

DOCUMENT RESUME

ED 150 995

IR 005 697

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 TITLE How to Find Out in: Biology.  
 INSTITUTION Maine Univ., Orono. Raymond H. Folger Library.  
 PUB DATE 76  
 NOTE 11p.

EDRS PRICE MF-\$0.83 HC-\$1.67 Plus Postage.  
 DESCRIPTORS Bibliographies; \*Biology; Library Collections;  
 \*Library Guides; \*Reference Materials; \*University  
 Libraries

ABSTRACT

This library handbook was designed for the student of biology. It lists some of the more useful materials and reference works basic to general research and gives their locations in the Folger Library at the University of Maine. Materials are listed in six categories: (1) guides to the literature; (2) dictionaries and encyclopedias; (3) handbooks; (4) directories and biographies; (5) bibliographies; and (6) abstracts and indexes. Some entries are annotated. (Author/AWP)

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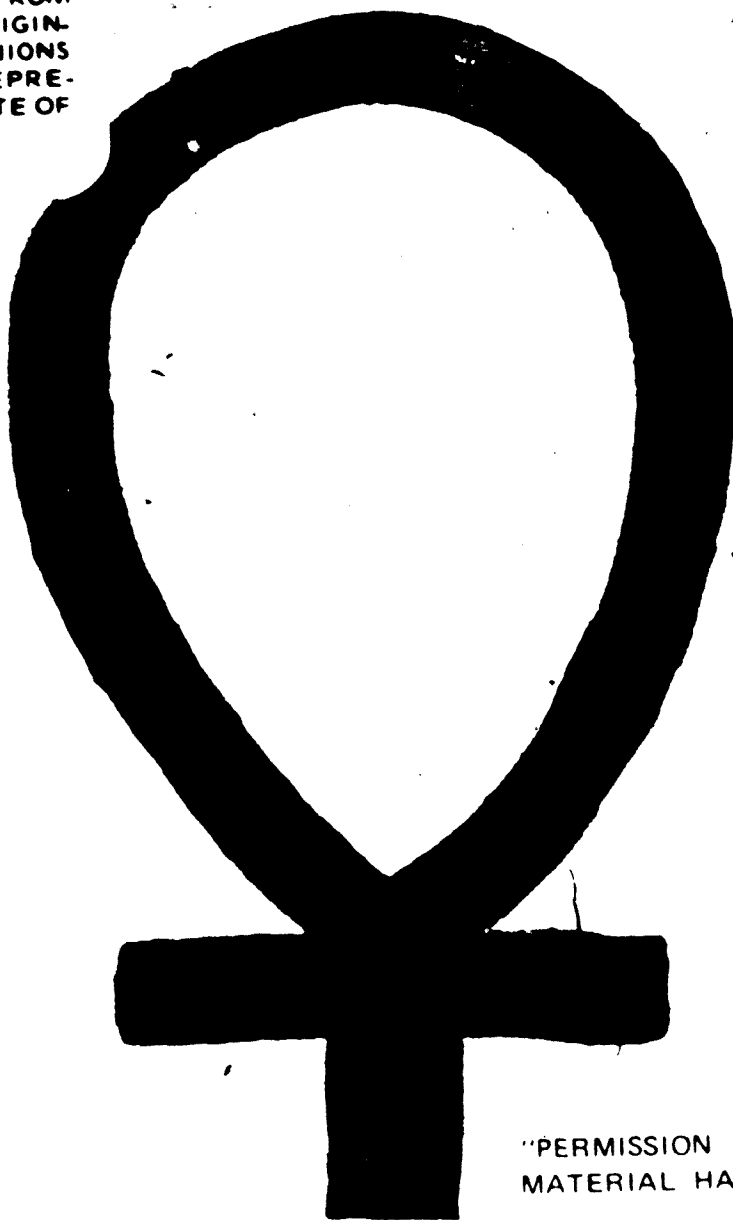
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# How to find out

## IN BIOLOGY

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**BIOLOGY**

**COVER:** The symbol on the cover represents the ankh, an Egyptian symbol for life.

Compiled by the Reference Department:  
Doris F. Kaplan

1976

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### THE CARD CATALOG

A note on using the card catalog:

To simplify use of the card catalog when looking for a particular subject use:

Library of Congress. Subject Headings.

Lists correct subject headings and gives alternatives or related headings.

Extremely valuable tool. Eliminates searching in too broad or dead-end areas.

