



# CAB Abstracts V1.0

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# 目次

|  |    |
|--|----|
| <i>Introduction to CAB Abstracts (はじめに)</i> .....                                    | 5  |
| <i>CAB Abstracts Subject Coverage (CAB Abstracts の収録分野)</i> .....                    | 5  |
| <i>CAB Thesaurus (CAB シソーラス)</i> .....   | 6  |
| <i>CAB Abstracts Full Records (CAB Abstracts のフル・レコード)</i> .....                     | 8  |
| <i>CAB Abstracts Home Page (CAB Abstracts のホームページ)</i> .....                         | 9  |
| <i>Database Selection (データベースの選択)</i> .....  | 10 |
| <i>Truncation (トランケーション)</i> .....   | 11 |
| <i>Boolean Operators (論理演算子)</i> .....   | 11 |
| <i>Order of Precedence (優先順位)</i> .....  | 12 |
| <i>Search (検索)</i> .....   | 13 |
| <i>General Search Results Summary (General Search 検索結果—サマリー画面)</i> .....             | 14 |
| <i>General Search Results Full Records(General Search 検索結果—詳細表示)</i> .....           | 15 |
| <i>ISI Web of Science Citing Articles (Citing Articles)</i> .....                    | 16 |
| <i>ISI Web of Science Cited References (Cited References)</i> .....                  | 17 |
| <i>ISI Web of Science Related Records (Related Records)</i> .....                    | 18 |
| <i>Using the CAB Thesaurus (CAB シソーラスの利用方法)</i> .....                                | 19 |
| <i>View Term in Hierarchy(統制語の階層表示)</i> .....  | 21 |
| <i>View Thesaurus Detail (シソーラスの詳細表示)</i> .....                                      | 22 |
| <i>Return to the Search Page (検索ページに戻る)</i> .....                                    | 23 |
| <i>Using the CABICODE Search Aid-Browse (検索ヘルプの利用方法—参照)</i> .....                    | 24 |
| <i>Working with Marked List (マーク・リストの取り扱い)</i> .....                                 | 26 |
| <i>E-mailing Records(レコードのメール送信)</i> .....   | 27 |
| <i>Printing Records(レコードの印刷)</i> .....   | 27 |
| <i>Saving Records(レコードの保存)</i> .....   | 28 |
| <i>Exporting Records to Bibliographic Management Software(文献管理ソフトへのエクスポート)</i> ..... | 28 |
| <i>Saving Queries(検索式の保存)</i> .....  | 29 |

|  |    |
|--|----|
| <i>Running Saved Queries (保存した検索式の実行)</i> .....            | 30 |
| <i>Appendix A – Topic Fields</i> .....                     | 31 |
| <i>Appendix B – Other Search Fields</i> .....              | 33 |
| <i>Contacting Thomson ISI</i> ..... エラー! ブックマークが定義されていません。 |    |
| <i>Contacting CABI Publishing</i> .....                    | 35 |

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- 農学、環境経済学
- 人間栄養学
- 農業工学
- レジャー、娯楽、観光
- 家畜生産
- 天然資源、環境問題
- 生物劣化、生分解
- 品種改良、作物生産、園芸
- バイオテクノロジー
- 土壌学、土地／水管理、肥料学
- 作物保護
- 農村開発
- 酪農科学
- 獣医学
- 林学、林産学

作物生産 (30%)、獣医学・ヒューマンヘルス (24%)、畜産学 (13%)、作物保護 (13%)、その他 (20%)

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CAB シソーラスの各優先語には、標準的なシソーラス情報 (上位語、下位語、関連語、非優先語、語源、範囲の記載) に加え、米国式と英国式の綴りの違い、Chemical Abstracts Registry 番号、International Union of Biochemistry Commission の酵素表記も掲載しています。

このシソーラスは 1984 年から CAB ABSTRACTS の索引に使用されはじめましたが、初期データベースで使用されていた索引語からシソーラスが作成されたため、1973～1983 年の索引にも関連付けられています。

## Copper binding to the prion protein: Structural implications of four identical cooperative binding sites

(octarepeat peptides/nuclear magnetic resonance/circular dichroism/electron spin resonance)

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Contributed by Stanley B. Prusiner, December 29, 1998

**ABSTRACT** Evidence is growing to support a functional role for the prion protein (PrP) in copper metabolism. Copper ions appear to bind to the protein in a highly conserved octapeptide repeat region (sequence PHGGGWGQ) near the N terminus. To delineate the site and mode of binding of Cu(II) to the PrP, the copper-binding properties of peptides of varying lengths corresponding to 2-, 3-, and 4-octarepeat sequences have been probed by using various spectroscopic techniques. A two-octarepeat peptide binds a single Cu(II) ion with  $K_d \approx 6 \mu\text{M}$  whereas a four-octarepeat peptide cooperatively binds four Cu(II) ions. Circular dichroism spectra indicate a distinctive structuring of the octarepeat region on Cu(II) binding. Visible absorption, visible circular dichroism, and electron spin resonance spectra suggest that the coordination sphere of the copper is identical for 2, 3, or 4 octarepeats, consisting of a square-planar geometry with three nitrogen ligands and one oxygen ligand. Consistent with the pH dependence of Cu(II) binding, proton NMR spectroscopy indicates that the histidine residues in each octarepeat are coordinated to the Cu(II) ion. Our working model for the structure of the complex shows the histidine residues in successive octarepeats bridged between two copper ions, with both the Ne2 and Nδ1 imidazole nitrogen of each histidine residue coordinated and the remaining coordination sites occupied by a backbone amide nitrogen and a water molecule. This arrangement accounts for the cooperative nature of complex formation and for the apparent evolutionary requirement for four octarepeats in the PrP.

Prion diseases are a novel class of neurodegenerative diseases, including scrapie in sheep, bovine spongiform encephalopathy in cattle, and Creutzfeldt-Jacob disease in humans (1). A new variant form of Creutzfeldt-Jacob disease has been reported that is thought to be caused by the ingestion of infected beef (2, 3). A variety of biochemical, biophysical, cell biologic, and transgenic experiments have indicated that the critical pathogenic event in prion disease is the misfolding of a benign cellular prion protein (PrP<sup>C</sup>) to form the infectious disease-causing isoform, the scrapie isoform of PrP (4-7).

Until recently, little has been known about the normal function of PrP<sup>C</sup> in the brain. There is now a body of evidence to indicate a role for PrP<sup>C</sup> in copper metabolism. Mice deficient in PrP<sup>C</sup> showed a >10-fold reduction of copper in a microsomal fraction from brain relative to wild-type mice and a reduction in activity of Cu/Zn superoxide dismutase (8). It also has been shown that cerebellar cells from mice deficient in PrP<sup>C</sup> are more sensitive to copper toxicity and oxidative stress (9).

