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Girotra, N. N. (5)  
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The screenshot shows the ACS Publications search results page for the query 'terpenes'. The page includes a navigation bar at the top with links like 'Publications A-Z', 'Books', 'C&EN Archives', 'Authors & Reviewers', 'Librarians', 'ACS Members', 'Video', 'About Us', 'e-Alerts', and 'Help'. A 'Your Search' sidebar on the left lists applied filters: 'Title: terpenes', 'Content Type: Journal Article', and 'Collection: Terpenes and Terpenoids'. A 'Remove All Filters' button is visible at the bottom of this sidebar. The main content area shows a list of 13 results, with the first result being 'Inclusion of Terpenes by para-Acyl Calix[4]arenes' by Gaelle Ramon et al. Annotations with blue callouts point to the 'Show Search Tips' link and the 'Remove All Filters' button. A red arrow points to the 'View Abstracts' button in the result list.



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**Solid-State <sup>13</sup>C Chemical Shift Tensors in Terpenes. 3. Structural Characterization of Polymorphous Verbenol**

James K. Harper and David M. Grant \*  
Contribution from the Department of Chemistry,  
University of Utah, Salt Lake City, Utah 84112

*J. Am. Chem. Soc.*, 2000, 122 (15), pp 3708-3714  
DOI: 10.1021/ja9932378  
Publication Date (Web): March 30, 2000  
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Section: Terpenes and Terpenoids

**Abstract**

Solid-state NMR analyses demonstrate that verbenol is a mixture of polymorphic materials containing two distinct lattice types. The major crystalline component, characterized by X-ray, consists of three molecules per asymmetric unit. The minor form contains four molecules per asymmetric unit but crystals suitable for X-ray analysis are unavailable. The minor polymorph is metastable and may be converted to the major form by melting and cooling to resolidify. Experimental and ab initio computed chemical shift tensors are compared to demonstrate that most of the structural variations in both polymorphs arise from differences

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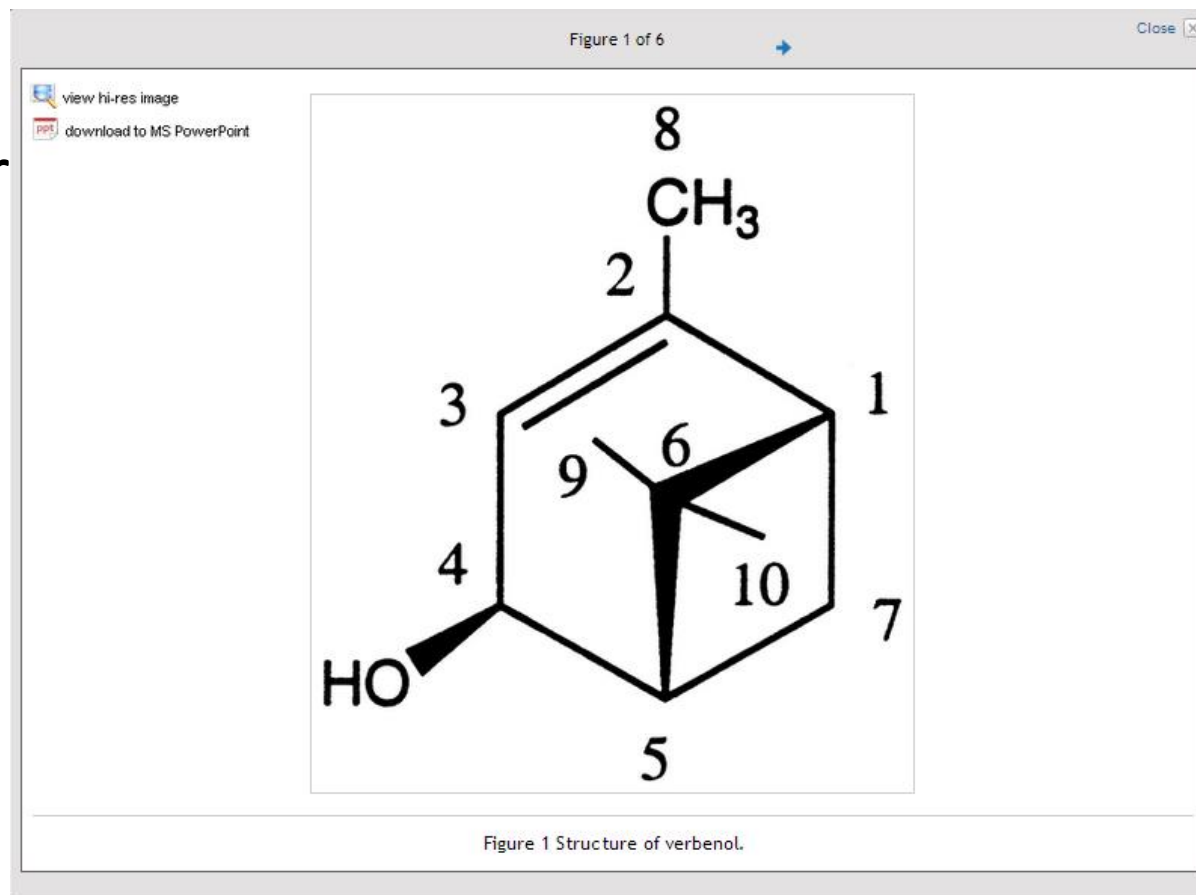
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James K. Harper




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(1) [Bernstein, J.](#) In *Organic Crystal Chemistry*; Garbarczyk, J. B., Jones, D. W., Eds.; International Union of Crystallography, Oxford University Press: Oxford, UK, 1991. ^

(2) [McCrone, W. C.](#) In *Physics and Chemistry of the Organic Solid-State*; Fox, D., Labes, M. M., Weissberger, A., Eds.; Interscience: New York, 1965; Vol. 2, p 725.

(3) (a) [Raghaven, K.](#); [Dwivedi, A.](#); [Campbel, G. C.](#); [Johnston, E.](#); [Levorse, D.](#); [McCauley, J.](#); [Hussain, M.](#) *Pharm. Res.* 1993, 10, 900. [\[CrossRef\]](#), [\[PubMed\]](#)

(b) [Zhu, H.](#); [Padden, B. E.](#); [Munson, E. J.](#); [Grant, D. J. W.](#) *J. Pharm. Sci.* 1997, 86, 418. [\[CrossRef\]](#), [\[PubMed\]](#), [\[CAS\]](#)

(c) [Harris, R. K.](#); [Kenwright, A. M.](#); [Say, B. J.](#); [Yeung, R. R.](#) *Spectrochim. Acta* 1990, 46A, 927. [\[CAS\]](#)

(d) [Fletton, R. A.](#); [Lancaster, R. W.](#); [Harris, R. K.](#); [Kenwright, A. M.](#); [Packer, K. J.](#); [Waters, D. N.](#); [Yeadon, A. J.](#) *Chem. Soc.*, v

The screenshot shows the JACS journal article page for "Solid-State <sup>13</sup>C Chemical Shift Tensors in Terpenes. 3. Structural Characterization of Polymorphous Verbenol". The page includes the journal title, author information, abstract, and a sidebar with various tools and links. Annotations highlight specific features:

- Tools section:** A blue callout box points to the "Tools" sidebar, which includes options like "Add to Favorites", "Download Citations", "Email a Collection", "Permalink", "Order Reprints", "Rights & Permissions", and "Citation Alerts".
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dihedral angles near either 60° or 180°. Previous studies on similar compounds show that such a lattice could consist of either a ring or a continuous repeating helical structure.

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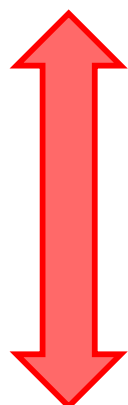
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general method for... complicated by... polymorphism...  
change... conformation... frequency of occurrence of...  
and one author has stated "every compound has different polymorphic forms...and the number of forms known for a given compound is proportional to the time spent in research on that compound".<sup>2</sup> Most X-ray and solid-state NMR studies tend to focus only on a single polymorphic form.<sup>3</sup>

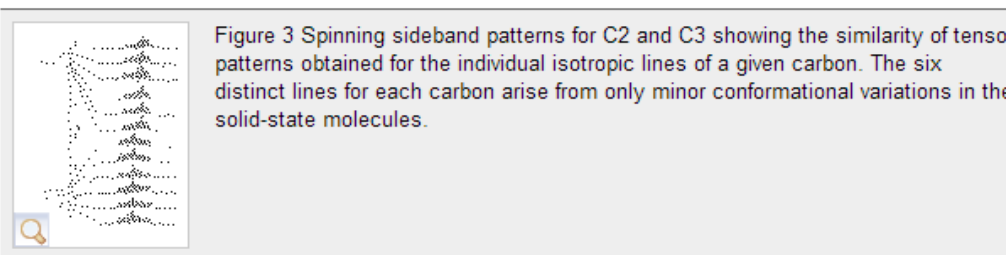
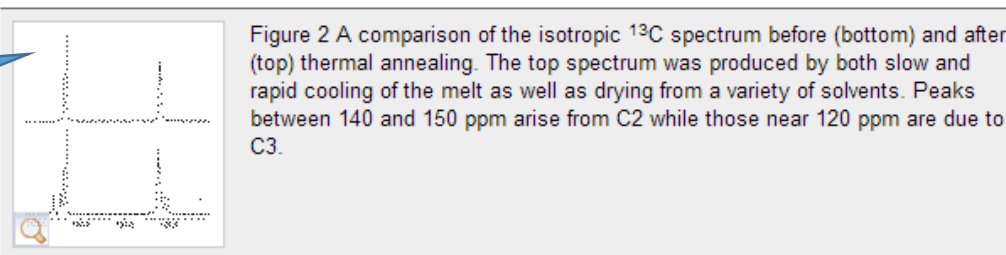
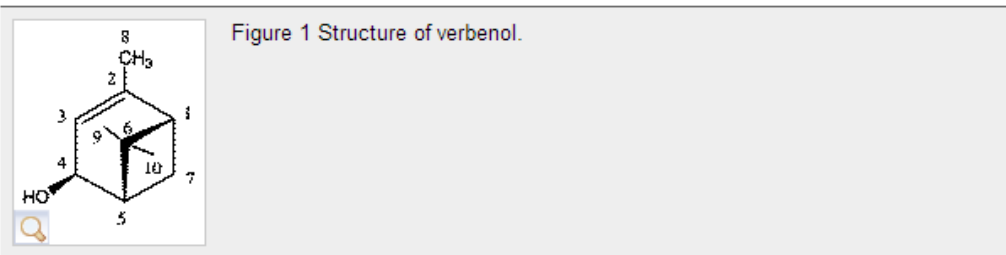
Interestingly, many molecular solids are composed of multiple conformations of similar energies. These conformational isomers form either multiple conformationally distinct lattice types in a solid mixture or crystallize with two or more conformations within a single unit cell. This latter case yields single crystals containing multiple molecules in the asymmetric unit. Such crystals are readily characterized by diffraction methods. It has been determined that 8.3% of all compounds<sup>4</sup> and 40% of alcohol crystals<sup>5</sup> in the Cambridge database have more than one molecule in the asymmetric unit. However, even the availability of a X-ray structure from a single crystallite is no guarantee that the bulk solid does not contain a mixture of polymorphic forms. Crystallographers typically select the best crystal from a mix and thus may choose only one representative of a set of mixed crystallites. Evidence for this proposal is found in solid 1,3,5-triamino-2,4,6-trinitrobenzene. The published crystal structure is centrosymmetric but the bulk solid exhibits second-order harmonic generation, a property of noncentrosymmetric solids.<sup>6</sup> One explanation is that the crystal used in diffraction was atypical of the bulk solid.



## Figures

See the  
image with  
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patterns for the 2  $sp^2$  carbons, C2 and C3.



The narrow isotropic lines support the view that verbenol is composed of a mixture of different crystalline forms rather than an amorphous mixture. This position is further strengthened by



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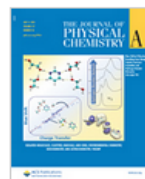
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### Solid-State NMR Characterization of the Molecular Conformation in Disordered Methyl $\alpha$ -L-Rhamnofuranoside

James K. Harper, Derek Tishler, David Richardson, John Lokvam, Robert Pendrill, and Göran Widmalm

*The Journal of Physical Chemistry A*

2013 117 (26), 5534-5541



### Influence of Structure on the Spectroscopic Properties of the Polymorphs of Piroxicam

Wei Liu, Wei David Wang, Wei Wang, Shi Bai, and Cecil Dybowski

*The Journal of Physical Chemistry B*

2010 114 (49), 16641-16649



### Powder Crystallography by Combined Crystal Structure Prediction and High-Resolution $^1\text{H}$ Solid-State NMR Spectroscopy

Elodie Salager, Graeme M. Day, Robin S. Stein, Chris J. Pickard, Bénédicte Elena and Lyndon Emsley

*Journal of the American Chemical Society*

2010 132 (8), 2564-2566

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- "Search by title of the book" points to the "Search for Book Title:" input field.

The main content area displays search results for the year 2013, showing "Showing results 1-15 of 15". The first result is "Developments in Biotechnology and Bioprocessing" by Anne Kantardjieff, Prashanth Asuri, Jonathan L. Coffman, and Karthik Jayapal. The result includes the volume number (1125), the publication date (March 8, 2013), and the ISBN, eISBN, and DOI.

