4 Databases

4.1 Web of Science

4.1.1 About Web of Science

This database contains citation information. You can search for articles from almost 8,000 journals. From one article, you can find bibliographical information, the abstract, a full-text link, and cited/citing articles. In addition, you can use various analytical tools.

Items	Information	
Subject	all	
Creator	Thomson Scientific	
Content	Bibliographic information of journal article, et al.	
Source	Ca.9,300 titles : Natural science over 5,800, Social	
	science over 1,735, Arts & Humanities over 1,140	
Coverage	"Science Citation Index Expanded [SCIE]" (1900-)	
	"Social Sciences Citation Index [SSCI]"(1980-)	
	"Arts & Humanities Citation Index [A&HCI]"(1980-)	
	"Index Chemicus"	
	"Current Chemical Reactions"	
Update	weekly	
URL	http://www.library.tohoku.ac.jp/dbsi/wos/	
How to use	Available(free) *under contract of university	

4.1.2 Features

- Covers all subjects
- It's possible to search for the relation between one article and another
- $\boldsymbol{\cdot}$ Various analyzing functions

4.1.3 Operation

e.g. To search for an article written by Krunks.M, which has "spray pyrolysis" and "solar cell" as the keywords.

1)Start screen

SI Web of Knowledge [v.4.1] - Web of Science Home - Microsoft Internet Explorer ファイル(E) 編集(E) 表示(M) お気に入り(A) ッ * (E C → Settines → A My Saved Searches Log Out Help
ISI VVED OT KNOWIEGGe*** Take the next step All Databases Select a Database Web of Science Additional Resources Search Cited Reference Structure Advanced Search Marked List Web of Science Veb of Science Advanced Search Marked List Web of Science Search Marked List (0)	Select Search mode
Search for: Example: oil spill* AND "North Sea"	Discover Web of Science Explore top high-impact journals with powerful tools such as cited reference searching and Author Einder 766 categories thoroughly
AND Author AND Author And Author Aut	Sign In Register Sign In Register Sign In Register Save and manage your references online with Enclivite Web-freely available and fully integrated, Save and run searches Create alerts and RSS feeds Chonse your start name
Timespan=All Years. Databases=Science Citation Index Expanded (SCI-EXPANDED); Social Sciences Citation Index (SCI); Arts & Humanities Citation Index (A&HCI); Index Chemicus (IC); Current Chemical Reactions (CCR-EXPANDED [back to 1840]) Please give us your feedback on using ISI Web of Knowledge. Acceptable Use Policy Copyright © 2008 The Thomson Corporation.	 Change Limits and Settings Time span Databases
	Training and Support Help Desk Provide Feedback Search the Web with Thomson Scientific WebPkis インターネット

2) Enter keyword

2 ISI Web of Knowledge [v.4.1] - Web of Science Home - Microsoft Internet Explorer	
ファイル(E) 編集(E) 表示(M) お気に入り(A) 2, ** 党 * リンク ** ③・ For Phra	ase Search, use double
Sign in My EndNote Web My Resea quotation	n like "spray pyrolysis".
ISI Web of Knowledge SM Take the nex All Databases Select a Database Web of Science Add	g from pull-down menu.
Search Cited Reference Structure Advanced Search Search (0)	ヘルプセンター
Web of Science®	
Search for: "spray pyrolysis" AND "solar cell"" in Topic Lawnoze, bit solar cell" in Author	Discover Web of Science Explore top high-impact journals with powerful tools such as cited reference searching and Author Finder. 256 categories thoroughly cover the sciences, social
Need help finding papers by an author? Use Author Finder. AND	• Wantio know more? • t trunaction, add "*" like s M*".
Search Clear Curre Change Limits and Settings You can add another field if you want. By "Author Finder limit author's subj and institution.	erferences online with <i>EndNote</i> Web-freely available and fully integrated. Save and run searches Create alerts and RSS feeds Chrones your start name Pr'', you can ject category
Acceptable Use Policy Copyright © 2008 The Thomson Corporation	Further Information • What's New? • Training and Support • Heip Desk • Provide Feedback • Search the Web with Thomson Scientific WebPlus

More search tips

- Use terms without quotation to find the records which contain all terms.
- Wildcards are available. "flavor\$r" matches flavor and flavour, "sul*ur" matches sulfur and sulphur.
- solar cell(without quotation marks) finds the records containing the word solar and the word cell.
- Stopwords(e.g. words such as A, THE, OF, IN) are not searchable.

3) Results list



4) Detailed display



- Number of "References"
 - Reference list of this article. This number will not change.

4.1.4 Relation of articles



Character	Information	Example
*	Right truncation	sul $*ur^* \rightarrow sulfur, sulphur$
		sulfuric,
		sulphuric
?	Singular letter variant	wom?n \rightarrow woman, women
\$	Plural letters variant	labo $r \rightarrow labor, labour$
SAME	Keywords are contained in same	cellulose SAME wood
	sentence	\rightarrow wood cellulose,
		cellulose from wood

