

藥學科技(二)期末報告作業

指導老師: 吳建德

學生: 王禮慈 b303098123

學習成果報告

◎主題: type 1 diabetes (IDDM) & type 2 diabetes (NIDDM)之用藥

1. 先把主要要找的主題輸成關鍵字

SciFinder - Explore References

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

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Add KMP Alert Research Topic "Sulfonylurea" with limiters > references (15815) > Serum level of soluble CD26/di...

Explore References

Research Topic

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

Publication Year(s)
Examples: 1995, 1995-1999, 1995-, -1995

Document Type(s)

☐ Biography	☐ Dissertation	☒ Patent
☒ Book	☐ Editorial	☐ Preprint
☒ Clinical Trial	☐ Historical	☒ Report
☒ Commentary	☒ Journal	☐ Review
☒ Conference	☐ Letter	

Language(s)

☐ Chinese	☐ German	☐ Polish
☒ English	☐ Italian	☐ Russian
☐ French	☐ Japanese	☐ Spanish

Author Name

Saved Answer Sets

Autosaved Reference Set

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No profiles exist

(所勾選的類型是按照我認為可能會有相關資料為依據)

2. 選取我所要參考的資料

SciFinder - Research Topic Candidates

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Add KMP Alert Research Topic "Treatment of diabetes" with limiters

Research Topic Candidates

5 Topics 1 Selected

Select All Deselect All

Research Topic Candidates	References
☒ 7406 references were found containing "Treatment of diabetes" as entered.	7406
☐ 89920 references were found containing the two concepts "Treatment" and "diabetes" closely associated with one another.	89920
☐ 163494 references were found where the two concepts "Treatment" and "diabetes" were present anywhere in the reference.	163494
☐ 5298771 references were found containing the concept "Treatment".	5298771
☐ 471880 references were found containing the concept "diabetes".	471880

[Get References](#) Retrieve reference information in selected record(s).

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3. 接著從其中一篇文獻中找到治療糖尿病的用藥

SciFinder - Anti-diabetic c...

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

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Add KMP Alert Research Topic "Treatment of diabetes" with limiters > references (7406) > Anti-diabetic compositions com...

Reference Detail

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15. Anti-diabetic compositions comprising sulfonylureas and inulin from natural sources for treatment of diabetes and hyperglycemia

By: Gorgani, Nick Naser; Afkham, Mahnoosh
Assignee: Ozstar Therapeutics Pty Ltd, Australia

The invention is concerned with synergistic compns. effective in the treatment of diabetes. In particular, the invention is concerned with synergistic compns. comprising inulin, or a suitable source thereof, and Sulfonylureas used in the treatment of type-2 Diabetes Mellitus (T2DM) and hyperglycemia.

Patent Information

Patent No.	Kind	Date	Application No.	Date
WO 2011146981	A1	Dec 1, 2011	WO 2011-AU622	May 24, 2011

Priority Application

Patent No.	Kind	Date
AU 2010-902262	A	May 24, 2010

Indexing

Pharmacology (Section 1-10)

Concepts

Antidiabetic agents Combination chemotherapy

Substances

57-88-5 Cholesterol
62572-11-6 Hemoglobin A1c

Quick Links

0 Tags, 0 Comments

Patent Information

Dec 1, 2011
WO 2011146981
A1

Application

May 24, 2011
WO 2011-AU622

Priority

May 24, 2010
AU 2010-902262

Source

PCT Int. Appl.
36pp.
Patent
2011
CODEN: PIXXD2

Accession Number

2011:1538208
CAPLUS

4. 由文獻內容中所提及的 Sulfonylureas 作进一步的認識

→ 主要用於治療 type 2 diabetes

	Generic Name	Trade Name
First generation	Tolbutamide	Orinase
	Chlorproamide	Diabinese
	Tolazamide	Tolinase
	Acetohexamide	Dymelor
Second generation	Glyburide	Diabetaetc
	Glipizide	Glucotrol

I'm born this way 下午7:02 88%

SciFinder - Serum level of ...

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5. Serum level of soluble CD26/dipeptidyl peptidase-4 (DPP-4) predicts the response to sitagliptin, a DPP-4 inhibitor, in patients with type 2 diabetes controlled inadequately by metformin and/or sulfonylurea

By: Aso, Yoshimasa; Ozeki, Noriyuki; Terasawa, Tomoko; Naruse, Rika; Hara, Kenji; Suetsugu, Mariko; Takebayashi, Kohzo; Shibasaki, Mitsuei; Haruki, Kohsuke; Morita, Kimio; Inukai, Toshihiko