On the right side, there is a section titled "The ACS Symposium Series Online" with a "View the Demo" button and a "Demo in Chinese" link.

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### ACS Chemical Neuroscience – Editor Video

Interview with Founding Editor-in-Chief Craig W. Lindsley of Vanderbilt University when *ACS Chemical Neuroscience* is first introduced to the scientific community. Lindsley discusses the scope



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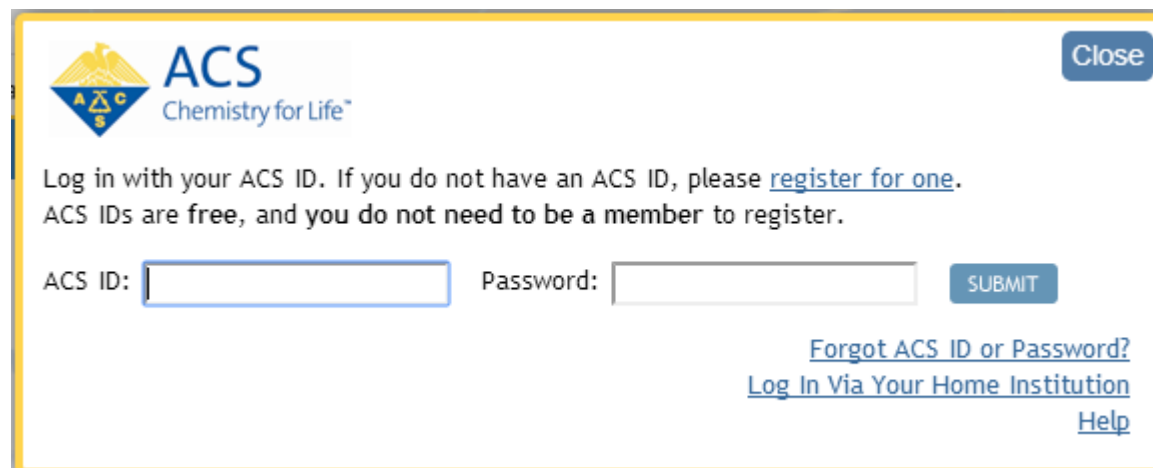
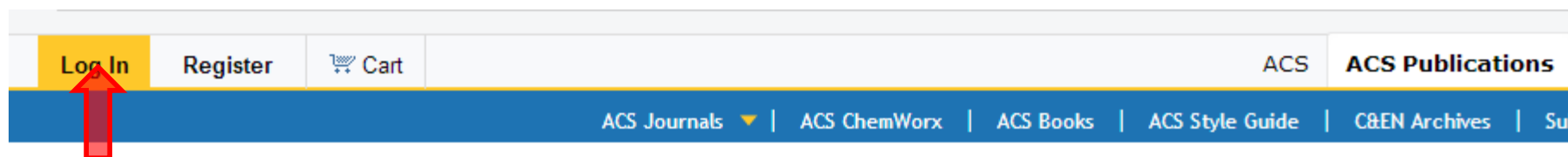
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# The use of BioOne for scientific research



# What is BioOne?

It is an innovative association between **libraries and publishers** created to offer access to critical and arbitrated research in bioscience at an efficient cost

It is a **full-text** database

Areas of knowledge: **Biology, Ecology and Environment**



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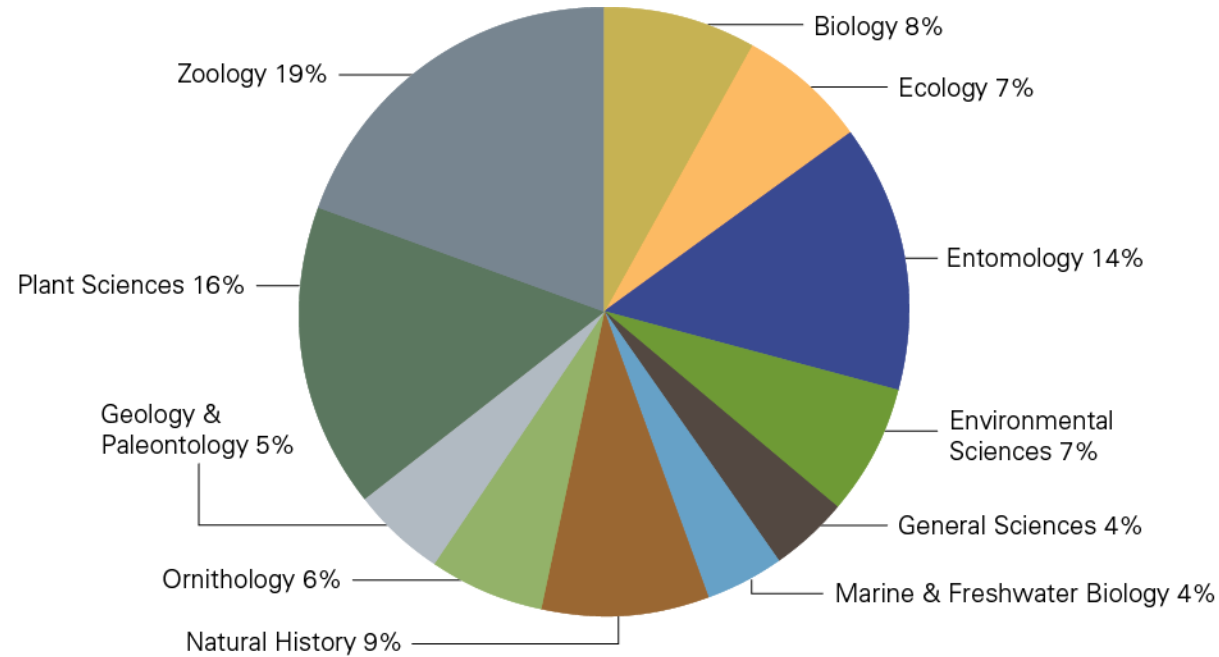
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# BioOne at a glance

**179 titles of 135 non-profit publishing companies and publishers**



# BioOne at a glance

13 Open Access publications from 9 nonprofit publishers



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# BioOne at a glance

**61** Titles available exclusively online through BioOne





# BioOne at a glance

41 titles outside the United States



# BioOne at a glance

72% of the titles are in the impact factor ISI in many of the core themes of BioOne, including :

**Conservation of Biodiversity** - 9 BioOne titles of the 33 listed (27.3%)

**Ecology**- 23 BioOne titles out of the 129 listed (17%)

**Entomology**- 21 titles of BioOne titles of the 83 listed (25.3%)

**Silviculture**- 5 BioOne titles out of the 54 listed (9.3%)

**Marine & Freshwater Biology**- 6 BioOne titles from the 92 listed (6.5%)

**Ornithology**- 8 BioOne titles out of the 19 listed (42.1%)

**Paleontology**- 11 BioOne titles out of the 48 listed (22.9%)

**Plant Sciences** - 20 BioOne titles out of the 187 listed (10.7%)

**Zoology** - 25 BioOne titles out of the 145 listed (17.2%)

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## Navigation in BioOne



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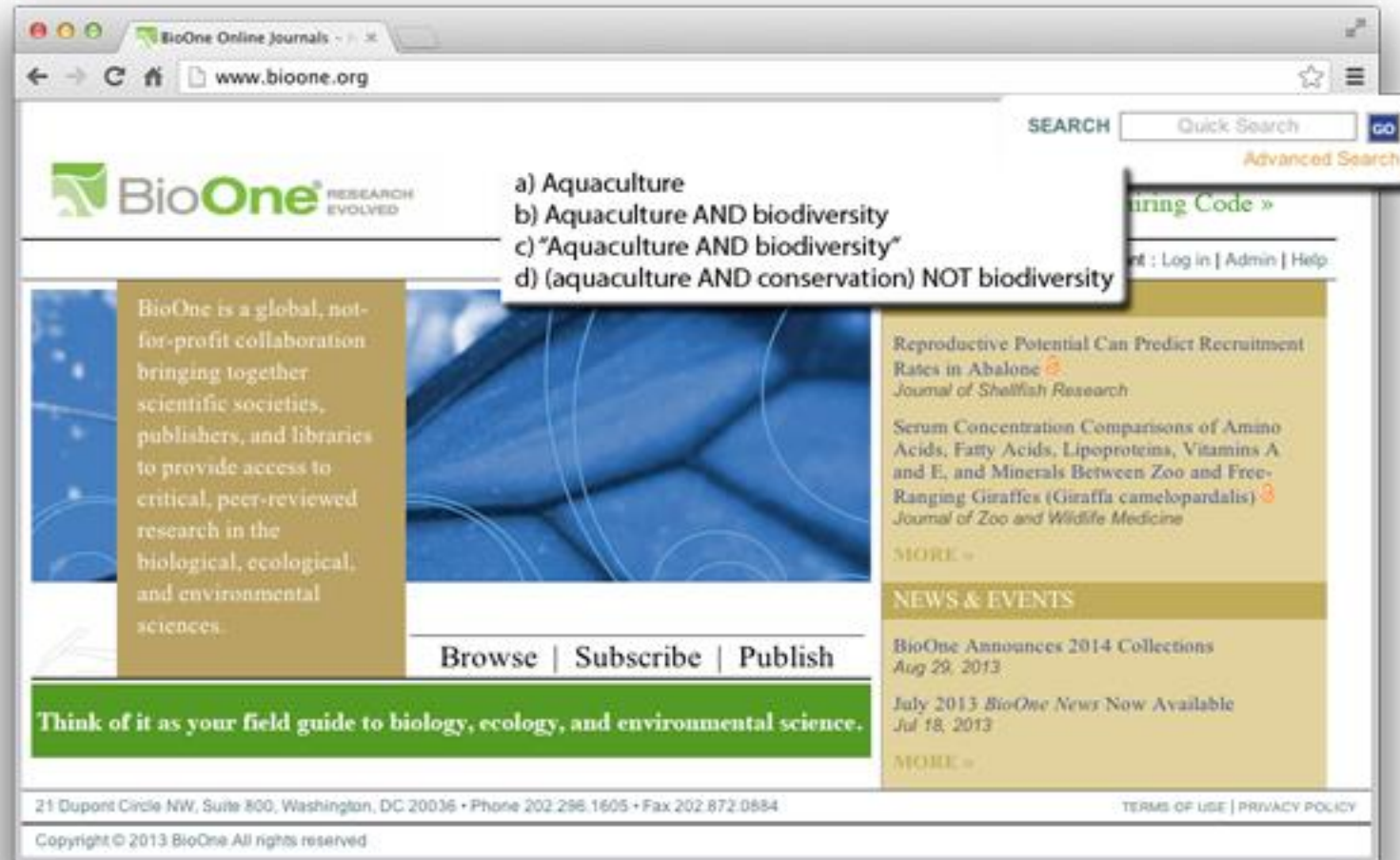
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# Navigation in BioOne - Simple search



The screenshot shows the BioOne website interface. At the top right, there is a search bar with the text "Quick Search" and a "GO" button. Below the search bar, a dropdown menu is open, displaying the following options:

- a) Aquaculture
- b) Aquaculture AND biodiversity
- c) "Aquaculture AND biodiversity"
- d) (aquaculture AND conservation) NOT biodiversity

The website header includes the BioOne logo and the tagline "RESEARCH EVOLVED". Below the header, there is a navigation menu with links for "Home", "About", "Contact Us", "Help", "Log in", "Admin", and "Help". The main content area features a large blue banner with the text "BioOne is a global, not-for-profit collaboration bringing together scientific societies, publishers, and libraries to provide access to critical, peer-reviewed research in the biological, ecological, and environmental sciences." Below the banner, there are links for "Browse", "Subscribe", and "Publish". The footer contains the address "21 Dupont Circle NW, Suite 800, Washington, DC 20036", phone and fax numbers, and copyright information for 2013.

