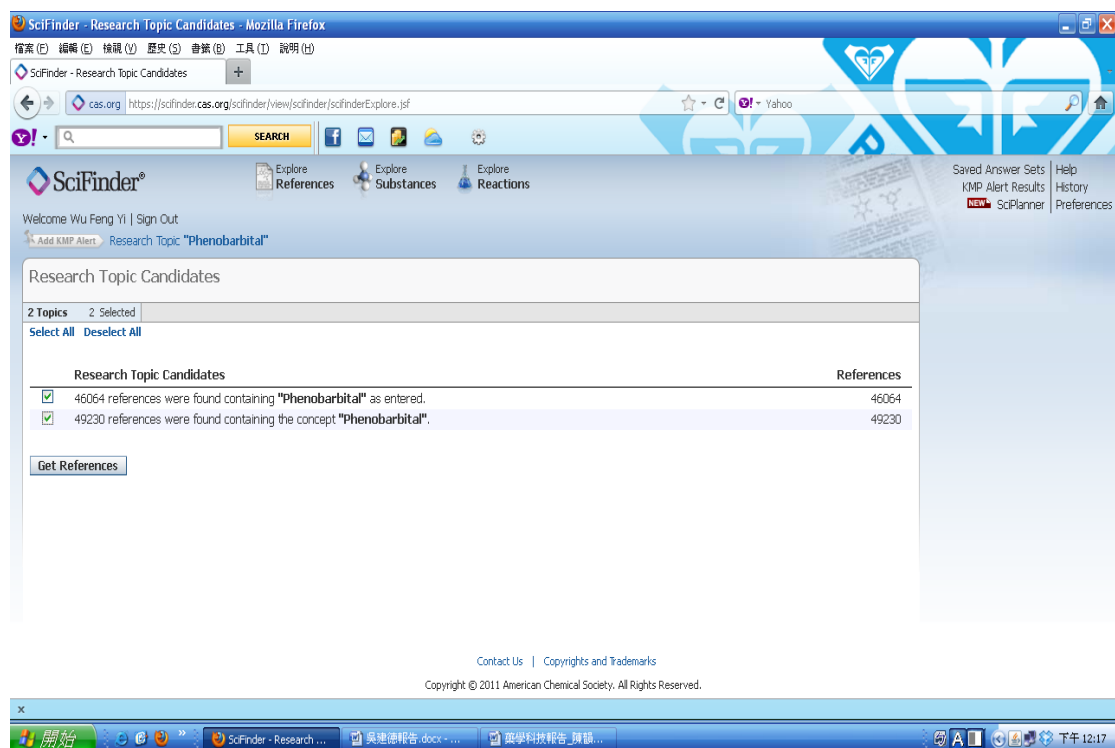
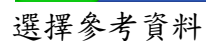
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指導老師：吳建德 教授

## 輸入藥名:Phenobarbital



## 選擇所要的資料

1. **ED50 and Recovery Times After Propofol in Rats with Graded Cirrhosis**  
By Li, Zhenzhou; Chen, Xueqin; Meng, Jinhai; Deng, Liang; Ma, Hanxiang; Caste, Marie; Xiong, Lize  
From *Anesthesia & Analgesia* (Hagerstown, MD, United States) (2012), 114(5), 117-121. Language: English, Database: CAPLUS  
Background: Patients with end-stage liver disease have increased sensitivity to general anesthetics. In this study, we sought to quantify sensitivity to propofol as a function of the degree of liver disease, in a rat model of cirrhosis. Methods: Liver disease was induced by carbon tetrachloride (CCl<sub>4</sub>) injections for 6, 9, or 12 wk in 3 study groups. Control rats received saline injections on the same schedule as CCl<sub>4</sub>-injected rats. A second control (comparison) group was treated with **phenobarbital** for a week followed by 9 wk of **phenobarbital** and 10% ethanol in drinking water. Liver function...

