## 「第 10 章 SciFinder Scholar」練習問題

# 問題 A (Author Name)

## 問題 A-1

自分の師事した先生または先輩の論文を一件調べなさい.



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Company Name / Organization Find literature from a specific organization. Browse Table of Contents Scan table of contents of my favorite journals. Cancel	Author Candidates Eile Edit Task Tgols Help Select the candidates of interest:  TokIZANE S TokIZANE SHOICHI TokIZANE SOICHI TokIZANE SUICHI TokIZANE SUICHI	1 references 6 references 25 references 1 references
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3. 名をイニシャルで入力しておくと、このようにそのイニシャルで始まる名前も候補として挙げられて来る. 適当なものを選択して「Get References」をクリック.

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Williams, Robert V.; Bowden, Mary E.; Tokizane, Soichi. History of chemical information. Yakugaku Toshokan (2000), 45(2), 129-148. CODEN: YATODW ISSN:0386-2062. CAN 133:334759 AN 2000:556302 CAPLUS Tokizane. Soichi. Benot of the 1999 international chemical information conference.	<u>م</u> ور	History of chemical information. Williams, Robert V.; Bowden, Mary E.; Tokizane, Soichi. College of Library and Information Science, University of South Carolina, USA Yakugaku Toshokan (2000), 45(2), 129-148. CODEN: YATOOW ISSN: 0396-2062. Journal written in Janasee Columbia: 2012;02:04-041200;02:05-04120;02:05-0410;02:05-04120;02:05-0410;02:05
Joho no Kagaku to Gijutsu (2000), 50(6), 358-362. CODEN: JKGIEP ISSN:0913-3801. CAN 133:309524 AN 2000:508363 CAPLUS	<u> 2</u>	Abstract
C Tokizane, Soichi. Abstract.mission and role. Abstracting for Chemical Abstracts (CA)-its past and present. Joho no Kagaku to Gijutsu (1999), 49(5), 220-231. CODEN: JKGIEP ISSN:0913-3801. CAN 131:157455 AN 1999.373770	2	The history of chem. informations provided by journals and data bases was presented from 18th century.
Chihara, Hideaki; Suzuki, Osamu; Hara, Osamu; Tokizane, Soichi. Chemical Abstracts Service in the age of information revolution. Yakugaku Toshokan (1999), 44(1), 48-57. CODEN: YATODW ISSN:0386-2062. CAN 131:87453 AN 1999:207967 CAPLUS	\$	Indexing Section 20-2 (History, Education, and Documentation) Chemistry Detectors
☐ Tokizane, Soichi Changes in database services by Internet. Yakugaku Toshokan (1997), 42(3), 284-289. CODEN: YATODW ISSN:0386-2052. CAN 127.190250 AN 1997.599143. CAPLUS	2	Information systems (history of chem. information science)
■ Tokizane, Soichi. WWW sites for pharmaceutical libraries. Yakugaku Toshokan (1997), 42(1), 48-52. CODEN: YATODW ISSN 0396-2052. CAN 126-224796 AN 1997.20021 CAPLUS	¢	Periodicals (journals; history of chem. information science)
Tokizane, Soichi. Education of chemical information for university students and	<u>+</u>	Get Related Close
Analyze or Refine References Get Related Back		
References 1-7 of 33		

4. 回答リストが表示されるので, をクリックすると詳細が表示される.

#### 問題 A-2

野依良治 (Noyori Ryoji) 先生のケトンの立体選択的水素化 (stereoselective hydrogenation) に 関する文献を一件調べなさい. (Refine を使う)

#### 解答例

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- 1. Last name に NOYORI, First name に RYOJI を入力して「OK」をクリック.
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3.687 件の回答があった. これを絞り込むため に、「Analyze or Refine References」をクリック.



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Noyori, Ryoji; Yamakawa, Masashi; Hashiguchi, Shohei. Metal-Ligand Bifunctional Catalysis: A Nonclassical Mechanism for Asymmetric Hydrogen Transfer between Alcohols and Cathonyl Compounds. Journal of Organic Chemistry (2001), 66(24), 7931-7944. CODEN: JOCEAH ISSN:0022-3263. CAN 136:102096 AN 2001:804110 CAPLUS	2 1	Metal-Ligand Bifunctional Catalysis: A Nonclassical Mechanism for Asymmetric Hydrogen Transfer between Alcohols and Carbonyl Compounds. Noyon, Ryoji, Yamakawa, Masashi, Hashiguchi, Shohel. Department of Chemistry and Research Center for Materials Science, Nagoya University, Chikusa, Nagoya, Japan. Journal of Organic Chemistry (2001), 65(24), 7931-7944. CODEN: JOCEAH ISSN 0223-2363. Journal written in English. CAN 138: 102096
Nakano, Seiji; Noyori, Ryoji; Ohkuma, Takeshi; Ishii, Dai. Process for preparing optically active secondary alcohols having nitrogenous or oxygenic functional groups. PCT Int. Appl. (2001), 163 pp. CODEN: PXXD2 W0 0158843 A1 20010816 CAN 135:180775 AN 2001:597933 CAPLUS		AN 2001:804110 CAPLUS Abstract
Kitamura, Masato; Yoshimura, Masahiro; Kanda, Naoki; Noyori, Ryoji. Preparation of optically active /shydroxysulfonic acids by asymmetric hydrogenation of /sketosulfonic acids. Jpn. Kokai Tokkyo Koho (2001), 7 pp. CODEN: JKOXAF JP 2001169769 A2 20010612 CAN 135:33364 AN 2001:421111 CAPLUS	1 1	Is substratemental complexation essential for hydrogenative saft, or unsato, compos. No, it is not always necessary. The metal-ligand bifunctional mechanism allows for direct redn, of carbonyl compds, with an 18-electron transition metal hydride without C=O/metal interaction. Asym. transfer hydrogenation of arom, carbonyl com-pounds using a 2-propanol/alk, base system in the presence of ReU(IS).SY-CHICHSHCHSHC2HG-CHIN2[hoS-aren). Y = 0, NTS) or its analoss gives the
Ohkuma, Takeshi, Takeno, Hiroshi; Honda, Yuji; Noyori, Ryoji. Asymmetric hydrogenation of ketones with polymer-bound BINAP/diamine ruthenium catalysts. Advanced Synthesis & Catalysis (2001), 34(34), 393-375 CODEN: ASCAF7 ISSN:1615-4150. CAN 135:195158 AN 2001:413058 CAPLUS	7	corresponding S chiral alcs, of high enantiomeric purity. The reaction proceeds via a coordinatively satd. 16 electron complex, RuH(IS,S) YCH(C6H5)CH(C6H5)H12+(ng-arene). The hydridic RuH and protic NH are simultaneously delivered to a C=0 linkage via a six-membered pericyclic mechanism, giving an S alc, and RuH(IS,S) YCH(C6H5)CH(C6H5)NH2]+(ng-arene). The latter S cleated and the simultaneously delivered to Querce Via C6H5)CH(C6H5)NH2]+(ng-arene). The latter S cleated Ruhaming and the simultaneously delivered to Querce Via C6H5)NH2]+(ng-arene). The latter S cleated Ruhaming and the simultaneously delivered to Querce Via C6H5)NH2]+(ng-arene). The latter S cleated Ruhaming and the simultaneously of the simultane
□ Ohkuma, Takeshi, Kitamura, Masato, Noyoi, Ryoji. Asymmetric hydrogenation. Catalytic Asymmetric Synthesis (and Edition) (2000), Meeting Date 1999, 1-110. CODEN: 89AMRM CAN 134/340127 AN 2001/356120 CAPLUS	<u>\$</u>	no-electron Ru attribution complex benydrogenates 2-propanoio to regenerate the Ru hydrode species. A electric aciditributiyamine mit.formic aciditritethylamine mixet serves as a better reducing agent. The recognition of carbonyl enaritofaces in the hydrogen transfer is made largely by the attractive CH-rice interaction between the "Ga-erene ligand and the arcm. Substituent in carbonyl substrates.
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7.98 件の回答が得られた. 一番先頭の文献の をクリックすると回答が表示される.



8. 国 または 🔟 アイコンをクリックすると ChemPort の画面が開く.

9. この電子ジャーナルを図書館または個人で購読している場合は「HTML」または「PDF」 のボタンをクリックすると全文が表示される (この場合は PDF).

#### 問題 A-3

白川英樹 (Shirakawa Hideki) 先生のポリアセチレン (polyacetylene) に関する一番古い文献 (リ ストの一番最後の文献) を調べなさい. (Analyze で東工大を選択)

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#### 解答例

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SHIRAKAWA
First name or initial:
HIDEKI
Middle name or initial:
Look for alternative spellings of the last name.
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1. Last name に SHIRAKAWA, First name に HIDEKI を入力して「OK」をクリック.

2. 候補が示される. ここでは SHIRAKAWA H も選択して「Get References」をクリック.





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3. 529 件の回答があった. これを絞り込むた めに、「Analyze or Refine References」をクリッ ク.