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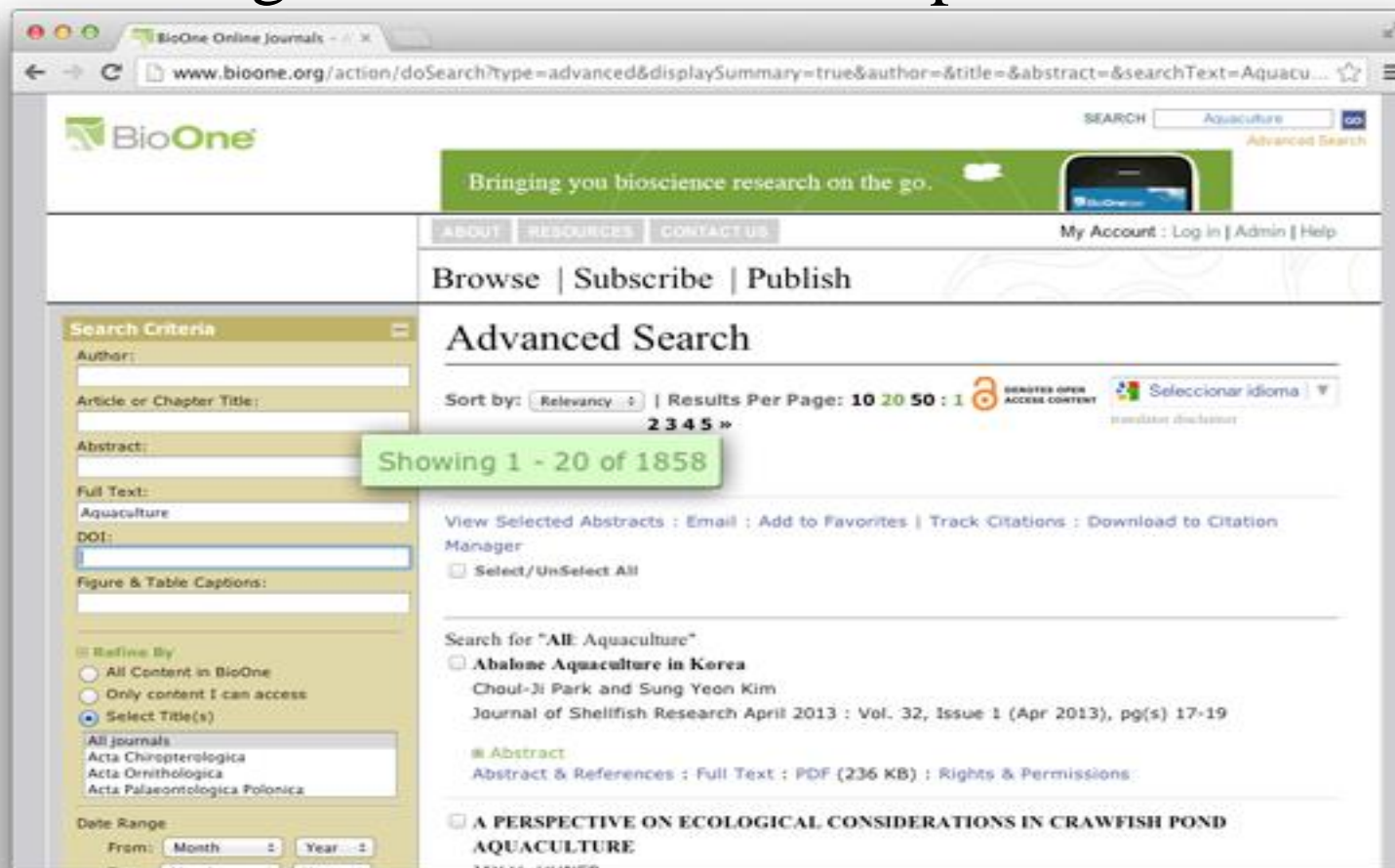
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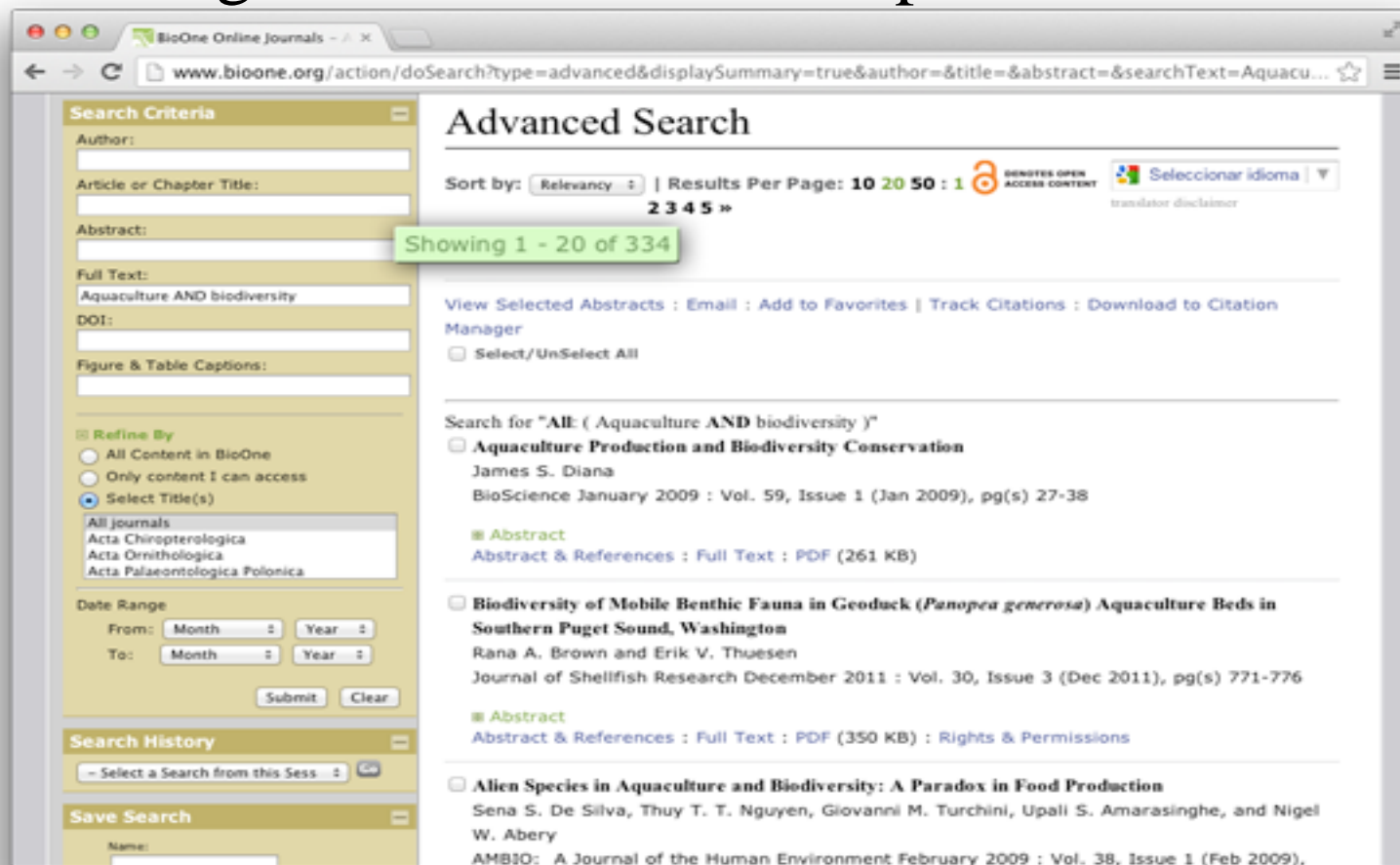
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# Navigation in BioOne - Simple search



# Navigation in BioOne - Simple search




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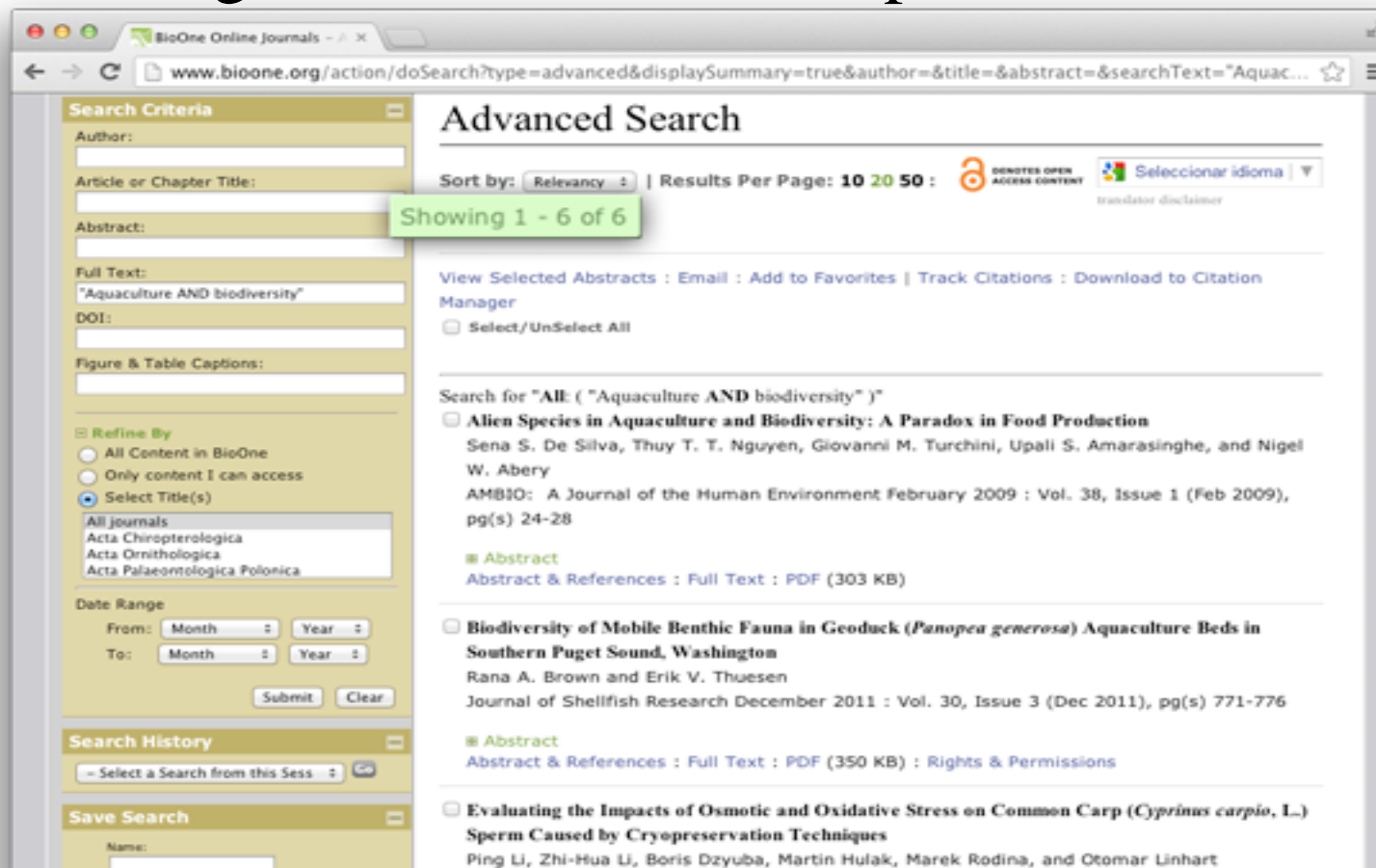
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# Navigation in BioOne - Simple search



The screenshot shows the BioOne Advanced Search page. The search criteria on the left include: Author, Article or Chapter Title, Abstract, Full Text ("Aquaculture AND biodiversity"), DOI, and Figure & Table Captions. The search results on the right are sorted by Relevancy, showing 1-6 of 6 results. The first result is "Alien Species in Aquaculture and Biodiversity: A Paradox in Food Production" by Sena S. De Silva, Thuy T. T. Nguyen, Giovanni M. Turchini, Upali S. Amarasinghe, and Nigel W. Abery, published in AMBIO: A Journal of the Human Environment in February 2009. The second result is "Biodiversity of Mobile Benthic Fauna in Geoduck (*Panopea generosa*) Aquaculture Beds in Southern Puget Sound, Washington" by Rana A. Brown and Erik V. Thuesen, published in the Journal of Shellfish Research in December 2011. The third result is "Evaluating the Impacts of Osmotic and Oxidative Stress on Common Carp (*Cyprinus carpio*, L.) Sperm Caused by Cryopreservation Techniques" by Ping Li, Zhi-Hua Li, Boris Dzyuba, Martin Hulak, Marek Rodina, and Otomar Linhart.