Items	Information	Example
TOPIC	Retrieve from article title,	reduc* sodium
	abstracts and keywords. Plural	\rightarrow reduced sodium,
	words without quotation marks,	reducing sodium
	will retrieve records that	
	contain all of the words.	
AUTHOR	Recommended "Family	田中耕一
	name(one space)First letter of	= Tanaka K*
	first name + $*$ "	de la Rosa Mi – doŝlaŝ Posa M*
	Constant	Shi Wa Yen
	Searchable by all authors (not	= Yen S* OR Shi W*
	only first author).	Schröder A
		= Schr*der A*
GROUP	Select from "group author	CERN
AUTHOR	index".	MACRO COLLABORATION
		TIMI STUDY GRP
SOURCE	Search registered title from	IEEE CIRCUITS DEVICES
TITLE	"full source titles list". If you	JOURNAL OF AIRCRAFT
	know abbreviated title only, use	PHYS* REV*
	" [*] ".	
ADDRESS	Confirm registered name by	東北大学医学部
	"abbreviations help", "*" is	= Tohoku Univ SAME Med*
	recommendable. Use "SAME" to	IBM 東京基礎研究所
	search faculty or institute.	= IBM SAME Tokyo Res*

4.1.5 Article Relations in Web of Science



4.2 SciFinder Scholar

ltem	information
Subject	Chemistry, chemical engineering, physics, pharmacology, life
	science, agriculture, etc.
Creator	CAS(Chemical Abstracts Service)
Туре	Article, proceedings, patent, thesis, technical report, etc.
Source	Approximately 9,500 journals (Chemistry, from 150 countries)
Coverage	1840-
Update	Daily
URL	Exclusive browser download is needed.
How to	Registration is required by laboratory. Pay for use.
use	
Other	Info. http://www.library.tohoku.ac.jp/dbsi/scifinder/

4.2.1 About SciFinder Scholar

- 1) Chemical literature information Article, patent, etc. (1840-)
- 2) Fact data Compounds, etc. (1957-)
- 3) Reaction information of organic compounds Reaction information issued as article or patents (1840-)
- 4) Commercial source information Including supplier addresses and pricing information
- 5) Regulatory information Including substance identity information, inventory status, and compliance information.
- 6) Medical information Including information in "MEDLINE" (1950-)



4.2.2 Begin Search

You will find the "New Task" window at the first step. There are 3 kinds of search flow: Explore, Locate, Browse.



Major Search Items

	Item	Information	Example
	Research Topic	Search by topic. Enter keyword or sentence.	[I am interested in] composition for polymer- dispersed liquid crystal
Explore Liter	Author Name	Search by author name.	Tanaka (Last name) K (First name or initial)
ature	Company Name / Organization	Search by organization.	Tohoku Univ, Japan Seiko Epson Corp, Japan Sony Corp, Japan
Explore Substances	Chemical Structure	Search by structure. There is the default editor, and it's possible to copy and paste from "ISIS/DRAW" and "ChemDraw".	CO2H
	H20 C2H4 Molecular Formula	Search by molecular formula.	C11H8O2 O2C11H8 O2 C11 H8
	Bibliographic Second Information	By journal name, article title	Cellular Microbiology
		By CA abst. number	122:252283 (CAN)
Locate	Document Identifier	By patent number	JP07026265
	534-23 trimet	By CAS registered name	2-Naphthalenecarboxylic acid
	Substance	By other name	Isonaphthoic acid
	Identifier	By CAS registry number	93-09-4(93094)

4.2.3 Literature Search (Basic Flow)

Introducing the basic flow of literature search, using the example of the following research topic:

e.g. Search the literature written about "composition of polymer-dispersed liquid crystal display".

1) You find "I am interested in" in the Explore window. Enter the keyword after this phrase. By clicking "Filters", you can set Publication Year, Author Name and more.

I am interested in:		
composition of po	ymer-dispersed liquid crystal display	
Examples: The effect Photocyan Hydrocarb	of antibiotic residues on dairy products ation of aromatic compounds on-water emulsions as fuels	
Publication year	Only return references published in this year or range o	 Publication Year Document Ty
Document type	Only return references coming from the following source Clinical Trial Conference Patent	 Language Author Name
Language	Only return references from papers written in the follow Chinese French English German	Company Na Japanese Spanish
Author name	Only return references written by the following author: Last: First: Middle	initial:
Company name	Only return references written by the following company	1

.

2) If you click the "OK" button, the windows will appear as below.

This window shows you the number of results for your search under several search conditions. Select a results group, and click the "Get References" button to see the result list. Confirm the detailed information by clicking the $\frac{1}{2}$ icon.



3) Detailed literature information (e.g. patent)



4.2.4 Search by "Research Topic"

Tips

- Check commonly used abbreviations, such as "BTU" and "Prep".
- Check commonly misspelled words ("affect" instead of "effect")
- Check words spelled according to either British or American English ("colour" or "color")
 - You will get different search results depending upon the sentence you entered. Compare the two examples that follows(they use the same words):

e.g.1) composition <u>and</u> polymer-dispersed liquid crystal display

Topic Candidates	
Select Candidates of interest (limited by Publication Ye	ar):
174 references were found containing all of the concepts "polymer dispersed" and "liquid crystal display".	"composition", 🔄
618746 references were found containing at least one of "composition", "polymer dispersed" or "liquid crysta	the concepts al display".
568757 references were found containing the concept "c	omposition".
23903 references were found containing the concept "po	lymer dispersed".
36816 references were found containing the concept "lic	uid crystal display".
	<u>_</u>
Get References E	Back
Candidates 1-5 of 5	

- e.g.2) composition <u>of</u> polymer-dispersed liquid crystal display See the results Part 11 4.2.3
- If you use plural words combined with "and" or "or", enter as follows;
 e.g.) numeric and bibliographic <u>data</u>

numeric \underline{data} and bibliographic \underline{data}

If you want to get results that include different words, add them inside
 () as follows;

e.g.) the milk production of <u>cow(cattle, bovines)</u>

4.2.5 Search by "Author"

Family name is mandatory for an author search. Enter first or middle name if necessary. If you can not identify the correct author because of many authors of the same name, the "Analyze / Refine" function is recommended.

