Introduction of Korean Traditional Knowledge Portal (KTKP)

March, 2011

Korean Intellectual Property Office

Background of Korean Traditional Knowledge

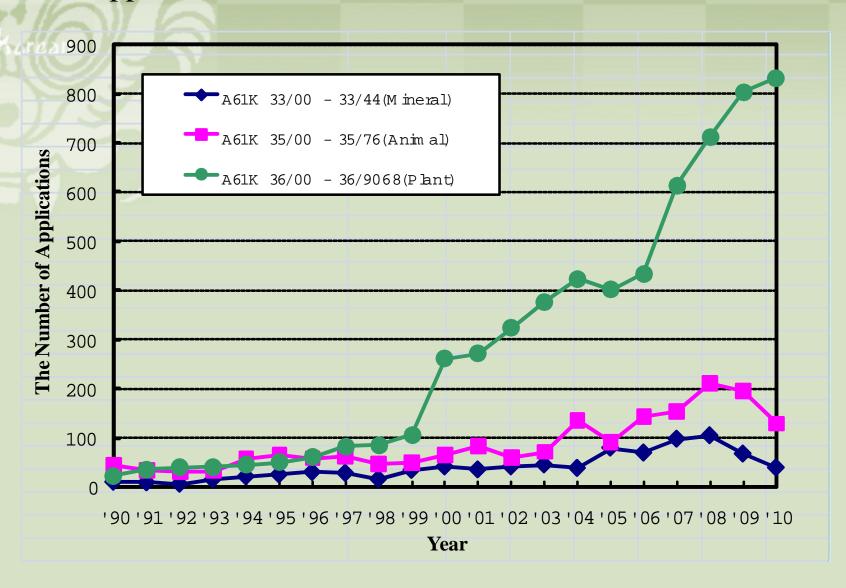
1. Korean TK history is about 5,000 years long.

mountainous peninsula extending south-southeast about 30,000 species of animal and plant life.



The indigenous medical traditions in the area have made extensive use of about 5,100 plants in history.

2. Application trend for Oriental Medicine.



The first new drug as a natural product in Korea





Joins

Ingredients: self-heal, tricosanthes root, clematis root

What it's used for: as an anti-inflammatory to relieve joint pains caused by arthritis

Herbal Healing

In 1995, Ryoo launched the Joins project to develop a new way of treating arthritis. which afflicts 10% of the world's over-60 population. Ryoo decided to submit traditional Korean herbal remedies to stringent tests based on Western scientific methods, "Western medicine can't completely cure arthritis because they don't know its exact cause," he says. Ryoo began by analyzing the causes of arthritis using traditional methods. His studies showed there were three major causes: "wind," "coldness"

and "wetness." | considered the r

conditions, along Anti-arthritis Drug (Joins)

in traditional medical practice. Ryoo then scoured the 600 herbs used for centuries in Korea, performing a long screening process that included tests on animals, and finally narrowed the field to three herbs. Ryoo combined them into a yellow pill the size of an aspirin and christened it Joins.

Joins

Joins®

Joins is a new anti-arthritic drug developed by the Life Science R&D Center of SK chemical. Joins has a strong anti-inflammatory effect on the affected region.

Joins inhibits the degradation of proteoglycan and attenuates the osteoarthritis-like change induced by collagenase and free radicals. So, Joins has a prophylactic effect against the progression of osteoarthritis. Joins has fewer adverse effects than existing NSAIDs and so can be prescribed to older patients over a long period.

::Description

runella



Osteoarthritis (degenerative arthritis)

(Expected indication and effect)

Rheumatoid arthritis

:: Dosage & Administration

One tablet (200mg as active ingredients) 3 times daily.