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Shirakawa, Hideki. Nobel lecture: the discovery of polyacetylene film-the dawning of an era of conducting polymers. Reviews of Modern Physics (2001), 73(3), 713-716, CODEN: RMPHAT ISSN 1034-6861. AN 2001-902622. CAPLUS	<u>د</u>
Shirakawa, Hideki: The discovery of polyacetylene film: The dawning of an era of conducting polymers. Phys. Nobel (2001), 217-226. CODEN. PRKAL ISSN0548-8175. CAN 136:184324 AN 2201:860025 CAPLUS	4
Innoshita, Ikuo; Kijima, Masashi; Shirakawa, Hideki. Liquid crystalline behavior of poly(in-phenylenebutadiynylene)s having a mesogenic substituent. Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (2001), 365 237-245. CODEN: MCLCE9 ISSN:1056-725X. CAN 136: 102722 AN 2001-181161 CAPLUS	3
☐ Shirakawa, Hideki. Synthesis of conducting polymers. Abstracts of Papers, 222nd ACS National Meeting, Chicago, IL, United States, August 26-30, 2001 (2001), POLY-245. CODEN: 698U2P AN 2001:642115 CAPLUS	<u>\$</u>
Shirakawa, Hideki. The discovery of polyacetylene film: the dawning of an era of conducting polymers (Nobel Lecture). Angewandte Chemie, International Edition	
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Tsukuba Univ, Japan

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7.280 件の回答が得られた. 東京工業大学 (Tokyo Institute of Technology) の文献に限定する ために, 再度「Analyze or Refine References」をクリック.

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9. ここでは「Company/Organization」で Analyze することにし, 結果はアルファベット順に表示することとする.

10. 機関名 (大学名) が表示されたので, Tokyo Inst Technol, Japan と Tokyo Inst Technology, Japan を選択し,「Get References」をクリック.

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Image: Deal         Image: Deal <thimage: deal<="" th=""> <thimage: deal<="" th=""></thimage:></thimage:>	Bibliographic Information
Ito, Takeo; Shirakawa, Hidek; Ikeda, Sakuji. Influence of cis.trans.composition on the structure of polyacetylene. Kobunshi Rohounshu (1976), 33(6), 339-45. CODEN: KBRBA3 CAN 65:76443 AN 1976-747449 CAPLUS	Infrared spectra of polyacetylene. Shinakawa, Hideki, Keda, Sakuji. Res. Lab. Resour. Util, Tokyo Inst. Technol., Tokyo, Japan. Polym. J. (1971), 2(2), 231-44. CODEN: POLJB8 Journal written in English. CAN 75.21200 AN 1971-421260 CAPLUS
Ito, Takeo; Shirakawa, Hideki; Ikeda, Sakuji: Thermal cis-trans isomerization and decomposition of polyacetylene. J. Polym. Sci., Polym. Chem. Ed. (1975), 13(8), 1943-50. CODEN: JPLCAT CAN 84:122513 AN 1976:122513 CAPLUS	Abstract
✓ Shirakawa, Hideki; Ikeda, Sakuji. Cyclotrimerization of acetylene by the tris(acetylacetonato)(tianium(III)-diethylaiuminum chloride system. J. Polym. Sci., Polym. Chem. Ed. (1974), 12(5), 929-37. CODEN: JPLCAT CAN 81:78308 AN 1974.478308 CAPLUS	The ir spectra obtained for deuterated and nondeuterated polyacitylene prepd, in the presence of (BuO)4Th-Et3AI at -100° to 180° indicates the polymers prepd, at <-78° have an all cistransoid structure and those prepd, at temps, higher than 150° have an all trans structure. Calcn, of the C-H and C-D out-of-plane deformation frequencies for various model chains and comparing the pheneed and calch Greeurencies indicate that the ciscomenion of the trule hond during notivem.
Ito, Taketo; Shirakawa, Hideki; Ikeda, Sakuji. Simultaneous polymerization and formation of polyacetylene film on the surface of a concentrated soluble Ziegler-type catalyst solution. J. Polym. Sci., Polym. Chem. Ed. (1974), 12(1), 11-20. CODEN: JPLCAT CAN 80:108933 AN 1974-108933 CAPLUS	occurs at low temps. Polymers obtained in the intermediate range, i.e78° to 150° contain both cis and trans structures.
Shirakawa, Hideki; Ito, Takeo; Ikeda, Sakuji. Raman scattering of electronic spectra of polyacetylene. Polym. J. (1973), 4(4), 460-2. CODEN: POLJB8 CAN 79:53973 AN 1973:453973 CAPLUS	Stereochemistry (of acetylene polymers, ir spectra in relation to)
☐ Shirakawa, Hideki; Ikeda, Sakuji. Infrared spectra of polyacetylene. Polym. J. (1971), 2(2), 231-44. CODEN: POLJB8 CAN 75:21260 AN 1971:421260 CAPLUS	<u>25067-58-7</u>
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11.20 件の回答が得られた. 一番最後の文献の をクリックすると回答が表示される.

### 問題 B (Research Topic) 問題 B-1

狭心症 (heart attack) における低密度コレステロール (low density cholesterol) に対する食事療法 (diet) の効果について、一番文献の多い著者の文献を一件調べなさい. (Author Name で Analyze する, anonymous は除くこと)

## 解答例

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2. トピック欄に「effect of diet on low density cholesterol for heart attack」と入力,「OK」をクリック (前置詞は何でも良いが, 概念の切れ目を示すために必要).

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29 references were found containing all of the concepts "diet", "low density cholesterol" and "heart attack" closely associated with one another.	Ginsberg, Henry N.; Tuck, Catherine. Diabetes and dyslipidemia. Heart Failure Monit. (2001), 2(1), 14-20. CODEN: HFMEAG ISSN:1470-8590. AN 2001:765948 CAPLUS
595 references were found where all of the concepts "diet", "low density cholesterol" and "heart attack" were present anywhere in the reference.	Branchi, Adriana; Fiorenza, Anna M.; Torri, Adriana; Muzio, Fulvio; Berra, Cristina; Colombo, Emanuela; Dalla Valle, Elena; Rovellini, Angelo, Sommariva, Domenico. Effects of low does of finuwstatin and attoractating on blind devices by Indextornal phalacteria.
1235 references were found containing the two concepts "diet" and "low density cholesterol" closely associated with one another.	levels in patients with hypercholesterolemia. Clinical Therapeutics (2001), 23(6), 851-857. CODEN: CLTHDG ISSN:0149-2918. CAN 135:298695 AN 2001:511774
3247 references were found where the two concepts "diet" and "low density cholesterol" were present anywhere in the reference.	CAPLUS  Imamura, Kayoko; Maruyama, Chizuko; Tsushima, Motoo; Kyotani, Shingo; Nakano,
2279 references were found containing the two concepts "diet" and "heart attack" closely associated with one another.	Satomi; Nakamori, Takako; Maruyama, Taro. The effects of TG-rich lipoprotein — metabolism by oral fat loading, used daily breakfast type oral fat-rich meal "Kisei-meal". Domyaku Koka (2001). 28(2). 205-213. CODEN: DOMKDM
10232 references were found where the two concepts "diet" and "heart attack" were present anywhere in the reference.	ISSN:0386-2682. CAN 135:136813 AN 2001:460201 CAPLUS
724 references were found containing the two concepts "low density cholesterol" and "heart attack" closely associated with one another.	Benoit. HDL-cholesterol as a marker of coronary heart disease risk: the Quebec cardiovascular study. Atherosclerosis (Shannon, Ireland) (2000), 153(2), 263-272.
2976 references were found where the two concepts "low density	CODEN: ATHSBE ISSN:0021-9150. CAN 134:191386 AN 2001:57690 CAPEUS
Get References Back	Alexandra, Sutherland, Wayne H. F. Genetic Factors associated with response of LDL subfractions to change in the nature of dietary fat. Atherosclerosis (Shannon, Irel.)
Candidates 1-8 of 11	Analyze or Refine References Get Related Back
	References 1-5 of 595

3. 検索の候補が示された. 29 文献には diet, low density cholesterol, heart attack の三つの概念 が密接に関連して記述されている. 595 件の文献には三概念がレコードのどこかに記述されている. この二つの候補を選択し,「Get References」をクリック.

4.595 件の回答が得られた. ヒットした語は青くハイライトされている. 著者の分布を調べるため, 「Analyze or Refine References」をクリック.

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✓     Anonymous     13       ✓     Gotto A M Jr     13       ✓     Schaefer E J     12       ✓     Singh R B     11       ✓     Levy R I     9       ✓     Lichtenstein A H     8	<ul> <li>Gotto A.M.Jr Triglyceride as a risk factor for coronary artery disease. AMERICAN JOURNAL OF CARDIOLOGY (1998 Nov 5), 82(9A), 220-250. Journal code: 3D0. ISSN:0002-9149. DN 99034409 PubMed ID 9919100 AN 1999034409 MEDLINE</li> <li>Downs J.R.; Clearfield M.; Weis S; Whitney E; Shapiro D.R; Beere P.A; Langendorfer A; Stein E.A; Kruyer W; Gotto A.M.Jr Primary prevention of acute coronary events with lovastatin in men and women with average cholesterol levels: results of AFCAPS/TexCAPS. Air Force/Texas Coronary Atteneosclerosis Prevention Study. JAMA (1998 May 27), 279(20), 1615-22. Journal code: KFR. ISSN:0098-7484. DN 9927901; Euclided ID AM 199973901; Euclided ID AM 199973901; MEDLINE</li> </ul>
Glueck C J 7 Grundy S M 7 Kannel W B 7	Downs J R, Beere P A; Whitney E; Clearfield M; Weis S; Rochen J; Stein E A; Shapiro D R; Langendorfer A; Gotto A M Jr Design & rationale of the Air Force/Texas Coronav Atherosclerosis Prevention Study (AFCAPS/TexCAPS) AMERICAN JOURNAL OF CARDIOLOGY (1997 Aug 1), 80(3), 287-93. Journal code: 300. ISSN 0002-9149. DN 97407571 PubMed ID 9264420 AN 97407671 MEDLINE Herd LA* Billertono OK Emerge LA Servero LA* Emerge LA* Emerge LA* Emerge LA* Emerge LA* Emerge LA*
Katan M B 7 Ordovas J M 7 Get References Back	L Gotto A Unianty feed of Landard A regission 30d, bitles F H, West MG, Gotto A 20 L Gotto A MJ Effects of fluvastation on coronary attensecterosis in patients with mild to moderate cholesterol elevations (Lipoprotein and Coronary Attensacterosis Study [LCAS]. AMERICAN JOURNAL OF CARDIOLOGY (1997 Aug 1), 80(3), 278-86. Journal code: 300, ISSN:0002-9149. DN 97407670 PubMed ID 9264419 AN 97407670 MEDLINE
Histogram Entries 1-12 of 1987	Analyze or Refine References Get Related Back