Explore by Author Name	×		
Enter the author's name Last name (required):	e. Search "Johnson, D.A."	by	
johnson First name or initial: d	Author Candidates <u>File E</u> dit <u>T</u> ask T <u>o</u> ols <u>H</u> elp Select Candidates of inter	rest:	_ _ ×
Middle name or initial: a I Look for alternative sp	✓ JOHNSEN DORRIT ✓ JOHNSON ✓ JOHNSON D ✓ JOHNSON D A ✓ JOHNSON D A ✓ JOHNSON D A G ✓ JOHNSON D A W	1 refe 11 refe 1166 refe 665 refe 2 refe 1 refe	rences rences rences rences rences rences
	JOHNSON D JR	Various candidates will you want to select all, "Edit" "Select All".	l appear. If

4.2.6 Search by "Document Identifier"

When you get the results of this search, you had better write down the specific number to identify the record.

 e.g. Kobayashi, Hidekazu; Chino, Eiji; Yazaki, Masayuki; Iizaka, Hideto. Liquid crystal composition for polymer-dispersed liquid crystal displays. Jpn. Kokai Tokkyo Koho (1995), 12 pp. CODEN: JKXXAF JP07026265 A2 19950127 Heisei. CAN 122:252283 AN 1995:508066 <u>CAPLUS</u>

Database name

Accession Number CA Number Patent Number

4.2.7 Chemical Substance Search(Basic Flow)

Introducing basic flow of chemical substance search by example "Chemical Structure" as follows:

- **e.g.** Search the name of chemical substance and its CAS registered number.
- CO₂H
- 1) To draw a Benzene ring, click the Benzene icon. Place the cursor in the editor window, then click.
- 2) To combine another Benzene ring, overlap them with combine point. The color of the point will change, then click there.

3) To add functional groups(e.g. CO₂H), select from "Short" icon.

4) After drawing, click "Get Substances" button. You will see a dialog box as below. Check "Exact search", and check your search options by clicking "Filters".

	Get Substances Get substances that match Exact search Substancer search C Similarity search Filters 👻	n your query using: h	×
For example, check here to search single components.	Substance class	Return substances that are: Alloys Coordination compounds Incompletely defined Mixtures Polymers Corganics, and others not listed above	
	Structure components	Duly return substances that are single components	
	Commercial availability	Conly return substances that are commercially available	
	References	Conly return substances having one or more references	
	Studies	Only return substances having these reported studies: Analytical Biological Preparation Reactant or Reagent	

5) Results appear in order of CAS registry number.

6) Detailed information of chemical substance

<u>File Edit H</u> elp		
Registry Number:	93-09-4	CAS registry number Structure
Formula:	C11 H8 O2	Formula
CA Index Name:	2-Naphthalenecarboxylic acid	CA name
Other Names:	2-Naphthoic acid (8Cl); β-Naphthalenecarboxylic acid; β-Naphtho 2-Carboxyna Isonaphthoio Experimental Properties	d; ac Other name
Experimental Proper Calculated Propertie	Calculated Properties Resources	
STN Files:	CAPLUS, AGRICOLA, ANABSTR, BEILSTEIN, BIOSIS, BIOTEC CAOLD, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLI CSCHEM, CSNB, DDFU, DETHERM, DRUGU, EMBASE, GME IFIPAT, IFIUDB, IPA, MEDLINE, MRCK, MSDS-OHS, RTECS, S SYNTHLINE, TOXCENTER, USPAT2, USPATFULL (Additional Information is available through STN International, information specialist, a local CAS representative, or the CAS for Assistance)	HNO, CA, ST, IN, IFICDB, PECINFO, Contact your Help Desk
Database:	REGISTRY	-
	Close	

Experimental Properties window

🤶 Experimental P	roperties for 93-09-	4	1	
<u>File Edit H</u> elp				
Registry Number:	93-09-4			
	~~	C02H		
	(I)	Ţ		
	\sim			
Eormula:				
romula.				
CA Index Name:	2-Naphthalenecarboxy	lic acid		
Property	<u>Value</u>	<u>Condition</u>	<u>Note</u>	
Boiling Point	>300 °C		(1) SRC	
Carbon-13 NMR	See spectrum		(2) WSS	
Spectrum			5007000000	
Carbon-13 NMR	See spectrum		(3) WSS	
Spectrum	201 - TO 10		Sector Laboration	
Carbon-13 NMR	See spectrum		(<u>4)</u> WSS	
Spectrum	100 mm		2000 A.	
Carbon-13 NMR	See spectrum		(<u>4)</u> WSS	
Spectrum	100 mm			
Carbon-13 NMR	See spectrum		(5) WSS	
Spectrum			20.000	
Carbon-13 NMR	See full text		(6) CAS	
Spectrum	2010-0010-0		200 (CONS)	
IR Absorption Spe	ctrum See spectrum		(7) AIST	
IR Absorption Spe	ctrum See spectrum		(7) AIST	
IR Absorption Spe	ctrum See full text		(<u>8)</u> CAS	
Mass Spectrum	See spectrum		(9) WSS	
Mass Spectrum	See spectrum		(9) WSS	
Mass Spectrum	See spectrum		(9) WSS	
Mass Spectrum	See spectrum		(9) WSS	
Mass Spectrum	See full text		(<u>10)</u> CAS	
Mass Spectrum	See full text		(<u>11)</u> CAS	
Mass Spectrum	See full text		(<u>12)</u> CAS	
Mass Spectrum	See full text		(<u>13)</u> CAS	
Mass Spectrum	See full text		(<u>14)</u> CAS	
Mass Spectrum	See full text		(15) CAS	
Melting Point	186-187 *C		(<u>16)</u> CAS	
Melting Point	186 °C			
Melting Point	165.5 °C		(I) SRC	
Melting Point	105-187 *0		(18) CAS	
Melting Point	180-183 °C		(19) (C	
Permeability	See tuli text		(20) CAS	
	Print	Cl	ose	

