

Selected Journal Indexes for Molecular Biology & Biotechnology Topics

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Biotechnology Information Center: <http://www.library.uiuc.edu/biotech/>



Links to these resources are available online via the Univ. of Illinois Biotechnology Information Center webpage: www.library.illinois.edu/biotech/ and via the Library's Online Research Resources (ORR) site: www.library.illinois.edu/orr/

Note: Brackets surround the name of the search engine for each resource; see reverse side for search tips.

AGRICOLA

Worldwide coverage of agricultural research. Print equivalent: *Bibliography of Agriculture*. Indexes over 1000 journals, plus other agricultural resources. Many records contain abstracts. Updated monthly. Locally available: 1942-1970 in print; 1970- present, online. [OVID] Try also **AGRIS** (international Ag) and **CAB Abstracts**.

Biological Abstracts

Biological Abstracts provides abstracts of research in biological literature, including biochemistry, biology, botany, ecology, zoology, microbiology, medicine, etc. Coverage: 1926-present. Updated every 2 weeks. *BA* indexes about 6000 research journals. [Web of Knowledge]

CAB Abstracts

Worldwide coverage of agriculture, forestry, veterinary medicine, & biological information. Indexes and abstracts over 10,000 journals, selectively. Available online: 1907 - present. Updated quarterly. [Web of Knowledge] Try also **Agricola** and **AGRIS**.

Compendex (part of Engineering Village, EiVillage)

Worldwide engineering index covers all areas of engineering including environmental technology and biotechnology. Indexes over 5000 journals. Includes abstracts. Coverage is 1884 - present. Updated weekly. [EiVillage]

CSA Technology Research

Worldwide engineering index covers all areas of engineering including biomaterials and waste engineering. Indexes over 4000 journals, conference proceedings, technical reports, patents. Coverage is 1962-present; updated monthly. [CSA]

Environmental Sciences & Pollution Management

Includes the following databases, which may be searched individually, or together as one database:

ASFA 3: Aquatic Pollution & Environmental Quality (1990-)

Biotechnology Research Abstr(1980-)

Ecology Abstr (1982-)

Environmental Engineering Abstr (1990-)

Environment Abstr (1975-)

Industrial & Applied Microbiology Abstr (Microbio. A) (1982-)

Pollution Abstr (1981-)

Risk Abstr (1990-)

Sustainability Science Abstr (2003-)

Toxicology Abstr (1981-)

Water Resources Abstr (1967-)

When searched collectively, *Environmental Sciences* indexes over 9500 journals. Most subfiles are updated monthly. Check the *U of Illinois Catalog* for the availability of the earlier, print versions. [CSA]

Faculty of 1000 < New! >

Particularly useful for graduate students and young scientists, this biology research tool highlights significant or controversial papers based on the recommendations of over 2,300 leading scientists, who pick new papers to review and comment on the significance of the papers. Reviewed papers date from 1999-present, for the most part. Register in order to personalize and set up alerts.

FSTA

Cover all aspects of food science and technology, e.g. food processing, ingredients technology, food industry environmental issues and biotechnology. Indexes over 1800 journals; updated quarterly. Coverage: 1969 – present. [Web of Knowledge]

International Pharmaceutical Abstracts (IPA)

Worldwide coverage about all aspects of drugs including research, toxicity, and regulation. Indexes over 650 journals, many not found in PubMed; updated monthly. Coverage: 1970-present. [OVID]

Google Scholar (scholar.google.com)

Use GS to find scholarly materials such as peer-reviewed papers, theses, books, preprints, abstracts, and technical reports. Searches a variety of undisclosed academic publishers, professional societies, preprint repositories and universities as well as scholarly articles available across the web. Enabled with U of I's "Discover" links to allow access to the full text. A popular feature links to papers that cited the target paper. Note: Use **Zotero** (a free Firefox plugin from zotero.org) or **Publish or Perish** (a free download for academics from harzing.com/pop.htm) to help export multiple citations at once.

PubMed (Medline)

The major index for articles in biomedical journals published world-wide; topics include clinical and experimental medicine, basic sciences as related to biochemistry, medicine, psychiatry, public health and veterinary medicine; indexes over 5,000 journals; includes abstracts; 1950s - present. Updated daily. Freely available to all, but use the U of Illinois' URL (<http://www.library.illinois.edu/orr/get.php?instid=406312>) to see e-journal links available for the U of I. [PubMed]

NEW – use **PubGet** to search PubMed, but see the pdfs of available articles immediately! (Find the link for PubGet in the ORR or at www.library.illinois.edu/biotech/.)

SciFinder (Chemical Abstracts)

Use *SciFinder* to search *Chemical Abstracts*, which indexes "chemistry" in the broadest sense. Updated daily. Indexes & abstracts >10,000 journals and patents worldwide. Coverage: 1907-present. Has cited & citing references from 1995-present. Note: Preliminary registration required: tinyurl.com/y/lfthts.

Scopus

Scopus is the largest science index, indexing >11,000 science journals as well as thousands of >2500 social science journals. Strong in medicine, it covers all the journals in Medline (PubMed) and Embase. Simultaneously searches the scientific web (Scirus.com), patents worldwide, and more. Has a "cited by" link to articles that have cited a given article (available for citations published since 1996) as well as "related documents" that share references, authors or keywords. Coverage: Variable from 1960.

Web of Knowledge <New! Try this!>

Search multiple databases at once – Web of Science, Biological Abstracts, CAB Abstracts, FSTA, Medline, Zoological Record. Retrievals are de-duplicated, with the Web of Science record being shown by default. Coverage dates vary by database, with some going back to 1864 (from Zoological Record).

