

Ferdinand D. Bluford Library

A SELECTIVE GUIDE TO BIOLOGICAL RESOURCES

This selective guide contains a bibliography of titles and electronic resources that will assist the students with biological research. It outlines a general approach to finding materials and resources housed in the F.D. Bluford Library and also electronic sources that may be on the Internet or on CD-ROM. This guide will help students organize their research and at the same time give them some tips on research strategy. Remember that researching any topic can seem overwhelming.

Using the INNOPAC

Establishing what resources the library owns on the subject you are researching should be your first priority. In order to find that information the student must use the online catalog called INNOPAC in our library. The INNOPAC can be searched by AUTHOR, TITLE, KEYWORD, JOURNAL, TITLE and by SUBJECT HEADING. If you are going to do a **keyword search** you can either enter a word that may appear in the title or in the description of the work. If you are going to do a **subject search** you should use the Library of Congress Subject Headings located next to the computer workstations to help you determine the correct heading to use. There are several other options on narrowing or limiting your search and on identifying similar titles. Please refer to the INNOPAC Handout at the Information Center for more detailed instruction or ask for assistance from a Reference Librarian.

Dictionaries & Encyclopedias

- Cambridge Encyclopedia of Life Sciences*, A&T Ref QH307.2.C36 1985
- Cambridge Illustrated Dictionary of Natural History*, A&T Ref QH13.L56 1987
- Chambers Biology Dictionary*, A&T Ref QH302.5.C46 1989
- Concise Dictionary of Biomedicine and Molecular Biology*, A&T Ref R121.J86 2002
- Concise Encyclopedia of Biochemistry and Molecular Biology*, A&T Ref QD415.A25B713 1997
- Concise Encyclopedia of Biology*, A&T Ref QH302.A2313 1996
- Dictionary of Biochemistry and Molecular Biology*, A&T Ref A&T Ref QP512.S73 1989
- Dictionary of Biological Terms*, A&T Ref QH13.H38
- Dictionary of Biology*, A&T Ref QH302.5.D5 1986
- Dictionary of Cell Biology*, A&T Ref QH575.D5 1995
- Dictionary of Microbiology and Molecular Biology*, A&T Ref QR9.S56 2001
- Dictionary of Modern Biology*, A&T Ref QH302.5 R83 1997
- Encyclopedia of Environmental Biology*, 3 vols. A&T Ref QH540.4.E52 1995
- Encyclopedia of Human Biology*, 9 vols. QP11.E53 1997
- Encyclopedia of Molecular Biology*, A&T Ref QH506.E53 1994
- Frontiers of Life*, A&T Ref QH302.5.F76 2002
- Hutchinson Pocket Dictionary of Biology*, 2004 e-BOOK (NetLibrary)

Directories, Biographies, Handbooks & Manuals

- American Men & Women of Science*, A&T Ref Q141.A474 1999
American Women in Science: A Biographical Dictionary, A&T Ref Q141.B25 1994
Approved Lists of Bacterial Names, A&T Ref QR81.A77 1989
Bergey's Manual of Determinative bacteriology, A&T Ref QR81 .A5 1994
Biographical Encyclopedia of Scientists, A&T Ref Q141B53 1994
Bi lexicon: A Guide to the Language of Biology, A&T Ref QH302.5.B59 1990
Biology Data Book, A&T Ref QH310.A39
CRC Handbook of Microbiology, Series, A&T Ref QR6.C2 1977
Dictionary of Scientific Biography, A&T Ref Q141.D5
Genetics and Cell Biology on File, A&T Ref QH440.2.G455 1997
Handbook of Biochemistry and Molecular Biology, A&T Ref QH345.H347 1975
Handbook of Biology Data, A&T Ref QH310 S6
Handbook of Essential Fatty Acid Biology, A&T Ref QP752.E84.H36 1997
Handbook of Microbiological Media, A&T Ref QR66.3.A85 1993
Ladies in the Laboratory: American and British Women in Science, 1800-1900, A&T Ref Q141C69 1998
New York Public Library Science Desk Reference, A&T Ref Q173.B25 1995
Notable Twentieth-Century Scientists, A&T Ref Q141M73 1995
Pocket Guide to Clinical Microbiology, A&T Ref QR46.M92 1998
Reader's Guide to the History of Science, A&T Ref Q125 R335 2000