Calculated Properties window

🔷 Calculated Prope	rties for 93-09-4			
File Edit Help				
Registry Number: 93	3-09-4			<u>^</u>
	~	, CO2H		
	í Ì			
	\sim	\checkmark		
Formula: C	11 H8 O2			
dA Index Name: 2	-Nachthalenecarboxvlic	acid		
	(addining of the second s			
Property	Value 110	Condition	Note	
Bioconcentration	140	pH 1	(22)	
Factor Bioconcentration	139	nemp: 25 C	(22)	
Factor	100	Temp: 25 °C	(22)	
Bioconcentration	131	nH 3	(22)	
Factor	0.70	Temp: 25 °C	(22)	
Bioconcentration	85.8	pH 4	(22)	
Factor		Temp: 25 °C		
Bioconcentration	19.3	pH 5	(22)	
Factor	0.00	Temp: 25 °C		
Bioconcentration	2.29	pH 6	(22)	
Factor	10	1emp: 25 °C	(77)	
Bloconcenuation	1.0	pri / Temp: 25 °C	(22)	
Bioconcentration	10	nH 8	(77)	
Factor	1.0	Temp: 25 °C	(22)	
Bioconcentration	1.0	pH 9	(22)	
Factor		Temp: 25 °C		
Bioconcentration	1.0	pH 10	(22)	
Factor		Temp: 25 °C		
Boiling Point	332.9±11.0 °C	Press: 760 Torr	(22)	
Density	1.265±0.06 g/cm3	Temp: 20 °C	(22)	
Enthalow of	60 77+3 0 k l/mol	Press, 760 Ton Press: 760 Torr	(77)	
Vanorization	00.77 ±3.0 Komor	F1855, 700 100	(22)	
Flash Point	151 3±13.9 °C		(22)	
Freely Rotatable Bo	nds 1		(22)	
H Acceptors	2		(22)	
H Donors	1		(22)	
H Donor/Acceptor Su	Jm 3	622	(22)	
Koc	1190	pH 1	(22)	
Kac	1100	Temp:∠5 C	(22)	
NUC	1150	pri∠ Temn: 25 °C	(22)	
Koc	1120	nH3	(22)	
	Solution .	Temp 25 °C	<u></u> ,	<u> </u>
	Print		Close	

4.3 Pubmed

4.3.1 About Pubmed

ltem	Information
Subject	Medicine (Pharmacology) , Nursing
Creator	U.S. National Library of Medicine
Туре	Article, Reviews, Monograph and more
Source	Approximately 4,800 (70 countries)
Coverage	1951-
Update	Weekly (Daily, without subject headings)
URL	http://www.ncbi.nlm.nih.gov/PubMed/
How to use	Free. Access the URL above.
Other	Offered also via "Medline(Ovid)"(see Part 11 4.4)

4.3.2 Features

- Searchable via Entrez system which developed by NCBI. Entrez includes many databases, so across searching or link to other databases are possible.
- "MeSH" thesaurus are available to search articles written about the specific topic.
- PubMed provides links to other site as well as biological resources, research tools, and more.

4.3.3 PubMed and Other Resources in Entrez

Entrez is the research platform including Pubmed, offered by NCBI. Each databases links to other like synapses. They offer 2 type searches as below.

(http://www.ncbi.nlm.nih.gov/Dat abase/index.html)

4.3.4 Keyword Search

(1) In initial screen, automatically "PubMed" database is selected. For switch other database, click the name in black line. Enter keyword ("influenza" in this example) "for" field, then click the "Go" button for search.

Via "Single Citation Matcher", you can search by journal title, volume and issue, and so on. See Part II 4.3.5