Dipeptidyl peptidase 4 (DPP-4) inhibitors is a new class of antihyperglycemic agents that is now available for the treatment of type 2 diabetes. We investigated the relationship between the baseline serum level of sol. CD 26/DPP-4 and the response to treatment with sitagliptin, a DPP-4 inhibitor, over 24 wk in patients who had type 2 diabetes inadequately controlled by metformin and/or sulfonylurea therapy. We studied 52 consecutive patients with type 2 diabetes who had poor glycemic control despite treatment with metformin and/or sulfonylurea. All patients were given 50 mg/day of sitagliptin and were followed at monthly intervals for 24 wk. Treatment with sitagliptin decreased significantly Hb A1c (HbA1c) from 7.91 ± 1.08% at baseline to 6.96 ± 1.18% at 8 wk, 7.04 ± 0.77% at 16 wk, and 7.08 ± 0.80% at 24 wk. The baseline serum level of sCD26 was correlated pos. with HbA1c at both 16 wk and 24 wk. Furthermore, the serum sCD26 level at baseline was also correlated pos. with the changes from baseline of HbA1c at 16 and 24 wk ($r = 0.318$, $P = 0.0296$ and $r = 0.516$, $P = 0.0003$, resp.). In a multivariate logistic regression model that explained 56.1% ($R^2 = 0.561$) of the variation of the changes from baseline of HbA1c at 24 wk, the baseline HbA1c ($\beta = -0.638$, $P < 0.001$) and serum sCD26 ($\beta = 0.357$, $P = 0.041$) were independent determinants of the change of HbA1c at 24 wk. In conclusions, a higher serum level of sCD26 is assocd. with a worse response to sitagliptin in patients with type 2 diabetes controlled inadequately by metformin and/or sulfonylurea therapy.

Indexing

Pharmacology (Section 1)

Quick Links

0 Tags, 0 Comments

Source

Translational Research
Volume 159
Issue 1
Pages 25-31
Journal
2012
CODEN: TRRECL
ISSN: 1931-5244
DOI:
10.1016/j.trsl.2011.09.005

Company/Organization

Department of Internal
Medicine, Koshigaya Hospital
Dokkyo Medical University
Saitama, Japan

Accession Number

2011:1598410
CAPLUS

Publisher

Elsevier

5. 用於治療 type 1 diabetes 主要為免疫抑制劑 immunosuppressant drugs

The screenshot shows the SciFinder interface. The top navigation bar includes 'Explore References', 'Explore Substances', and 'Explore Reactions'. The main content area displays a research article titled '2. Inhibitory actions of HERG currents by the immunosuppressant drug cyclosporin A'. The article is by Lee, Seung Ho; Hahn, Sang June; Min, Gyesik; Kim, Jimok; Jo, Su-Hyun; Choe, Han; Choi, Bok Hee. The abstract describes the effect of cyclosporin A (CsA) on human ether-a-go-go-related gene (HERG) channels. The article is indexed in Pharmacology (Section 1). The right sidebar contains 'Quick Links', 'Source' information (Korean Journal of Physiology & Pharmacology, Volume 15, Issue 5, Pages 291-297, 2011), 'Company/Organization' (Department of Pharmacology, Institute for Medical Sciences, Chonbuk National University Medical School, Jeonju, S. Korea), 'Accession Number' (2011:1606916, CAPLUS), and 'Publisher'.

SciFinder - Inhibitory acti...

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Research Topic "Immunosuppressive drugs" with limiters > references (19114) > Inhibitory actions of HERG cur...

Reference Detail

Get Substances Get Reactions Get Cited Get Citing Get Full Text Send to SciPlanner

Link Save Print Export

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2. Inhibitory actions of HERG currents by the immunosuppressant drug cyclosporin A

By: Lee, Seung Ho; Hahn, Sang June; Min, Gyesik; Kim, Jimok; Jo, Su-Hyun; Choe, Han; Choi, Bok Hee

The effect of cyclosporin A (CsA), an immunosuppressant, on human ether-a-go-go-related gene (HERG) channel as it is expressed in human embryonic kidney cells was studied using a whole-cell, patch-clamp technique. CsA inhibited the HERG channel in a concn.-dependent manner, with an IC₅₀ value and a Hill coeff. of 3.17 μ M and 0.89, resp. Pretreatment with cypermethrine, a calcineurin inhibitor, had no effect on the CsA-induced inhibition of the HERG channel. The CsA-induced inhibition of HERG channels was voltage-dependent, with a steep increase over the voltage range of the channel opening. However, the inhibition exhibited voltage independence over the voltage range of fully activated channels. CsA blocked the HERG channels predominantly in the open and inactivated states rather than in the closed state. Results of the present study suggest that CsA acts directly on the HERG channel as an open-channel blocker, and it acts independently of its effect on calcineurin activity.