Mature Syrian hamster PrP<sup>C</sup> is a glycoprotein containing two N-linked carbohydrates and one disulfide bridge. Post-translational processing results in the cleavage of a 22-residue leader sequence and the C-terminal tail after the attachment of a glycosylphosphatidylinositol anchor to serine 231. The solution structures of the mouse prion protein fragment, PrP(121-231) (10, 11), and of Syrian hamster PrP(90-231) (12) have been reported. The sequence of PrP(90-231) corresponds to the protease-resistant core of the scrapie isoform of PrP (PrP27-30), which can mediate prion disease.

The secondary structure of the full length Syrian hamster PrP(29-231) has been determined, and the dynamic properties of the protein backbone have been measured (13). The secondary structural elements of the full length apo PrP(29-231) are identical to those of PrP(90-231). The N-terminal half of the apoprotein, residues 29-124, is unstructured, with considerable backbone flexibility (13). Residues 51-91 contain an unusual glycine-rich repeat every eight residues; this sequence is termed the octarepeat region. Residues 60-91 consist of four octarepeat sequences (PHGGGWGQ)<sub>4</sub>, and residues 51-59 have a homology sequence but lack the histidine residue

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on protein: structural implications of four identical cooperative binding sites.

hen, F. E.; Prusiner, S. B.; Goodin, D. B.; Wright, P. E.; Dyson, H. J.

Proceedings of the **National Academy of Sciences of the United States of America**  
96 (5): 2042-2047 1999

**Document type:** Journal article    **Language:** English

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**Abstract:**  
To delineate the site and mode of binding of Cu(II) to the prion protein (PrP), the copper-binding properties of peptides of varying lengths corresponding to 2-, 3-, and 4-octarepeat sequences were probed by using various spectroscopic techniques. It was found that a 2-octarepeat peptide binds to Cu(II) with an apparent dissociation constant approx equal to 6 micro M, whereas a 4-octarepeat peptide cooperatively binds to Cu(II) with an apparent dissociation constant approx equal to 1 micro M. Circular dichroism spectra indicate a distinctive structuring of the octarepeat region of the prion protein. Visible absorption, visible circular dichroism, and electron spin resonance spectra suggest that the coordination sphere of the copper is identical for 2, 3 or 4 octarepeats, consisting of a square planar geometry with two nitrogen ligands and one oxygen ligand. Consistent with the pH dependence of Cu(II) binding, proton magnetic resonance spectroscopy indicated that the histidine residues in each octarepeat are coordinated to the Cu(II) ion. A working model for the structure of the complex showed the histidine residues in successive octarepeats bridged between 2 copper ions, with both the N epsilon 2 and N delta 1 imidazole nitrogen of each histidine residue coordinated and the remaining coordination sites occupied by a backbone amide nitrogen and a water molecule. This arrangement accounts for the cooperative nature of complex formation and for the apparent evolutionary requirement for 4 octarepeats in the PrP.

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Department of Molecular Biology, Scripps Research Institute, La Jolla, CA 90237, USA.

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**Descriptors:**  
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**Organism Descriptors:**  
prions

**References:**  
34 ref.

**Record Number:**  
19992205731

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1992  1991  1990  1989  1988  1987  1986  1985  1984  1983

1982  1981  1980  1979  1978  1977  1976  1975  1974  1973

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---

年代を選択するには、目的の年代の左にあるボックスにチェックを入れてください。

## Truncation (トランケーション)

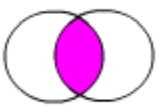
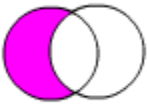
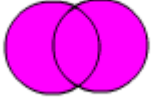
トランケーションはいろいろな方法で利用できます。語幹に続けてトランケーションを用いると単数形・複数形や語尾変化をまとめて検索できます。\* (アスタリスク) は0または1文字以上の語尾変化を、? (クエスチョンマーク) は1文字の語尾変化を表します。中間任意一致も可能で、アメリカ英語とイギリス英語のつづりの違いなどを検索できます。少なくとも3文字の語幹に続けてトランケーションを行ってください。

? = one character only

\* = zero or more characters

| Right Side Truncation |   | Internal Truncation (Wildcards) |  |
|-----------------------|---|---------------------------------|--|
| Diseas*               | Disease<br>Diseases<br>Diseased                             | Lap*roscop*                     | Laparoscopic<br>Laprosopic<br>Laparoscopy                          |
| Gene*                 | Gene<br>Genes<br>General<br>Generation                      | Sul*uri?ation                   | Sulfurization<br>Sulfurisation<br>Sulphurization<br>Sulphurisation |
| Pharmac*              | Pharmacy<br>Pharmacology<br>Pharmaceutics<br>Pharmaceutical | Neuros?s                        | Neurosis<br>Neuroses   |

## Boolean Operators (論理演算子)

|   |   |
|---|---|
| <p style="text-align: center;"><b>AND</b></p>  <p style="text-align: center;">biosurfactant* AND food industry</p> | <p>入力した検索語すべてを含むレコードを検索。異なった概念を同時に含むレコードを検索するとき使用。</p> <p><b>TOPIC: biosurfactant* AND food industry</b><br/> <i>biosurfactant*</i> と <i>food industry</i> の両方を含むレコードを検索。</p> |
| <p style="text-align: center;"><b>NOT</b></p>  <p style="text-align: center;">lactobacillus NOT acidoph*</p>       | <p>特定の概念を除いたレコードを検索。</p> <p><b>TOPIC: lactobacillus NOT acidoph*</b><br/> <i>lactobacillus</i> は含んでいるが、<i>acidoph</i> は含んでいないレコードを検索。</p>                                     |
| <p style="text-align: center;"><b>OR</b></p>  <p style="text-align: center;">lycopersicon esculentum OR tomato</p> | <p>入力した検索語のどれか、または全部含んでいるレコードを検索。同義の概念を幅広く検索したいときに用いる。</p> <p><b>TOPIC: lycopersicon esculentum OR tomato</b><br/>           少なくともどれか一つを含むレコードを検索。</p>                        |

## Proximity Operators (近接演算子)

**Implied Adjacency** フレーズを入力すると、そのフレーズを含むレコードを検索します。

**cy**

**Topic: biocontrol agent**

**Title:**

RESIDUAL EFFICACY OF TYPHULA PHACORRHIZA AS A **BIOCONTROL AGENT** OF GREY SNOW MOLD ON CREEPING BENTGRASS

**Same**

入力した語が同一センテンス内にあるレコードを検索します。  
(センテンスとはピリオドで区切られた単位を表す)  
語順は問いません。

**Topic: salmon\* same lysozyme**

**Address: aquaculture same canada**

**Title:**

In vitro evidence for the antibacterial role of **lysozyme** in **salmonid** eggs.