Printed Abstracts & Indexes

- Agricultural Engineering Abstracts & Annual Indexes*, A&T Ref Abstracts S675A36
Biological Abstracts, A&T Ref Abstracts QH301B37
Biological & Agricultural Index, A&T Ref Indexes Z5073A46
Cumulated Index Medicus, A&T Ref Indexes Z6660I422
Field Crop Abstracts, A&T Ref Abstracts SB 183F45
Plant Breeding Abstracts, A&T Ref Abstracts SB123P54

Electronic Databases

AccessScience @ McGraw Hill, the Online Encyclopedia of Science and Technology

AccessScience turns the world's leading science encyclopedia, The McGraw-Hill Encyclopedia of Science & Technology, into an updated database that delivers the high-quality information synonymous with the print publication with the immediacy that only the online environment can provide.

AGRICOLA (AGRICultural OnLine Access)

AGRICOLA (AGRICultural OnLine Access) is a bibliographic database of citations to the agricultural literature created by the National Agricultural Library and its cooperators. Production of these records in electronic form began in 1970, but the database covers materials in all formats, including printed works from the 15th century.

Bacteriology Abstracts

This abstracts covers all aspects of pure bacteriology, biochemistry, diseases of man and animals, and genetics.

Basic BIOSIS

Basic Biosis provides information about biology and other life sciences.

Bioengineering Abstracts

Bioengineering covers numerous medical, allied health, and technical specialties.

Biological and Agricultural Full Text

Full-text resource to the core literature of biology and agriculture.

Biological Sciences via Cambridge Scientific Abstracts:

This interdisciplinary database offers abstracts and citations to a wide range of research in biomedicine, biotechnology, zoology and ecology, and some aspects of agriculture and veterinary science. Supporting over two dozen areas of expertise, this CSA database provides access to literature from over 6000 sources including serials, conference proceedings, technical reports, monographs and selected books and patents.

Biological Sciences and Living Resources (ASFA 1)

Aspects of marine, freshwater, and brackish water organisms and environments are examined, including information on biology and ecology of aquatic organisms, exploitation of living resources, and related legal, policy, and socioeconomic issues.

Biology Digest via Cambridge Scientific Abstracts.

Biology Digest is a compilation of abstracts and indexes of domestic and international literature in the area of life sciences. It is primarily intended for an audience at the high school or undergraduate college level. Its purpose is to aid in keeping students and instructors current on the latest developments in biological research. Each of over 20,000 records contains an original abstract averaging about 325 words. Key information such as methods involved and conclusions drawn from the respective research is retained.

Biotechnology and Bioengineering Abstracts.

This database provides bibliographic coverage of ground-breaking research, applications, regulatory developments and new patents across all areas of biotechnology and bioengineering, including medical, pharmaceutical, agricultural, environmental and marine biology.

Ecology Abstracts

Focuses on how organisms of all kinds interact with their environments and with other organisms.

Expanded Academic Index ASAP

About half of journals index in this database are full text from 1980 onwards.

INSPEC/Physics Abstracts

INSPEC contains references to physics literature. Publication types include journal articles, books, technical reports, conference papers and dissertations.

Lexis Nexis Environmental

Environmental information source

MEDLINE

An online database of millions of citations and abstracts from health and medical journals and other news sources.

Plant Science

Scientific literature on plant science, focusing on pathology, symbiosis, biochemistry, genetics, biotechnology, techniques and environmental biology.