7. Anonymous (無記名) を除くと、一番文献が多い著者は Gott A. M. Jr. なので、これを選択し、「Get References」をクリック.

Detail of Reference 1			
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Bibliographic Informati	on		
Triglyceride as a risk fa Medical College, New Yor Nov 5), 82(9A), 22Q-25G Article; (JOURNAL ARTIC English. DN 99034409 f	ctor for coronary artery k, New York, USA AM I. Ref. 26. Journal code: LE); General Review; (RE PubMed ID 9819100 AN 1	disease. Gotto A M Jr IERICAN JOURNAL OF C 3DQ. ISSN:0002-9149. U VIEW); (REVIEW, TUTOF 999034409 MEDLINE	Cornell University ARDIOLOGY (1998 Juited States Journal; RIAL) written in
Abstract			
The data for an independe artery disease (CAD) are high-density lipoprotein (C correlations with CAD risk certain subgroups, for exe patients with noninsulin-d synergistic CAD risk fact HDL cholesterol, and high therapy in the Helsinki He and CAD risk is the heter particles are believed to b	nt association between tr equivocal, unlike the data DIU) cholestered, which sh . There is some evidence mple, women 50-69 years pendent diabetes. Howe w. For example, patients . trigtyveride accounted fo ad Study. An important c ogeneity of trigtyceride-nic be associated with CAL e atherogenic. At present	glyceride concentrations for low-density lipoprotein ow strong, consistent, an for triglyceride as an inde of age (Framingham Hee r, the evidence is strong with the "lipid triad" of hig "most of the event reduction onfounder of the correlatio onfounder of the correlatio onfounder of the smalle measurement of fasting t	and risk for coronary (LDL) cholesterol and d opposing pendent risk factor in rt Study) and in er for triglycende as a h LDL cholesterol, low on with ligh-dowering n between triglycende riglycende-rich r (and denser) riglyceride levels and
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8.13 件の回答があった. 一番先頭の文献の をクリックすると回答が表示される. ヒットした語は青くハイライトされている.

#### 問題 B-2

ごみ (waste) の焼却 (incineration) とダイオキシン (dioxin) の関係に関する総説 (General Review) を一件調べなさい. (Analyze を使う)

#### 解答例



2. トピック欄に「dioxin from incineration of waste」と入力,「OK」をクリック.

3. 検索の候補が示された. 7 文献には dioxin from incineration of waste という語句がそのとおり 記述されている. 1811 文献には dioxin, incineration, waste の三つの概念が密接に関連して記述 されている. 3390 件の文献には三概念がレコードのどこかに記述されている. 先頭の二つの候補 を選択し,「Get References」をクリック.

🔷 SciFinder Scholar	- 🗆 🗡
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Saito, Hiroshi; Kanno, Kiyohiro; Kumakura, Yukio. Heating method of processing and its device of medical waste. [Machine Translation]. Jpn. Kokai Tokkyo Koho (2002), 15 pp. CODEN: JKWAF JP 2002102819 A2 20020409 AN 2002:260206 CAPLUS	
McKay, Gordon. Dioxin characterisation, formation and minimisation during municipal solid waste (MSW) incineration: review. Chemical Engineering Journal (Amsterdam, Netherlands) (2002), 86(3), 343-368. CODEN: CMEJAJ ISSN:1385-8947. AN 2002;249633 CAPLUS	4 2
Yamaguchi, Akira. Present situation and problems of refractories for waste melting furnace. Halikubusu Gakkashi (2002), 13(1), 47-53. CODEN: HAGAEB ISSN 0917-0655. AN 2002:224277 CAPLUS	2
G Miyakoshi, Yasuhiro, Nagaseki, Michio. Method and device for reducing dioxin in garbage inclinerator ashes. Jpn. Kokai Tokkyo Koho (2002), 6 pp. CODEN: JKOKAF JP. 2002061631 A2 20020322 CAN 136:251912 AN 2002.219951 CAPLUS	<u>소</u>
Hoshino, Kazufumi; Koike, Soichiro; Sato, Hiroaki. Method for remodeling and dismantling of facility polluted by dioxin with water jet. Jpn. Kokai Tokkyo Koho (2002), 4 pp. CODEN: JKXXAF JP 2002081619 A2 20020322 CAN 136:251908 AN 2002:216286 CAPLUS	4 8
☐ Yoneda, Kenichi, Ikeguchi, Takasi, Yagi, Yoshio, Tamade, Yoshinori, Omori, Kosaku. A research on dioxin generation from the industrial waste incineration.	<u>£</u>
Analyze or Refine References Get Related Back	
References 1-6 of 1811	

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4.595 件の回答が得られた. ヒットした語は青くハイライトされている. 総説に絞るため, 「Analyze or Refine References」をクリック.

5. Analyze と Refine の選択画面で

**し** をクリック.

6. ここでは Document Type で Analyze し, 結果は alphabet 順に表示することとする.



7. General Review を選択し、「Get References」をクリック. 217 件の回答が得られた.

🗢 Detail of Reference 3	
<u>File</u> <u>E</u> dit <u>H</u> elp	
Bibliographic Information	<b></b>
The treatment technologies for dioxins in fly ash from municipal solid waste incineration plants. Nishitani, Takashi. Osaka City Inst. Public Health Environmental Sci., 8-34, Tojo-ch Temorj-ku, Osaka, Japan. Seikatsu Eisei (2001), 45(3), 121-130. CODEN: SEEIAY ISSN: 0682-4176. Journal; General Review written in Japanese. CAN 136-204611 AN 2001:828221 CAPLUS	0,
Abstract	
A review with refs.	
Indexing Section 60-0 (Waste Treatment and Disposal) Section cross-reference(s): 59	
Ashes (residues) (incinerator fly; technologies for treatment of dioxins in fly ash from municipal solid waste incineration plants)	
Incinerators	Ŧ
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8. をクリックし,回答のひとつを表示した.

### 問題 B-3

狂牛病 (mad cow disease) とプリオン (prion) の構造 (structure) についての日本語の文献を一 件調べなさい. (Analyze を使う)

#### 解答例

Explore by Research Topic		Topic Candidates
Describe your topic using a phrase.		<u>E</u> ile <u>E</u> dit <u>T</u> ask T <u>o</u> ols <u>H</u> elp
I am interested in:		Select the candidates of interest:
structure of prion of mad cow disease		✓ 46 references were found containing all of the concepts "structure", "prion" and "mad cow disease" closely associated with one another.
Examples: The effect of antibiotic residues on dairy products		✓ 274 references were found where all of the concepts "structure", "prion" and "mad cow disease" were present anywhere in the reference.
Photocyanation of aromatic compounds Hydrocarbon-water emulsions as fuels		778 references were found containing the two concepts "structure" and "prion" closely associated with one another.
OK		1540 references were found where the two concepts "structure" and "prion" were present anywhere in the reference.
		108 references were found containing the two concepts "structure" and "mad cow disease" closely associated with one another.
	- <u>-</u>	366 references were found where the two concepts "structure" and "mad cow disease" were present anywhere in the reference.
1 SaiFindar Scholar Oby 74-1-		1118 references were found containing the two concepts "prion" and "mad cow disease" closely associated with one another.
	<	□ 1887 references were found where the two concepts "prion" and "mad cow
をクリック.		Get References Back
		Candidates 1-8 of 11

2. トピック欄に「structure of prion of mad cow disease」と入力,「OK」をクリック.

3. 検索の候補が示された. 46 文献には structure, prion, mad cow disease の三つの概念が密接 に関連して記述されている. 274 件の文献には三概念がレコードのどこかに記述されている. この 二つの候補を選択し,「Get References」をクリック.

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Mahfoud, Radhia, Garmy, Nicolas; Maresca, Marc; Yahi, Nouara; Puigserver, Antoi Fantini, Jacques. Identification of a common sphingolipid-binding domain in alzheimer, prion, and HIV-1 proteins. Journal of Biological Chemistry (2002), 2777(13), 11292-11296. CODEN: JBCHA3 ISSN 0021-9258. AN 2002.266317	ne;
Somerville, Robert A.; Oberthur, Radulf C.; Havekost, Ulinch, MacDonald, Fions; Ta David M.; Dickinson, Alan G. Characterization of thermodynamic diversity beir transmissible spongiforum encephalopathy agent strains and its theoretical implications. Journal of Biological Chemistry (2002), 277(13), 11084-11089. O UBCHA3 ISSN0021-9256. AN 2002. 266292 CAPLUS	ylor, ween CODEN:
Haik, S.; Privat, N.; Adjou, K. T.; Sazdovitch, V.; Dormont, D.; Duyckaerts, C.; Hat Alpha-synuclein-immunoreactive deposits in human and animal prion disea Acta Neuropathologica (2002), 103(6), 516-520. CODEN: ANPTAL ISSN:0001-6 AN 2002:251545 CAPLUS	w, J. J. ses. 322. 星
Liberski, Pawel P.; Bratosiewicz, Jolanta; Walis, Anna; Kordek, Radzislaw, Jeffrey Brown, Paul. Aspecial report. Prion protein (Prp) - amyloid plaques in the transmissible spongiform encephalopathies (TSE9) or prion disease revisite Polish Journal of Pathology (2001), 52(4), 189-186. CODEN: PJUPE5 ISSN:123 AN 2002-214501 CAPLUS	, Martin; <b>b</b> 1. 3-9687.
Gurel, Demet; Gurel, Okan. Neuropathology by amyloid fibril formation. Ab- of Papers, 223rd ACS National Meeting, Orlando, FL, United States, April 7-11, 200	stracts
Analyze or Refine References Get Related Bac	<
References 1-5 of 274	

C Author Name	C Index Term
C CAS Registry Number	C Journal Name
CA Section Title	• Language
C Company/Organization	C Publication Year
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C Sort results by frequence	y

4.274 件の回答が得られた. ヒットした語は青くハイライトされている. 日本語文献に絞るため, 「Analyze or Refine References」をクリック.