**Address:**

Institute for **Aquaculture** Research, Department of Biological Sciences, Simon Fraser University, Burnaby, British Columbia, V5A 1S6 **Canada**.

## Order of Preference (優先順位)

( )  
**SAME**  
**NOT**  
**AND**  
**OR**

複数の論理演算子や近接演算子を使用する場合は、括弧を用いて優先順位を有効にしてください。単一の検索コマンドで、最高 15 まで検索演算子を使用することができます。

例: **TOPIC: acrylamide and (carbohydrate or starch\*)**

*acrylamide* と括弧内の用語の 1 つ (あるいは両方) を含む文書が検索されます。

**TOPIC: antibiotic\* same (lactobacil\* or bifidu\* or probiotic\*)**

括弧内のいずれかの用語と同じ「文」に単語 **antibiotic** の変化形が含まれる文書が検索されます。

# Search (検索)

トピック = **coffe\* and (breed\* or cultiv\*)**

著者 = **bertrand b**

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bertrand b

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- Anthony, F.; Astorga, C.; Topart, P., et al.  
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 Boletin PROMECAFE (No.93): 9-13 2002
- Anthony, F.; Combes, M. C.; Astorga, C., et al.  
[The origin of cultivated \*Coffea arabica\* L. varieties revealed by AFLP and SSR markers.](#)  
 Theoretical and Applied Genetics 104 (5): 894-900 2002
- Etienne, H.; Anthony, F.; Dussert, S., et al.  
[Biotechnological applications for the improvement of coffee \(\*Coffea arabica\* L.\)](#)  
 In Vitro Cellular & Developmental Biology - Plant 38 (2): 129-138 2002

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- Anzueto, F.; **Bertrand, B.**; Sarah, J. L., et al.  
[Resistance to \*Meloidogyne incognita\* in Ethiopian \*Coffea arabica\* accessions.](#)  
 Euphytica 118 (1): 1-8 2001
- Bertrand, B.**; Nunez; Araya, A.  
['Corchosis' of coffee in Costa Rica: a compl](#)  
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 XIX Simposio Latinoamericano de cafcultura, 2-6 Octobre 2000.  
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**Molecular analysis of introgressive breeding in coffee (*Coffea arabica* L.).**  
Lashermes, P.; Andrzejewski, S.; Bertrand, B.; Combes, M. C.; Dussert, S.; Graziosi, G.; Trouslot, P.; Anthony, F.

**Theoretical and Applied Genetics**  
100 (1): 139-146 2000

Language: English

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**Abstract:**  
Nineteen arabica coffee introgression lines (BC1F4) and two accessions derived from a spontaneous interspecific cross (i.e. Timor Hybrid (TH)) between *Coffea arabica* (2n = 4x = 44) and *C. canephora* (2n = 2x = 22) were analysed for the introgression of *C. canephora* genetic material. TH-derived genotypes were evaluated by amplified fragment length polymorphism (AFLP), using 42 primer combinations, and compared to 23 accessions of *C. arabica* and 8 accessions of *C. canephora*. A total of 1062 polymorphic fragments were scored among the 52 accessions analysed. Some 178 markers consisting of 109 additional bands (i.e. introgressed markers) and 69 missing bands distinguished the group composed of the TH-derived genotypes from the accessions of *C. arabica*. AFLP therefore seemed to be an extremely efficient technique for DNA marker generation in coffee as well as for the detection of introgression in *C. arabica*. The genetic diversity observed in the TH-derived genotypes appeared to be approximately double that in *C. arabica*. Although representing only a small proportion of the genetic diversity available in *C. canephora*, TH obviously constitutes a considerable source of genetic diversity for arabica breeding. Analysis of genetic relationships among TH-derived genotypes suggested that introgression was not restricted to chromosome substitution but also involved chromosome recombinations. Furthermore, TH-derived genotypes varied considerably in the number of AFLP markers attributable to introgression. In this way, the introgressed markers identified in the analysed arabica coffee introgressed genotypes were estimated to represent from 9 to 29% of the *C. canephora* genome. Nevertheless, the amount of alien genetic material in the introgression arabica lines remains substantial and should justify the development of adapted breeding strategies.

**Address:**  
IRD (ex ORSTOM), GeneTrop, BP 5045, F-34032 Montpellier, France.

**ISSN:**  
0040-5752

**CABICODES:**  
FF003 Horticultural Crops (NEW March 2000)  
FF020 Plant Breeding and Genetics  
WW000 Biotechnology

**Descriptors:**  
coffee; genetic diversity; interspecific hybridization; introgression; genetic markers; chromosome substitution; recombination; plant breeding; stimulant plants; biotechnology

**Organism Descriptors:**  
*Coffea canephora*, *Coffea arabica*, *Coffea*

**Identifiers:**  
amplified fragment length polymorphism

**Broad Descriptors:**  
*Coffea*; Rubiaceae; Rubiales; dicotyledons; angiosperms; Spermatophyta; plants

**References:**  
29 ref.

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20001608607

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### Citing Articles--Summary

[Molecular analysis of introgressive breeding in coffee \(Coffea arabica L.\)](#)  
Lashermes P, Andrzejewski S, Bertrand B, et al.  
THEORETICAL AND APPLIED GENETICS  
100 (1): 139-146 JAN 2000

These documents in the database cite the above article:

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- Hagen LS, Khadari B, Lambert P, et al.  
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THEOR APPL GENET 105 (2-3): 298-305 AUG 2002
- Prakash NS, Combes MC, Somanna N, et al.  
[AFLP analysis of introgression in coffee cultivars \(Coffea arabica L.\) derived from a natural interspecific hybrid](#)  
EUPHYTICA 124 (3): 265-271 2002
- Anthony F, Combes MC, Astorga C, et al.  
[The origin of cultivated Coffea arabica L. varieties revealed by AFLP and SSR markers](#)  
THEOR APPL GENET 104 (5): 894-900 APR 2002
- Etienne H, Anthony F, Dussert S, et al.  
[Biotechnological applications for the improvement of coffee \(Coffea arabica L.\)](#)  
IN VITRO CELL DEV-PL 38 (2): 129-138 MAR-APR 2002
- Herrera JC, Combes MC, Anthony F, et al.  
[Introgression into the allotetraploid coffee \(Coffea arabica L.\): segregation and recombination of the C-canephora genome in the tetraploid interspecific hybrid \(C-arabica x C-canephora\)](#)  
THEOR APPL GENET 104 (4): 661-668 MAR 2002
- Besnard G, Baradat P, Breton C, et al.  
[Olive domestication from structure of oleasters and cultivars using nuclear RAPDs and mitochondrial RFLPs](#)  
GENET SEL EVOL 33: S251-S268 Suppl. 1 2001
- Bertrand B, Anthony F, Lashermes P  
[Breeding for resistance to Meloidogyne exigua in Coffea arabica by introgression of resistance genes of Coffea canephora](#)  
PLANT PATHOL 50 (5): 637-643 OCT 2001
- Lashermes P, Combes MC, Prakash NS, et al.  
[Genetic linkage map of Coffea canephora: effect of segregation distortion and analysis of recombination rate in male and female meioses](#)  
GENOME 44 (4): 589-596 AUG 2001
- Binsfeld PC, Wingender R, Schnabl H  
[Cytogenetic analysis of interspecific sunflower hybrids and molecular evaluation of their progeny](#)  
THEOR APPL GENET 102 (8): 1280-1285 JUN 2001
- Tsuji K, Ohnishi O  
[Phylogenetic relationships among wild and cultivated Tartary buckwheat \(Fagopyrum tataricum Gaert.\) populations revealed by AFLP analyses](#)  
GENES GENET SYST 76 (1): 47-52 FEB 2001