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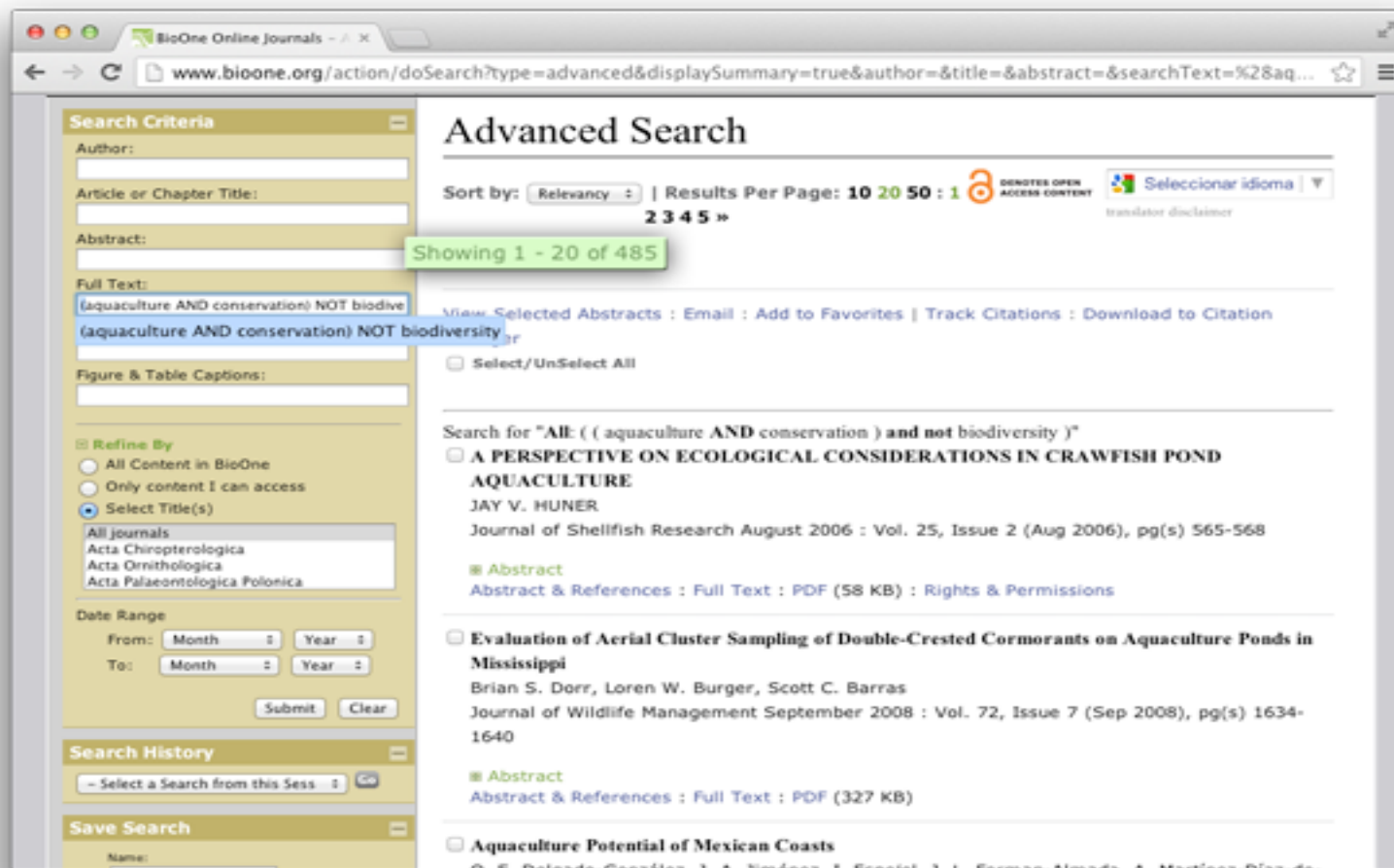
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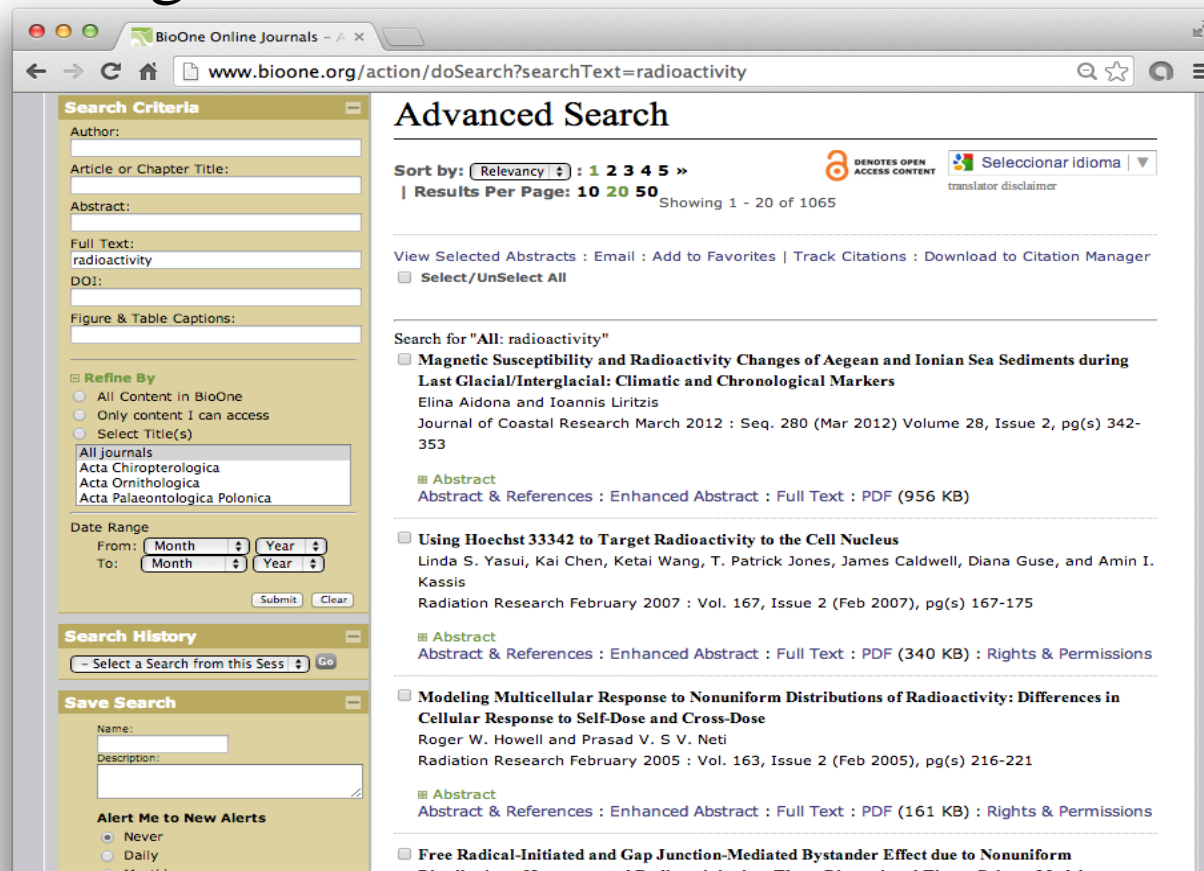
# Navigation in BioOne - Simple search



The screenshot shows the BioOne Advanced Search page. On the left is a 'Search Criteria' sidebar with fields for Author, Article or Chapter Title, Abstract, and Full Text. The 'Full Text' field contains the search query: '(aquaculture AND conservation) NOT biodive (aquaculture AND conservation) NOT biodiversity'. Below this are 'Refine By' options and a 'Date Range' section. The main area is titled 'Advanced Search' and shows 'Showing 1 - 20 of 485' results. The first result is 'A PERSPECTIVE ON ECOLOGICAL CONSIDERATIONS IN CRAWFISH POND AQUACULTURE' by JAY V. HUNER. The second result is 'Evaluation of Aerial Cluster Sampling of Double-Crested Cormorants on Aquaculture Ponds in Mississippi' by Brian S. Dorr, Loren W. Burger, and Scott C. Barras. The third result is 'Aquaculture Potential of Mexican Coasts'.



# Navigation in BioOne - Advanced search



The screenshot shows the BioOne Advanced Search page. The search criteria on the left include fields for Author, Article or Chapter Title, Abstract, Full Text, DOI, and Figure & Table Captions. The search term 'radioactivity' is entered in the Full Text field. The 'Refine By' section allows filtering by content type and journal. The search history and save search options are also visible. The main search results area displays a list of articles, including 'Magnetic Susceptibility and Radioactivity Changes of Aegean and Ionian Sea Sediments during Last Glacial/Interglacial: Climatic and Chronological Markers' by Elina Aidona and Ioannis Liritzis, and 'Using Hoechst 33342 to Target Radioactivity to the Cell Nucleus' by Linda S. Yasui et al.



# Navigation in BioOne - Advanced search



The screenshot shows the BioOne Advanced Search interface. On the left, there are search criteria fields for Author, Article or Chapter Title, Abstract, Full Text, DOI, and Figure & Table Captions. Below these is a 'Refine By' section with radio buttons for 'All Content in BioOne', 'Only content I can access', and 'Select Title(s)'. A dropdown menu for 'All journals' is open, showing 'Acta Chiropterologica', 'Acta Ornithologica', and 'Acta Palaeontologica Polonica'. A 'Date Range' section has 'From' and 'To' fields with month and year dropdowns. A 'Search History' section is also visible, showing a list of previous searches.

The main search results area is titled 'Advanced Search' and shows 'Sort by: Relevancy' and 'Results Per Page: 10 20 50'. It displays a list of search results, including:

- Application of Optical Imaging and Spectroscopy to Radiation Biology** by Gregory M. Palmer, Karthik Vishwanath and Mark W. Dewhirst. Radiation Research April 2012 : Vol. 177, Issue 4 (Apr 2012), pg(s) 365-375. Includes links for Abstract, Full Text, PDF, and Rights & Permissions.
- Experimental Research on the Management of Combined Radiation-Burn Injury in China** by Xin-Ze Ran, Chun-Meng Shi, Hual-En Zheng, Yong-Ping Su, and Tian-Min Cheng. Radiation Research March 2011 : Vol. 175, Issue 3 (Mar 2011), pg(s) 382-389. Includes links for Abstract, Full Text, PDF, and Rights & Permissions.
- Nanoscintillator Conjugates as Photodynamic Therapy-Based Radiosensitizers: Calculation of Required Physical Parameters** by Nicole Y. Morgan, Gabriela Kramer-Marek, Paul D. Smith, Kevin Camphausen, and Jacek Capala. Radiation Research February 2009 : Vol. 171, Issue 2 (Feb 2009), pg(s) 236-244.

A search history dropdown menu is open, showing the following options:

- ✓ - Select a Search from this Session -
- nanoparticles (94)
- nanoparticles AND Radiation (38)
- (nanoparticles AND Radiation) NOT DNA (14)



# Navigation in BioOne - Advanced search

**Save Search**

Name:

Description:

**Alert Me to New Alerts**

Never

Daily

Monthly

Weekly

 **RSS**

**What's this?** You can receive an email alert when new articles match this search.

[View Saved Searches](#)

**Abstract & References : Full Text : PDF (120 KB) : Rights & Permissions**

**A Realistic Utilization of Nanotechnology in Molecular Imaging and Targeted Radiotherapy of Solid Tumors**  
Vivek Patel, Rao V. L. Papineni, Seema Gupta, Radka Stoyanova and Mansoor M. Ahmed  
Radiation Research April 2012 : Vol. 177, Issue 4 (Apr 2012), pg(s) 483-495

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**Improvement of Radiation Resistance and an Estimate of Solvated Electron Yield of the Ionic Liquid [Bmim]Cl by the Addition of FeCl<sub>3</sub>**  
Wei Huang, Shimou Chen, Haiying Fu, and Guozhong Wu  
Radiation Research November 2010 : Vol. 174, Issue 5 (Nov 2010), pg(s) 650-657

**Abstract**  
Abstract & References : Full Text : PDF (5034 KB) : Rights & Permissions

**Photocatalytic Coatings for Environmental Applications**  
Norman S. Allen, Michele Edge, Gonzalo Sandoval, Jo Verran, John Stratton, and Julie Maltby

**Search Criteria**

Author:

Article or Chapter Title:

Abstract:

Full Text:

**(nanoparticles AND Radiation) NOT DNA**

DOI:

Figure & Table Captions:



# Navigation in BioOne - Inside a paper



The screenshot shows the BioOne website's advanced search interface. The search criteria are: (nanoparticles AND radiation) NOT DNA. The search results are sorted by Relevance, showing 1-14 of 14 results. The interface includes a search criteria sidebar, a search history section, and a list of search results with options to view abstracts, full text, and PDFs. Numbered callouts (1-8) highlight specific navigation elements: 1 points to the 'Submit' button, 2 to the 'Sort by' dropdown, 3 to the 'View Selected Abstracts' button, 4 to the 'Email' button, 5 to the 'Add to Favorites' button, 6 to the 'Track Citations' button, 7 to the 'Download to Citation Manager' button, and 8 to the 'Select/Unselect All' button.

