



# Collier Library - Pathfinder

The UNIVERSITY of NORTH ALABAMA LIBRARIES

## BIOLOGY

**SCOPE:** The purpose of this pathfinder is to introduce some of the resources available in the Collier Library in the field of **BIOLOGY**. The various types of library materials useful in research are described along with some examples of each type. This guide is not a comprehensive listing of sources, but it is intended to be a starting point from which students can begin their research according to their specific needs.

BASIC INTRODUCTION OR OVERVIEW MATERIAL can be found in:

Layman, Dale Pierre. **Biology Demystified**. 2005.

*Electronic Book (a link is provided in UNACAT to the online full text of this work)*

Mayr, Ernst. **This is Biology: The Science of the Living World**. 1997.

*QH 307.2 .M39*

Norstog, Knut, and Andrew J. Meyerriecks. **Biology**. c1983.

*QH 308.2 .N67*

Schlesinger, Allen B. **Explaining Life**. c1994.

*QH 308.2 .S35*

Starr, Cecie, and R. Taggart. **Biology: The Unity and Diversity of Life**. 1989.

*QH 308.2 .K57*

Webster, Stephen. **Thinking About Biology**. 2003.

*Electronic Book (a link is provided in UNACAT to the online full text of this work)*

Winter, Charles A. **Opportunities in Biological Science Careers**. c2004.

*Electronic Book (a link is provided in UNACAT to the online full text of this work)*

Books on **BIOLOGY** can be located by using some of the following SUBJECT HEADINGS that appear in UNACAT, an online catalog of the book collection.

ADAPTATION (BIOLOGY)

BIOLOGY

ECOLOGY

EMBRYOLOGY

GENETICS

NATURAL HISTORY

PHYSIOLOGY

ZOOLOGY

OTHER SUBJECT HEADINGS can be identified by using:

**Library of Congress Subject Headings** (annual)

(Located on the dictionary stand in the Reference Room)

*Ref Z 695 .L95*

BROWSING the following CALL NUMBERS may produce helpful titles:

Library of Congress (3rd Floor)  
QH (Natural History)  
QK (Botany)  
QL (Zoology)

REFERENCE TOOLS which may be useful in **BIOLOGY** that are found in the REFERENCE ROOM are:

LITERATURE GUIDES may provide an evaluative discussion of the methods and materials for doing research in a selected area:

Davis, Elisabeth B., and Diane Schmidt. **Guide to Information Sources in the Botanical Sciences.** 1996.  
*Ref Z 5351 .D38*

Hurt, C. D. **Information Sources in Science and Technology.** 3<sup>rd</sup> ed. 1998.  
*Ref Z 7401 .H85*

Schmidt, Diane, Elisabeth B. Davis, and Pamela F. Jacobs. **Using the Biological Literature: A Practical Guide.** 3<sup>rd</sup> ed. 2002.  
*Ref QH 303.6 .D38*

Stern, David. **Guide to Information Sources in the Physical Sciences.** 2000.  
*Ref Z 7141 .S74*

Wyatt, H. V., editor. **Information Sources in the Life Sciences.** 4<sup>th</sup> ed. c1997.  
*Ref QH 303.6 .I54*

ENCYCLOPEDIAS provide concise and authoritative overviews of a topic. The overviews help define and limit the topic, begin a list of bibliographic sources, and develop additional keywords to search for information on the topic. There are often lists of further references available at the end of an overview.

**Cambridge Encyclopedia of Ornithology.** 1991.  
*Ref QL 673 .C35*

**Grzimek's Animal Life Encyclopedia.** 17 vols. c2003.  
*Ref QL 7 .G7813*

**Encyclopedia of Bioethics.** 5 vols. 2004.  
*Ref QH 332 .E52*

**Encyclopedia of Evolution.** 2 vols. 2002.  
*Ref QH 360.2 .E54*

**Encyclopedia of Marine Mammals.** 2002.  
*Ref QL 701.2 .E53*

**Encyclopedia of Microbiology.** 4 vols. 2000.

*Ref QR 9 .E53*

**Encyclopedia of Molecular Biology and Molecular Medicine.** 6 vols. 1996.

*Ref QH 506 .E534*

**Encyclopedia of Reptiles and Amphibians.** 1998.

*Ref QL 640.7 .E53*

**Magill's Encyclopedia of Science: Plant Life.** 4 vols. c2003.

*Electronic Book (a link is provided in UNACAT to the online full text of this work)*

**The Marshall Cavendish Illustrated Encyclopedia of Plants and Earth Sciences.** 10 vols. 1990.

*Ref QK 7 .M37*

**McGraw-Hill Encyclopedia of Science and Technology.** 20 vols. 8<sup>th</sup> ed. 1997.

*Ref Q 121 .M3*

DICTIONARIES provide definitions, correct spelling, and pronunciations of terminology.

Bailey, Jill. **Penguin Dictionary of Plant Sciences.** 1999.

*Ref QK 9 .P465*

Blinerman, Charles. **Biolexicon: A Guide to the Language of Biology.** c1990.

*Ref QH 302.5 .B59*

**The Concise Oxford Dictionary of Botany.** 1992.

*Ref QK 9 .C67*

**A Dictionary of Biology.** 2000.

*Ref QH 302.5 .D5*

**Hutchinson Pocket Dictionary of Biology.** c2004.

*Electronic Book (a link is provided in UNACAT to the online full text of this work)*

Jobling, James A. **A Dictionary of Scientific Bird Names.** 1991.