2) Results list

3) Detailed display

4.3.5 Single Citation Matcher

PubMed Single Cit	ation Matcher -	Microsoft Internet Explorer	
Google Coogle	e G • • • •	③ Settingsマ アドレス① 創 http://www.ncbinlm.r マ シ 移動 (気 マ リンク)" ファイル(E)"	
S NCBI	PubMed Si	ngle Citation Matcher	
Entrez PubMe	ed Nucleoti	de Protein Genome Structure CMIM PMC If you have the informatic	on
About Entrez	 Use this Journal r 	tool to find PubMed citations. You may omit any field.	60
	• For first	and last author searching, use smith jc format.	se
Text Version	Journal: FE	BS letters "Single Citation Matcher"	to
Entrez PubMed Overview Hein LEAO	Date: yy Volume: 58	yy/mm/(month and day are optional) get full-text in short tim	ie.
Tutorials New/Noteworthy	Author name	(see help) You can search	bv
E-Utilities		Only as first author Only as last author bibliographic information	-
PubMed Services Journals Database MeSH Database	Title words:		
Single Citation Matcher	Go Clear		
Batch Citation Matcher Clinical Queries Special Queries			
LinkOut My NCBI			
Related Resources		🔄 High mobility group Al protein mediates human nitr[FEBS Lett. 2008] – PubMed Result – Microsoft Internet Explorer 🖕	
NLM Mobile NLM Catalog		Coogle G- ● ● ● Settings- アドレス型 創 http://www.ncbinlmr ● ● 移動 ● ・ リンク ** ファイル(を)	»
NLM Gateway TOXNET Concurrer Health		A service of the U.S. National Library of Medicine and the National Institutes of Health	2
Clinical Alerts ClinicalTrials.gov			ister]
PubMed Central		Search PubMed videsotide Protein Genome Structure Unitin Pric Journals Books	
	N	Limits Preview/Index History Clipboard Details	
	4	Display AbstractPlus Show 20 Sort By Send to	
🔊 http://www.plm.pib.gov/	nriuzou html	MILT REVIEW. 0 X	ink
C urb///www.um.ningov/	privacy.ritmi		
		High mobility group A1 protein mediates human nitric oxide synthase 2 gene expression. Related Links Related Links Down-regulation of high mobility group -H(Y) protein contributes to the inhibition of drift (Links)	011
		Takamiya R, Baron RM, Yet SF, Lavne MD, Perrella MA. Division of Pulmonary and Critical Care Medicine, Department of Medicine, Brigham Take Medicine, Brigham	011
		and Women's Hospital, 75 Francis Street, Boston, MA 02115, United States; Harvard Medical School, Boston, MA 02115, United States.	xt
		Nitric oxide synthase (NOS)2, an inducible enzyme that produces NO during inflammation, is transcriptionally regulated. Our goal was to determine the synthesize of the synthe	077
		regulation. Using a small molecule inhibitor of HMGA1 binding to DNA, or a dominant-negative form of HMGA1, we blunted the induction of hNOS2 by	roup
		pro-inflammatory stimuli. Binding of HMGA1 in the region -3506 to -3375 of the hNOS2 promoter, a region not previously known to be involved in hNOS2	0/1
		regulation, contributed to the induction of INUS2 promoter in conjunction of the second	22015
		PMID: 18279675 [PubMed - as supplied by publisher]	
		Display AbstractPlus Show 20 Sort By Send to	
		Write to the Liste Deek	
		Privacy Statement Freedom of Information Act Disclaimer	~
		ال ا	

4.3.6 History Search

4.4 Medline

4.4.1 About Medline

ltem	Information
Subject	Medicine (Pharmacology) , Nursing, Density
Creator	U.S. National Library of Medicine
Туре	Article, Reviews, Monograph and more
Source	Approximately 4,800 (70 countries)
Coverage	1951-
Update	Weekly (Dairy, without subject headings)
URL	http://www.library.tohoku.ac.jp/dbsi/ovid/
How to use	Registration required as a laboratory. Free for charge to
	University members.
	You can use this database without registration at
	computers in the library.
Other	Offered also via "PubMed"(free)
	http://www.ncbi.nlm.nih.gov/PubMed/

4.4.2 Features

- Searchable not only by the title or author, but also medicine or name of disease.
- Includes a "MeSH" thesaurus to search articles written about the specific topic(they appear under various terms).
- You can search in-process data before the thesaurus is given with "MEDLINE In-Process & Other Non-Indexed Citations (PREM) "

4.4.3 Keyword Search Using Thesaurus

1) You can see "Enter Keyword" on the "Default screen". To switch to another search, click the icon. Enter keyword ("cancer" in this example), then click the "Search" button.

🗿 Ovid: Search Form – Microsoft Internet Explorer	
ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(I) ヘルプ(ש 🕢 🖓 אַראדע דער אין
Ovid MEDLINE(R) 1966	5 to Current (ALL)
	💩 Change Database 🖾 Help 🐲 LOGOFF გቆ Personal Account (for Searches) 🕀 Saved Narches/Alerts
witch search menu	Results Logoff
	and SOVE SECILLY MIELL
	Digada georgit Wierr
Advanced Basic Find Search Search Citation	More Fields Search Tools
Advanced Search Search Citation Reyned Author Search Jou	More Fields Search Tools
Advanced Basic Find Search Search Citation Reyver Author Search S	More Fields Search Tools
Advanced Basic Find Search Search Citation Key J Author D Jo Enter Keyword or phrase (use to for truncation): Gancer	More Fields Search Tools
Advanced Basic Find Search Search Citation Roy 4uthor Search Source I Jou Enter Keyword or phrase (use to for truncation): Cancer Enter Keyword	More Fields Search Tools

2) Medline gives a thesaurus list relating to the entered keyword. Select thesaurus word that you are searching for, then click the "Continue" button. (In this example, "Neoplasmas" has been selected).

Ovid: Mapping Display - Microsoft Internet Explorer			
ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(D) ヘルプ(H)		G • *	アドレス(1) リンク 🎽 🦺
O V I D' Mapping Display		o	vîd web gateway
	🔂 Main :	Search Page 🗵 Hel	⊫ 8ª LOGOFF
Combine selections with: OR Select Subject Heading	Explode	Focus	Scope
Neoplasms			acope fi
cancer.mp. search as Keyword			
			N

3) In the next step, you will find "Subheadings." Select items and click "Continue". ("Microbiology" has been selected in this example) .