Science Direct

Science Direct offers access to the Elsevier Science journal collection (over 1,200 titles), along with journals from a host of prestigious societies and STM publishers. The full text collection of over 1 million articles from 1995 to present covers a wide variety of subject areas and disciplines, including:

SCI Finder Scholar

SCI Finder provides online access to a wide diversity of research from many scientific disciplines including the complete coverage of biology and biochemistry.

Web of Science

A multidisciplinary database covering the journal literature in all areas of research, it indexes more than 5,700 major journals. Web of Science is made up of the Arts & Humanities Citation Index,

Social Science Citation Index, Science Citation Index, Index Chemicus and Current Chemical Reactions. The three citation databases may be searched together or in any combination. Easy Search Mode is used to search a person, place or topic. Full Search Mode is used for citation searching.

Virology & AIDS Abstracts

Provides comprehensive coverage of the world literature on every aspect of virology in humans, animals, and plants, with topics ranging from replication cycles to oncology.

Printed Journals

Advances in Applied Biology, 1981+
American Biology Teacher, 1938+
American Journal of Physical Anthropology, 1968+
Anatomical Record, 1958+
Annals of Applied Biology, 1925+
Biology Digest, 1974+
Current Opinion in Cell Biology, 1996+
Developmental Biology, 1982-1991.
FASEB Journal, 1994+
Human Biology, 1929+
Journal of Biological Chemistry, 1917+
Journal of Cell Biology, 1965+
Journal of Cellular Physiology, 1960+
Journal of Molecular Biology, 1959+
Methods in Cell Biology, 1973+
Microbiology and Molecular Biology Reviews: MMBR. 1997+
Quarterly Review of Biology, 1976+

Electronic Journals

Addiction Biology from *Academic Search Premier*, Coverage: 1996+
Anaerobe from *Science Direct*, Coverage: 1995+
Annals of Human Biology from *Health Source: Nursing/Academic Edition*, Coverage: 1998+
Annual Review of Microbiology from *Academic Search Premier*, Coverage: 1992+
Antiviral Research from *Science Direct*, Coverage: 1981+
Beyond Biology from *MAS Full-Text Ultra: School Edition*, Coverage: current
Biologicals from *Academic Search Premier*, Coverage: 2000+
Biologist from *Academic Search Premier*, Coverage: 1993+
Biology Bulletin from *Academic Search Premier*, Coverage: 1993+
Biology of the Cell from *Science Direct*, Coverage: 1995+
Bioscience from *Academic Search Premier*, Coverage: 1984+
Blood Cells, Molecules, and Diseases from *Academic Search Premier*, Coverage: 2002+
Cancer Genetics and Cytogenetics from *Science Direct*, Coverage: 1995+
Current Opinion in Cell Biology from *Science Direct*, Coverage: 1995+
Cytokine from *Academic Search Premier*, Coverage: 2002+
Developmental Biology from *Academic Search Premier*, Coverage: 2001+

Diagnostic Microbiology and Infectious Disease from *Academic Search Premier*, Coverage: 2002+

Ecotoxicology and Environmental Safety, from *Science Direct*, Coverage: 1977+

Einstein Quarterly: Journal of Biology & Medicine from *Health Source: Nursing/Academic Edition*, Coverage: 1998+

Experimental Parasitology from *Science Direct*, Coverage: 1951+

FEMS Immunology and Medical Microbiology from *Science Direct*, Coverage: 1993+

FEMS Microbiology Ecology from *Science Direct*, Coverage: 1993+

FEMS Microbiology Letters from *Science Direct*, Coverage: 1977+

FEMS Microbiology Reviews from *Science Direct*, Coverage: 1993+

Food Microbiology from *Science Direct*, Coverage: 1984+

Geomicrobiology Journal from *Health Source: Nursing/Academic Edition*, Coverage: 1998+

Human Biology from *Academic Search Premier*, Coverage: 1993+

Human Immunology from *Science Direct*, Coverage: 1995+

Immunology Today from *Science Direct*, Coverage: 1980+

International Journal of Antimicrobial Agents from *Science Direct*, Coverage: 1991+