*Ref QL 677 .J55*

Lawrence, E. **Henderson's Dictionary of Biological Terms.** 10<sup>th</sup> ed. 1989.

*Ref QH 302.5 .H65*

Miglani, G. S. **Dictionary of Plant Genetics and Molecular Biology.** c1998.

*Ref QK 981 .M54*

**Oxford Dictionary of Biochemistry and Molecular Biology.** 2006.

*Ref QP 512 .O94*

**Dictionary of Biochemistry and Molecular Biology.** 2<sup>nd</sup> ed. c1989.

*Ref QP 512 .S73*

Winn, Philip, ed. **Dictionary of Biological Psychology**. 2001.  
*Ref QP 360 .D52*

DIRECTORIES contain names, addresses, and telephone numbers of persons, organizations, and institutions.

**Directory of Research in Biological Sciences at Primarily Undergraduate Institutions: A Directory of Biological Science Department Information for 1989-1993**. 1994.  
*Ref QH 319 .A1 R46*

Stephenson, James. **Entrepreneur's Ultimate Start-Up Directory**. 2001.  
*Ref HD 62.5 .S742*

ALMANACS OR STATISTICAL SOURCES provide miscellaneous bits of facts and data.

Bird, David Michael. **The Bird Almanac: A Guide to Essential Facts and Figures of the World's Birds**. 2004.  
*Ref QL 673 .B57*

HANDBOOKS AND MANUALS cover broad subjects in a brief, concise manner and may include odd bits of information about a variety of topics. They are also referred to as companions or compendia.

Becher, Anne. **Biodiversity: A Reference Handbook**. 1998.  
*Ref QH 541.15 .B56 B435*

**Handbook of the Birds of the World**. 11 vols. 1992.  
*Ref QL 673 .H25*

YEARBOOKS cover the happenings of the year in a particular area of interest. Yearbooks may also be called annuals.

**Year Book of Developmental Biology**. 1989.  
*QH 491 .Y427*

BIOGRAPHICAL SOURCES contain articles about the lives and works of various individuals.

Gifford, Terry. **John Muir: His Life and Letters and Other Writings**. 1996.  
*QH 31 .M9 M85*

Maslow, Jonathan Evan. **Footsteps in the Jungle: Adventures in the Scientific Exploration of the American Tropics**. 1996.  
*QH 26 .M27*

Ullmann, Agnes. **Origins of Molecular Biology: A Tribute to Jacques Monod**. 2003.  
*QH 31 .M544 O74*

GOVERNMENT PUBLICATIONS are primarily annual reports, studies, and statistics from various departments and agencies of the government.

**Yearbook of Agriculture.** 1927-.  
*Gov Doc A 1. 10:*

**Agricultural Statistics.** 1936-.  
*Gov Doc A 1. 47:*

**Chironomidae of the Southeastern United States: A Checklist of Species and Notes on Biology, Distribution, and Habitat.** 1990.  
*Gov Doc I 49 .99 :7 (microform)*

INDEXES AND ABSTRACTS that will help locate periodical articles and other papers in **BIOLOGY** are:

**Biology Digest.** Vols. 6-30 (1978-2004).

OTHER PERTINENT REFERENCE SOURCES include the following databases:

**Agricola** (online database)—The National Agriculture Library's (NAL) Web Gateway to AGRICOLA Online Public Access Catalog describes the books, serials, audiovisuals, and other resources held by NAL and its Cooperators. The Journal Article Citation Index (1979 to Present) describes journal articles, book chapters, short reports, and reprints selected primarily from the resources described in Books etc.

**BioOne** (online database)—Provides a collection of full-text bioscience research journals published by small societies and non-commercial publishers.

**Cambridge Scientific Abstracts** (online database)—Indexing and abstracting databases in the biological, medical, and social and environmental sciences.

**EBSCO Animals** (online database)—Provides in-depth information on a variety of topics relating to animals. The database consists of indexing, abstracts, and full-text records describing the nature and habitat of familiar animals. (Available via the Alabama Virtual Library and EbscoHost.)

**ScienceDirect** (online database)—Provides access to scientific, technical, and medical information in more than 2,000 peer-reviewed journals.

**Wiley Interscience Journals** (online database)—Features over 2,500 journals, major references works, online books, and databases.

PERIODICALS available in the Collier Library can be identified in UNACAT or by clicking on *Periodicals Holdings* from the library homepage. A few frequently used periodicals in **BIOLOGY** are:

<b>Periodical Title</b>	<b>Library Holdings</b>	<b>Electronic Availability*</b>
American Biology Teacher	1951-	2000-
American Zoologist	1964-2001	2000-
Biological Bulletin	1964-1997	1899-
BioScience	1951-2000	1964-
Developmental Biology	1967-2000	1993-
Human Biology	1970-1999	2001-
Integrative and Comparative Biology	2003-	2000-
Quarterly Review of Biology	1964-	1926-

\*To identify the database in which a journal is available full-text electronically, consult the *Periodicals Holding List* from the library's homepage.

From the library homepage, look under *Internet Resources Collection*. Then click on *Biology* to search further for information pertaining to **BIOLOGY**. If you need additional help, inquire at the Reference Desk.

INTERLIBRARY LOAN is available to borrow books or obtain copies of articles from other libraries if the material is unavailable locally. From the library homepage, look under *es*. Then click on *Interlibrary Loan* to fill out the form online. If you need additional help, inquire at the Reference Desk.

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