🗿 Ovid: Subheading Display - Microsoft Intern	et Explorer 📃 🗖 🛛
ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール	@ 7769 (G + " PFUZ@ 1929 /</th
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l 🖻 Se	arch Tools 🖀 Main Search Page 🖸 Help 🐲 LOGOFF
Combine selections with: OR 💌 🚺 🔲	TINUE »
Subheadings for: Neoplasms	
Include All Subbeadings (145160)	
or choose one or more of these subheading	as
🔟 🗌 /an - Analysis (667)	
🛄 🔲 /bl - Blood (5191)	In a mortality (0286)
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🔟 🗌 /cl - Classification (1001)	💷 🗌 /pc - Prevention & Control (8464)
/co - Complications (13094)	🛄 🔲 /px - Psychology (7600)
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4) You can see the reference list under the "Search History".

a la		
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5) You can refer to the "Abstract" or to "Complete Reference" if you want. Confirmation of the holding information of Tohoku University is available.

6) You can find the thesaurus used in this literature in detail information.

7) You can download the result list using "Results Manager".

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 Selected Results ○ All on this page ○ All in this set (1-876) and/or Range: 	 Citation (Title, Author, Source) Citation + Abstract Citation + Abstract + Subject Headings Complete Reference SELECT FIELDS 	 Ovid BRS/Tagged Reprint/Medlar. Brief (Titles) Display Direct Export XML 	 ISPLAY PRINT PREVIEW EMAIL SAVE 	
Sort Keys Primary:	Ascenc	□Include Search History		
Secondary: Select "Sort Keys" output.	to sort		✓ ▲	

4.5 Biological Abstracts

4.5.1 About Biological Abstracts

Items	Information
Subject	Biology, Environmental studies, Basic medicine,
	Agricultural studies, and more.
Creator	BIOSIS
Content	"Biological Abstracts" Article
	"Biological Abstracts / RRM" Review, Proceedings,
	patents, Books, and more.
Source	Approximately 4,000 titles (over 90 countries)
Coverage	"Biological Abstracts" 1985-
	"Biological Abstracts / RRM" 1989-
Update	bi-monthly
URL	http://www.library.tohoku.ac.jp/dbsi/ovid/
How to	Registration required as a laboratory. Free for University
use	members.
	You can use this database without registration at
	computers in the library.

4.5.2 Flow in Search for Biological Abstracts on the OVID system

e.g. Search for articles written about water birds and environmental pollution.

1) Select "Biological Abstracts" and "Biological Abstracts / RRM".

- 2) Keyword search is the default setting. When you chose plural databases, it is not possible to use the thesaurus.
 - e.g.) Enter $\ ^{r}$ (waterbird\$ or water bird\$) and (environment\$ or pollut\$) $_{\tt J}$

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οv	I D' Biological Abstracts, Biologic	al Abstracts/RRM						
	🚱 Change Database 🔮 Online Support 🖾 Help 🏼 LOGOFF							
	🖓 🖞 Personal Account (for Searches) 💷 Saved Searches/Alerts							
#	# Search History							
-	-	Selected database name						
Con	bine Searches Delete Searches Sav	e Search/Alert 🔗 Remove Duplicates						
-	1.11							
Advance	Basic Find OF Mr	re Fields 🚔 Search Tools						
Search	Search Citation							
- Keywo	Keyword Author Title Journal							
Enter Keyw	ord or phrase (use "\$" for truncation):							
(waterbird\$ o	r water bird\$) and (environment\$ or pollut\$)	EARCH						
	2							
Limits	More Limits							
Abstracts	s 🗌 Book	English Language						
Full Text	L Microorganisms	Review Articles						
Plants								
Publication Year - Y Y								
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ltem	Information
AND	e.g.) "water and birds" water birds , water economy of desert birds
OR	e.g.) "health or welfare" animal health , animal welfare
Right	e.g.) "cat\$ " cat, cats, catalog
truncation	
Phrase	"water birds" (= "water adj birds") water birds

3) Literature including keyword in title, abstracts, and so on. There are links to E-journal, library holdings, etc. If you get too many results, use the "Limit" or "Combine" function.

	Search Form - Micro »	soft Internet E	xplorer	- 11 IA			»
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t	((waterbird\$ (environment bo, bt, cb, cc, sq, st, ti, tm,	or water bird\$ \$ or pollut\$)) ds, ge, gn, m tn]) and .mp. [mp=ab, bo c, mi, mq, or, ps	C, Details	867	His	story
60	Combine Searches	Delete Se	earches 🔲 Sav	ve Search/Alert	Remo	ve Duplicates	
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4.6 CrossFire

4.6.1 About CrossFire

ltem	Information				
Subject	Chemistry, Physics, Material science, Medicine, Biology, an				
	more.				
Creator	MDL Information Systems				
Туре	Substance / Reaction / Literature information appeared in				
	Article, Proceedings, Patent, Thesis, and more.				
Source &	"Beilstein" Contents of printed matter (1771-1980)				
Coverage	Approximately 175 academic journals (Orga				
		chemistry) 1981-			
	"Gmelin"	Contents of printed matter (1772-1974)			
		Approximately 62 academic journals (Inorganic			
		chemistry) 1975-			
Update	Quarterly				
URL	Specific brov	wser is required. Download from supplier's website is			
	available.				
How to use	Registratior	n required as laboratory. Pay for use.			
	You can us	e freely this database at the computer in libraries			
	(Kita-Aobay	ama, Engineering, Agricultural, and Institute for			
	Materials R	esearch libraries only).			
more	Further info	o. http://www.library.tohoku.ac.jp/dbsi/crossfire/			

4.6.2 Features

- Consist of data from traditional reference books going back over 200 years.
- There are many links from one article to another, so you can get a wide range of information about compounds by using this.
- $\boldsymbol{\cdot}$ Searchable by chemical structure, reaction and more.