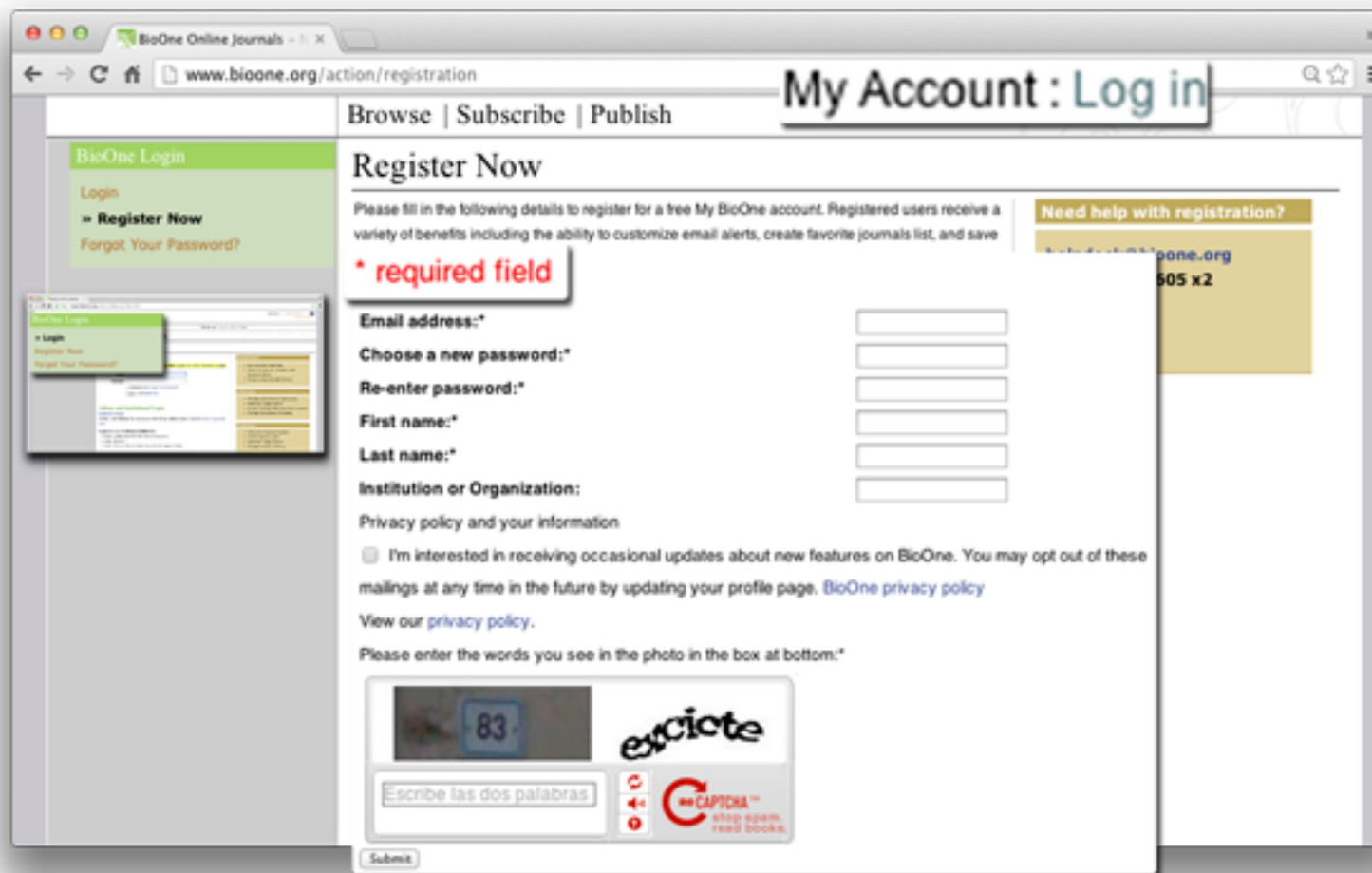
# Navigation in BioOne - Inside a paper

The screenshot shows a web browser displaying a journal article page from BioOne. The page title is "Application of Optical Imaging and Spectroscopy to Radiation Biology" from the journal "Radiation Research". The page is annotated with nine numbered callouts (1-9) pointing to various navigation and content elements:

- 1:** Points to the article title.
- 2:** Points to the journal's metadata sidebar (ISSN, frequency, etc.).
- 3:** Points to the "Table of Contents" sidebar.
- 4:** Points to the "Article View" sidebar options (Full Text, PDF).
- 5:** Points to the "Article Components" sidebar.
- 6:** Points to the abstract text.
- 7:** Points to the "Share" button.
- 8:** Points to the "Article Tools" sidebar.
- 9:** Points to the "Citing Articles" sidebar.

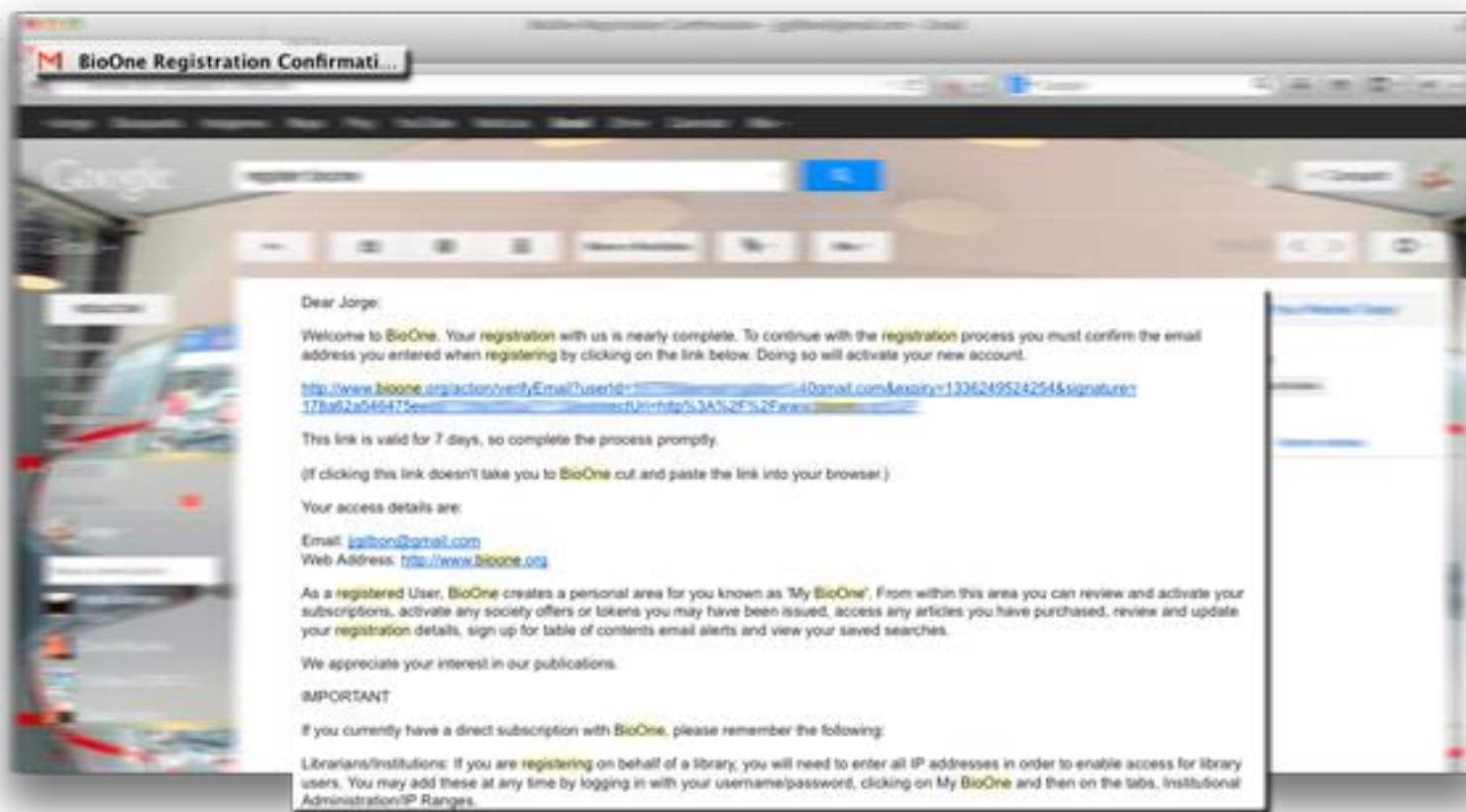


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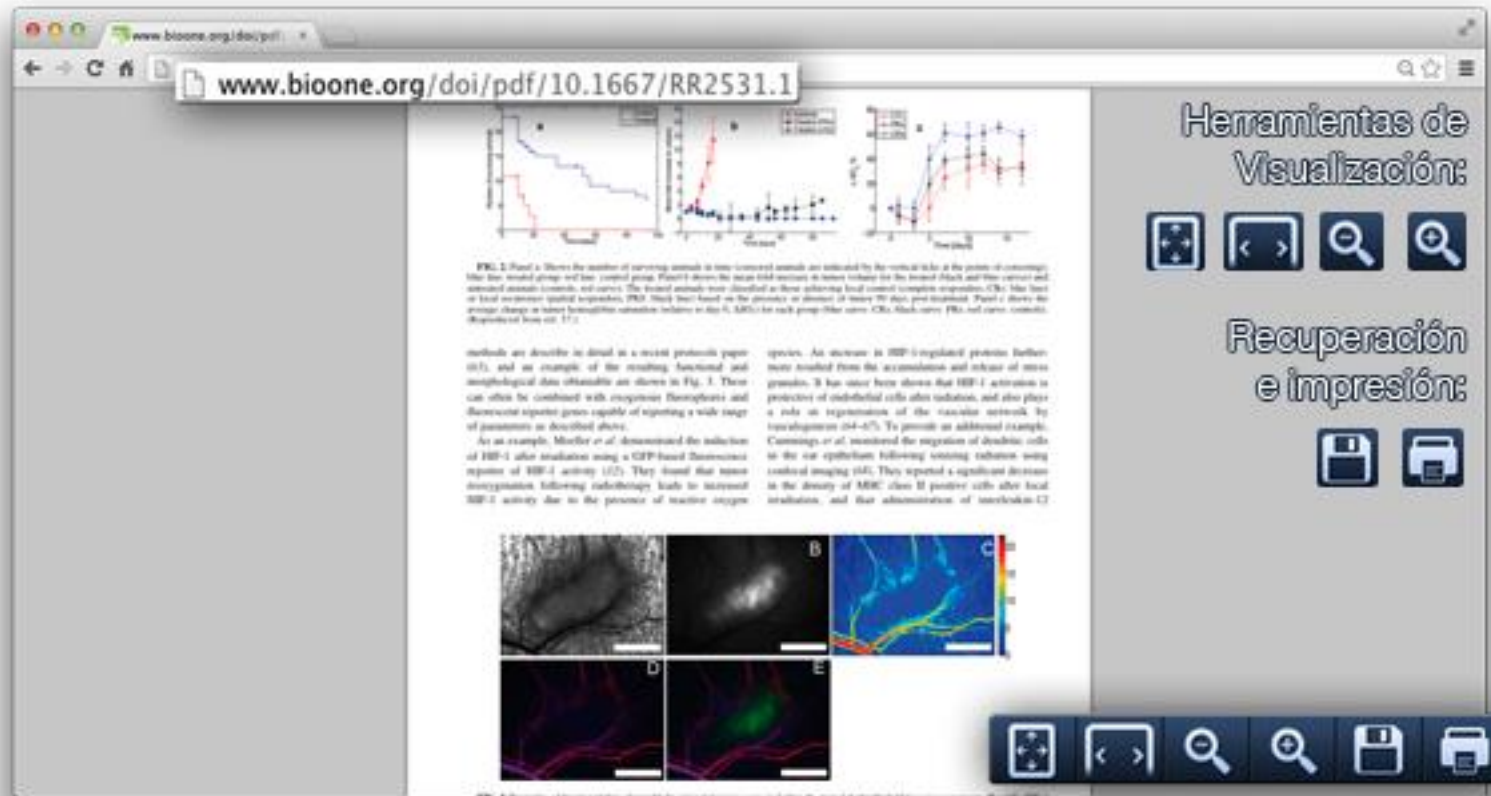
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# Navigation in BioOne - Inside a paper



# Search & Results in BioOne



## Quick search using keywords from your search topic

Literal phrases

Boolean operators

Parenthesis

Wildcards

Proximity

Approximate search

Plurals and Derivations



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# Literal phrases

Use quotation marks in the search for documents that contain an exact word or phrase

”salt marsh”



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# Boolean operators AND, OR, NOT

**AND** look for documents that have both words

It is not necessary to use **AND**, is it applied automatically in all basic search?

Biodiversity **AND** salt marsh = biodiversity salt marsh

**OR** look for documents that contain at least one of the two terms

Biodiversity **OR** salt marsh

find documents that contain only biodiversity

find documents that contain only brackish water marsh, and

find documents that contain both biodiversity and brackish water marsh

**NOT** look for documents that do not contain the given term

biodiversity **NOT** salt marsh

Find documents that contain biodiversity but **NOT** brackish water marsh

## Parenthesis

Use parentheses to group Boolean terms and operators

The expressions inside the parentheses are evaluated first.

“salt marsh” **AND** (biodiversity **OR** “species diversity”)

Find documents that contain biodiversity **OR** "species diversity" **AND** "saltwater marsh"

Without parentheses the results are documents that contain both "brackish water marsh" **AND** biodiversity **OR** documents that contain "diversity of species"

# Plurals and Derivations

Keyword search automatically uses plurals and derivations

no special characters are required

find either the singular or plural of the term

The derivation finds terms with similar beginnings but different suffixes

Not automatic for Literal Phrases

**Plurals** - add the symbol & "Diversity &" = diversity and diversities

**Derivations** - add the symbol # "Marsh #" = marsh, marshes, and marshland



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# Wildcards

Build searches with partial search terms

? Tie any character

l?st = **last**, **lest**, **list**, etc.

200? = 2000 to 2009

\* Ties to zero or more characters

duoden\* = duoden**al**, duoden**ectomy**, etc.

p\*diatric = pediatric, paediatric, etc.

Wild cards can not be used in certain circumstances

At the beginning of a term, an error is generated

In a literal phrase they are ignored

# Approximate Search

To build a search that includes a term that may have different spellings, use the tilde ~  
dostoyevsky~ return to the document that contains the variants dostoevsky, dostoievski, etc.