(Located at the card catalog or Reference desks)

## DEWEY DECIMAL CLASSIFICATION SYSTEM

- 570 Biological Sciences (Sciences treating of phenomena of life)
- 574 Biology
- 574.1 Physiology
- 574.19 Biochemistry
- 574.191 Biophysics
- 574.3 Embryology
- 574.4 Morphology
- 574.5 Ecology
- 574.6 Economic Biology
- 574.8 Histology and Cytology
- 574.9 Biogeography
- 575 Evolution
- 576 Microbiology
- 577 Chemical Properties
- 578 Biological Techniques
- 579 Biological and Natural History Collections

## LIBRARY OF CONGRESS CLASSIFICATION

- QH 301- General Biology (all areas of study)
- QH 705
- QH 317 Laboratory Manuals
- QH 323 Biological Stations
- QH 324 Methods of Research. Apparatus
- QH 325 Life
- QH 331 Nature and Properties of Living Substance  
Philosophy
- QH 351 Morphology (general)
- QH 360's Theory of Descent. Evolution. Origin of  
Species
- QH 401 Variation
- QH 421 Hybridization (but SB=Horticulture)
- QH 431 Heredity
- QH 471 Reproduction
- QH 501 General Physiology (of the individual)
- QH 540's Ecology (general)
- QH 570-
- QH 670's Cytology
- QH 705 Economic Biology

This library guide is an informal handbook for the student of Biology. It lists some of the more useful materials and reference works basic to general research and gives their locations in the Fogler Library.

### GUIDES TO THE LITERATURE

- Ref Bottle, R.T. and H.V. Wyatt. Use of biological literature. 2d ed. Hamden, CT., Archon. 1972.  
QH  
303  
B6  
A discussion of the types and titles of biological literature. This book gives direction to the searcher by describing methods and technology of literature searching. This is a British approach to the subject.
- Ref Deason, Hilary. J. AAAS science booklist:  
Q 3d ed. Wash., D.C. American Association  
181 for the Advancement of Science. 1970.  
A1A68 Guide to recreational and collateral reading  
#70-8 and to basic reference works.
- Ref Smith, Roger. Guide to the literature of the  
Z life sciences. 1972.  
S320  
S57  
Excellent guidance for the student or scientist in regard to forms of scientific literature and how they differ from each other, searching the literature and preparation of a scientific paper. Index includes many titles.

### DICTIONARIES AND ENCYCLOPEDIAS

- Ref Abercrombie, Michael and others. Dictionary  
QH of biology. 6th ed. Baltimore, MD. Penguin,  
13 1973.  
A25 Concise definitions, reasonable selection.  
1973

DICTIONARIES AND ENCYCLOPEDIAS (Cont'd.)

- Ref      Dorland's illustrated medical dictionary.  
R      25th ed. Philadelphia, PA Saunders. 1974.  
121      A standard work in the field. Gives  
D73      definition, pronunciations, and derivations.
- Ref      Gray, P. Dictionary of the biological sciences.  
QH      N.Y. Reinhold. 1967.  
13      600 pages of taxa, chemical terms, descriptive  
G68      terms, roots, and vernacular names of organ-  
isms. List of works consulted. For the  
serious student.
- Ref      Gray, P. Encyclopedia of the biological sci-  
QH      ences. 2d ed. N.Y. Van Nostrand. 1970.  
13      800 articles over the broad field of the  
G7      biological sciences. Included: develop-  
mental, ecological, functional, genetic,  
structural, and taxonic areas of the bio-  
logical sciences. Many articles signed  
by authors; references.
- Ref      Henderson, I.F. and W.D. Dictionary of bio-  
QH      logical terms. 8th ed. N.Y. Van Nostrand. 1963.  
13      A British dictionary of terms in biology,  
H38      botany, zoology, anatomy, physiology, cytology,  
genetics, and embryology.
- Ref      Jaeger, E.C. Biologist's handbook of pro-  
QH      nunciation. Springfield, IL. Thomas. 1960.  
13      Over 9000 words with pronunciation for the  
J3      student and teacher.
- Ref      McGraw-Hill encyclopedia of environmental  
QH      science. N.Y. McGraw. 1974.  
540.4      A selection from the broader McGraw-Hill  
M3      Encyclopedia of science & technology - with  
new material.

DICTIONARIES AND ENCYCLOPEDIAS (Cont'd.)

Ref QP 516 H3 1970 Sober, Herbert A. CRC handbook of biochemistry (Also selected data for Molecular biology) Cleveland, OH. Chemical Rubber Co. 1970. Information from today's principal research frontiers are presented in concise form, with references for further study.