International Journal of Radiation Biology from *Health Source: Nursing/Academic Edition*, Coverage: 1998+

Journal of Biological Education from *Health Source*, Coverage: 1980+

Journal of Comparative Pathology from *Science Direct*, Coverage: 1965+

Journal of food composition and analysis from *Science Direct*, Coverage: 1995+

Journal of Molecular Biology from *Academic Search Premier*, Coverage: 2002+

Journal of Virological Methods from *Science Direct*, Coverage: 1980+

Mathematical Biosciences from *Science Direct*, Coverage: 1967+

Medical Hypotheses from *Science Direct*, Coverage: 1999+

Microbial Pathogenesis from *Academic Search Premier*, Coverage: 2002

Molecular and Cellular Probes from *Science Direct*, Coverage: 1995+

Molecular Medicine Today from *Science Direct*, Coverage: 1995+

Molecular Membrane Biology from *Health Source: Nursing/Academic Edition*, Coverage: 1998+

Molecular Microbiology from *Academic Search Premier*, Coverage: 1998+

Neuropathology & Applied Neurobiology from *Health Source: Nursing/Academic Edition*, Coverage: 1997+

Parasitology Today from *Science Direct*, Coverage: 1996+

Perspectives in Biology and Medicine from *Academic Search Premier*, Coverage: 1996

Plant Molecular Biology Reporter from *Academic Search Premier*, Coverage: 1996+

Plasmid from *Academic Search Premier*, Coverage: 2002

Quarterly Review of Biology from *Academic Search Premier*, Coverage: 1999+

Research in Veterinary Science from *Science Direct*, Coverage: 1999+

Systematic Biology from *Academic Search Premier*, Coverage: 1998+

Trends in Biotechnology from *Science Direct*, Coverage: 1983+

Trends in Genetics from *Science Direct*, Coverage: 1985+

Trends in Microbiology from *Science Direct*, Coverage: 1993+

Trends in Molecular Medicine from *Science Direct*, Coverage: 2001+

Trends in Parasitology from *Science Direct*, Coverage: 2001+

Tubercle and Lung Disease from *Science Direct*, Coverage: 1992+

Tuberculosis from *Science Direct*, Coverage: 1992+

Vaccine from *Science Direct*, Coverage: 1983+

Veterinary Journal from *Science Direct*, Coverage: 1999

Government Documents

Government Documents cover a broad range of topics including health and physical fitness programs of the president, educational documents and statistics, criminal justice information; laws and regulations; congressional hearings; Supreme Court opinions; and economic, demographic and agricultural statistics. You can access our Government Documents Collection several ways: through the card catalog - Innopac. You can also use any catalog with GPO Access or the printed Monthly Catalog housed in the Index Area. These items are classified by the Superintendent of Documents Classification Scheme and must be retrieved using that call number. The library's Government Documents Department is located on the lower level of the library.

Statistical Sources

Statistics provide a factual basis for your ideas. Most of the handbooks and electronic resources listed will give some general statistics. The following resources can provide information on very specific topics, either giving the actual data or listing citations to books, articles, or reports that will have the needed information.

FEDSTATS

Access to statistics produced by more than 70 agencies of the U.S. Federal Government. Statistics about agriculture, crop, environment, Pollution etc. can be found.

Access: <http://www.fedstats.gov>

Statistical Sources on the Web

Produced by the Documents Center at the University of Michigan Library

Access: <http://www.lib.umich.edu/govdocs/stats>

Internet Resources

All the Virology on the WWW

Seeks to be the best single site for Virology information on the Internet.

Access: <http://www.tulane.edu/~dmsander/garryfavweb.html>

BioChemLinks

Is a portal to excellent biology, biochemistry, and chemistry educational resources.

Access: <http://biochemlinks.com/bclinks/bclinks.cfm>

Biodidac

Web site has created bank of digital images video, and animations that can be used and adapted for teaching biology.