6. ここでは Language で Analyze し, 結果は alphabet 順に表示することとする.

Canguage Analysis	
Select Histogram Entries of interest:	
Chinese     2       Dutch     1       English     236       French     11       German     4       Italian     1       ✓ Japanese     11	<ul> <li>Nishida, Noriyuki, Miyamoto, Tsutomu. Prion diseases. Nippon Naika Gakkai Zasshi (1997), 86(7), 1262-1268. CODEN: NIGAAS ISSN:0021-5384. CAN 127:159772 AN 1997.517907 CAPLUS</li> <li>Dohura, Katsumi. Prion protein amyloid. Dementia Jpn. (1997), 11(1), 83-92. CODEN: DEJAFB ISSN:1342-646X. CAN 126:315592 AN 1997.264717 CAPLUS</li> <li>Ueda, Kenji. NAC amyloid and NACP in Atchemer's disease. Dementia Jpn. (1997), 11(1), 61-75. CODEN: DEJAFB ISSN:1342-646X. CAN 126:315590 AN 1997.264715</li> <li>Shinagawa, Morikazu; Horiuchi, Motohiro. Metabolism and distribution of prion protein under different (1969). (1969). (1969). (2012) 626. CODEN: URL SCONDEN: ELSENDO208. EE14</li> </ul>
□     Norwegian     2       □     Portuguese     1       □     Russian     3       □     Slovak     1	Protein: Jinkeningaku (1990), 14(10), 2020-2030. CODENt JIGEF ISJN02200-3014. CAN US234653 AM 1996/656832 CAPLUS Ohno, Susumu. Can a protein control the fate of its own coding sequence ? Jikken Igaku (1993), 11(14), 1864-64. CODENt JIGEF ISSN02288-6514. CAN 120:71616 CAPLUS Klamoto, Tetsuyaki. Creutzfold1.Jakob disease. Primary structure of prion protein and pathologic aspects of prion disease. Saishin Igaku (1992), 47(4), 633-7.
Get References Back Histogram Entries 1-12 of 12	CODENC SALAGAK ISSNB0706241. CMN15129 AN 1992/405129 CAPLOS     Dohung K Kitamoto T Prion diseases and a new voriant of Creutifeldt-Jakob     disease. RINSHO SHINKEIGAKU CLINICAL NEUROLOGY (1995 Dec), 38(12),     1270 - Double Control Contro

7. Japanese を選択し、「Get References」をクリック.

8.11 件の回答が得られた. をクリックすると回答が表示される. ヒットした語は青く ハイライトされている.

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Prion protein amyloid. Dohura, Katsumi. Fac. Med., Kyushu Univ., Fukuoka, Japan. Dementia Jpn. (1997), 11(1), 83-92. CODEN: DEJAFB ISSN: 1342-646X. Journal, General Review written in Japanese. CAN 126:315592 AN 1997:264717 CAPLUS						
Abstract						
A review with 32 refs. Structure change from $\alpha$ helix to $\beta$ sheet change in generation of pathogenic prion in prion diseases such Prion protein conversion model is schematically depicted with p Structural transformation occurs in vitro without assocg, pathog mutation type prion cause different disease features.	is essential in t as Creutzfeldt- articipation of a enicity. Deposi	the structural Jakob disease chaperon. tion types of				
Indexing Section 14-0 (Mammalian Pathological Biochemist	try)		-			
Creutzfeldt-Jakob disease (prion and amyloid proteins in various human neuropathies)						
Prion proteins & Amulaid			<u>-</u>			
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#### 問題 B-4

導電性ポリマー (electroconducting polymer)の液晶ディスプレイ (liquid crystal display) への応用に関する日本特許を一件調べなさい. (Analyze を使う)

### 解答例

Explore by Research Topic			
Describe your topic using a phrase.		Clope Candidates Lep Eile Edit Iask Tgols Help Select the candidates of interest:	<u>1</u> ×1
electroconducting polymer for liquid crystal display Examples: The effect of antibiotic residues on dairy products Photocyanation of aromatic compounds Hydrocarbon-water emulsions as fuels		17 references were found containing the two concepts "electroconducting polymer" and "liquid crystal display" closely associated with one another. 25 references were found where the two concepts "electroconducting polymer" and "liquid crystal display" were present anywhere in the reference. 1467 references were found containing the concept "electroconducting polymer". 36429 references were found containing the concept "liquid crystal display".	4
1. SciFinder Scholar のトップメニューて クリック.	s to the second	Get References Back	M

2. トピック欄に「electroconducting polymer for liquid crystal display」と入力,「OK」をクリック.

3. 検索の候補が示された. 13 文献には electroconducting polymer, liquid crystal display の二つ の概念が密接に関連して記述されている. 25 件の文献には二概念がレコードのどこかに記述され ている. この二つの候補を選択し,「Get References」をクリック.

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Ito, Hiroshi; Kawada, Masakazu. Anisotropic electroconductive allesives with good curability. Jocket Tokkyo Koho (2001), 10 pp. CODEN: JACKAF JP 2001181585 A2 20010/30 CAN 13577361 AN 2001.479872 CAPLUS	
Totsubai, Seiji; Yahata, Kazue, Hara, Hiroshi. Transparent electroconductive laminated films with reduced deformation. Jpn. Kokai Tokiyo Koho (2001), 9 pp. CODEN: JJCOAF JP. 2001030409 A2 2001020E CAN 134.132752 AN 2001-91201 CAPLUS	<u>소</u> 물
F Knoll, Peter, Klausmann, Hageri, Ginter, Ewald-Theodor, Glueck, Joachim, Hoffmann, Erhard; Hueppauff, Martin; Druschke, Frank. Layer containing an electroconductive transparent material, its production, and use thereof. PCT Int. Appl. (2001), 17 pp. CODEN: PRXD2 WO 0106306 A2 20010125 CAN 134:123940 AN 2001.64276 CAPLUS	
Minamino, Hiroko; Nagai, Yasuhiko. Electroconductive polymer particles and their core granules, their manufacture, and spacers for liquid crystal displays. Jpn. Kokai Tokkyo Koho (2000), 8 pp. CODEN: JKOXAF JP 2000319309 A2 20001121 CAN 133:367383 AN 20001817518 CAPLUS	2 
Kimura, Okitoshi. Color filter for liquid crystal display components. Jpn. Kokai Tokkyo Koho (2000), 7 pp. CODEN: JKXXAF JP 2000304914 A2 20001102 CAN 133:322846 AN 2000:767968 CAPLUS	4 
📕 Abe, Yutaka; Ikeda, Masahiko; Sato, Morio. Liquid crystal display device having	1
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References 1-6 of 25	

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4.25 件の回答が得られた. ヒットした語は青くハイライトされている. 日本特許に絞るため, 「Analyze or Refine References」をクリック.



6. ここでは Journal Name で Analyze し, 結果は alphabet 順に表示することとする.



7. Jpn. Kokai Tokkyo Koho を選択し、「Get References」をクリック.

8.16 件の回答が得られた. をクリックすると回答が表示される. ヒットした語は青く ハイライトされている.

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Anisotropic electroconductive adhesives with good curability. Ito, Hiroshi, Kawada, Masakazu. (Sumitomo Bakelite Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho (2001). 10 pp. CODEN JJKOAF JP. 2001H1595 A2 2001/0703 Patent written in Japanese. Application: JP 99-371253 19991227. CAN 135.77961 AN 2001:479872 CAPLUS Patent Family Information	ChemPort- CONNECTION Full-text Options
Patent No. Kind Date Application No.	Patent or Application Number : JP2001181595
J99 2001181595 A2 20010703 JP 1999-371253 19991227	Title : Anisotropic electroconductive adhesives with good curability [ <u>Email</u> <u>Citation</u> ]
Abstract	No Additional Fees Additional Fee
The adhesives useful for connection of tape carrier packages (TCP) with liq. crystal displays (LCD) or printed circuit boards (PC) comprise (A) radically polymerizable resins, ong. peroxides, thermoplastic elastomers, and (PO)PO(PH)m (I; R = H2C:CR1CO(OR2)m, R1 = H, Me; R2 = C2H4, C3H6, CH2CHM0, etc.; , m = 1, 2, n = 1-10], wherein the thermoplastic elastomers contain bisphenol A phenoxy resin (d, p. 210) and H(OR3O)xH (R3 = C2H4, C3H6, CH2CHMe, etc.; x 21). Thus, an adhesive contain, novolak 3-acryloyloxy2-hydroxypropyl ether, bisphenol A phenoxy resin, polyethylene gyloc1, (R1 = Me, R2 = C2H4OCCSH10), M/ku-plated polysyteme particles, org. peroxides, and dherison.	View + patent des View +
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9. Pイコンをクリックすると ChemPort の画面が開く.