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**Cited References**  
**Molecular analysis of introgressive breeding in coffee (Coffea arabica L.)**  
 Lashermes P, Andrzejewski S, Bertrand B, et al.  
**THEORETICAL AND APPLIED GENETICS**  
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- Herrera JC, Combes MC, Anthony F, et al. [Introgression into the allotetraploid coffee \(Coffea arabica L.\): segregation analysis of the C-canephora genome in the tetraploid interspecific hybrid \(C-arabica x C-canephora\)](#) THEOR APPL GENET 104 (4): 661-668 MAR 2002
- Steiger DL, Nagai C, Moore PH, et al. [AFLP analysis of genetic diversity within and among Coffea arabica cultivars](#) THEOR APPL GENET 105 (2-3): 209-215 AUG 2002
- Anthony F, Combes MC, Astorga C, et al. [Origin of cultivated Coffea arabica L. varieties revealed by AFLP and SSR markers](#) THEOR APPL GENET 104 (5): 894-900 APR 2002
- Lashermes P, Combes MC, Robert J, et al. [Molecular characterisation and origin of the Coffea arabica L. genome](#) THEOR APPL GENET 261 (2): 259-266 MAR 1999
- Combes MC, Anthony F, et al. [Genetic diversity and evolution of NBS-type disease-resistance gene homologues in Coffea arabica L.](#) GENET GENOMICS 265 (4): 654-662 JUN 2001
- Bi IV, Maquet A, Baudoin JP, et al. [Breeding for "low-gossypol seed and high-gossypol plants" in upland C. arabica L. hybrids and backcross progenies using AFLPs and mapped RFLPs](#) THEOR APPL GENET 99 (7-8): 1233-1244 NOV 1999
- Etienne H, Anthony F, Dussert S, et al. [Biotechnological applications for the improvement of coffee \(Coffea arabica L.\)](#) IN VITRO CELL DEV-PL 38 (2): 129-138 MAR-APR 2002
- Bertrand B, Anthony F, Lashermes P. [Breeding for resistance to Meloidogyne exigua in Coffea arabica by introgression of resistance genes of Coffea canephora](#) PLANT PATHOL 50 (5): 637-643 OCT 2001
- Lashermes P, Combes MC, Prakash NS, et al. [Genetic linkage map of Coffea canephora: effect of segregation distortion and analysis of recombination rate in male and female meioses](#) GENOME 44 (4): 589-596 AUG 2001

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meat substitutes の優先語は meat analogues です。この用語の階層を見るには**‘H’**をクリックしてください。

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| Thesaurus Term:    |                                    | meat substitutes |                   | <b>T</b>              |
| Preferred Term(s): | <input type="button" value="ADD"/> | meat analogues   | <b>H</b>          | <b>T</b>              |

Meat substitutes

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  - ⊕ (applied genetics and breeding)
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- ⊕  simulated foods
- ⊕  milk substitutes
- ⊕  imitation cream
- ⊕  meat analogues
- ⊕ (foods by composition)
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- ⊕ (technology and engineering)
- ⊕ SOCIAL SCIENCES AND HUMANITIES

シソーラスの詳細を見るには、**‘T’**をクリックしてください。

# View Thesaurus Detail (シソーラスの詳細表示)

**CAB ABSTRACTS®** Powered by ISI Web of Knowledge<sub>SM</sub>

**CAB Thesaurus -- Descriptors Field** [How to Use](#)

Use the Find and browse features to locate Descriptors to add to your query.

Find a Descriptor: (e.g., acid\*)

|                       | Add to Query                       | Descriptors                 | View in Hierarchy                | View Thesaurus Detail            |
|-----------------------|------------------------------------|-----------------------------|----------------------------------|----------------------------------|
| <b>Meat analogues</b> |                                    |                             |                                  |                                  |
| Thesaurus Term:       | <input type="button" value="ADD"/> | meat analogues              | <input type="button" value="H"/> | <input type="button" value="T"/> |
| American Form:        |                                    | meat analogs                |                                  | <input type="button" value="T"/> |
| Use For:              |                                    | TVP                         |                                  | <input type="button" value="T"/> |
|                       |                                    | meat substitutes            |                                  | <input type="button" value="T"/> |
|                       |                                    | protein, textured vegetable |                                  | <input type="button" value="T"/> |
|                       |                                    | textured vegetable proteins |                                  | <input type="button" value="T"/> |
| Broader Term(s):      | <input type="button" value="ADD"/> | simulated foods             | <input type="button" value="H"/> | <input type="button" value="T"/> |
|                       | <input type="button" value="ADD"/> | substitutes                 | <input type="button" value="H"/> | <input type="button" value="T"/> |
| Narrower Term(s):     | <input type="button" value="ADD"/> | textured proteins           | <input type="button" value="H"/> | <input type="button" value="T"/> |
| Related Term(s):      | <input type="button" value="ADD"/> | analogues                   | <input type="button" value="H"/> | <input type="button" value="T"/> |
|                       | <input type="button" value="ADD"/> | meat                        | <input type="button" value="H"/> | <input type="button" value="T"/> |
|                       | <input type="button" value="ADD"/> | soyabean products           | <input type="button" value="H"/> | <input type="button" value="T"/> |
|                       | <input type="button" value="ADD"/> | synthetic proteins          | <input type="button" value="H"/> | <input type="button" value="T"/> |

Transfer your selected Descriptors below to the Descriptors field on the Search page.

