

BIO 302 Genetics

The goal of this library research session is to enable you to find at least five peer-reviewed journal articles for your lab report assignment.

Four Useful Databases

1. “**AGRICOLA (AGRICultural OnLine Access)** is a bibliographic database of citations to the agricultural literature ... and covers ... agriculture and allied disciplines, including animal and veterinary sciences, entomology, plant sciences, forestry, aquaculture and fisheries, farming and farming systems, agricultural economics, extension and education, food and human nutrition, and earth and environmental sciences. Although AGRICOLA does not contain the materials, thousands of AGRICOLA records are linked to online full-text documents, with new links being added every day. AGRICOLA is searchable on the World Wide Web at <http://agricola.nal.usda.gov>.” From the “What is AGRICOLA?” webpage: <http://agricola.nal.usda.gov/help/aboutagricola.html>
2. *PubMed Central* – PMC is the “National Institute of Health’s free digital archive of biomedical and life sciences journal literature”.
<http://www.pubmedcentral.nih.gov>
3. *JSTOR* – Is a complete archive of core scholarly journals on many topics starting with first issues as far back as the nineteenth century.
4. ScienceDirect - Full-text journal articles in science, technology, and medicine

The last two databases are available from the Library’s Home Page (www.sunyit.edu/library), on the “Databases by Subject” page. (They are also available from home, and instructions are at the bottom of this handout.) They provide the full text of articles from professional journals, but they do not have the full text of every article; some results will be only citations or summaries.

General Procedure For Searching A Database

1. Perform a keyword search using important terms that define your topic.
2. Find a good result and look at its Subject.
3. Perform a subject search using the Subject you find.

Accessing Databases From Home

All of the Library’s databases are available from home. You need your college e-mail username and password to access them.

1. Go to the Library Home Page: <http://www.sunyit.edu/library>
2. Click on “Databases by Subject”
3. Click on the name of a database.
4. Enter your college e-mail username and password.

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Where to find free full-text journal articles on the Internet:

PloS Biology, primary research articles in all aspects of biology, also includes primers, essays, and feature articles.

<http://biology.plosjournals.org/perlserv/?request=index-html&issn=1545-7885>

Highwire Journals provides full-text of 345 leading journals -- including 44 of the 100 most-frequently cited journals in the world <http://highwire.stanford.edu>

Google Directory: go to www.google.com

select Directory, then Science, then Biology, then Publications, then Journals

BiologyBrowser, produced by BIOSIS, links to a large number of publishers' web sites where you can search the contents of the journals (**not all full-text** but useful).

<http://www.biologybrowser.org/bb/Subject/Botany/index.shtml>

Biology Guides on the Internet:

Google Directory: go to www.google.com

select Directory, then Science, then Biology, then Botany (or another category).

Ken's Bio-Web Resources: Biology Web Site References for Students and Teachers, (select growth) <http://www.kensbiorefs.com/pltphys.html>

BiologyOnline tutorial:

http://www.biology-online.org/3/9_effect_light.htm

Reference Help for Biology:

This is a metasite of dictionaries, select biology or botany

<http://www.yourdictionary.com/diction4.html>

Glossary of Biological Terms from University of California, Berkeley

<http://www.ucmp.berkeley.edu/glossary/glossary.html>

Taxonomic Information for Botany:

Flora of North America provides names, taxonomic relationships, continent-wide distributions, and morphological characteristics of all plants native and naturalized found in North America north of Mexico. (From Harvard)

<http://hua.huh.harvard.edu/FNA>

Integrated Taxonomic Information System- a government site that provides reliable information on species names and their hierarchical classification.

<http://www.itis.usda.gov>

CBE Citation help:

<http://writing.colostate.edu/references/sources/cbe/printFormat.cfm?printformat=yes>

Make a Citation – SUNTIT Library Home Page, under Research Guides