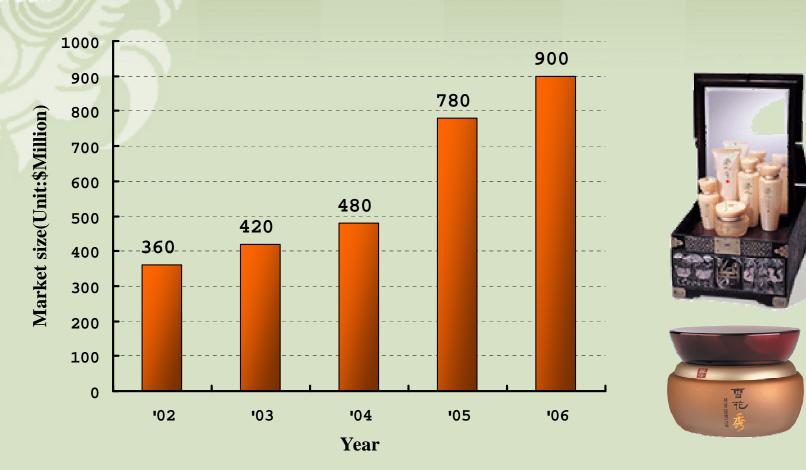
::Characteristics

- 1. Joins tab. inhibits cartilage degradation.
- 2. The anti-inflammatory and analgesic effects of Joins tab, are equivalent to Diclofenac retard tab.
- 3. Joins tab, rarely causes gastrointestinal trouble
- 4. Joins tab. is a new drug developed in Korea

Applications for Oriental Medicine Cosmetics

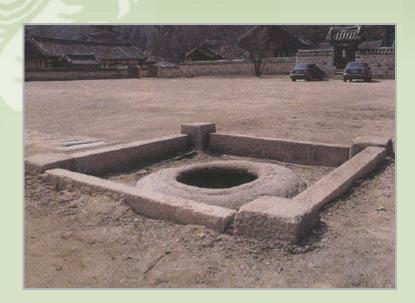
Company	Cosmetics	Ingredients	Application Number
Amore pacific	politic reserve	Polygonatum officinalePaeonia lactifloraPehmannia glutinosaLilium longiflorum	1997-0013647
Hankook cosmetics	e di c	Wild ginseng adventitious roots	2001-0039685
Rosee	天型	Paecilomyces japonicaAcanthopanax senticosusGanoderam Lucidum,Deer antlersGinseng	2003-0039770
Somang cosmetics		• Red ginseng	1998-0058839

Market trend of Cosmetics using Oriental Medicine



Adclick market report (December, 1, 2006)

Application of Traditional preservation method of Kimchi in winter



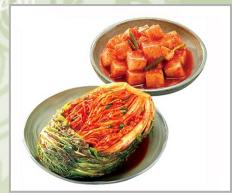




Traditional stone jar for preservation of Kimchi at Beop-ju temple, in winter.

Refrigerator for Preservation of Kimchi throughout the year

Patent dispute case of Korean Traditional Knowledge



Kimchi



sauerkraut

United States Patent [19] Hsu et al. [54] PREPARATION OF A FLAVORED SOLID VEGETABLE AND VEGETABLE JUICE UTILIZING HYDROLYSED PROTEIN		[11]	Patent Number:	4,490,396	
		[45]	* Dec. 25, 1984		
		[58] Field of Search			
[75] Inventors: Jau Y. Hsu; Elaine R. Wedral, both	U.S. PATENT DOCUMENTS				
		of Brookfield, Conn.; William J. Klinker, Blue Island, Ill.		674 10/1974 Mosher 361 12/1980 Christ et al.	426/533
[73] Assignee: Societe d'Assistance Techni Produits Nestle S. A., Laus Switzerland	Societe d'Assistance Technique pour		OTHER PUBLICA	TIONS	
			, N. W. Elements of Foo. Co. pp. 246-250.	od Technology; 197	
[*]	*] Notice: The portion of the term of this patent subsequent to Sep. 8, 1999 has been		Lopez, A	., A Complete Course in Trade, Inc., pp. 241-246.	
		disclaimed.		Examiner—Robert Youco	
[21]	Appl. No.:		Assistant Examiner—Marianne S. Minnick Attorney, Agent, or Firm—Vogt & O'Donnell		
[22]	Filed:	Oct. 4, 1983	[57]	ABSTRACT	
	Rela	ted U.S. Application Data		s for the production of	
[63]	 Continuation-in-part of Ser. No. 435,074, Oct. 18, 1982, Pat. No. 4,428,968. 		which comprises fermenting a vegetable in the present of a powdered hydrolysed protein wherein the total amount of salt present in the process is from 1.0% to		
[51]	Int. Cl.3		4.5% by weight based on the weight of the vegetal		ght of the vegetable
[52]	[52] U.S. Cl			3 Claims, No Drav	wings