"meat analogues" OR "synthetic proteins"

Descriptor 項目にシソーラス用語を検索語として追加する場合は、**Add** ボタンをクリックしてください。シソーラス用語は、スクリーンの下フレームに表示されます。

統制語の階層を見るには**'H'**をクリックしてください

統制語を選択したら **OK** をクリックし、検索画面の descriptors のフィールドに選択した CAB シソーラスを移動します。



# Using the CABICODE Search Aid-Browse (CABICODE の利用方法)

CAB ABSTRACTS の検索ページから、CABICODE list と書かれたリンクをクリックすることで、CABICODE の検索ヘルプにアクセスできます。

**CAB ABSTRACTS**® Powered by ISI Web of Knowledge,SM

**CABICODE List** [How to Use](#)

Use the Find and browse features to locate CABICODES to add to your query.

Enter a word to Find a CABICODE: (e.g., pharmacol\*)

| Browse Classification        |   | View        |
|------------------------------|---|-------------|
|                              |   | Scope Notes |
| <input type="checkbox"/> ADD | AA000 Agriculture (General)   | (S)         |
| <input type="checkbox"/> ADD | BB500 History and Biography   | (S)         |
| <input type="checkbox"/> ADD | CC000 Education, Extension, Information and Training (General)                          | (S)         |
| <input type="checkbox"/> ADD | DD100 Agencies and Organizations  |             |
| <input type="checkbox"/> ADD | DD500 Laws and Regulations  |             |
| <input type="checkbox"/> ADD | EE100 Economics (General)   |             |
| <input type="checkbox"/> ADD | FF000 Plant Science (General)   |             |
| <input type="checkbox"/> ADD | HH000 Pathogen, Pest and Parasite and Weed Management (General)                         |             |
| <input type="checkbox"/> ADD | JJ000 Soil Science (General)  |             |
| <input type="checkbox"/> ADD | KK000 Forestry, Forest Products and Agroforestry (General)                              | (S)         |
| <input type="checkbox"/> ADD | LL000 Animal Science (General)  | (S)         |
| <input type="checkbox"/> ADD | LL001 Unallocated Animal Science (Discontinued 1995)                                    | (S)         |
| <input type="checkbox"/> ADD | MM000 Aquatic Sciences (General)  | (S)         |
| <input type="checkbox"/> ADD | NN000 Engineering and Equipment (General)   | (S)         |
| <input type="checkbox"/> ADD | PP000 Natural Resources (General)   | (S)         |
| <input type="checkbox"/> ADD | QQ000 Food Science and Food Products (Human)  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ010 Milk and Dairy Produce  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ020 Sugar and Sugar Products  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ030 Meat Produce  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ040 Eggs and Egg Products   | (S)         |
| <input type="checkbox"/> ADD | ADD QQ050 Crop Produce  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ060 Aquatic Produce   | (S)         |
| <input type="checkbox"/> ADD | ADD QQ070 Other Produce   | (S)         |
| <input type="checkbox"/> ADD | ADD QQ100 Food Processing (General)   | (S)         |
| <input type="checkbox"/> ADD | ADD QQ110 Food Storage and Preservation   | (S)         |
| <input type="checkbox"/> ADD | ADD QQ111 Storage Problems and Pests of Food  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ120 Microbial Technology in Food Processing                                       | (S)         |
| <input type="checkbox"/> ADD | ADD QQ130 Food Additives  | (S)         |
| <input type="checkbox"/> ADD | ADD QQ200 Food Contamination, Residues and Toxicology                                   | (S)         |
| <input type="checkbox"/> ADD | ADD QQ500 Food Composition and Quality  | (S)         |
| <input type="checkbox"/> ADD | RR000 Forage and Feed Products (Non-human)  | (S)         |
| <input type="checkbox"/> ADD | SS000 Non-food/Non-feed Agricultural Products (General)                                 | (S)         |
| <input type="checkbox"/> ADD | TT100 Medical and Veterinary Helminthology (Discontinued 1995)                          | (S)         |
| <input type="checkbox"/> ADD | TT200 Medical and Veterinary Protozoology (Discontinued 1995)                           | (S)         |
| <input type="checkbox"/> ADD | TT300 Medical and Veterinary Entomology (Discontinued 1995)                             | (S)         |
| <input type="checkbox"/> ADD | UU000 Social Sciences (General)   | (S)         |
| <input type="checkbox"/> ADD | VV000 Human Health and Hygiene (General)  | (S)         |
| <input type="checkbox"/> ADD | WW000 Biotechnology   | (S)         |
| <input type="checkbox"/> ADD | XX000 Wastes (General)  | (S)         |
| <input type="checkbox"/> ADD | YY000 Zoology - Wild Animals (Vertebrates and Invertebrates) (General) (NEW March 2000) | (S)         |
| <input type="checkbox"/> ADD | ZZ000 Other Sciences  | (S)         |

Jump to Term アイコンをクリックして上位語に移動できます。

CABICODE の上位コードの+をクリックし、より限られた下位コードを選択できます。上位語はハイライト表示されます。

# Using the CABICODE Search Aid-FIND

**CAB ABSTRACTS®** Powered by ISI Web of Knowledge<sub>SM</sub>

**CABICODE List** [How to Use](#)

Use the Find and browse features to locate CABICODES to add to your query.

Enter a word to Find a CABICODE: (e.g., pharmacol\*)

**Results Page 1 (Codes 1 -- 25 of 25)**

| Add to Query                       | CABICODE  | V   | Hi  |
|------------------------------------|---|-----|-----|
| <input type="button" value="ADD"/> | EE116 Food Economics (NEW March 2000)                   |     |     |
| <input type="button" value="ADD"/> | FF005 Field Crops (NEW March 2000)                      |     |     |
| <input type="button" value="ADD"/> | KK530 Chemical and Biological Processing of Wood        |     |     |
| <input type="button" value="ADD"/> | LL180 Animal Husbandry and Production (NEW March 2000)  |     |     |
| <input type="button" value="ADD"/> | MM110 Fisheries   | (H) | (S) |
| <input type="button" value="ADD"/> | MM120 Aquaculture (Animals)                             | (H) | (S) |
| <input type="button" value="ADD"/> | MM130 Aquaculture (Plants)                              | (H) | (S) |
| <input type="button" value="ADD"/> | NN600 Processing Equipment and Technology               | (H) | (S) |
| <input type="button" value="ADD"/> | QQ000 Food Science and Food Products (Human)            | (H) | (S) |
| <input type="button" value="ADD"/> | QQ010 Milk and Dairy Produce                            | (H) | (S) |
| <input type="button" value="ADD"/> | QQ020 Sugar and Sugar Products                          | (H) | (S) |
| <input type="button" value="ADD"/> | QQ030 Meat Produce                                      | (H) |     |
| <input type="button" value="ADD"/> | QQ040 Eggs and Egg Products                             | (H) |     |
| <input type="button" value="ADD"/> | QQ050 Crop Produce                                      | (H) |     |
| <input type="button" value="ADD"/> | QQ060 Aquatic Produce                                   | (H) |     |
| <input type="button" value="ADD"/> | QQ070 Other Produce                                     | (H) |     |
| <input type="button" value="ADD"/> | QQ100 Food Processing (General)                         | (H) |     |
| <input type="button" value="ADD"/> | QQ120 Microbial Technology in Food Processing           | (H) | (S) |
| <input type="button" value="ADD"/> | RR000 Forage and Feed Products (Non-human)              | (H) | (S) |
| <input type="button" value="ADD"/> | SS000 Non-food/Non-feed Agricultural Products (General) | (H) | (S) |
| <input type="button" value="ADD"/> | SS100 Non-food/Non-feed Animal Products                 | (H) | (S) |
| <input type="button" value="ADD"/> | SS200 Non-food/Non-feed Plant Products                  | (H) | (S) |
| <input type="button" value="ADD"/> | WW000 Biotechnology                                     | (H) | (S) |
| <input type="button" value="ADD"/> | XX100 Animal Wastes                                     | (H) | (S) |
| <input type="button" value="ADD"/> | ZZ390 Microbiology (General)                            | (H) | (S) |