1) Connect and Select Database

When you start "CrossFire Commander" (specific browser of CrossFire) , you will see the search screen as below.

Click the "CrossFire" button to connect the database. After that, you can select the database by check the box(use two databases simultaneously is available).

2) Select Kind of Search and its Operation

There are "Text Search", "Structure Search", or these can be combined. Click "Start Search" to submit.

4.6.3 Search for Compounds

e.g. 1 To search for the "boiling point" of benzocaine used as anesthetic (narcotic, opiate) from "Beilstein" and "Gmelin".

1) Enter Keyword

Enter keyword to "Search All Text" box. You can search by molecular formula, CAS register number, etc. Click "Start Search" after entering keyword, " (anesthetic OR narcotic OR opiate) AND benzocaine".

2) Choose context and submit search

You can see a bar graph of each context. At this time, choose all words and check "Substances", then click "Start Search".

If you wa	nt to e	except			1227			
some keyw	ords, ex	clude	in the selected databa			Search Plan		N
the check.		ch your y	vords.	8		database(s) Beilsteini (2005/03) (2 search(e	es will be conducted in (2005/03) and Gmelin es)):	
Search Wor	d in Context	SUBSTANCES Substance Properties BISUB	REACTIONS Reaction Data BIREA	CITATIONS [AU, TI, AB, BICIT	1	Beilstein(2005/03) (Substances)	(anesthetic* or narcotic* or opiate*) AND benzocaine*	
(anesthetic opiate*)	or narcotic* or					Gmelin(2005/03) (Substances)	(anesthetic* or narcotic* or opiate*) AND benzocaine*	
🔽 benzocaine						Hitsets will be given in	n separate windows!	
Select Co	ntext:	Substances	Reactions	Citations				
Please note:	15/03)	Gmelin(2005/03)						
Different	Different contexts may we differ int hits. Search more than 1 context to be comprehensivel Results						rding	
from diffe Vords fro searchab	from different databases and comparts are displayed in different windows. • Words from bibliographic data support, Patent Assignee, Journal Name, Patent Number,) are NOT searchable in SUBSTANCES or Reactions. Please uncheck words in the left column and use DATA to selection of left						left	
Substance	e property data and	read Bar gr	aph of h	its will		window.	•	
Cancel		appear	(Belstei	n and			Start Se	arch
		Gmelir	ı)					

3) List of Results Group

"Hits" shows the number of results, "Database" shows database name, and "Query" shows your search query.

Click "View" button to display the result group of "Beilstein".

1	I Q0	м	1 Substances	Beilstein(2005/03)	((BISUB=anesthetic* or BIPHARM=anesthetic*) or (BISUB=narcotic* or BIPHARM=narcotic*) or (BISUB=opiate* or BIPHARM=opiate*)) and (BISUB=benzocaine* or BIPHARM=benzocaine*)	
2			0 Substances	Gmelin(2005/03)	(BISUB=anesthetic* or BISUB=narcotic* or BISUB=opiate*) and BISUB=benzocaine*	

4) Display Hits

Search results are displayed in right window. Double click it to display in detail. In left window, you can see search history. Click one to switch the display any time.

5) Display Hits in Detail

You can see detailed information about the compounds. To see each topics, click the code in "Field Availability List".

In addition, there are many links to view other compounds, reactions, related literature and so on.

History Print Hits	ander Query Result Reports Alerts AutoNom Substances: hit 1 of 1	Save, Print,
Beilstein(2005/03) Saved Hitsets/Alert Hitsets Session Hitsets	Substance Identification Hitsel Family Billion	Export, etc.
⊕ Greelin (2005/03)	Autoname 4-amino-benzoic acid ethul ester Autoname 4-amino-benzoic acid ethul ester Autoname 4-amino-benzoic acid ethul ester Benzosanae Autoname 4-amino-benzoic acid ethul ester Molecular Velight 165.19 Lawson Number 16038, 298 Type of Substance isocyclic Constitution ID 566958 Tautomer ID 597922 Beitstein Reference 0-14-00-00422, 1-14-00-00567, 2-14-00-00248, 3-14-00-01025, 4-14-00-01129, 5-14, 6-14	Substance Identification ("Substance") CAS registry number Chemical name
	Field Availability List 1-10 of 45	formula
	Code Field Name Occ.	and more.
	PHARM Bioactivity: Pharmacological Data 40 ECI Ecological Data: Ecotoxicology 3 RX Reaction 1315 CDER Derivative 33	
	PURE Punctation 1 EM Electrical Moment 5 DFM Molecular Deformation 1 CPD Crystal Property Description 2 MP Melting Point 39	List of data
	Field Availability List 11-20 of 45 Code Field Name Click "BP" code.	 Pharmacology Ecological
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	C Torr 1 141 - 143 0.8 1 20 1 2	Boiling point data
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	Ref. 3 <u>2101985;</u> Journal; Kohlrausch; Stockmair; MOCMB7; Monatsh Chem.; 66; 1935; 316, 324.	
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4.7 Other Databases