2. **Constitutive androstane receptor transactivates the hepatic expression of mouse Dhcr24 and human DHCR24 encoding a cholesterol enzyme 24-dehydrocholesterol reductase**  
By Yoshinari, Kouichi; Ohno, Hitoshi; Benoli, Satoshi; Yamazoe, Yasushi  
From *Toxicology Letters* (2012), 208(2), 185-191. Language: English, Database: CAPLUS  
**Phenobarbital** treatment has long been known to influence serum and hepatic cholesterol levels in rodents and humans. Constitutive androstane receptor (CAR), a member of the nuclear receptor superfamily, mediates various biological actions of **phenobarbital**. We have thus investigated whether CAR transactivates cholesterol genes in livers. Activation of CAR in mouse livers and cultured human hepatocytes increased mRNA levels of mouse Dhcr24 and human DHCR24, both of which encode 24-dehydrocholesterol reductase (DHCR24) catalyzing the last step of cholesterol biosynthesis. CAR transactivated th...

3. **Determination of 10 sedative-hypnotics in human plasma using pulse splitless injection technique and gas chromatography-mass spectrometry**  
By Chang, Qing; Ma, Hongying; Wang, Fangping; Ou, Hongliang; Zou, Ming  
From *Sepu* (2011), 29(11), 1082-1086. Language: Chinese, Database: CAPLUS  
A simple, precise and sensitive gas chromatography-mass spectrometry (GC-MS) method coupled with pulse splitless injection technique was developed for the determination of 10 sedative-hypnotics (barbital, amobarbital, **phenobarbital**, oxazepam, nitrazepam, clonazepam, estazolam, alprazolam, triazolam) in human plasma. The drugs spiked in plasma were extracted with Et acetate after alkalization with 0.1 mol/L NaOH solution. The organic solvent was evaporated under nitrogen stream, and the residues were redissolved by Et acetate. The separation was performed on an HP-5MS column (30 m x 250 μm x 0.25 μm). The analytes...

4. **The genetic polymorphisms of CYP2C9 and CYP2C19 and association between genetic polymorphisms and phenobarbital serum concentration in Hui and Han-nation epilepsy patients**  
By Qi, Mingshan; Gu, Hao; Dong, Tong; Xu, Xianru; Wang, Yan; Zhang, Qing  
From *Zhongfeng Yu Shenjing Jibing Zazhi* (2011), 28(9), 776-780. Language: Chinese, Database: CAPLUS  
The frequency of polymorphism at CYP2C9\*3 and CYP2C19\*2 in Hui and Han-nation epileptic patients was investigated, then the relationship between the genotypes and the **phenobarbital** serum concentration was studied. The peripheral blood samples of 185 epileptic patients were collected to undergo PCR-RFLP to analyze CYP2C9\*3 and CYP2C19\*2 genotypes, then the allele frequencies were compared between different nations. RP-HPLC was used to measure the **phenobarbital** serum concentration of 113 patients who only take **phenobarbital**, then standardized by dosage and body weight. There were no...

5. **The antiepileptic drugs phenobarbital and carbamazepine reduce transport of methotrexate in rat choroid plexus by down-regulation of the reduced folate carrier**  
By Haliwachs, Sandra; Lakoma, Cathleen; Schaefer, Ingo; Seibel, Peter; Horstsch, Walther  
From *Molecular Pharmacology* (2011), 80(4), 621-629. Language: English, Database: CAPLUS

內文：

調查 CYP2C9\*3 和 CYP2C19\*2 於回族與漢民族的癲癇患者，基因型和 Phenobarbital 血清濃度之間的關係。結果顯示回族和漢族群體之間，CYP2C9\*3 和 CYP2C19\*2 的基因型頻率無顯著性差異。由於 CYP2C9 和 CYP2C19 基因型，我們可以預測 Phenobarbital 血清濃度，並選擇適當的 Phenobarbital 的劑量，得以最大限度減少盡可能的不良反應。