**Results Page 1 (Codes 1 -- 25 of 25)**

このテキストボックスに単語あるいはフレーズを入力し、**Find**をクリックしてください。これにより、CABICODE名とScope Notesが検索されます。  
注) Scope Notesは単語からの検索のみです。フレーズでは検索できません。

検索には最上位のコードを検索に利用するか、Hをクリックし下位のコードを選択してください。

# Working with Marked (マークリストの取扱)

Marked List から、レコードを印刷、ファイルに保存、EndNote、ProCite、Reference Manager へ直接エクスポートしたり、電子メールで送信することができます。

The screenshot shows the 'Marked Records' section of the CAB Abstracts website. At the top, it says 'CAB ABSTRACTS® Powered by ISI Web of Knowledge<sub>SM</sub>'. Below this, there are navigation icons and a 'DATE' dropdown. The main heading is 'Marked Records' with a sub-heading '4 Records on the marked list' and a 'CLEAR MARKED LIST' button. A callout box points to this button, stating: 'ここをクリックすることで全リストをクリアできます。' (Clicking here will clear the entire list.)

Below the heading is 'STEP 1: Select sort and output fields for the entire marked list.' This step is divided into two parts:

- Select sort option:** A dropdown menu is shown with 'Latest date' selected. Other options include 'First author', 'Source Publication', and 'Conference Title'. A callout box points to this dropdown, stating: '出力時に結果を並び替える際に選択します。' (Select when sorting results at the time of output.)
- Select fields to include in addition to the author(s), article title and source:** A list of checkboxes is provided: 'abstract\*', 'language', 'publisher information', 'other information', 'CABICODES', 'address', 'CAS Registry No.', 'document type', 'descriptors', and 'ISSN/ISBN'. A callout box points to the 'other information' checkbox, stating: '印刷、保存、電子メール送信リストに含めたいフィールドを選択してください。' (Please select the fields you want to include in the print, save, and email list.)

A note below the checkboxes reads: '\*Selecting the abstract field may cause the server to time out with large numbers of records.' Below this is 'STEP 2: Select action for output.' with buttons for 'FORMAT FOR PRINT', 'SAVE TO FILE', 'EXPORT TO REFERENCE SOFTWARE', and 'E-MAIL'. A callout box points to these buttons, stating: '印刷、保存、電子メール送信リストに含めたいフィールドを選択してください。' (Please select the fields you want to include in the print, save, and email list.)

The main list of records is shown below, with each item checked:

- Musso, S.  
[Mycoprotein: an alternative to meat.](#)  
*Micoproteine: un'alternativa alla carne.*  
Industrie Alimentari 40 (408): 1266-1268 2001
- Mangels, A. R.; Messina, V.  
[Considerations in planning vegan diets: infants.](#)  
Journal of the American Dietetic Association 101 (6): 670-677 2001
- Beekman, V.  
[You are what you eat: meat, novel protein foods, and consumptive freed](#)  
Special issue: Food ethics and consumer concerns.  
Journal of Agricultural & Environmental Ethics 12 (2): 185-196 2000
- Mcliveen, H.; Abraham, C.; Armstrong, G.  
[Meat avoidance and the role of replacers.](#)  
Vegetarian Nutrition 2 (3): 112-118 1998

At the bottom of the list, there are buttons for 'FORMAT FOR PRINT', 'SAVE TO FILE', 'EXPORT TO REFERENCE SOFTWARE', and 'E-MAIL'. A callout box points to the list items, stating: 'リストの左のボックスからチェックマークをはずすと、印刷、保存、エクスポート、電子メール送信の対象から除外されますが、リストから削除されることはありません。' (If you uncheck the checkbox on the left of the list, you will be excluded from printing, saving, exporting, and emailing, but you will not be deleted from the list.)

At the very bottom, there is a link: 'Back to [top of Marked Records](#) page'.

## E-mailing Records(レコードのメール送信)

**E-Mail Marked Records from CAB ABSTRACTS**

*Please note that some e-mail systems cannot receive large files. You may experience problems if you try to send large numbers of records.*

**E-Mail the records to:**

**Your e-mail address (optional):**

**Notes (enter up to 250 characters):**

電子メールが送信されなかった場合にも通知はされません。電子メールアドレスを入力するときにはご注意ください。

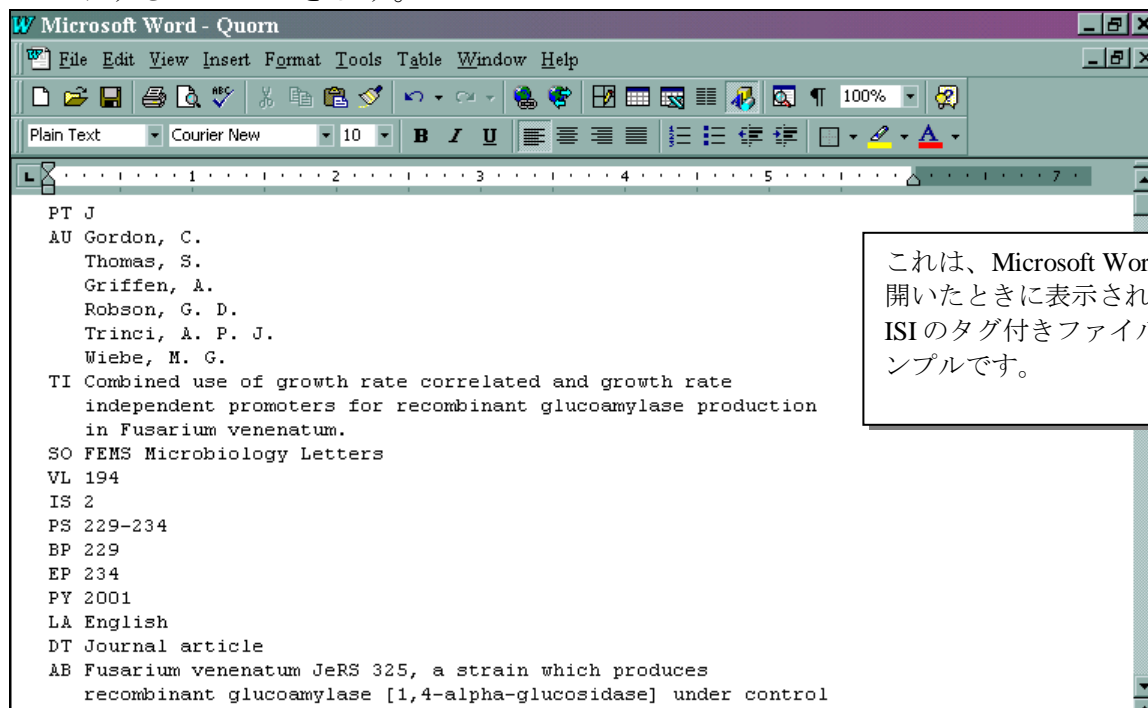
ご自身の電子メールアドレスを「差出人」の欄に表示できます。ただし、電子メールのコピーは送信されません。