"Nestle's preparation method of flavored vegetable was canceled only in Korea, because of similarity with Kimchi "

Korean Journal of Traditional Knowledge

1. Korean journal of Traditional Knowledge is fully digitized.

Therefore, it can be easily provided to the International Authorities.

Articles related to TK selected from 47 kinds of main Journals.

Provided under the agreement on the right of on-line transfer.

Field	Number of Journals	Coverage	Format
Oriental Medicine	28		
Sitology	7		
Pharmacy	7	1947-2010	PDF
Life science	5		
Total	47		

Contents of Article DB

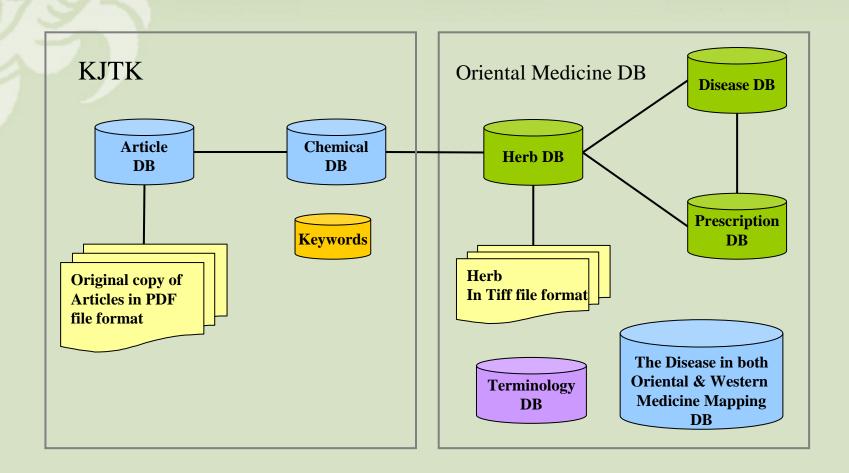
Contents	Note
Bibliographic data	■ Bibliographic data composed with title, author, author affiliation, journal, volume, issue, pages etc.
English abstract & summary	 If there is a English abstract of the author, used as it is. If there is no English abstract of the author then make a summary based on the original text.
Full-text article	■ Using PDF file format for the original articles
IPC(International Patent Classification) & Keywords	■ Patent analysis information.

"All Bibliographic info., title, abstract are provided in Korean and English with searchable format."



Traditional Oriental Medicine DB

- Article DB is linked to Traditional Oriental Medicine DB.



Traditional Life DB

Field	Field Contents	
Agriculture	 Agricultural technique used in traditional society Description for traditional cultivating method and evaluation notes for the expected value To link scholarly articles, patents related to agriculture 	
Art of Living	 Traditional art of living related to food, clothing and shelter Explanations, methods and notes regarding natural dyeing and traditional life and culture 	
Food	 Korean traditional food verified by ancient literature Classification, ingredients, recipes of traditional food and ancient literature as a reference 	

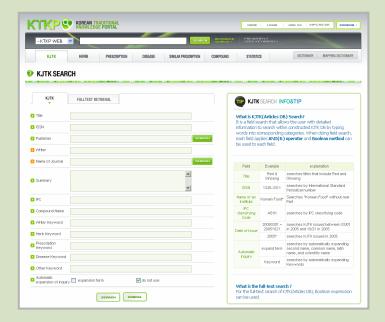
Korean Traditional Knowledge Portal

Provides free internet search service.