4. **The genetic polymorphisms of CYP2C9 and CYP2C19 and association between genetic polymorphisms and phenobarbital serum concentration in Hui and Han-nation epilepsy patients**  
By: Qi, Mingshan; Gu, Hao; Dong, Tong; Xu, Xianru; Wang, Yan; Zhang, Qing  
The frequency of polymorphism at CYP2C9\*3 and CYP2C19\*2 in Hui and Han-nation epileptic patients was investigated, then the relationship between the genotypes and the **phenobarbital** serum concentration was studied. The peripheral blood samples of 185 epileptic patients were collected to undergo PCR-RFLP to analyze CYP2C9\*3 and CYP2C19\*2 genotypes, then the allele frequencies were compared between different nations. RP-HPLC was used to measure the **phenobarbital** serum concentration of 113 patients who only take **phenobarbital**, then standardized by dosage and body weight. There were no significant differences both in the genotype frequency and allele frequency in CYP2C9\*3 and CYP2C19\*2 between Hui and Han groups (both P > 0.05). The allele variants were classified into 3 groups: extensive metabolizer (EM), intermediate metabolizer (IM), and poor metabolizer (PM). The **phenobarbital** serum concentration of the EM and IM group was significantly higher than that of the PM group. Owing to the CYP2C9 and CYP2C19 genotypes, we could predict **phenobarbital** serum concentration, correctly and choose appropriate **phenobarbital** doses to minimize the adverse reactions as possible.

**Indexing**  
Pharmacology (Section 1)

**Concepts**  
Allele frequency  
Blood analysis  
Genetic polymorphism  
Human  
Anticonvulsants  
Epilepsy  
Genotypes  
Human groups

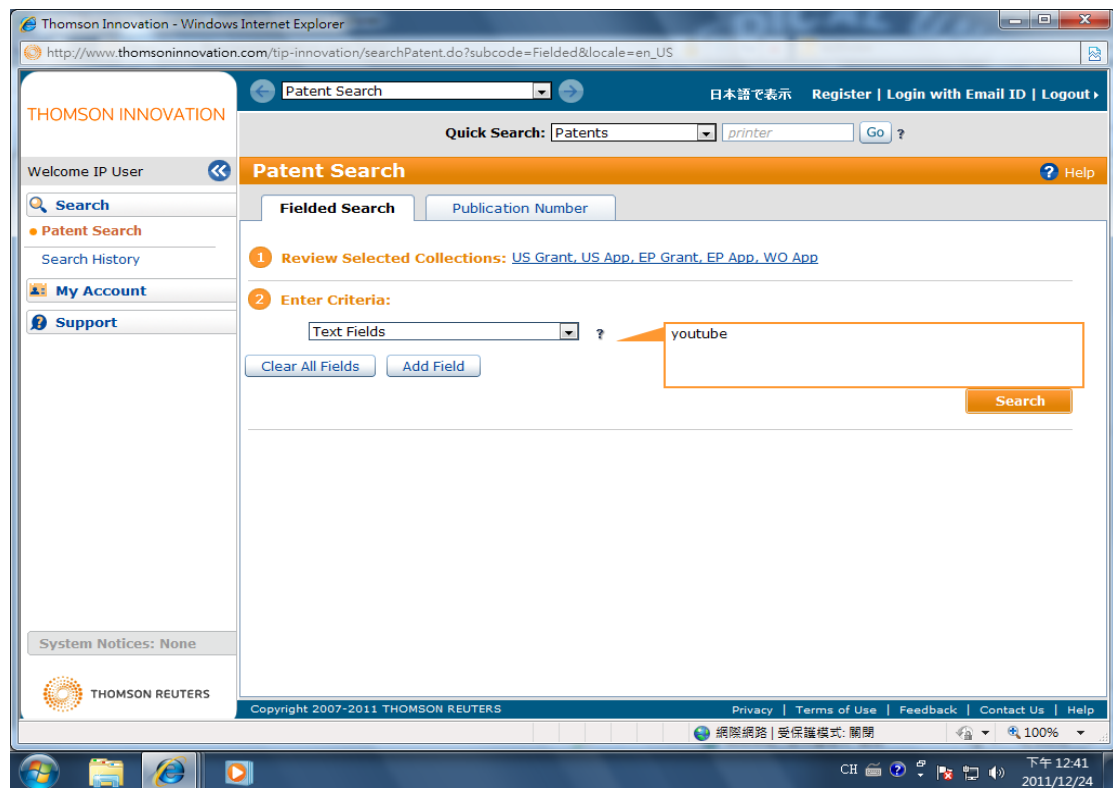
**Supplementary Terms**  
the genetic polymorphisms of CYP2C9 and CYP2C19 and assoc. between genetic polymorphisms and **phenobarbital** serum concn. in Hui and Han-nation epilepsy patients