## Printing Records(レコードの印刷)

1. **Marked List** ページから、Author、Title、Source publication とともに、印刷したいフィールドを選択してください。レコードを Latest Date、First Author あるいは Source Title でソートしてください。
2. **Format for Print** ボタンをクリックすると、フィールドのマークの付いた通常のテキスト形式にレコードをフォーマットできます。
3. ウェブブラウザのファイル/印刷オプションを使い、フォーマットされたレコードを印刷してください。
4. タグの付いていないテキストとしてレコードを保存するには、ウェブブラウザのファイル/保存オプションを使用してください。

## Saving Records (レコードの保存)

ISI のタグ付きファイル形式でレコードを保存するには、Marked List のページで名前を付けて保存ボタンをクリックしてください。ファイル/保存のダイアログボックスで、保存する場所とファイル名を指定してください。リストでマークをつけたレコードを含むファイルが保存され、フィールドが2文字のタグで識別されます。このフォーマットは書誌情報管理プログラムやワープロソフトにインポートすることができます。



これは、Microsoft Word®で開いたときに表示される、ISIのタグ付きファイルのサンプルです。

## Exporting Records to Bibliographic Management Software (文献管理ソフトへのエクスポート)

Marked List のページから **Export** ボタンをクリックし、ファイルを適切なライブラリあるいはデータベースに保存するか、現在の検索に対して新たにデータベースを作成してください。EndNote、ProCite、あるいは Reference Manager に直接レコードをエクスポートするには、適切な **ISI/RIS Web Capture Utility** とともに、EndNote、ProCite、あるいは Reference Manager をインストールしておく必要があります。この無料ユーティリティをダウンロード、インストールするための説明は、"Exporting Records"ヘルプページの ISI/RIS Web Capture Utility リンクをクリックしてください。



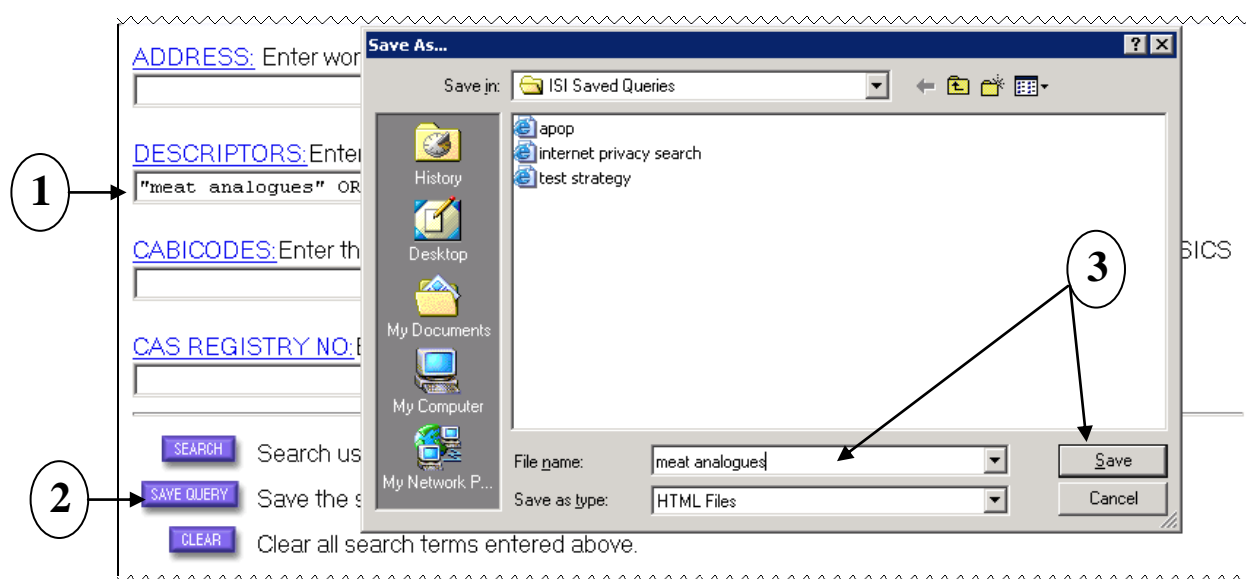
ISI ResearchSoft などの製品情報については、<http://www.isiresearchsoft.com/> をご覧ください。

## Saving Queries (検索式の保存)

新しく更新されたデータを対象に同じ検索式を実行し、後で同じ検索を呼び出すことができます。検索式はローカルディスクに保存します。

検索式を保存するには、以下のステップに従ってください。

1. 保存したい検索式を入力します。
2. **Save Query** ボタンをクリックします。
3. プロンプト画面がでたら、保存先ディレクトリを選択し、内容がわかるファイル名を付け、**Save** ボタンをクリックします。



# Running Saved Queries (保存した検索式の実行)

CAB Abstracts Database Selection のページを表示します。希望のファイル及びデータ範囲を選択し、検索を実行します。ページの下に **Using Saved Queries** というリンクがあります。ここから、このトピックに関するヘルプを参照できます。

保存した検索式を実行するには、以下のステップに従ってください。

1. 保存した検索式の場所とファイル名を入力するか、**ブラウズ/Browse** ボタンを使ってください。
2. ダイアログボックスが開きます。検索式を保存したフォルダーから、ファイルを選択して、**Open** をクリックします。これにより、表示画面の下にある **Using Saved Queries** に場所とファイル名 (例えば C:\My Saved Queries\meat substitute.html など) が入力されます。
3. **Open Query** ボタンをクリックすると **Search** 画面を表示します。
4. 検索式を実行して **Search** をクリックしてください。

The screenshot shows the CAB Abstracts Database Selection interface. A 'File Upload' dialog box is open, displaying the 'ISI Saved Queries' folder. The file 'meat analogues' is selected. The 'Open' button in the dialog is circled with a '2'. Below the dialog, the 'Using Saved Queries' section contains a text input field with 's\meat analogues.htm', a 'Browse...' button circled with a '1', and an 'Open Query' button circled with a '3'.