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Publication date:         2001-07-03           Inventor(s):         ITO HIROSHI; KAWADA MASAKAZU           Applicant(s):         SUMITOMO BARELITE CO LTD           Requested Patent:         Improvide patentiation (page 4)           Propriorition         Number:           Number:         JP19990371253 19991227	(19)日本国時許行(JP) (12) な開特許な報(A) (1)特許的概念所書号 特別2000-181595 (1900年 思想になる1965人) (1900年 思想になる1965人)
Priority Number(s): IPC Classification: C09.1171/10; C09.04/06; C09.09/02; C09.0171/02; C09.0201/02; H01B1/22; H01B1/24 E C Classification: Equivalents: 記 ページ形奈式和見た (学 イングーネット	(51)InL(C1)*         単数時に均         FI         ディコン・(参称)           (52)InL(C1)*         単数時に均         C0 9 J 771/10         4 J 0 4 0           (J06         4/06         6 S 0 3 1           9/02         9/02         1/02           171/02         171/10         20 J 0           9/02         9/02         1/02           171/02         171/10         20 J/02           171/02         171/10         4 J 0 4 0           171/02         171/10         10 D           171/02         171/10         4 J 0 4 0           171/02         171/10         10 D           171/04         10 D         10 D           171/04         10 D         10 D
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- 11. 特許番号がハイライトされているので, これをクリック.
- 12. 特許の PDF が表示される.

### 問題 C (Chemical Substance or Reaction – Substance Identifier) 問題 C-1

Antimony fluoride の用途 (Uses) に関する文献を一件調べなさい (分子式で調べるのがよい, 名前で調べるときは Antimony pentafluoride を使う必要がある).

## 解答例



▶ をクリックすると詳細が表示される.

Substances 1-4 of 4

🗇 Detail of Substance	• 4 • • • • • • • • • • • • • • • • • •	Get References	×
<u>File Edit H</u> elp		Retrieve references for:	
Pagistry Number	7783.70.0	C All substances C Selected substances	
Co Indeu Name	Antimony fluorido (ChEE) (CCL RCL RCL	For each substance, retrieve:	
CA muex Mame.	Antimony indunde (Soris) (doi, doi, doi, doi)	C All references C Only the following types:	
Other Names:	Antimony pentafluoride; Antimony(V) fluoride; Pentafluoroantimony	C Adverse Effect, including Toxicity C Occurrence	
Formula:	F5 Sb	Analytical Study	
STN Files:	CAPLUS, AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAOLD, CASREACT,	E Biological Study Properties	
	DETHERM, GMELIN, HSDB, IFICDB, IFIPAT, IFIUDB, MRCK, MSDS-OHS,	Combinatorial Study Process	
	NIOSHTIC, PDLCOM, PROMT, RTECS, TOXCENTER, USPATFULL	Crystal Structure Reactant or Reagent	
	(Additional Information is available through STN International. Contact your information specialist, a local CAS representative, or the CAS Help Desk	Formation, nonpreparative Spectral Properties	
	for Assistance)	🗖 Miscellaneous 🔽 Uses	
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	Close	Henrich Back Formed Print Severas For Full Text	
		🔽 Matsuoka, Masahiro; Yamashita, Seiji; Katsukawa, Yoshitaka. Manufacture of aliphatic 🛓	
		11 pp. CODEN: JKXXAF JP 2001342156 A2 20011211 CAN 136:21230 AN	
5 夕前か	にたっかとう物で問意いがないので	2001:891576 CAPLUS	
J. 石山ル		Chemistry (2001), 112(1), 117-121. CODEN: JFLCAR ISSN:0022-1139. CAN	
一旦   Clos	se」をクリックして閉じる.	Walker, Frederick Herbert, Acid-catalyzed polymerization of aqueous epoxy resin	
		emulsions and uses thereof. Eur. Pat. Appl. (2001), 13 pp. CODEN: EPXXDW EP	
6 Get R	eferences」をカリック	Mendelovici, Marioara; Pilarsky, Gideon; Nidam, Tamar. Processes for preparing	
0. Ger R		6-hydroxy-3,4-dihydroquinolinone and N-(4-methoxyphenyl)-3-chloropropionamide.	
		135:257168 AN 2001:713317 CAPLUS	
7. 選択画	面になるので、「Selected substances」、	production by elimination of an alcohol from a substituted malondialdehyde	
Only the	following types (をクリック) [Uses]	acetal. Ger. Utten. (2001), 14 pp. CODEN: GWXXBX DE 10061214 A1 20010809 🚊	-
テン記れた	$\tau = \begin{bmatrix} OV_1 + b \end{bmatrix} + b$	Mitalyze or Refine References Get Related Back	
を選択す	5. 「UK」 をクリック.	References 1-5 of 609	

8.609 件の文献が得られた. 2 をクリックすると文献の詳細が表示される.

Detail of Reference 1		_		🗇 Detail of Reference 1
<u>F</u> ile <u>E</u> dit <u>H</u> elp				<u>File Edit H</u> elp
			显	国
Bibliographic Information           Manufacture of aliphatic alcohol alkyle           Masshiro; Yamashita, Seiji; Katsukawa, Y           Jpn. Kokai Tokkyo Koho (2001). 11 pp.           Patent written in Japanese. Application           20000327; JP. 2000-86574. 20000327. C/           Patent Family Information           Patent No.         Kind           Date         China	ene oxide adducts a oshitaka. (Sanyo Ch CODEN: JAXXAF J JP 2001-15056 200 NN 136:21230 AN 2 Date	s surfactants. Matsuoka, emical Industries, Ltd., Japan). P 2001342166 A2 2001121 10123. Priority: JP 2000-86570 301.891576 CAPLUS Application No.		Surfactants (nonionic; manuf. of aliph. alc. alkylene oxide adducts as surfactants) 7783-70-2, Antimony pentafluoride
JP 2001342156 A2 20010123 Priority Application Information JP 2000-85570 JP 2000-85574	20011211 20000327 20000327	JP 2001-15056		10004243134, Magnesium perchiorate 14025342, Aluminum perchiorate Role: CAT (Catalyst use); PRP (Properties), USES (Uses) (catalyst; manuf. of aliph. alc. alkylene oxide adducts as surfactants) 9002292.0P, Polyethylene glycol monolauryl ether Role: IMF (Industrial manufacture), PRP (Properties); PREP (Preparation) (manuf. of alinh. alic. alkylene oxide adducts as surfactants)
Abstract The adducts are manufd. in the presence of and/or their metal salts. Thus, lauryl alc. AI(ClO4) at 95° under 1-2 kg/cm26 for 15 150° under 1-3 kg/cm26 for 6 h to give an 0.02%, and Weibull distribution const. (de Get Related	of acids showing Ham was ethoxylated with i h and further ethoxyl adduct showing Mw/h finition given) 0.84.	mett acidity (H0) -30.0 to -11.0 ethylene oxide in the presence of ated in the presence of KOH at In 1.020, unreacted alc. content Close	-	113609-82-8P, Ethylene oxide-propylene oxide block copolymer monolauryl ether         Role: IMF (Industrial manufacture), PRP (Properies); PRP (Preparation)         (triblock; manuf. of aliph. alc. alkylene oxide adducts as surfactants)         Supplementary Terms         aliph alc alkylene oxide adduct surfactant manuf, ethoxylated lauryl alc manuf acid catalyst
				Get Related Close

9. 文献レコードの下の方を見ていくと、Antimony pentafluorideの索引項目が表示されており、 alkylene oxide 製造の catalyst として使用されていることがわかる.

## 問題 C-2

ロレンツォの油 (Lorenzo's oil) の合成 (Preparation) に関する文献を一件調べなさい.

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解答例	Explore by Substance Identifier
Explore by Chemical Substance      Select One:      Chemical Structure     Identify substances or reactions using a chemical structure.      Substance Identifier     Identify substances using names or identification numbers.      HzQL     Molecular Formula     Identify substances using a molecular formula.      Cancel	Enter Substance Identifiers, and LORENZO'S OIL A Substance Identifier is any nam specific substance. Examples: 50-00-0 999815 Acetaminophen 1.4-dichlorobenzene
1. SciFinder Scholar のトップメニューで をクリック.	OK

- 2. Explore by Chemical Substance のメニューで 534-23 trimet 2534- をクリック.
- 3. 名称の欄に「LORENZO'S OIL」と入力して「OK」をクリック.

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	Registry Number:	2752-99-0
2752-99-0	CA Index Name:	13-Docosenoic acid, 1,2,3-propanetriyl ester, (13Z,13'Z,13'Z)- (9Cl)
	Other Names:	13-Docosenoic acid, 1,2,3-propanetriyl ester, (Z,Z,2)-, 13-Docosenoin, tri-, (Z,Z,Z)- (8CI); Erucin, tri- (8CI); (2)-13-Docosenoic acid triglyceride; Erucic acid triglycerid; Bycerol trierucate; Glyceryl trierucate; Lorenzo oil; Lorenzo's oil; Tri(Z-13-docosenoyl)glycerol; Trierucin
Commercial Sources	Formula:	C69 H128 O6
Regulated Chemicals	STN Files:	CAPLUS, AGRICOLA, ANABSTR, BEILSTEIN, BIOBUSINESS, BIOSIS, CA, CAOLD, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, MEDLINE, PROMT, TOXCENTER, USPATFULL
-64 References     REGISTRY     Get References     Analyze or Refine Substances     Back		(Additional Information is available through STN International. Contact your information specialist, a local CAS representative, or the CAS Help Desk for Assistance)
Substance 1 of 1		Double hand geometry as shown
4. 一件の化合物が表示された.	15.	He $(CH_2)7$ $Z$ $(CH_2)11$ $0$ $0$ $(CH_2)11$ $Z$ $(CH_2)11$ $Z$ $(CH_2)11$ $Z$ $0$ $0$ $(CH_2)11$ $Z$ $(CH_2)11$ $Z$ PAGE 1-B
5. 名前からもこの化合物で間違いがないので, 一旦「Close」をクリックして閉じる.		