心得與感想：

SciFinder 化學資料庫非常容易使用，可以利用發表者、時間、結構或反應式……等方向搜尋，提供了非常多且完整的資料，也可以記錄自己的查詢，建立群組，非常的方便使用！對於身為藥學生的我們，是非常好的一個資料搜尋平台，增進自己的專業，亦可用於未來研究參考或是避免重覆相同研究。

## ➤ Innovation 專利檢索平台

輸入關鍵字：youtube



得到所有相關專利：囊括所有 youtube 的專利權

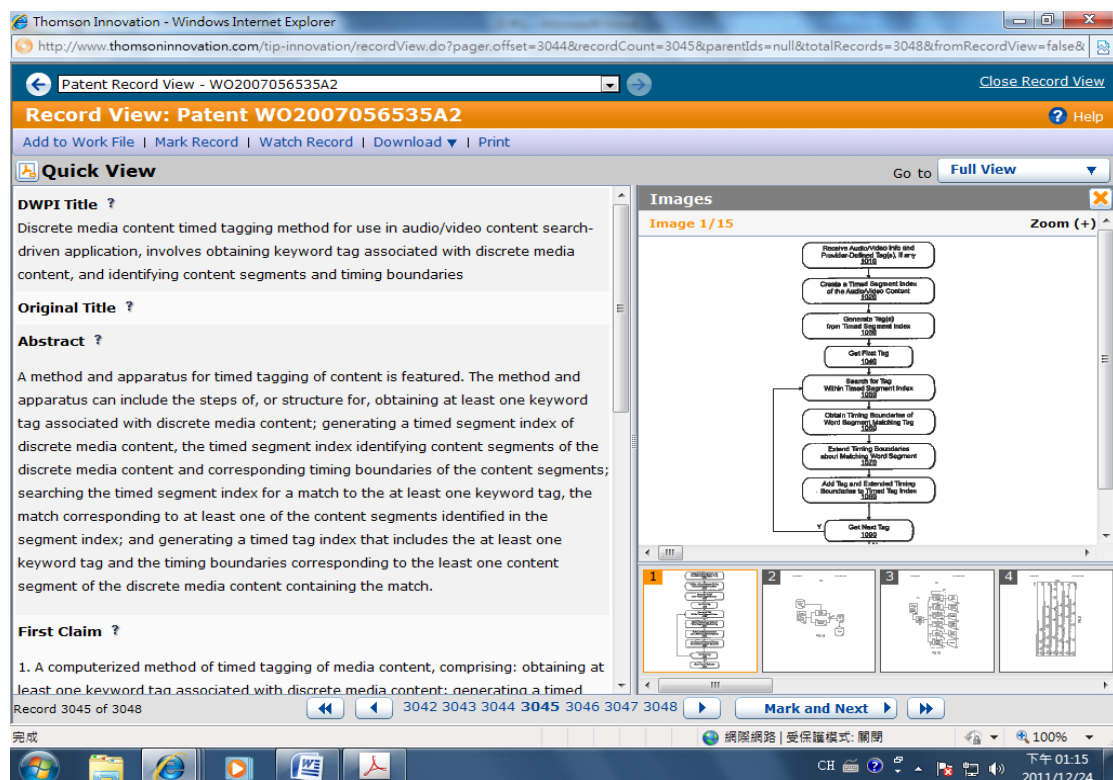


選擇專利主題：專利號 WO2007056535A2



內文：

Youtube 搜尋關鍵字與時間索引，包括內容標記的方法和功能、步驟與結構，並搜尋相應到至少一個的匹配內容。



心得與感想：

Innovation 專利檢索平台是一個非常方便的專利搜尋工具，不僅包含老師上課示範的藥物領域，更延伸至生活周遭的專利權，例如我所搜尋的 youtube；而其囊括的內容非常完整，例如 Youtube 的專利權就有三千多項，其中有如何將影片上傳、編輯、分享、建立群組、廣告的置入、不同使用者的互動、如何在行動裝置中使……等等。專利搜索平台同時給予了了解專業知識與查詢的功能，且除了蒐尋了解相關專利權外，此平台也間接落實了保護專利權，研發專利時就可避免重覆，也同時避免有其他專利的侵權。