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# Advanced Search Strategies



## Advanced search with other criteria with Advanced Search

The Advanced Search link appears below the quick search section in the upper right corner of each page of the BioOne site

The criteria search options are found in the left column of the Advanced Search page AND the page of Your Search Results



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# Search Options by Criterion

**Author:** will search both the name and surname of the author of the paper (does not use neither derivations nor plurals)

## Paper or Chapter Title

**Abstract :** look in the text of the paper or chapter summary

**Text complete :** look for text that is anywhere in the paper or chapter

**DOI:** DOI, or digital object identifier, is a unique and permanent thread of characters assigned for the identification of online content

**Captures of Figures and Tables:** look for any screenshots associated with images, figures and tables in the paper

# Search Options by Criterion

## Refine by Select Title (s)

Designate if the results obtained should be limited to one or more BioOne publications

Press the CNTRL or COMMAND key to select multiple titles

## Refine by Date Range

Limit your search to papers published between certain dates or years

From selections of month and year indicates how far back you want the search to be made

To month and year selections will not search for the most recent publication dates to your selection

# History search

All searches for your current session appear in the menu that is displayed below the **Search History** section

To see the results of one of your searches use the list that is displayed and make a selection

!! consider that the list **ONLY** applies to your current session - exiting or closing the search will erase your search history from this list



# Investigator Functions & Tools





# Subscribe to obtain a BioOne Account

- Save Searches
- Table of Content Alerts
- Appointment alert
- Favorite Papers



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# More specialized functions

- Google Translation
- High Resolution Approach
- Search for Appointments
- Most cited papers
- Most read papers



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# SciFinder



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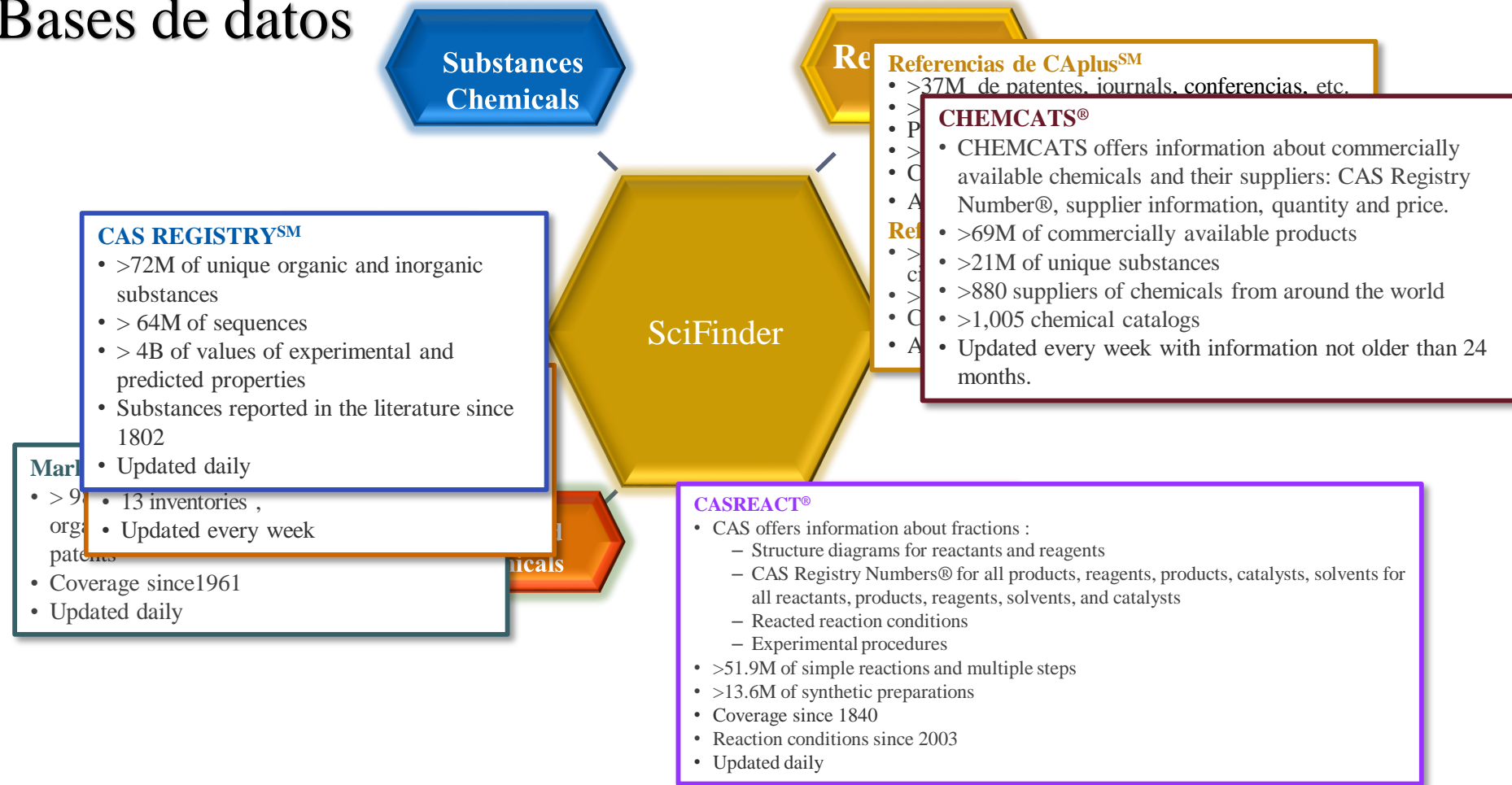
# SciFinder

CAS search tool that allows you to recover and analyze, from a single platform, the information of the different CAS databases.

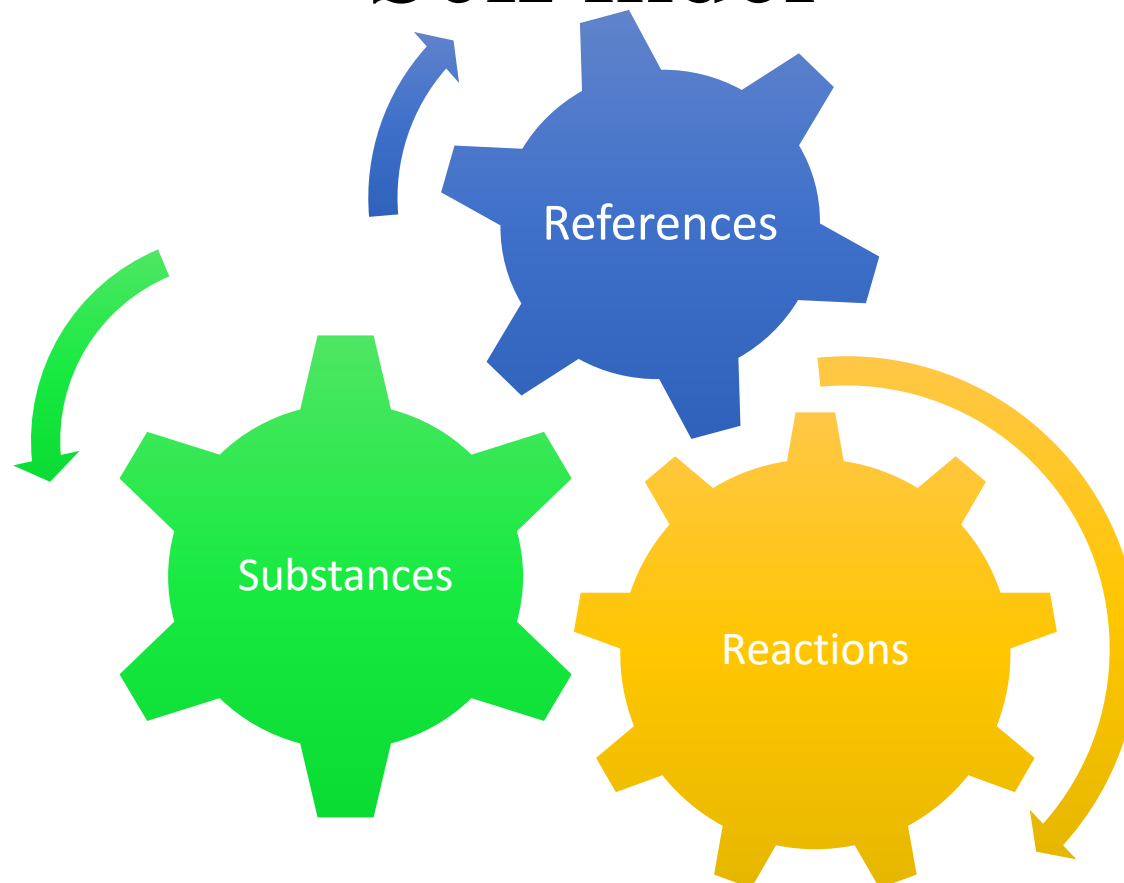
## Topics :

Chemistry	Nanotechnology
Physical	Pharmacy
biology	Textiles
Engineering	Nuclear Technology
Medicine	Toxicology
Agriculture	geology
materials	And many more..
Microbiology	

# Bases de datos



# SciFinder



# Demonstration on platform

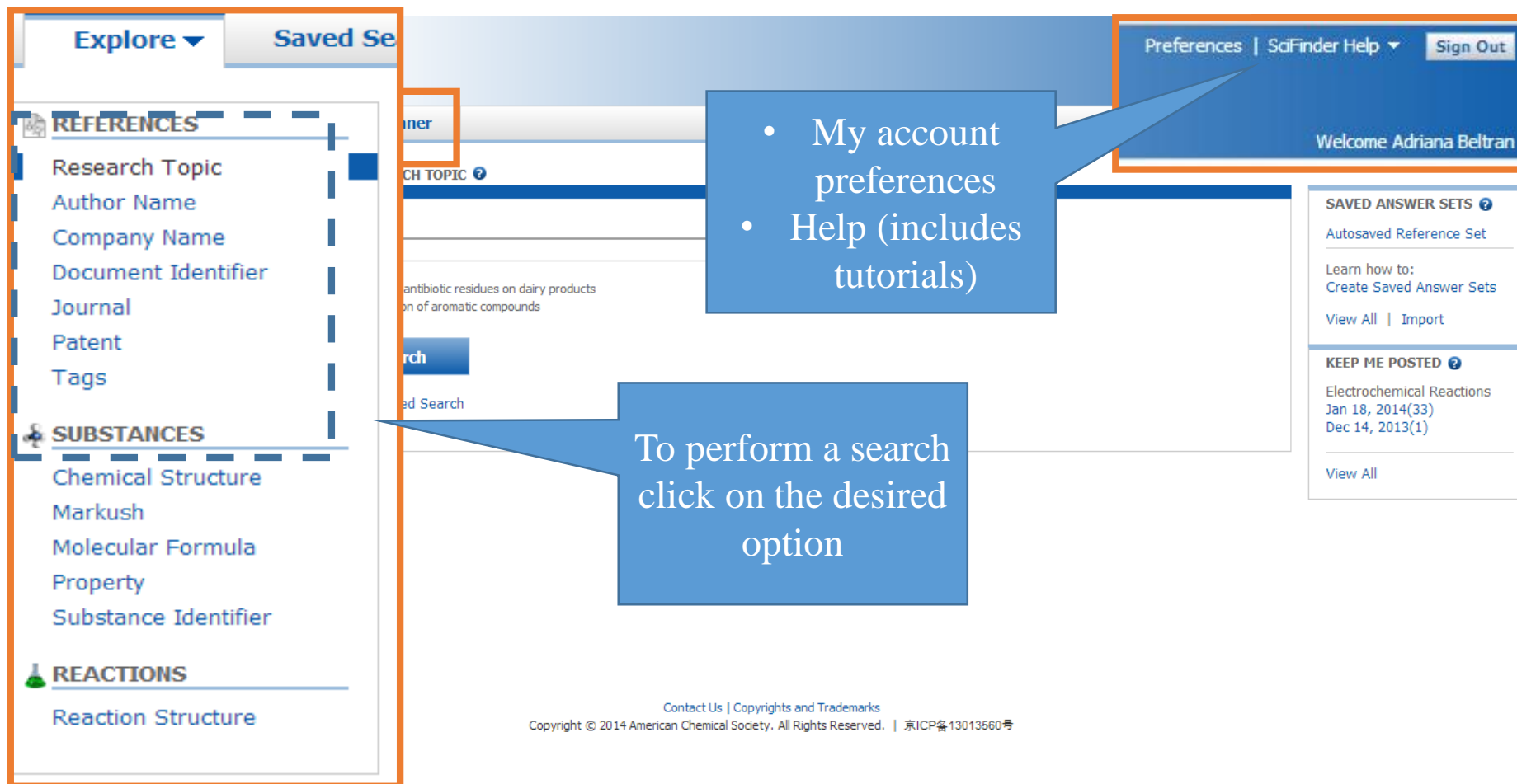
Go to <https://scifinder.cas.org/>

or <http://www.cas.org/>

or <http://www.conricyt.mx/index.htm>

Claves para capacitación (sólo si es necesario)

Login ID	Password
NBWEB100	043V820
NBWEB101	043V837
NBWEB102	043V853
NBWEB103	043V869
NBWEB104	043V886
NBWEB105	043V902
NBWEB106	043V919
NBWEB107	043V935
NBWEB108	043V951
NBWEB109	043V968
NBWEB110	043V984
NBWEB111	043V001
NBWEB112	043V017
NBWEB113	043V042
NBWEB114	043V058



The screenshot shows the SciFinder main interface. A left sidebar contains navigation menus for REFERENCES, SUBSTANCES, and REACTIONS. A top navigation bar includes 'Explore', 'Saved Sets', 'Preferences', 'SciFinder Help', and 'Sign Out'. A user welcome message 'Welcome Adriana Beltran' is visible. A search bar is present in the center. Callouts provide instructions: one points to the 'REFERENCES' menu with a list of search criteria; another points to the 'Preferences' and 'SciFinder Help' links, listing 'My account preferences' and 'Help (includes tutorials)'; a third points to the search bar with the instruction 'To perform a search click on the desired option'. A blue arrow in the bottom left corner points towards the left edge of the slide.