Ref QP 512 W5 Williams, Roger and E.M. Lansford. Encyclopedia of biochemistry. N.Y. Reinhold. 1967: Supplements standard texts with concise references to specific subjects.

HANDBOOKS

Ref QH 310 A39 Altman, Philip L. and D.S. Dittmer, eds. Biology data book. 2d ed., 3v. Bethesda, MD. Federation of American Societies for Experimental Biology. Presents basic established data in the biological and medical sciences. Information included will be of use to readers at all levels.

Ref Z 250.6 B5C6 (Desk) 2c. Council of Biology Editors. CBE style manual. 3d ed. Washington, D.C. American Institute of Biological Sciences. 1972. A style manual for student papers and for those preparing manuscripts for publication. Includes information on proper usage, form for typing, abbreviations, citations and bibliography.

Ref QH 203 G8 Gray, Peter, Encyclopedia of microscopy and microtechnique. N.Y. Van Nostrand. 1973. Theory, practice, techniques, disciplines, individual subjects or materials for examination.

Ref QH 433 K56 King, Robert C. Handbook of genetics. 2v. N.Y. Plenum 1974. Short, authoritative essays or annotated compilations of data on a variety of significant topics.



## HANDBOOKS (Cont'd.)

- Ref Palmer, E. Laurence and H.S. Fowler. Fieldbook  
QH of natural history. N.Y. McGraw. 1975.  
45.2 Treats man in his environment and as a part  
P34 of that environment. Each major field in  
natural history is included. Short de-  
scriptions and clear illustrations.

## BIOGRAPHY, DIRECTORIES

- Ref Gillespie, Charles C. Dictionary of scienti-  
Q fic biography. N.Y. Scribner's. 1970+  
141 Published under the auspices of the  
D5 American Council of Learned Societies. In-  
formation on the history of science from  
antiquity to modern times; articles on the  
professional lives of scientists; no living  
scientists included. Bibliographies.  
(A-S published to date)

- Ref American men and women of science. 12th ed.  
Q The Physical and Biological Sciences. 1973.  
141 Biographical information on living American  
A47 scientists. The six volume set on the  
physical and biological sciences includes  
some 150,000 entries + a discipline index  
which includes these names arranged accord-  
ing to discipline. Ex: Biology.

- Ref Williams, Trevor I., ed. Biographical dic-  
Q tionary of scientists. 2d ed. N.Y. Wiley.  
141 1974.  
W62 Short paragraphs about famous scientists,  
living and dead, plus a short list of  
references for each one.

## BIBLIOGRAPHY

- Ref        Meisel, M.    Bibliography of American natural  
Z        history...1796-1865. 1924-1929.  
7408        Annotated bibliography covering journal  
USM5        articles and publications of scientific  
             societies and museums on botany, geology,  
             minerology, paleontology, and zoology.
- Govt.      U.S. Department of Agriculture.    Dictionary  
-Docs.     catalog of the National Agricultural Library,  
             1862-1965, with supplements. 1967-  
             Contains the holdings of the National  
             Agricultural Library. Arranged in dictionary  
             form. (A single alphabetic sequence of  
             author, title, and subject entries.)

## ABSTRACTS, INDEXES AND JOURNALS

An index supplies bibliographic citations to articles, books, papers, etc.

An abstract supplies all the information above plus summaries.

- Per-R      Bibliography of agriculture, v.1, 1942+  
             A classified bibliography listing the  
             domestic and foreign literature received  
             by the U.S. Department of Agriculture.
- Per-R      Biological abstracts, v.1, 1926+  
             The largest biological service, covers some  
             5000 periodicals from around the world.  
             Article titles are listed in published  
             language with English abstracts.
- Per-R      Biological and agricultural index, 1964+  
             A detailed subject approach to the literature  
             of about 150 English language journals.

ABSTRACTS AND INDEXES AND JOURNALS (Cont'd.)

Per-R Bio-research index, (supercedes Bio-research times), 1965-  
Should be used as a companion to Biological Abstracts. Includes reports of research not published in Biological Abstracts.

Per-R Chemical abstracts. v.1, 1907-  
The most comprehensive of the abstract journals. Worldwide journal titles with signed abstracts in English. Subject, author, formula, and patent indexes.

Per-R Cumulated index medicus, v.1, 1960-  
A mechanically compiled comprehensive index to the world's medical literature. Journals indexed are for the following fields: biometry, botany, chemistry, entomology, medicine, physics, psychology, sociology, veterinary medicine, and zoology.

A list of journals in the Biological Sciences is available in the Periodicals Department.