Indexing

Pharmacology (Section 1)

Tags

0 Tags | Edit Tags

Comments

Quick Links

0 Tags, 0 Comments

Source

Korean Journal of Physiology & Pharmacology
Volume 15
Issue 5
Pages 291-297
Journal
2011
CODEN: KJPPFS
ISSN: 1226-4512
DOI:
10.4196/kjpp.2011.15.5.291

Company/Organization

Department of
Pharmacology, Institute for
Medical Sciences
Chonbuk National University
Medical School
Jeonju, S. Korea 561-180

Accession Number

2011:1606916
CAPLUS

Publisher

→而由文獻可知免疫抑制劑可為 cyclosporin A (CsA)

Cyclosporine A, an immunosuppressive agent, has apparently halted destruction of beta cells (on the basis of reduced insulin usage), but its nephrotoxicity and other side effects make it highly inappropriate for long-term use.

◎主題: insulin injection device 的專利搜尋

→利用老師上課所教之 Thomson innovation 查詢專利

1. 輸入關鍵字以利搜尋 (insulin diabetes injection device)

1 **Review Selected Collections:** [US Grant](#), [US App](#), [EP Grant](#), [EP App](#), [WO App](#)

2 **Enter Criteria:**

	Text Fields	?	insulin
AND	Text Fields	?	diabetes
AND	Text Fields	?	injection
AND	Text Fields	?	device
Clear All Fields		Add Field	

[Search](#)

2. 以下為我所搜尋到的專利資料

Internet Explorer

tm/tip-innovation/resultSetPatent.do

Patent Result Set

View in English Register | Login with Email ID | Logout

Quick Search: Patents printer Go ?

Patent Result Set 223,193 records found out of 18,354,911 searched (Display Limit 30,000) Help

[Return to Search](#) | [Display & Sort Options](#)

0 records selected

[Save](#) | [Alert](#) | [Mark List](#) | [Download](#) | [Charts](#) | [Print](#)

Publication Number	Publication Date
US8073629B2	2011-12-06
Title: Simulation system of function of biological organ	
US8073628B2	2011-12-06
Title: System for obfuscating identity	
US8073520B2	2011-12-06
Title: Systems and methods for replacing signal artifacts in a glucose sensor data stream	
US8073519B2	2011-12-06
Title: Systems and methods for replacing signal artifacts in a glucose sensor data stream	
US8073008B2	2011-12-06
Title: Subnetwork synchronization and variable transmit synchronization techniques for a wireless medical device network	
US8071809B2	2011-12-06
Title: Accelerants for the modification of non-natural amino acids and non-natural amino acid polypeptides	

Displaying 1 - 10 of 30000

Page 1 of 3000

Go to Page: Go Display: 10 Records per page

3. 可以勾選所要的資料並將之下載為 PDF 檔

The screenshot shows a web application interface for patent search results. At the top, there's a navigation bar with 'Patent Result Set' and links for 'View in English', 'Register', 'Login with Email ID', and 'Logout'. Below this is a search bar with 'Patents' entered and a 'Go' button. The main header indicates '223,193 records found out of 18,354,911 searched (Display Limit 30,000)'. A sub-header shows '2 records selected'. A toolbar contains 'Save', 'Alert', 'Mark List', 'Download', 'Charts', and 'Print'. The 'Download' menu is open, showing options: 'Patent Documents', 'Exports & F', and 'Download patent PDFs'. The 'Download patent PDFs' option is highlighted. The table below lists patent records with columns for selection checkboxes, patent numbers, titles, and publication dates. The first two records are selected. The footer shows 'Displaying 1 - 10 of 30000', 'Page 1 of 3000', and a 'Go to Page' field.

		Publication Date
☐	US8073629B2 Title: Simulation system of full...	2011-12-06
☒	US8073628B2 Title: System for obfuscating identity	2011-12-06
☒	US8073520B2 Title: Systems and methods for replacing signal artifacts in a glucose sensor data stream	2011-12-06
☐	US8073519B2 Title: Systems and methods for replacing signal artifacts in a glucose sensor data stream	2011-12-06
☐	US8073008B2 Title: Subnetwork synchronization and variable transmit synchronization techniques for a wireless medical device network	2011-12-06
☐	US8071809B2 Title: Accelerants for the modification of non-natural amino acids and non-natural amino acid polypeptides	2011-12-06

◎學習心得

藉由這次的上課機會讓我了解到原來有這麼方便查資料的工具,平時很少接觸到這一塊領域,因為多半是學習課本及講義上的資料,但文獻資料其實有它的重要性存在,很多臨床的研究資料也能夠於此查出,理論配上應用才是真正這個東西發揮的效用. 而文獻也是之後我們會常看到的資料,從文獻了解這個藥品在世界各地的應用情形,也可作為我們使用的參考,是非常具有意義及珍貴的資料,而此系統也非常的 **user-friendly**,可以勾選我們所要查的類型,可以過濾掉一些不需要的資料以節省時間.

而另一個 **Thomson innovation** 能夠讓我們了解市面上專利的情況,一種藥或許會有很多應用方法所以也會有許多專利的產生,了解專利可以讓我們知道這家公司之所以成功的地方,與原產品差別的地方,但查詢時也不見得一定能查到我想要的資料,因為市面上的專利太多了,而我對這塊領域也專研不深,所以查詢時比較吃力一點.