KJTK(Scholarly Article), Traditional Oriental Medicine, Agricultural life

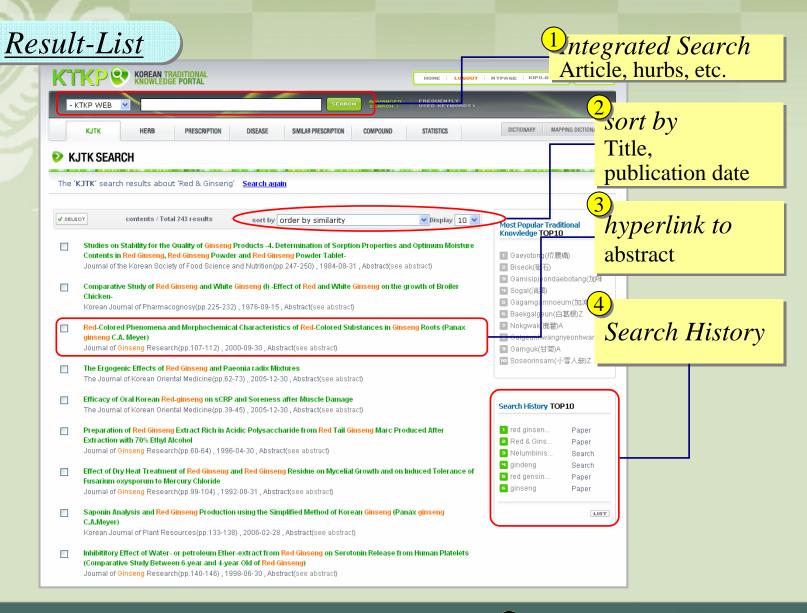
http://www.koreantk.com



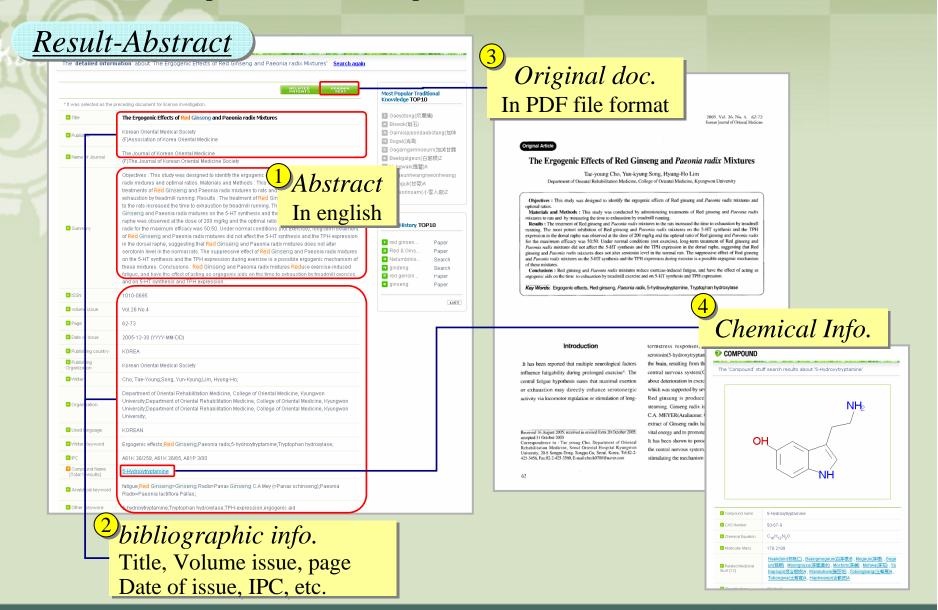


Search example of KJTK in the portal Integrated Search Input-keywords Article, hurbs, etc. - KTKP WEB 🔻 MAPPING DICTIONARY PRESCRIPTION DISEASE SIMILAR PRESCRIPTION COMPOUND STATISTICS KJTK SEARCH Keywords Tips on FULLTEXT RETRIEVAL KJTK SEARCH INFO&TIP title, publisher, queries, What is KJTK (Articles DB) Search? writer, etc. operators, etc. It is a field search that allows the user with detailed information to search within constructed KJTK DB by typing words into corresponding categories. When doing field search, Publisher each field applies AND(&) operator and Boolean method can be used to each field. ₩riter Name of Journal Example explanation Red & searches titles that include Red and Title Ginseng Summary searches by International Standard Periodical number IPC Korean Food* Institute Compound Name classifying searches by IPC classifying code Nriter Keyword 20050301 ~ searches KJTK issued between 03/01 20051021 in 2005 and 10/21 in 2005 Date of Issue Herb Keyword searches KJTK issued in 2005 Prescription Keyword searches by automatically expanding expand term | second name, common name, latin Automatic name, and scientific name Disease Keyword inquiry searches by automatically expanding Keywords D Other Keyword Automatic expansion of inquiry expansion term do not use What is the full-text search? For the full-text search of KJTK(Artides DB), Boolean expression CANCEL