777/I/ED 編集(D) 新元(V) 5500 (C · · · · · · · · · · · · · · · · · ·	tabase Services – Tohoku	University Library – Microsoft Internet Explorer					
Tohoku University Library HOME Information Retrieval My Library Service Guide Manadian Online Cataloz Collections Electronic Journals Databases Academic Links Database Service Guide My Library Service Guide Information Information Database Service Services(Limited to Tohoku University faculty, students, and staff) Japar General Ovid Online = Web of Knowledge = EBSCO host MAGAZINEPLUS (journal article index) Mumanities and Social Science Periodicals Index Online(Formerly PCD = Web OYA-bunko = ICPSR Direct Mathacineria MathSciNET Medical Science MathSciNET Medical Science Web version of Japana centra medicina revuo = SPORTDiscus Kahoku Shimpou Database "KD" = The Times Digital Archive Reference tools Japan/Knowledge * Paid service (application required) Vatabase Outline N E W S [2007/3/9] Trial use of Scopus Database will expire Trial use of Scopus Database will expire Trial use of Scopus database will expire on March 31. Alert service continues for about 3 months after that. If you would like to stop alert service, please cancel it until March 31. You can know how to cancel it at Tohoku University Scopus website. Biological Abstracts Biological Abstracts (RBM Retional Ametracte (RBM<	イル(E) 編集(E) 表示(⊻) お	瓦 * Coogle C- ・ ② Settings・ 党・ 3 アドレス(2)	1550 🔭 🥂				
Database Services(Limited to Tohoku University faculty, students, and staff) General Ovid Online Web of Knowledge EBSCO host MAGAZINEPLUS (journal article index) Humanities and Social Science Periodicals Index Online(Formerly POD Web OYA-bunko ICPSR Direct MLA International bibliography SPORTDiscus Science and Engineering SciFinder Scholar CrossFire* INSPEC* INIS Mathematics MathSciNET MathSciNET Medical Science Web version of Japana centra medicina revuo SPORTDiscus Newspapers Asahi Shimbun Digital News Archive Reference tools JapanKnowledge * Paid service (application required) Void Online (2007/3/9) Trial use of Scopus Database will expire * Search system for multiple databases (2007/3/9) Trial use of Scopus Database will expire Vid Online (2007/3/9) Trial use of Scopus database will expire on March 31. Alert service continues for about 3 months after that. If you would like to stop alert service, please cancel it until March 31. You can know how to cancel it at Tohoku University Scopus website.	oku University <u>HOI</u> ary <u>Online Catalog</u>	ME Information My Library Service Guide Gen Retrieval Notabases Academic Links	ieral iation				
General Ovid Online Web of Knowledge EBSCO host MAGAZINEPLUS (journal article index) Humanities and Social Science Periodicals Index Online(Formerly PCD) Web OYA-bunko ICPSR Direct MLA International bibliography SPORTDiscus Science and Engineering SciFinder Scholar CrossFire* INSPEC* INIS Mathematics MathSciNET Medical Science Web version of Japana centra medicina revuo SPORTDiscus Newspapers Asahi Shimbun Digital News Archive "Kikuzou" Kahoku Shimpou Database "KD" The Times Digital Archive Reference tools JapanKnowledge * Paid service (application required) N E W S I Ovid Online [2007/3/9] Trial use of Scopus Database will expire Trial use of Scopus database will expire on March 31. Alert service continues for about 3 months after that. If you would like to stop alert service, please cancel it until March 31. You can know how to cancel it at Tohoku University. Scopus website.	Database S	ervices(Limited to Tohoku University faculty, students, and staff)	Japanese				
Humanities and Social Science Periodicals Index Online(Formerly PCD) Web OYA-bunko ICPSR Direct MLA International bibliography SPORTDiscus Science and Engineerine SciFinder Scholar CrossFire* INSPEC* INIS Mathematics MathSciNET Medical Science Web version of Japana centra medicina revuo SPORTDiscus Newspapers Asahi Shimbun Digital News Archive "Kikuzou" Kahoku Shimpou Database "KD" The Times Digital Archive Reference tools JapanKnowledge * Paid service (application required) N E W S Image: Ovid Online [2007/3/9] Trial use of Scopus Database will expire Search system for multiple databases - MEDLINE (Medicine) - Biological Abstracts (Agriculture) Image: N E W S Image: Optical Abstracts Trial use of Scopus Database will expire on March 31. Alert service continues for about 3 months after that. If you would like to stop alert service, please cancel it until March 31. You can know how to cancel it at Tohoku University. Scopus website.	neral	Ovid Online Web of Knowledge EBSCO host MAGAZINEPLUS (journal article index)					
Science and Engineering SciFinder Scholar CrossFire* INSPEC* INIS Mathematics MathSciNET Medical Science Web version of Japana centra medicina revuo SPORTDiscus Newspapers Asahi Shimbun Digital News Archive "Kikuzou" Newspapers Asahi Shimbun Digital News Archive "Kikuzou" Reference tools JapanKnowledge * Paid service (application required) * Database Outline Image: Compute Scopus Database will expire * Search system for multiple databases - MEDLINE (Medicine) - Biological Abstracts (Agriculture) - Biological Abstracts (Agriculture) - Biological Abstracts (Agriculture) - Biological Abstracts (Agriculture)	Imanities and Social Science						
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http://www.library.tohoku.ac.jp/dbsi/index-e.html

General	EBSCO host
	MAGAZINEPLUS(Japanese articles)
Humanities and Social	Periodicals Index Online
Sciences	Web OYA-bunko
	ICPSR Direct
	MLA international bibliography
	SPORTDiscus
Science and Engineering	INSPEC (Registration required (charged))
	INIS MathSciNet
Newspapers	Asahi Shimbun Digital News Archive
110mopapero	Kahoku Simpou Database
	The Times Digital Archive
Reference tools	JapanKnowledge