Access: <http://biodidac.bio.uottawa.ca/>

Biodiversity and Biological Collections Web Server

This Web site provides a gateway to hundreds of sites of interest to biologists. These sites originate from universities, museums, and professional societies and are truly worldwide in scope. Links are categorized by field of interest (Mycology and Microbiology), type of database (Biologist Directories and Publications), or institution (Natural History Museums).

Access: <http://biodiversity.uno.edu/>

Biology Project

An interactive online resource for learning biology developed at The University of Arizona. The Biology Project is fun, richly illustrated and tested on 1000s of students. It has been designed for biology students at the college and high school level, but is useful for medical students, physicians, science writers, and all types of interested people.

Access: <http://www.biology.arizona.edu/>

BioScience Research Tool

Welcome to the BioScience Research Tool! This web site provides you with hundreds of advanced online tools and resources, selected by Bio Scientists for Bio Scientists.

Access: <http://biochemie.net/links/>

Microbial Underground: Guide to Microbiology on the Net

Is a collection of Web pages that contain Medical, Microbiological and Molecular Biological material, with links to other such material on the Internet.

Access: http://www.medschool.lsumc.edu/Micr/mirror/public_html/

National Science Foundation - Division of Biological Infrastructure (BIO)

Promotes and advances scientific progress in biology largely through grants to colleges, universities and other institutions, especially in those areas where NSF has major responsibility. The Foundation is the nation's principal supporter of fundamental academic research on plant biology, environmental biology and biodiversity.

Access:

<http://navigation.helper.realnames.com/framer/1/0/default.asp?realname=National+Science+Foundation&url=http%3A%2F%2Fwww%2Fensf%2Fgov&frameid=1&providerid=0&uid=30007170>

WWW Virtual Library

Biology is a part of the international World Wide Web Virtual Library of subjects.

- [Virtual Library: Biosciences](#)
- [The WWW Virtual Library of Cell Biology](#)
- [Virtual Library – Developmental Biology](#)
- [WWW Virtual Library - Botany](#)

Societies, Associations & Organizations

American Association for the Advancement of Science (AAAS)

Is the world's largest general science organization and publisher of the peer-reviewed journal Science. With more than 138,000 members and 275 affiliated societies, AAAS serves as an authoritative source for information on the latest developments in science and bridges gaps among scientists, policy-makers and the public to advance science and science education.

Access: <http://www.aaas.org/>

American Institute of Biological Sciences (AIBS)

Is an organization of professional biological associations and laboratories whose approximately 8,000 members have an interest in the life sciences. The society conducts symposium series, supports speaker and consultant lists, and operates a placement service.

Access: <http://www.aibs.org/index.html>

American Society for Biochemistry and Molecular Biology (ASBM)

Is a nonprofit scientific and educational organization with over 10,000 members. Most members teach and conduct research at colleges and universities. Others conduct research in various government laboratories, nonprofit research institutions and industry.

Access: <http://www.faseb.org/asbmb/>

American Society for Cell Biology (ASCB)

Was founded in 1961 to bring the varied facets of cell biology together. The Society's objective is to provide for the exchange of scientific knowledge in the area of cell biology.

Access: <http://www.ascb.org/>

American Society for Microbiology

Is the oldest and largest single life science membership organization in the world. Membership has grown from 59 scientists in 1899 to over 42,000 members today located throughout the world. ASM represents 25 disciplines of microbiological specialization plus a division for microbiology educators.

Access: <http://www.asmsa.org/aboutasm.htm>

Federation of American Societies for Experimental Biology (FASEB)

Founded in 1912 by three societies, FASEB has consistently provided educational meetings and publications to disseminate biological research results. The then six Member Societies met in 1989 to alter its focus and to reaffirm its mission. FASEB is a coalition of independent Member Societies that serve the interests of biomedical and life scientists, particularly those related to public policy issues. FASEB facilitates coalition activities among Member Societies and disseminates information on biological research through scientific conferences and publications.

Access: <http://www.faseb.org/>

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