6. 「Get References」をクリック.



7. 選択画面になるので、「All substances」、「Only the following types」をクリックし、「Preparations」 を選択する.「OK」をクリック.

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8. 四件の文献が得られた. 2 をクリックすると文献の詳細が表示される.

⑦ Detail of Reference 3           Eile         Edit         Help
Bibliographic Information Synthesis and properties of erucic acid triacylglycerols. Grewal, Virinder S.; Ramamurthi, Suresh, McCurdy, Alan R. Dep. Appl. Microbiol. Food Sci., Univ. Saskatchewan, Saskatoon, SK, Can. J. Am. Oil Chem. Soc. (1993), 70(10), 955-9. CODEN: JAOCA7 ISSN: 0003-021X. Journal written in English. CAN 120:7185 AN 1994:7185 CAPLUS
Abstract The chem. synthesis of high-erucic acid triacylglycerols by a direct esterification approach was investigated. A2-stage process was adopted in which reactants (without any catalyst) were heated at 160° for 4 h, followed by heating at 250° for 8 h. Purinf, of the esterified product was achieved by alkair refining, followed by alumina column chromatog. A >85% yield of pure triacylglycerols was obtained, which contained, appr.90% erucic acid, by using a 5% molar excess of erucic acid in the reaction. Oils contg. 45-91% erucic acid were prepd. by chem. interesterifying native high-erucic acid rapeseed (HEAR) oil and the synthetic high-erucic acid triacylglycerols. The mp., cloud point, pour point, titer, and viscosity of al oils exhibited pos. correlations with the erucic acid content, whereas sapon. value, iodine value, and refractive index showed neg, correlations. Randomization of native HEAR oil resulted in an increase in the m.p., cloud point, and pour point.
Get Related Close

### 問題 C-3

Indomethacin の毒性 (Toxicity) に関する文献を一件調べなさい.

#### 解答例



2. Explore by Chemical Substance のメニューで trimet 2534 をクリック.

3. 名称の欄に「INDOMETHACIN」と入力して「OK」をクリック (綴りに不安があるときは、複数の 綴りを入力するとよい).

534-23

4. 一件の化合物が表示された. 2 をクリックすると詳細が表示される.

Detail of Substance <u>File</u> <u>E</u> dit <u>H</u> elp		1	Contrail of Substance 1     Eile Edit Help	×
		_		
Registry Number:	53-86-1	1	C1	
CA Index Name:	1H-Indole-3-acetic acid, 1-(4-chlorobenzoyl)-5-methoxy-2-methyl- (9Cl)			
Other Names:	Indule-3-acetic acid, 1-(p-chlorobenzoyl)-5-methxy-2-methyl- (BC); or [1-(p-Chlorobenzoyl)-2-methyl-5-methxy-3-indolyl[acetic acid; 1-(4-Chlorobenzoyl)-2-methyl-5-methxy-3-indolyl[acetic acid; 1-(p-Chlorobenzoyl)-2-methyl-5-methxy-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-2-methyl-5-methxy-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methyl-3-methyl-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methyl-3-methyl-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methyl-3-methyl-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methyl-3-methyl-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methyl-3-methyl-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methxy-3-methyl-3-ndlyl[acetic acid; 1-(p-Chlorobenzoyl)-5-methxy-3-methyl-3-ndlyl[acetic] 1-(p-Chlorobenzoyl)-5-methxy-3-methyl-3-ndlyl[acetic] 1-(p-Chlorobenzoyl)-5-methxy-3-methyl-3-ndlyl[acetic] 1-(p-Chlorobenzoyl)-5-methxy-3-methyl-3-ndlyl[acetic] 1-(p-Chlorobenzoyl)-5-methxy-3-methyl-5-methxy-3-indolyl[acetic acid; Reumacide; Sadoreum		PROPERTY         VALUE         CONDITION         NOTE           H donors         1         ACD (1)           H acceptors         5         ACD (1)           Molecular Weight         357.79         ACD (1)           JogP         3.105+40.372         ACD (1)           JogP         3.105         PH 1	
Formula:	C19 H16 CI N O4		togD         2.88         pH 4         ACD (1)           togD         0.30         pH 7         ACD (1)	
STN Files:	CAPLUS, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGPAT, DRUGU, EMBASE, HSDB, IFICDB, IFIAT, IFIUDB, IFIA, MEDLINE, MRCK, MSDS-015, NIOSHTIC, PHAR, PHARMASEARCH, PROMT, RTECS, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU (Additional Information is available through STN International Contact your Close	-	logD     -0.53     pH 8     ACD (1)       logD     -0.99     pH 10     ACD (1)       pKa     4.17+/0.20     Mest Acidic     ACD (1)       Molar Solubility     Sparingly Soluble     pH 1     ACD (1)       Molar Solubility     Sparingly Soluble     pH 4     ACD (1)       Molar Solubility     Slightly Soluble     pH 7     ACD (1)       Molar Solubility     Slightly Soluble     pH 7     ACD (1)       Molar Solubility     Slightly Soluble     pH 8     ACD (1)       Molar Solubility     Soluble     pH 10     ACD (1)	

5. 回答の下の方には計算された物性データが記載されている. 名前からもこの化合物で間違い がないので, 一旦「Close」をクリックして閉じる.

6. 「Get References」をクリック.



International Control Contr ₫ 显 Far, Spencer B, Pickett, Gavin G, Neft, Robin Eileen, Dunn, Robert Thomas, II. Microarray profiling of gene expression in dogs in response to drugs and toxic chemicals. PCT Int Appl. (2002), 140 pp. CODEN: PIXXO2 WO 0208453 A2 20020131 CAN 136:146435 AN 2002:90257 CAPLUS ₫ 里 2002/031 CAN 136 IABAS AN 2002-3027 CALODS Sponsel, William E.; Paris, Gianmarco; Trigo, Volanda; Pena, Melanie; Weber, Anke; Sanford, Keith; Mckinnon, Stuart. Latanoprost and brimonidine: therapeutic and physiologic assessment before and after oral nonsteroidal anti-inflammatory therapy1. American Journal of Ophthalmology (2002), 133(1), 11-18. CODEN: AJOPAA ISSN:0002-9394. CAN 136:242088 AN 2002:2511 CAPLUS 4 里 Get Related... Back

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7. 選択画面になるので、「All substances」、「Only the following types」をクリックし、「Adverse Effect, including Toxicity」を選択する.「OK」をクリック.

8.3691 件の文献が得られた. 2 をクリックすると文献の詳細が表示される.

Tetail of Reference 4	
<u>E</u> ile <u>E</u> dit <u>H</u> elp	
Bibliographic Information	
Latanoprost and brimonidine: therapeutic and physiologic oral nonsteroidal anti-inflammatory therapy1. Sponsel, ' Yolanda, Pena, Melanie; Weber, Anke, Sanford, Keith, Mckinn Health Science Center in San Antonio, San Antonio, TX, USA Ophthalmology (2002), 133(1), 11-18. CODEN: AJOPAA IS3 English. CAN 136-242088 AN 2002-22611 CAPLUS	c assessment before and after William E.; Paris, Gianmarco; Trigo, on, Stuart. University of Texas A. American Journal of SN: 0002-9394. Journal written in
Abstract	
Studies were carried out to assess, before and during oral nons coadministration, latanoprost's and brimonidine's hypotensive a glaucomatous progression, assessing the effect of each drug or function. Twenty consenting adults with open-angle glaucoma i double-masked, bilateral, randomized prospective study. Treat 0.005% in the moming and placebo in the evening, or brimonidi 1 wk starting the other in the fellow eye. After another week, or day, commenced for 2 more weeks. Intraocular pressure, ocula were monitored pretreatment, after unitateral monotherapy (day and coadministered oral indomethacin (day 20). Intrasubject di rolative to baseline) were det du by two-tailed paired t 1est. A los pressure redn. with brimonidine was noted after oral indomethacin	steroidal anti-inflammatory drug ction in eyes at risk of n ocular perfusion and visual or ocular hypertension underwent a ment started with either latanoprost ne 0.2% twice daily in one eye; after ral indomethacin 25 mg four times a ar circulation, and visual function 7), biateral ocular therapy (day 14), fiferences (interocular and intraocular s of the significance of intraocular cin coadministration (-14%; for
Get Related	Close

#### 問題 C-4

Ozone の分析 (Analytical Study) に関する文献を一件調べなさい.

#### 解答例

- Furglaus hu Substanse Identifier	Eile Edit View Iask Tools Help
Explore by Substance Identifier     Enter Substance Identifiers, one per line. Read from file      OZONE     A Substance Identifier is any name or number used to denote a specific substance. Examples:     SOU0-0     999315     Acetaminophen     1,4-dichlorobenzene     OK     Cancel	Image: Sector
	Substance 1 of 1
1. SciFinder Scholar のトップメニューで	, をクリック. 534-23 trimet
2. Explore by Chemical Substance $\mathcal{O} \neq = = -\mathcal{C}$	2534 をクリック.
3. 名称の欄に「OZONE」と入力して「OK」をクリ	ック.
4. 一件の化合物が表示された.	すると詳細が表示される.