**REFERENCES**

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

**SUBSTANCES**

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

**REACTIONS**

- Reaction Structure

My account preferences

- Help (includes tutorials)

To perform a search click on the desired option

Preferences | SciFinder Help | Sign Out

Welcome Adriana Beltran

SAVED ANSWER SETS

Autosaved Reference Set

Learn how to:  
Create Saved Answer Sets

View All | Import

KEEP ME POSTED

Electrochemical Reactions  
Jan 18, 2014(33)  
Dec 14, 2013(1)

View All

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# Explore References

Topic

Author

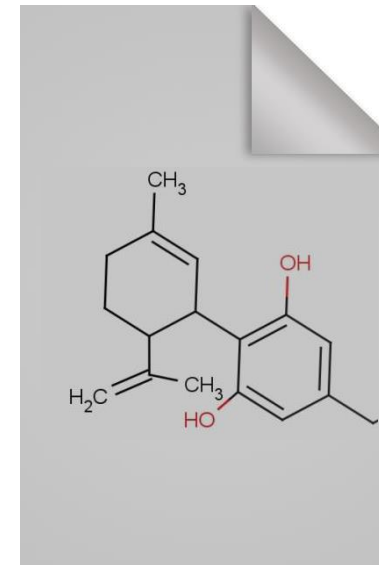
Company

Document identifier

Journal

Patent

Labels (personal)



# Explore References

The search interface allows the use of phrases (limit up to 5 words)

Parentheses can be used to indicate synonyms for a particular concept.

You can use "quotes" to find exact concepts.

Allows the use of Boolean operators: OR, AND, WITH, NOT

Use CAS RN in the search by subject

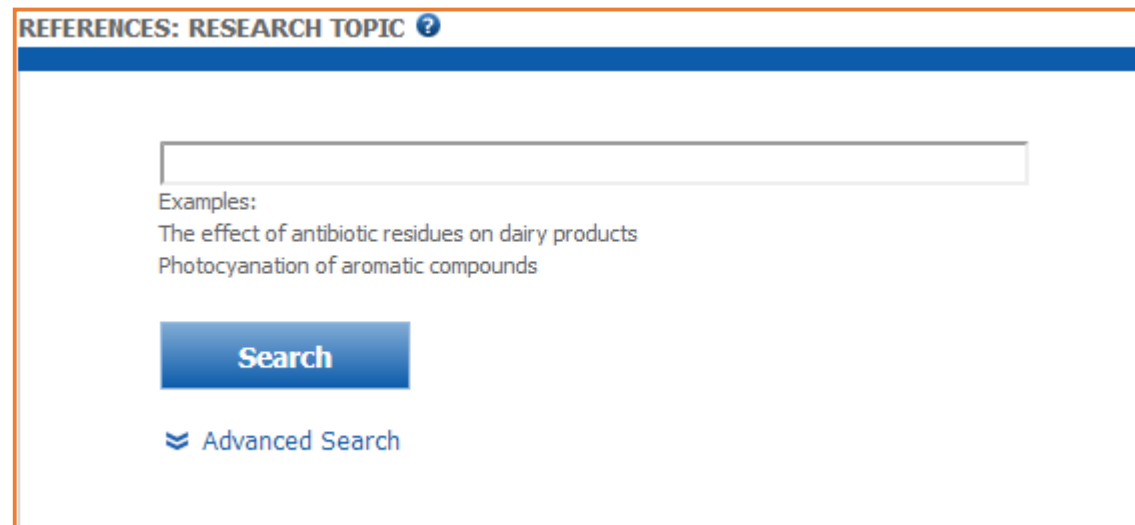
SciFinder has a Thesaurus and a thesaurus.



## SciFinder Smarts

Término de Búsqueda	Términos Asociados
Sinónimos incluyendo términos controlados	- Paracetamol, Acetaminofen
Formas alternativas	- Freeze, froze, frozen, freezing - Waste water, wastewater - Antibacteriano, anti-bacteriano
Formas con plural irregular	- Woman, women - Ox, oxen - Mice, mouse, mousse - Half life, half-life, halflife, halflives, half live, half lives, halflive, halflives
Abreviaciones de CAS	- Oxidation, Oxidn
Escritura Americana y Britanica	- Synthesize, synthesise
Regras de trucagem para recuperar palabras empezando por palabras de tronco comun	- Palabras terminadas en -tion con una raíz de por lo menos 5 letras son truncadas (depletion – deple?)- Palabras que contienen -able, -ed, -ing como sufijos son truncadas (solvable – solv?)- Palabras que contienen -e al final son truncadas (disease – diseas?)

Simple search by topic: write the term or phrase  
(booleans and symbols are not necessary)



REFERENCES: RESEARCH TOPIC ?

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

**Search**

[Advanced Search](#)

REFERENCES: RESEARCH TOPIC

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

Advanced Search  Always Show

---

Publication Years

Examples: 1995, 1995-1999, 1995-, -1995

Document Types

<input type="checkbox"/> Biography	<input type="checkbox"/> Historical
<input type="checkbox"/> Book	<input type="checkbox"/> Journal
<input type="checkbox"/> Clinical Trial	<input type="checkbox"/> Letter
<input type="checkbox"/> Commentary	<input type="checkbox"/> Patent
<input type="checkbox"/> Conference	<input type="checkbox"/> Preprint
<input type="checkbox"/> Dissertation	<input type="checkbox"/> Report
<input type="checkbox"/> Editorial	<input type="checkbox"/> Review

Languages

<input type="checkbox"/> Chinese	<input type="checkbox"/> Japanese
<input type="checkbox"/> English	<input type="checkbox"/> Polish
<input type="checkbox"/> French	<input type="checkbox"/> Russian
<input type="checkbox"/> German	<input type="checkbox"/> Spanish
<input type="checkbox"/> Italian	

Author

Last Name *	First	Middle
<input type="text"/>	<input type="text"/>	<input type="text"/>

Company

Examples:  
Minnesota Mining and Manufacturing  
DuPont

Only available for  
search by subject

Refine by:  
Year(s)  
Document type  
Language  
Author  
Company

# Explore References – Results

I have several options (depends on the search term):

- Exact phrase
- With both related concepts
- With both concepts anywhere in the reference
- Only the first concept
- Only the second concept

Select All Deselect All

0 of 5 Research Topic Candidates Selected

- 5 references were found containing "adverse effects of quinine" as entered.
- 107 references were found containing the two concepts "adverse" and "quinine" closely associated with one another.
- 1255 references were found containing the two concepts "adverse" and "quinine" were present anywhere in the reference.
- 1733853 references were found containing the two concepts "adverse" and "quinine" were present anywhere in the reference.
- 27906 references were found containing the two concepts "adverse" and "quinine" were present anywhere in the reference.

Get References

I select my preference and click on "Get References"

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# Explore References – Results page

Links to quick view and full text options

Document title

To go to the details click on i

I can save my search or export it in the following format:

- Pdf
- Txt
- Rtf

Sort results by:

- How they were admitted
- Author's name
- Publication date
- How many times has it been cited
- Title

Summary of the document (always in English)



## Tools

Analyze

Categorize

Refine

Save answers (full or partial)

Keep me posted (full or partial)

Send to SciPlanner

Get References, Substances, Reactions, Related  
Appointments.

Merge several searches



# Explore References – Detalles del documento

REFERENCE DETAIL Get Substances

[Return](#)

## 2. Artesunate versus quinine in the haemolysis

By: Rolling, Thierry; Wichmann, Dominic; Schmied

Background: Severe malaria is a potentially life-threatening disease with a high mortality rate. Several studies have been published recently. So far, delayed haemolysis has been reported at the University Medical Center Hamburg-Eppendorf in patients who received artesunate. As secondary end points, 16 patients contributed sufficient data to assess the effect of artesunate as an adjunct treatment - and five patients were treated with artesunate and three in patients treated with artesunate and quinine. The results showed that artesunate was superior to quinine in the prevention of delayed haemolysis (the picture shows the results of the study).

Indexing:

- Antimalarials
- Combination chemotherapy
- Plasmodium falciparum
- comparative anal. of adverse events in patients treated with artesunate and quinine in severe imported malaria with special focus on the prevention of delayed haemolysis
- Hemoglobins

### Citations

Anon; Centralized information system for infectious diseases (CISID). <http://data.euro.who.int/cisid/>

Anon; Infektionsepidemiologisches Jahrbuch meldepflichtiger Krankheiten für 2011-2012

Askling, H; Malar J 2012, 11, 328

Dondorp, A; Lancet 2005, 366, 717

Dondorp, A; Lancet 2010, 376, 1647

Sinclair, D; Cochrane Database Syst Rev 2012, 6, CD005967

Eder, M; Pathog Glob Health 2012, 106, 181

Anon; Leitlinie: Diagnostik und Therapie der Malaria, [http://www.awmf.org/uploads/tx\\_szleitlinien/015-0011 Leitlinie Diagnostik und Therapie der Malaria.pdf](http://www.awmf.org/uploads/tx_szleitlinien/015-0011 Leitlinie Diagnostik und Therapie der Malaria.pdf)

WHO, World Health Organization; Guidelines for the treatment of malaria, 2nd edition 2010

Cramer, J; Malar J 2011, 10, 256

Wolf, L; J Emerg Med 1992, 10, 295

AlKadi, H; Chemotherapy 2007, 53, 385

Caramello, P; J Antimicrob Chemother 2012, 67, 2053

Kreeftmeijer-Vegter, A; Malar J 2012, 11, 102

Rolling, T; Malar J 2012, 11, 169

Zoller, T; Emerg Infect Dis 2011, 17, 771

Anon; Rare disease (orphan) designations, [http://www.ema.europa.eu/docs/en\\_GB/document\\_library/Brochure/2011/03/WC500104234.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/Brochure/2011/03/WC500104234.pdf)

Anon; ATU nominative, protocole d'utilisation thérapeutique et de recueil d'informations, MalaceFW (artesunate) 60mg, poudre et solvant pour solution injectable, utilisation thérapeutique/Liste-des-specialitessoumises-a-un-protocole-d'utilisation-therapeutique/MALACEF-60-mgpoudre-et-solvant-pour-solution-injectable

Centres for Disease C, Prevention; MMWR Morb Mortal Wkly Rep 2013, 62, 5

Angus, B; Blood 1997, 90, 2037

Chotivanich, K; J Infect Dis 2000, 182, 629

Das, B; J Vector Borne Dis 2008, 45, 83

Campos, S; Kidney Int 2001, 59, 1044

Seguro, A; Am J Trop Med Hyg 2002, 67, 473

White, N; Lancet Infect Dis 2007, 7, 549

Sterns, R; Evaluation of the patient with hyponatremia 2013

Ellison, D; N Engl J Med 2007, 356, 2064

Hoorn, E; Malar J 2012, 11, 26

Holst, F; Am J Trop Med Hyg 1994, 50, 602

Akuthota, P; Clin Microbiol Rev 2012, 25, 649

Solomon, J; Semin Respir Crit Care Med 2006, 27, 192

Kohno, S; Jpn J Med 1990, 29, 248

Anon; Pneumotox v2.0, www.pneumotox.com

### Tags

0 Tags | [Edit Tags](#)

### Comments

0 Comments [Sort by:](#) [Newer First](#) | [Older First](#)

No comments

Concepts for new searches

Quotes. In blue those that are in SciFinder

Bookmarks and comments

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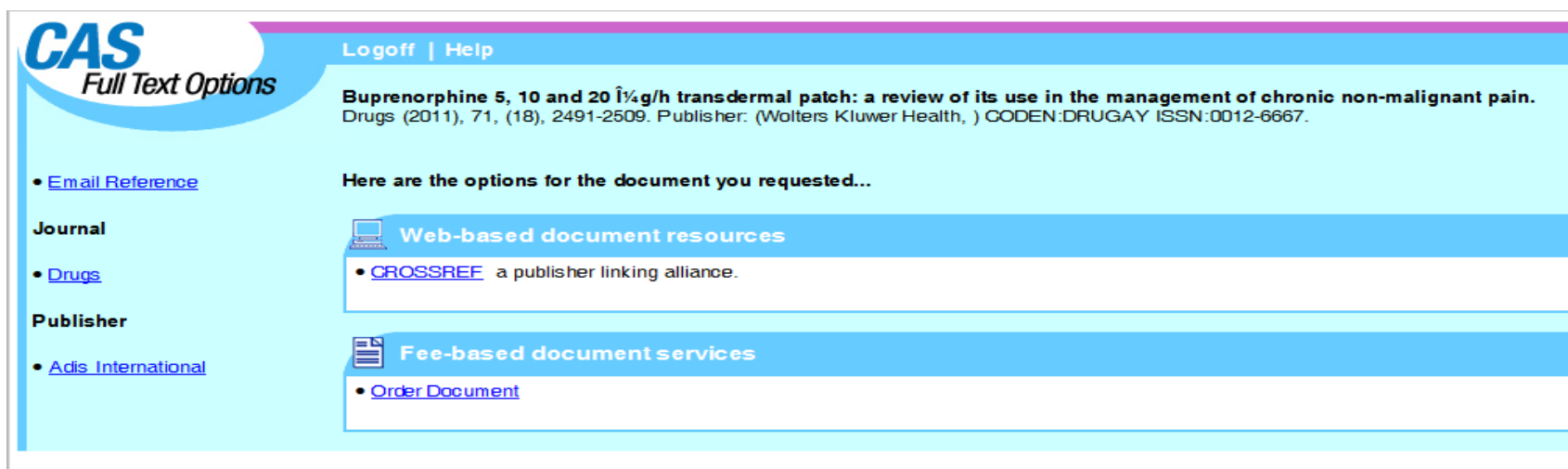
# CAS Full Text Options®

Options to go direct to :

Editor's page

Journal page

Full-text document page (charges may apply for downloading it)



The screenshot shows the CAS Full Text Options interface. At the top left is the CAS logo and 'Full Text Options' text. To the right are 'Logoff | Help' links. The main content area displays a reference for 'Buprenorphine 5, 10 and 20 µg/h transdermal patch: a review of its use in the management of chronic non-malignant pain.' Below this, it says 'Here are the options for the document you requested...'. There are two main sections: 'Web-based document resources' with a 'CROSSREF' link, and 'Fee-based document services' with an 'Order Document' link. On the left side, there are navigation links for 'Email Reference', 'Journal', 'Drugs', 'Publisher', and 'Adis International'.