Web of Science

Is the online version of *Science Citation Index*, *Social Sciences Citation Index*, and *Arts & Humanities Citation Index*. Provides the most current index to over 9000 of the world's leading scholarly research journals in all disciplines; includes abstracts. Includes a "citation tracker" link to articles that have cited a given article. **New:** Create auto-alerts on topics of interest, receiving an email each week with new citations. Updated weekly. Coverage: 1955-present. [Web of Knowledge]

WorldCat

Worldcat is not an index for journal literature. Rather, *WorldCat* is a one-stop source for the information about over 62 million books, journal titles, computer programs, etc. Very useful for completing book citations or for identifying and requesting books on a subject. Coverage: International; 1200 AD - present. [FirstSearch] A free public version can be found at: <http://www.worldcat.org/>.

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A Quick Reference Guide to Online Bio-Ag-Vet-Medical Resources at the U of Illinois

These databases are available on the Library's Online Research Resources site: <http://www.library.illinois.edu/orr/>

To find... (in bold: highly recommended)

Agricultural articles	Agricola ; AGRIS ; CAB Abstracts ; FSTA ; SciFinder ; SciFinder ; Scopus ; Web of Science
Biological articles	Biological Abstracts ; Environmental Sci. & Pollution ; PubMed ; SciFinder ; Scopus ; Web of Science
Educational articles	ERIC ; Education Full text
Business articles	ABI/Inform ; Business Source Complete ; EconLit
Engineering articles	Compendex / EiVillage ; Environmental Sciences & Pollution ; CSA Technology Research ; Scopus
Medical articles	PubMed [=Medline] ; CINAHL ; Health Source ; IPA ; SciFinder ; Scopus ; Web of Science
Most current coverage	Web of Science ; ArticleFirst ; PubMed , Scopus
Multidisciplinary coverage	Web of Science ; ArticleFirst ; Expanded Academic ASAP (InfoTrac) ; Periodical Abstracts ; Wilson Select Plus
Basic / popular articles	Academic Search Premier ; Academic OneFile ; Periodical Abstracts ; Wilson Select Plus
Newspaper articles	Lexis-Nexis ; Newspaper Source ; NewsBank ; PressDisplay
Books or journals	The U of Illinois Online Library "Catalog," http://www.library.illinois.edu/catalog/
E-Journals	U of Illinois Electronic Journals and Journal Indexes, http://www.library.illinois.edu/orr/
Web Search Engines:	Google ; Google Scholar (scholarly info); Scirus (science only); Clusty ; Altavista ; Yahoo

Summary of the features in various databases, listed by Search Engine:

Search Engine & Database(s)	Word Stemming Symbol	Boolean Operators	To Search for a Phrase...	Can Create Auto-Alert* Emails	Has Cited / Citing Reference Tracing	Has Direct Links to Full-Text Articles or have U of Illinois "Discover" Links
U OF ILLINOIS Library Catalog "Boolean search"	?	Boolean search: and, or not ()	"firstword nextword" (phrase must be in quotes)	--	No	Some links to e-journals
CSA Interface [Cambridge Scientific Abstracts] <i>Environmental Sciences; CSA Technology Research; PsycInfo, ERIC, etc</i>	*	and, or not ()	firstword nextword	Yes	No	Have direct links and Discover links
EbscoHost Interface <i>Academic Search Premier; Business Source Premier, CINAHL</i>	*	and, or not ()	firstword nextword	Yes	No	Have direct links and Discover links
Elsevier databases <i>Engineering Village (Compendex InSPEC, NTIS); Scopus</i>	*	and, or not ()	"firstword nextword" (phrase must be in quotes)	Yes	Yes, in Scopus, from 1996	Has direct links and Discover links
FirstSearch Interface <i>WorldCat; Periodical Abstracts; Wilson Select Plus (WSP)</i>	*	and, or not ()	"firstword nextword" (phrase must be in quotes)	No	No	Have direct links and Discover links
InfoTRAC Interface <i>Academic OneFile</i>	*	and, or not ()	firstword w1 nextword	Yes	No	Has direct links and Discover links
OVIDWeb Interface <i>Agricola, ERIC, IPA</i>	\$	and, or not ()	firstword nextword	Yes	No	Has direct links
Proquest <i>Dissertation Abstracts, ABI/Inform</i>	?	and, or not ()	firstword nextword	Yes	No	Has direct links
PubMed [Medline] Note: Medline is available to search via OVID, Web of Knowledge, and more.	*	AND,OR, NOT ()	"firstword nextword" (phrase must be in quotes)	Yes	No	Has direct links and Discover links
SciFinder Note: Register for an account to use.	Use "natural language" searches. No need for word stemming, Boolean operators, or phrase searching.			Yes	Yes, from 1995	Has direct links and Discover links
Web of Knowledge <i>Web of Science (Science Citation Index), Biological Abst, CAB Abst, FSTA, Medline, Zoological Record</i>	*	and, or not () Or, for topic searches, search like Google (see below)	"firstword nextword" (topical phrase searches must be in quotes)	Yes, from individual dbs, but not from WoK	Yes, in <i>Web of Science</i> from 1955	Has direct links and Discover links
Web Search Engines: Google.com; Scholar.google.com; Books.google.com; Scirus.com (for science-only websites)	none	OR (in caps) If no operator is used, "and" is assumed. When placed in front of a word or phrase, "+" means "must have" "-" means "should not have"	"firstword nextword" (phrase must be in quotes)	<ul style="list-style-type: none"> Use Google Scholar to locate research articles and find citing papers. Use "Publish or Perish" to analyze and export multiple citations from Google Scholar (www.harzing.com/pop.htm). Or use Zotero (zotero.org) to export multiple citations. Search for images via Google: http://images.google.com/ Translate text via Google: http://translate.google.com 		