Detail of Substance	e1	×
<u>F</u> ile <u>E</u> dit <u>H</u> elp		
Registry Number:	10028-15-6	-
CA Index Name:	Ozone (8Cl, 9Cl)	
Other Names:	Atmospheric ozone; Oxygen, mol. (03); Ozone (03); Ozone(160160160); Triatomic oxygen	
Formula:	03	
STN Files: CAPLUS, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMEX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM, DIPPR, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN, HSDB, IFICOB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK, MSDS-OHS, NIOSHTIC, PDLCOM, PIRA, PROMT, RTECS, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB (Additional Information is available through STN International. Contact you information speciality a local CAS representation or the CAS Help Dask		
Deleted Registry	tor Assistance)	
Doroto a Neglaciy I	0- 0- 0	•
	Close	



5. 名前からもこの化合物で間違いがないので, 一旦「Close」をクリックして閉じる.

6. 「Get References」をクリック.

7. 選択画面になるので、「All substances」、「Only the following types」をクリックし、「Analytical Study」を選択する.「OK」をクリック.

SciFinder Scholar File Edit View Task Tools Help	<u> </u>	Detail of Reference 1 <u>File</u> Edit <u>H</u> elp			
EE Soc Freed Free Control Free Control		Bibliographic Informatio	n		
Mori, Yoshihiko, Tashino, Masatoshi Isomura, Kinzo, Nakaya, Kenji, Minegishi, Torataro, Mizuno, Kenichiro, Takahashi, Kazutaka, Kadokawa, Noriaki, Method and device for water treatment using ozone with membrane filtration. Jpn: Kokai Totkyo Koho (2002), 6 pp. CODEN: JKXXAF JP 2002086193 A2 20020526 AN 2002-228392 CAPLUS		Method and device for w Yoshihiko; Hashino, Masat Kenichiro; Takahashi, Kazu Isomura Hosui Mfg. Co., Lt (2002) 6 pp. CODEN-1	rater treatment u oshi; Isomura, Kir utaka; Kadokawa, d.; NKK Corp.; Fu IKXXAF, JP, 2002	sing ozone with Izo; Nakaya, Kenji Noriaki. (Asahi Cl ji Electric Co., Ltd 186193 A2 20020	membrane filtration. Mori, ; Minegishi, Torataro; Mizuno, hemical Industry Co., Ltd., Japan; .). Jpn. Kokai Tokkyo Koho 206 Patent written in Japanese
F Kono, Takashi. Apparatus for treatment of swimming pool water with ozone and UV radiation. Jpn. Kolai Tokkyo Koho (2002). 4 pp. CODEN: JKOKAF JP 2002086168 A2 2020326 CAN 156:25/194 AN 2002:223686 CAPLUS	2	Application: JP 2000-2863	44 20000921. AM	4 2002:228392 C	APLUS
Kawarabayashi, Takao. Easy water analyzer using enzymic reaction. Jpn. Kokai Tokkyo Koho (2002), 12 pp. CODEN: JKXXAF JP 200205052 A2 20020326 AN 2002:226115 CAPLUS	2	Patent No. Date JP 2002086193	<u>Kind</u> A2	<u>Date</u> 20020326	Application No.
Chowdhury, Subhir, Method and device for detecting azone-consuming agents. PCT Int. Appl. (2002), 36 pp. CODEN: P0X02 WO 0217975 A1 20020307 CAN 136:221795 AN 2002:171737 CAPLUS	<u>2</u>	20000921		10010010	
Yagi, Shigeru. Ozone analyzer. Jpn. Kokai Tokkyo Koho (2002), 9 pp. CODEN: JKXXAF JP 2002062257 A2 20020228 CAN 136:204531 AN 2002:155085 CAPLUS	<u>£</u>	Abstract			
Analyze or Refine References Get Related Back		The method is carried out b Mn for lowering Mn concn. device, membrane filtration filtrate to obtain treated wat	by adding oxidizer in the water, injec of the water to ob er having 0.01-10	and Mn sand filtra tion of ozone to the tain filtrate, and ac mg/L residual ozol	tion of the original water to remove e water via an ozone injection tivated carbon treatment of the ne.
References 1-6 of 4283		Ge	et Related		Close

8.4283 件の文献が得られた. 2 をクリックすると文献の詳細が表示される.

#### 問題 D (Chemical Substance or Reaction – Chemical Structure) 問題 D-1

次の化合物 (exact match) に関する文献を一件調べなさい.







SciFinder Scholar Eile Edit View Iask Tools Help	Detail of Substance <u>File</u> <u>E</u> dit <u>H</u> elp	nce 1	×
HE CONTRACTOR FILE SURVEY FILE FILE FILE SUBJECT HERE	Registry Number:	rr. 216432-58-5	<u> </u>
216432-58-5	CA Index Name:	: 1H-Benzimidazole, 2,3-dihydro-2-propyl- (9Cl)	
	Formula: STN Files:	C10 H14 N2 CAPLUS_CA_CASREACT	
~1 Reference REGISTRY	STATILIS.	(Additional Information is available through STN International. Contact your information specialist, a local CAS representative, or the CAS Help Desk for Assistance) $ \underbrace{\prod_{i=1}^{H} P_{R-n}}_{NH} $	
	PROPERTY H donors H acceptors Molecular Weight logP Freely Rotatable logD logD	VALUE         CONDITION         NOTE           2         ACD (1)           2         ACD (1)           162.23         ACD (1)           2.224+0.264         ACD (1)           e Bonds 2         ACD (1)           0.06         pH 1         ACD (1)	
Get References Analyze or Refine Substances Back	logD logD logD	2.12 pH 7 ACD (1) 2.21 pH 8 ACD (1) 2.22 pH 10 ACD (1)	_
Substance 1 of 1	nogo pKa Molar Solubility Molar Solubility Molar Solubility Molar Solubility	6.44+/-0.20 Most Basic ACD (1) Very Soluble pH 1 ACD (1) Soluble pH 4 ACD (1) Sparingly Soluble pH 7 ACD (1) Sparingly Soluble pH 8 ACD (1) Sparingly Soluble pH 10 ACD (1) Close	-

- 4. 一件の化合物が表示された. 2 をクリックすると詳細が表示される.
- 5. 一旦「Close」をクリックして閉じる.
- 6. 「Get References」をクリック.



- 7. 選択画面になるので、「Selected substances」、「All references」を選択する. 「OK」をクリック.
- 8. 一件の文献が得られた. 2 をクリックすると文献の詳細が表示される.

Detail of Reference 1	Cetail of Reference 1
File Falt Helb	File Fait Helb
Bibliographic Information Intermediates in the reaction of o-phenylenediamine with carbonyl compounds and their subsequent conversions. Zelenin, K. N.; Ukraintsev, I. V.; Alekseev, V. V. Academy of Military Medicine, St. Petersburg, Russia. Chem. Heterocycl. Compd. (N. Y.) (1998), 34(3), 329-333. CODEN: CHCCAL. ISSN: 0009-3122. Journal written in English. CAN 130:25049 AN 1998;676609. CAPLUS	216432-57-4P 216432-58-5P 216432-58-6P
Abstract The reaction of o-phenylenediamine with aldehydes and ketones was studied using PMR spectroscopy. The reaction begins with the formation of monoimines, isolated in condensations with arom. aldehydes, which are cyclized to the corresponding benzimidazolines. Thus, reaction of 1.2.(H2N)2C6H4 with MeCHO gave the intermediate 2:H2NC6H4N/CHMe which was quant. converted over several hours to 2-methylbenzimidazoline. The benzimidazolines were converted in the reactions involving aldehydes and pinacolone into 2-substituted benzimidazolies, but with acetone and acetophenone give 2,3-dihydro-1H-benzo[b]-1,4-diazepines.	115432-00-5P         216432-61-0P         216432-65-1P         Role: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)         reagent)         (benzimidazoline intermediates in condensation reactions of o-phenylenediamine with carbonyl compds.)         57-64-1, Acetone, reactions         75-07-0, Acetaldehyde, reactions
Indexing Section 28-21 (Heterocyclic Compounds (More Than One Hetero Atom) Cyclocondensation reaction (Intermediates in condensation reactions of o-phenylenediamine with carbonyl compds. to form benzimidazoles and benzodiazepines) Get Related Close	175-97-8, tert-Buty methyl ketone 175-84-2, lobutanal 95-54-5, 1,2-Benzenediamine, reactions 98-88-2, Acetophenone, reactions 100-52-2, Benzaldehyde, reactions Get Related Close

9. レコードの下の方を見るとこの化合物の索引が示されている.反応中間体であることがわかる.

#### 問題 D-2

次の構造を含む化合物 (substructure) の合成に関する文献を一件調べなさい.



解答例

1. SciFinder Scholar のトップメニューで



2. Explore by Chemical Substance のメニューで をクリック.

3. 構造作図画面が表示されるので、各種ツールを使って構造を作図する. この構造はたとえば次のように作図することもできる.





6. 画面をクリックすると cyclopropane 環が作 図できた.



- 7. 中央の cyclopropane 環を反転するために, まず, key をクリックして, 環の周りを線で囲む.
- 8.「Tools」メニューから「Flip Vertical」を選択すると環が上下に反転する.



9. cyclopropane 環同志を縮合するため, をクリックして縮合する結合を Shift キーを押しながら選択する. 選択された結合は赤くハイライトされる.

10.「Tools」メニューから「Fuse Fragments」を選択すると、選択された結合が縮合する.



11. これを繰り返して、もうひとつの cyclopropane 環も縮合させる.