Search example of KJTK in the portal



Search example of KJTK in the portal



The Korean Traditional Knowledge Portal

is accessible in Korean and English

Bibliographic information, title, abstract etc.

	관련특허보기 원문보기 영문보기			
* 특허 심사시 선행기술 문헌으로 선정됨.				
▶ 제목	형골전환 <mark>인삼</mark> callus의 단백질, 환원당 및 Ginsenoside의 양상			
🖸 학회명	고려 <mark>인삼</mark> 학회			
🗅 학술지명	고려 <mark>인삼</mark> 학회지			
2 초목	인함의 조직배양에 의한 유용물질 대량생산 연구의 일환으로서 우선 기내배양에 의하여 중식된 인삼 callus 조직과 Agrobacterium tumefaciens C6891 T-DNA에 의하여 형절전환된 인상 gall callus의 생리 적 특성과 이차대 사실로부처 인상 salonin 및 ginsenoside pattern를 조사하였는 바, 그 결과를 요약하면 다음과 같다. 1. Agrobacterium tumefaciens C59에 의하여 현절전환된 인상 gall calls는 gall 조직 특유의 물질인 nopaline이 급충됨으로서 T-DNA에 의하여 현절전환이 되었음을 재확인되었다. 2. 인상 형질전환 callus는 정상 callus보다 단백결 항략이 많았다며 단백질 pattern도 때무 상이하였다. 3. 인상 형질전환 callus는 정상 callus보다 단백결 함당이 많았다며 단백결 pattern도 때무 상이하였다. 3. 인상 형질전환 callus는 정상 callus보다 단백결 정도 많았으며 ginsenoside pattern도 재배인상 뿌리와도 비슷한 경향을 보였다. 5. 이런 점을 감안할 때 T-DNA에 의하여 형질전환된 인상 callus는 기내에서 사포난를 대량 생산할 수 있			
□ ISSN	1226-8453 <i>Korean</i>			
🖸 권호명	제 15권 2호			
🗅 페이지	124-130			
🖸 발행일	1991년 8월 31일			
🗅 발행국가	대한민국			
☑ 발행기관	고려 <mark>인삼</mark> 학회			
□ 저자	양덕훈(Yang, Deok-Chun):최광태(Choi, Kwang-Tae);양덕조(Yang, Deok-Cho);			
소속기관	한국 <mark>인삼</mark> 연초연구소 유전생리부;한국 <mark>인삼</mark> 연초연구소 유전생리부;충북대학교 생물학과;			
□ 사용언어	한국어			
🗅 저자 키워드	Agrobacterium tumefaciens:Crown gall/Ginsenoside/Panax ginseng/Reducing sugar/Soluble protein:			





Thank you!