## Appendix A – Topic Fields

The fields listed below are included in the Topic/Subject search. Some of the fields listed below are also separately searchable (see Appendix B).

| Field                      | Description  | Example   |
|----------------------------|--|---|
| <b>Title</b>               | Title of the source article, book, or volume in a book series. If the source document was not originally published in English, both the original-language title and the English title (translated) are searchable.   | Enter <b>bovine leukemia same detect*</b> to retrieve:<br><br>Comparison of primer sets for the <b>detection of bovine leukemia</b> virus by polymerase chain reaction. |
| <b>Abstract</b>            | The abstract is a summary of the content of the source publication. Many abstracts are written by subject specialists at CAB International. If the author abstract is used, it is often supplemented with additional information derived from the source publication.  | Enter <b>fungicid* and tuber*</b> to retrieve information about treating tuberous plants with fungicide.  |
| <b>Descriptors</b>         | Descriptors from the CAB Thesaurus assigned by a subject specialist at CAB International.  | Choose <b>Nitrogen fertilizers or Calcium fertilizers</b> from the CAB Thesaurus to retrieve records that are about those specific classes of fertilizer.               |
| <b>Broad Descriptors</b>   | <p>A Broad Descriptor is an Organism Descriptor or a Geographic Location term that has one or more subordinate descriptors in the CAB Thesaurus hierarchy.</p> <p>Broad descriptors are automatically assigned to records that contain descriptors in the Organism Descriptors and Geographic Location fields. For example, a record containing Orthoptera in the Organism Descriptors field will automatically have insects as a Broad Descriptor. A record containing Siberia in the Geographic Location field will automatically have Russia as a Broad Descriptor.</p> | <p>Use <b>Asia and Equidae</b> to retrieve:</p> <p><b>Equidae</b>; Perissodactyla; mammals; ungulates; West <b>Asia</b>; <b>Asia</b>;</p>                               |
| <b>Geographic Location</b> | Country or region discussed in the source document. Terms in this field are descriptors from the CAB Thesaurus and are allocated at the appropriate level of specificity for the concept being discussed. All broader level terms in the thesaurus hierarchy are automatically added to the Broad Descriptors field.   | For information on riparian vegetation in a specific location, enter <b>riparian veg* and tennessee</b> .   |
| <b>Identifiers</b>         | <p>Identifiers are keywords that are non-preferred terms and therefore are not found in the CAB Thesaurus.</p> <p>This field is used for concepts that do not</p>  | For information on red-shouldered or broad-winged hawks, enter <b>Buteo lineatus or Buteo platypterus</b> .   |

|                             |  |  |
|-----------------------------|--|--|
| <b>Organism Descriptors</b> | <p>yet have controlled terms, including new species and new chemicals.</p> <p>Descriptors from the CAB Thesaurus for CABI preferred organism names at the appropriate level of specificity for the concept discussed. All broader level terms in the thesaurus hierarchy are automatically added to the Broad Descriptors field.</p> | <p>For information on the genus <i>Buteo</i> or broad information about hawks, choose the CAB Thesaurus terms <b>Buteo or hawks</b>.</p> |
| <b>Cabicode Names</b>       | <p>CABICODES are classification codes that indicate the broad subject areas addressed by source documents. Every record in CAB Abstracts has at least one CABICODE. A CABICODE consists of two letters followed by three numbers. Every code has a name. For example, the name for code JJ200 is Soil Chemistry and Mineralogy.</p>  | <p>Enter <b>Soil Physics</b> to retrieve items that have been classified under JJ300 Soil Physics.</p>                                   |

## Appendix B – Other Search Fields

| Field                      | Description   | Example  |
|----------------------------|---|--|
| <b>Author/Editor</b>       | <p>Names of authors and editors in CAB ABSTRACTS appear surname first, followed by initials. The names of all authors (up to 100) of a multi-authored publication may be searched and will appear in a record.</p> <p>Asian names may appear in the database with initials or spelled out in full. It is advisable to search for Asian names by surname, followed by initial.</p> | <p>For complete retrieval, truncate after the first initial whenever possible:</p> <p><b>Alpert J</b> retrieves<br/>Alpert J<br/>Alpert J.E.<br/>Alpert J.S.</p> <p><b>Xu C*</b> retrieves:<br/>Xu C.C.<br/>Xu CuiLing<br/>Xu ChengKai</p>   |
| <b>Source Publication</b>  | <p>Enter the full title or truncate. To be comprehensive as well as accurate in searching by source title, consult the list of publications. You can cut a title from this list and paste it in the field box. If you want to search for multiple titles, separate the titles by the operator OR.</p>   | <p>Enter <b>responsible marine aqua*</b> to retrieve items from the journal <i>Responsible Marine Aquaculture</i>.</p>   |
| <b>Address</b>             | <p>CAB ABSTRACTS includes the address of the first author or the corporate author. In general, only one address appears in the Address field of a record.</p>   | <p>Enter <b>(lsu or louisiana state univ*) same health</b> to retrieve records related to the Louisiana State University Health Science Center.</p>  |
| <b>CABICODES</b>           | <p>CABICODES are classification codes that indicate the broad subject areas addressed by source documents. Each code is accompanied by a name. Click the CABICODE list link on the Search page to go to the list of CABICODES where you can search for CABICODES and select them for your search</p>  | <p>For information on health care for patients in rural areas, use the CABICODE <b>VV550 Rural Health</b>.</p> <p>CABICODES can be truncated to include narrower concepts. Use <b>VV*</b> to retrieve records in VV000 Health and Human Hygiene (general) and all narrower headings.</p> |
| <b>CAS Registry Number</b> | <p>A CAS Registry Number® is a unique numeric identifier assigned to a chemical substance in the CAS Registry database. In CAB ABSTRACTS, a Registry Number is automatically assigned to this field if the record has been indexed with a chemical term (Descriptors field), which has an associated Registry Number.</p>   | <p>To search for all records dealing with the chemical substances arsenic or lead, enter the CAS Registry Numbers, including the hyphens, connected by a Boolean operator:</p> <p><b>7440-38-2 or 7439-92-1</b></p>  |

# Contacting ISI

## Addresses

ISI 日本事務所  
トムソンコーポレーション株式会社  
東京都千代田区一ツ橋 1-1-1  
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## Technical Help Desks

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