	Verview Answers
Reversion X	Preview answers:
Use Preview to estimate the number of answers and review sample answers where your structure is part of a more complex structure. Preview a sample of.	
Answers     Real-atom attachments     Vanable group (A, Q, X, and M) composition     Regroup composition     OK     Cancel	
	"Get Substances" will result in approximately 31 answers (estimated range: 15 - 45).
	Get Substances Back
	Substance 1 of 1

12. 構造が作図できたら、「Preview」をクリック.

13. 「Preiview」の画面で「Answers」を選択し、「OK」をクリック.

14. 予想回答件数は 31 と示され、回答例が表示される. この構造には作図した構造が含まれているが、より大きい環系となっている. このような大きな環系を除くため、もとの作図画面にもどって、縮合を禁止することにする.

Untitled	Untitled
<u>F</u> ile <u>E</u> dit <u>V</u> iew T <u>o</u> ols <u>T</u> emplate <u>H</u> elp	<u>F</u> ile <u>E</u> dit <u>V</u> iew T <u>o</u> ols <u>T</u> emplate <u>H</u> elp
A Lock out ring fusion or ring formation ▼	$ \begin{array}{c} & & & \\ & & & \\ & \rightarrow & & \\ \end{array} \end{array} $
Madden N C H O S N P CI Br F Si I Scale 100 ▲	Madden N C H O S N P CI Br F Si I Scale 100 ★
Preview Get Substances Get Reactions Cancel	Preview Get Substances Get Reactions Cancel
C5 H6 66.10	C5 H6 66.10
C5 H6 66.10	C5 H6 66.10

15. 環の縮合を禁止するには をクリックする (元に戻すときはもう一度クリック).

16. 縮合が禁止されると、結合が太く表示される. 本番の検索をするために「Get Substances」をクリック.

🚰 Get Substances	×
Get substances where this structure is:	
<ul> <li>C an exact match or a related structure</li> <li>C a substructure of a more complex structure</li> </ul>	
OK Additional Options Cancel	

17. substructure を選択して、「OK」をクリック.

18. 二件の回答が得られた. 片方は重水素の入った異性体である. 文献を見るために「Get References」をクリック.

🗇 Get References	×
Retrieve references for:	
C All substances C Selected substan	nces
For each substance, retrieve:	
C All references C Only the following	types:
Adverse Effect, including Toxicity	C Occurrence
C Analytical Study	Preparation
🗖 Biological Study	Properties
Combinatorial Study	Process
Crystal Structure	E Reactant or Reagent
Formation, nonpreparative	Spectral Properties
「 Miscellaneous	🗆 Uses
OK	Back

🗭 SciFinder Scholar File Edit View Task Tools Help	- 🗆 🗙
Image: transmit for the state state         Image: transmit for the state         Image: trate         Image: transmit for the state	
Terrence REGISTRY	R
Get References Analyze or Refine Substances Back	
Substances 1-2 of 2	

19. 「All substances」,「Only the following types」をクリックし,「Preparation」を選択する.「OK」を クリック.

SciFinder Scholer 💷 🗙 Eile Edit View Iask Tools Help
Here to be first f
Wiberg, Kenneth B.; McClusky, John V. Tricyclo[2.1.0.01,3]pentane. Tetrahedron Lett.         1           (1987). 28(45), 5411-14. CODEN: TELEAY ISSN:0040-4039. CAN 110:114319 AN 1389:114319. CAPLUS         1
_
Analyze or Refine References Get Related Back
Reference 1 of 1

20. 一件の文献が得られた. 20 をクリックすると文献の詳細が表示される.

🗇 Detail of Reference 1	4
Eile Edit Help	
	Detail of Reference 1
<u>æ</u>	Eile Edit Help
Bibliographic Information	
Tricyclo[2.1.0.013]pentane. Wiberg, Kenneth B; McClusky, John V. Dep, Chem, Yale Univ, New Haven, CT, USA. Tetrahedron Lett. (1987), 28(45), 5411-14. CODEN: TELEAY ISN: 0040-4039. Journal written in English. CAN 110.114319. AN 1939:114319. CAPLUS	Role: PREP (Preparation)  (formation and trapping of, with thiophenol)
Abstract	542-92-7P, Cyclopentadiene, preparation Role: FORM (Formation, nonpreparative); PREP (Preparation) (formation of, by rearrangement of tricyclopentane)
Reaction of 1,1-dibromo-2,3-bis(chloromethyl)syclopropane () with MeLi leads initially to ring closure to 1-bromo-2-(chloromethyl)bicyclo[1.1.0]butane. Further reaction leads to an unstable compd. which reacts with PhSH to give 2-winyl-1-cyclopropyl Ph sulfide and undergoes thermal rearrangement at ca50° to give cyclopentadiene. Strong evidence is presented to suggest that the title commot (0) is the intermediate.	7 <u>8585-75-8</u> P, Tricyclo[2.1.0.01,3]pentane
Br Br	Role: PREP (Preparation) (formation, and trapping and isomerization of)
	1133745651P 113374651P Role: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
Get Related Close	(prepn. and intramol. cyclopropanation of)
	Get Related Close

21. 文献レコードの下の方を見ていくと、この化合物の索引項目が表示され、preparation の文献 であることが確認できた.

#### 問題 D-3

Template で steroid を選択し,任意の骨格を選択して作図画面に移しなさい. これを substructure で検索したのち,回答の構造のひとつを調べなさい.

## 解答例

- 1. SciFinder Scholar のトップメニューで
- 2. Explore by Chemical Substance のメニューで



をクリック.

をクリック.

- 4. 構造作図画面の「Template」メニューから「Steroid...」を選択.
- 5. 候補から適当な環選択してクリック.



	×		
Get substances where this structure is:			
icture of a more comple:	x structure		
Additional Options	Cancel		
	es where this structure i match or a related struc cture of a more comple Additional Options		

- 6. 画面をクリックするとその環が作図できた.
- 7. 「Get Substances」をクリック.
- 8. substructure を選択し、「OK」をクリック.

![](_page_32_Figure_0.jpeg)

- される.
- 10. 文献を見るため、一旦「Close」をクリックして閉じる.
- 11. 「Get References」をクリック.

![](_page_32_Picture_4.jpeg)

12. 選択画面になるので、「Selected substances」、「All references」を選択する. 「OK」をクリック.

 を
クリッ 13. 一件の文献が得られたので クすると文献の詳細が表示される.

![](_page_32_Picture_7.jpeg)

Indexina -- Section 29-13 (Organometallic and Organometalloidal Compounds) Get Related...

Close

#### 問題 D-4

次の反応に関する文献を一件調べなさい.

![](_page_33_Figure_2.jpeg)

(テキストの構造は二重結合 の位置に誤りがあったので, 訂正する.テキストの構造で も検索は可能)

解答例

1. SciFinder Scholar  $\mathcal{O}$ トップメニューで $\overbrace{e}$ eef2. Explore by Chemical Substance $\mathcal{O}$ メニューで $\overbrace{e}$ ef

3. 構造作図画面が表示されるので、各種ツールを使って構造を作図する. この構造はたとえば次のように作図することもできる.

![](_page_33_Figure_7.jpeg)

4. 左のツールから を選択し, 画面上でクリックして, ベンゼン環を作図.

5. 今作図したベンゼン環の結合の上でもう一度クリックすると、縮合した形で作図できる.

![](_page_34_Figure_0.jpeg)

![](_page_34_Figure_1.jpeg)

6. もう一度結合の上でクリックすると、更に縮 合した環が作図できる. この時,結合価が超 過するという警告がでるが,無視する.

![](_page_34_Figure_3.jpeg)

![](_page_34_Figure_4.jpeg)

- 7. 結合を修正する.
- 8. ツールをクリックして, 環を囲む.
- 9. 「Edit」メニューから「Copy」を選択.

![](_page_35_Figure_0.jpeg)

- 10. 「Edit」メニューから「Paste」を選択すると、コピーされた構造が貼り付けられる.
- 11. この状態でドラッグして、適当な場所まで移動する.

![](_page_35_Figure_3.jpeg)

12. を選択して,二つの構造の間に線を引くと,自動的に反応の矢印となり, reactant/reagent, product の指定がおこなわれる.

![](_page_36_Figure_0.jpeg)

- 14. 構造の詳細を修正.
- 15. シントをクリックしたのち、両方の構造で対応する原子をクリックし、対応番号を振る (マップ).
   16. をクリックして環の縮合を禁止し、「Get Reactions」をクリック.
- 🗆 × - 0 × ₿ 8 E + ⇒ Ð ₫ NOTE: 1) KEY STEP, er, idinium tosvlat NOTE 1) KEY STEP. Water, Martin's reagent, CH2C12 Pyridinium tosylate, PhMe 1. mational Edition, 40(11), 2145-2149; 2001 nent (click microscope to view) 11 additio 2. (step 2) Databas CASREACT Get References Refine Reactions Back Reaction 1 of 1 Martin's reagent, CH2C12 Pyridinium tosylate 7 Close

16. 一件回答が得られた. 2 をクリックするとその論文中のすべてのヒットした反応が表示される.

17. 文献の詳細を見るには一旦「Close」をクリックして、「Get References」を クリック.

18. 「Selected reactions」を選択して、「OK」をクリック.

Get References	쓰		
Retrieve references for:			
C All reactions			
<ul> <li>Selected reactions</li> </ul>			
ОК	Back		

SciFinder ScholerX Eile Edit View Iask Tgols Help	Detail of Reference 1
Image: Second Part of Second Part o	
Analyze or Refine References Get Related Back	
Reference 1 of 1	

19. 一件の文献が得られたので, をクリックすると文献の詳細が表示される.