

The following is a guide to selected resources in the biological sciences available in the Owen Library or through electronic access. It is not intended to be comprehensive. Please consult a Reference Librarian for advice about the best information resources and search strategy for your specific topic.

Dictionaries and Encyclopedias

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|---|--|
| <i>Concise Encyclopedia Biology</i> | Reference QH302.5 .A2313 1996 |
| <i>Dictionary of Zoology</i> | Reference QL9 .L4 1967 Available online through PITT <i>Cat+</i> |
| <i>Dictionary of Plant Sciences</i> | Available online through PITT <i>Cat+</i> |
| <i>Encyclopedia of Biodiversity</i> | Reference QH541.15 .B56E53 2001 |
| <i>Encyclopedia of Bioethics</i> | Reference QH332 .E52 2004 Available online through PITT <i>Cat+</i> |
| <i>Encyclopedia of Evolution</i> | Reference QH360.2 .O83 2002 Available online through PITT <i>Cat+</i> |
| <i>Encyclopedia of Genetics, Genomics, Proteomics, and Bioinformatics</i> | Reference QH431 .E62 2005 |
| <i>Encyclopedia of Human Biology</i> | Reference QP11 .E53 1997 |
| <i>Encyclopedia of Molecular Biology (2008)</i> | Available online through PITT <i>Cat+</i> |
| <i>Encyclopedia of Physical Science & Technology</i> | Reference Q123 .E497 2002 Available online through PITT <i>Cat+</i> |
| <i>Grzimek's Animal Life Encyclopedia</i> | Reference QL7 .G7813 2003 Available online through PITT <i>Cat+</i> |
| <i>McGraw Hill Dictionary of BioScience</i> | Available online through PITT <i>Cat+</i> |

Handbooks and Data

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|---|-----------------------------|
| <i>Bergey's Manual of Systematic Bacteriology</i> | Reference QR81 .B46 2001 |
| <i>Biology Data Book</i> | Reference QH310 .A392 |
| <i>Biomedical Engineering Handbook</i> | Reference R856.15 .B56 1995 |

CRC Handbook of Chemistry & Physics

Reference QD65 .H3

Synopsis and Classification of Living Organisms

Reference QH83 .S89

Indexes & Databases

*Locate under “Find Articles” tab, and then click “Databases A-Z.”

Aquatic Sciences & Fisheries Abstracts (ASFA)*

This resource is a major index for aquatic sciences literature. It indexes more than 4500 journals, books and reports from 1978 to present and includes some full-text links.

BIOSIS Previews*

This database indexes over 6000 journals, as well as books, book chapters and review articles in the life sciences from 1969 to present.

BioOne*

Collection of more than 40 full-text scholarly research journals focused on the biosciences.

ScienceDirect *

This provides indexing of approximately 2800 scholarly journals, with full-text access to over 1500 Elsevier journals.

Web of Science*

This resource offers access to an electronic version of the *Science Citation Index*. Index coverage is 1993 to present. It is searchable by keyword, author and cited reference. This is a useful database for identifying related publications, by searching for another publication that cites a known article in their bibliography.

Zoological Record*

This database provides indexing coverage to over 6000 journals, selected dissertations and conference proceedings from 1978 to present. Some full-text links. Scope includes all aspects of zoology, including behavior, biochemistry, ecology, evolution, genetics, habitat, life cycle and more.

Some Useful Internet Resources

AmphibiaWeb

<http://amphibiaweb.org/>

This web site provides information on amphibian biology and conservation.

Animal Diversity Web

<http://animaldiversity.ummz.umich.edu/site/index.html>

Created by students at the University of Michigan, this is a database of animal natural history, distribution, classification, and conservation biology.

Biology Browser (BIOSIS)

<http://www.biologybrowser.org/>

Quality biology web links, science news and other free biology resources.

Biology Links: Biochemistry and Molecular Biology (Harvard U.)

<http://mcb.harvard.edu/BioLinks/biochem.html>

Bird Checklists of the United States (USGS)

<http://www.npwrc.usgs.gov/resource/birds/chekbird/>

Cell and Molecular Biology Online

<http://www.cellbio.com/>

Research protocols links, research labs, recommended links, useful tables and more.

e-Nature.com Online Field Guides

<http://www.enature.com/fieldguides/>

Field guides provide habitat, range, species descriptions and images of flora and fauna.

National Center for Biotechnology Information

<http://www.ncbi.nlm.nih.gov>

Provides links to useful databases and data sets, including *GenBank* nucleotide sequence and taxonomy organism databases, a protein sequence database, macromolecular structures, population study data sets, genome assemblies, and much more.

FishBase

<http://fishbase.org/home.htm>

This provides detailed descriptions on more than 27,000 species of fish. Search by common or scientific name.

Herpetology.com

<http://herpetology.com>

National Biological Information Infrastructure (NBII)

<http://www.nbi.gov/>

This resource provides access to national, state, local and private biological databases.

The Pennsylvania Flora Project

<http://www.paflora.org/>

PLANTS Database (USDA)

<http://plants.usda.gov/>

This database provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories. It also includes names, plant symbols, checklists, distributional data, species, abstracts, characteristics, images, plant links, references, crop information and more.

The Tree of Life

<http://tolweb.org/tree/>

This web site provides information about phylogeny and biodiversity.