# Explore Substances

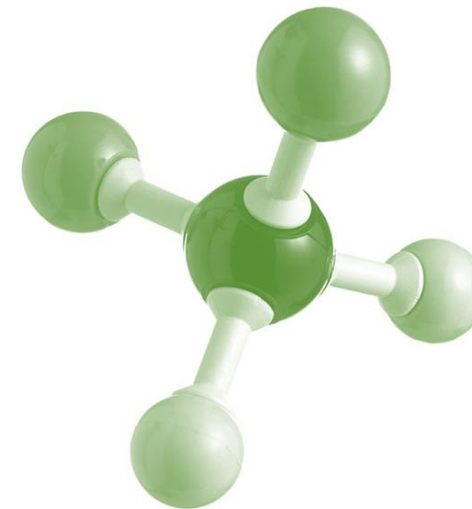
Chemical structure (editor)

Markush (editor)

Molecular formula

Properties

Identifier of substances



Search by chemical structure

It can be imported from some structure editor program (eg ChemDraw)

SUBSTANCES: CHEMICAL STRUCTURE ?

Structure Editor: Advanced Search  Always Show

Java

Click to Edit

Import CXF

**Search**

Advanced Search

**Characteristics**

- Single component
- Commercially available
- Included in references

**Classes**

- Alloys
- Coordination compounds
- Incompletely defined
- Mixtures
- Polymers
- Organics, and others not listed

**Studies**

- Analytical
- Biological
- Preparation
- Reactant or reagent

...ut having to resolve Java issues.  
...above the structure editor box.

# Explore Substances- Structure editor

The screenshot shows the Structure Editor interface with several callouts:

- Menu:**
  - to import
  - Save
  - To print
  - Copy
  - Paste
  - Undo
- Pencil and rubber** (pointing to drawing tools)
- Atoms and simple** (pointing to atom selection tools)
- Variable link** (pointing to a link tool)
- Select** (pointing to a selection tool)
- Block atoms** (pointing to a block tool)
- The most used:**
  - Atoms
  - Links
  - Rings
- Drawing tools** (pointing to the left toolbar)
- Drawing Editor:**
  - Structure
  - Reaction
  - Markush
- Get substances that match your query using:**
  - Exact search
  - Substructure search
  - Similarity search

At the bottom of the interface, there is a search bar with the query C8 H10 N4 O2 (query) and a scale of 100. A blue arrow points to the left side of the interface.

## Search by substance identifier

**SUBSTANCES: SUBSTANCE IDENTIFIER** ?

58-08-2  
capsaicin  
dichlorodiphenyltrichloroethane

Enter one per line.  
Examples:  
50-00-0  
999815  
Acetaminophen

**Search**



Substance Identifier "58-08-2; capsaicin; dichlorodi..." > substances (3)

Get References | Get Reactions | Get Commercial Sources | Tools

Sort by: CAS Registry Number

1. 404 | 2. **58-08-2** | 3. 30

Analyze by: Substance Role

- Analytical Study: 3
- Biological Study: 3
- Formation, Nonpreparative: 3
- Miscellaneous: 3
- Occurrence: 3
- Preparation: 3
- Process: 3
- Properties: 3
- Prophetic in Patents: 3
- Reactant or Reagent: 3

Show More

Click to see details of the substance

Option menu

Sort results by:

- CAS RN
- No. of references
- Molecular weight
- Molecular formula

CAS Registry Number: 58-08-2

- View Substance Detail
- Explore by Structure
- Synthesize this...
- Get Reactions where Substance is a
- Get Commercial Sources
- Get Regulatory Information
- Get References
- Export as Image
- Export as molfile
- Send to SciPlanner

**C<sub>8</sub> H<sub>10</sub> N<sub>4</sub> O<sub>2</sub>**  
1#Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl-

Regulatory Information  
Spectra  
Experimental Properties

## Tools

Analyze

Refine

Save answers

Send to SciPlanner

Obtain References, Reactions, Suppliers, Regulatory Information



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**SUBSTANCE DETAIL** 
[Get References](#)
[Get Reactions](#)
[Get Commercial Sources](#)
[Get Regulatory Information](#)

[Return](#)

2.

**CAS Registry Number:**  
Cs H10 N4 O2  
1#Purine-2,6-dione, 3,7-dione; 1,3,7-Trimethylxanthine; 3,7-Dihydro-7-Methyltheophylline; Caffeina; Caffedrine; Caffeyl; Durvitan; Guaranine; Koffein; Midron extra; Miudol; NSC 6270; Palergot-C; Phensal; Refregal; Synalgos; Thein; Theine; Theophylline

**Deleted CAS Registry Number:**

**Source of Registration:**  
~31,615 References  
~201 Commercial Sources

**Document Types:** Book, Journal Article, Review, etc.

**CAS Properties:**

Analytical Study	✓	✓	✓	✓
Biological Study	✓	✓	✓	✓
Combinatorial Study	✓	✓	✓	✓
Formulation/Preparative	✓	✓	✓	✓
Miscellaneous	✓	✓	✓	✓
Occurrence	✓	✓	✓	✓
Preparation	✓	✓	✓	✓
Process	✓	✓	✓	✓
Properties	✓	✓	✓	✓

- References
- Suppliers
- Types of documents in which it is mentioned
- Experimental and predicted properties
  - Biological
  - Chemicals
  - Density
  - Lipinsky
  - Specters
  - Related to the structure
  - Thermal

**CAS Registry Number: 58-08-2**

- [New Substance Detail](#)
- [Explore by Structure](#)
- [Synthesize this...](#)
- [Get Reactions where Substance is a](#)
- [Get Commercial Sources](#)
- [Get Regulatory Information](#)
- [Get References](#)
- [Export as Image](#)
- [Export as molfile](#)
- [Send to SciPlanner](#)

Option menu

Same as substances but with more options

The screenshot shows the 'Reaction Editor' window. On the left is a toolbar with various icons. A blue box highlights a specific tool, with callouts pointing to it: 'Define role', 'Track atoms', 'Form or break links', and 'Functional groups'. On the right is a 'Drawing Editor' panel with radio buttons for 'Structure', 'Reaction' (selected), and 'Markush'. Below that is a section 'Get reactions where the structure(s) are:' with two radio buttons: 'Variable only at the specified positions' and 'Substructures of more complex structures' (selected). At the bottom of the window, a status bar shows 'C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub> (reaction query)' and '194.19'.



# Explore Reactions-Results page

**REACTIIONS**

Analyze Refine

Analyze by: Reagent (New)

HCl	13
H <sub>2</sub> SO <sub>4</sub>	11
KOH	11
H <sub>2</sub> O	8
HCO <sub>2</sub> H	7
HNO <sub>3</sub>	7
NaH	6
AcOH	5
EtOH	5
Fe	5

Show More

1. View [Reaction] Detail Link

Single Step Hover over any structure for more information

Overview

Steps/Stages

- A
- F
- C

1.1 S:EtOH, 14 h, ...

1.2 C:15244-77-6, ...

Send to SciPlanner

Page: 1 of 4

Order results by:

- Como fueron ingresados
- Procedimiento experimental
- Número de pasos
- % de producto
- Año de publicación

Steps /

Link to the reference

Caffeine-rhodium halide catalyst system for synthesis of acetic acid and acetic anhydride and its application

Quick View Full Text

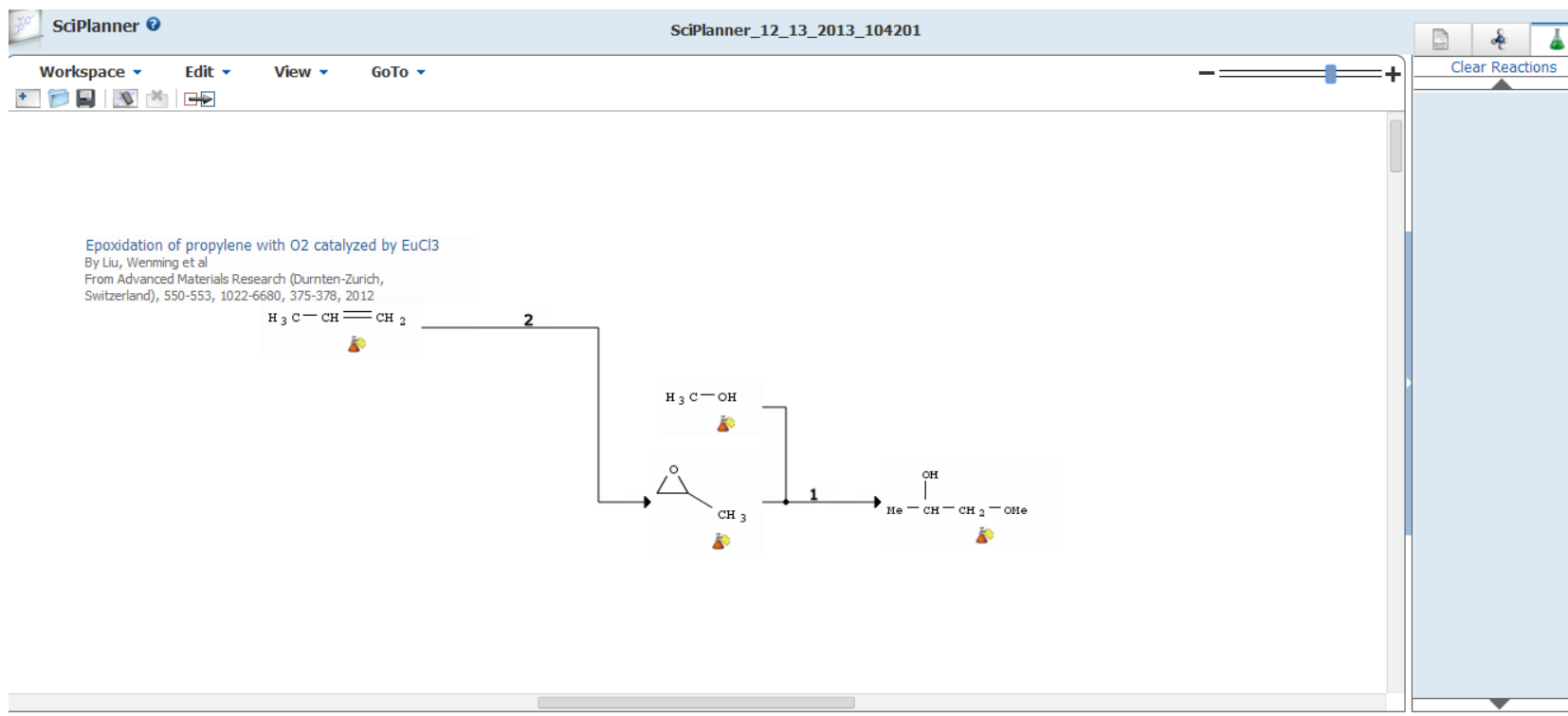
By Lu, Yunjiang et al

From Faming Zhuanli Shenqing, 101143339, 19 Mar 2008

Video on : <http://www.youtube.com/watch?v=T73Ojm3-3Ts>

Tutorial on: <http://www.cas.org/etrain/scifinder/sciplanner.html>

Workspace sign:



# Thank You Very Much

**ECORFAN-México, S.C.**

143 – 50 Itzopan Street  
La Florida, Ecatepec Municipality  
Mexico State. 55120 Zipcode  
Phone: +52 1 55 6159 2296  
Skype: ecorfan-mexico.s.c.  
E-mail: [contacto@ecorfan.org](mailto:contacto@ecorfan.org)  
Facebook: ECORFAN-México S.C.

Twitter: [@EcorfanC](https://twitter.com/EcorfanC)

[www.ecorfan.org](http://www.ecorfan.org)

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