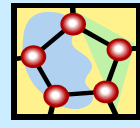
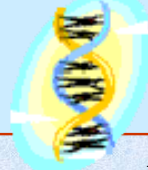
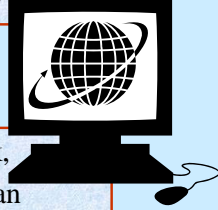


BSC3402L: Comparative Genomics
Library Resources in the Biosciences
September 5, 2006

Michael Luesebrink,
Instructional Librarian
Learning Services Department
Florida State University Libraries



INTRODUCTION

•Today's presentation - overview on how to access information sources in the bioscience literature. This session will be a hands on demonstration and practical application on how to search, find, locate, and extract the information you need for your class project.

Instructional Objectives

- Access bioscience literature using Libraries' homepage to find information sources
- Construct and execute search strategies to accurately find information sources
- Identify the various formats comprising bioscience literature
- Search, locate, extract, evaluate information sources for your research needs.



Accessing University Libraries' Services:

For off campus access to secondary literature you need to supply your FSU e-mail account

<http://www.lib.fsu.edu>

Accessing University Libraries' Resources:

Books, Periodicals

Secondary Literature

Electronic Tools

Information Resources in the Bioscience Literature



- FSU Libraries' online catalog.
- Primary literature
- Secondary literature
- Full text access

Bioscience Literature: Monographs

Or books that come in various forms such as:

- **Treatises**,
- **Textbooks**
- **Reference materials** - Dictionaries, encyclopedias, guides, handbooks, etc...
- You find the library's monographic bioscience literature in the *online* catalog.



What is a catalog?

- **Catalog** - access to a library's collections.
- Each item in library has a *catalog record*.
- Catalog provides access points such as author, title, subject, keyword, etc..
- You locate items in the library collection by its call number.

Bioscience Literature: The Primary Literature

- Describes current thinking, and research trends in the discipline.
- Issued in successive intervals.
- **Serials** - Annual reviews, Symposiums, Conference proceedings.....
- **Periodicals** include journals, such as magazines (popular journals), trade journals and scholarly journals.

Scholarly Journals: An overview



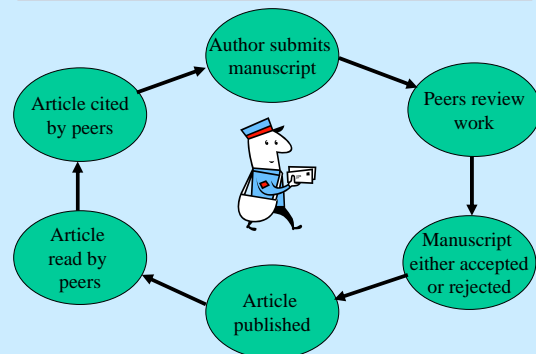
- First communication of scientific results through correspondence... letters.
- Gutenberg press - print culture revolution.
- Scholarly journals emerged in 17th Century

Scholarly Journals: An overview



- Functions of scholarly journal:
- Dissemination of scientific information
- Knowledge production
- Traditional model of scholarly publishing
- Peer review process

Peer Review Process: Publishing cycle



Scholarly Journals and Peer Review Process



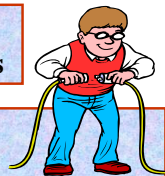
- Peer review process and scholarly publishing has been traditional model of scientific communication for over two centuries.
- Recently with the emergence of the Internet came the birth of the electronic journal.
- The E-journal has changed scholarly publishing with the electronic culture.

Finding Bioscience Information Sources: The Secondary Literature



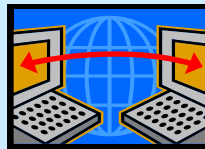
- Guides to the Literature a.k.a. “Databases
- Web of Science*
- Biological Abstracts* a.k.a. *Biosis Previews*
- Cambridge Scientific Abstracts*

Full Text Access Electronic journal providers



- Elsevier’s Science Direct
- Oxford University Press
- Wiley Interscience
- Annual Reviews
- Kluwer
- American Physiological Society
- And more!

Online Information Resources: Library resource management tools:

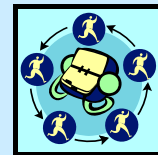


Serials Solutions
SFX
RefWorks

Serials Solutions

- Provides scope to full text access of bioscience journals.
- Information on years covered and what vendors provide full text access.
- Lets see if the *Journal of Structural and Functional Genomics* available full text.

SFX



- SFX** - Database management tool you can use when searching the primary literature.
- It provides links to the library online catalog, full text access, interlibrary loan, citation management software and more!

RefWorks

- RefWorks is a web based bibliographic management tool.
- Users create their own personal databases by importing references from other online databases.
- They can use these references in writing papers by automatically formatting the bibliography in seconds.



- In closing...
- What have we learned so far?
- This is just an orientation, a preview for this afternoon.
- See you then!

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Steps in Defining your Search

- Step 1: Select a topic that interests you.
- Step 2. Browse the literature
- Step 3. State topic in form of a question
- Step 4. Implement a search strategy by constructing a search statement
- Step 5. Break down terms into simple terms.

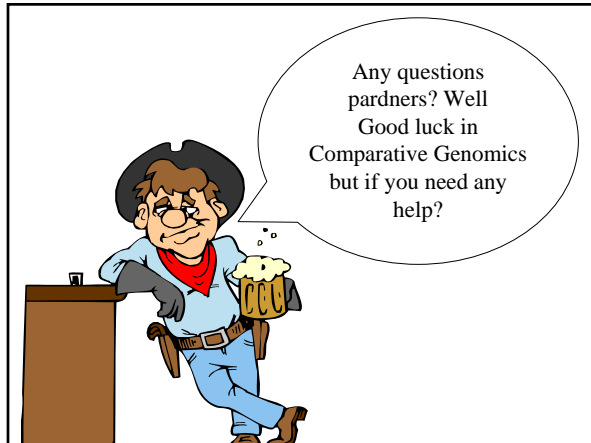
- Step 1:** Select a topic that interests you.
- For example lets say you are interested in the topic of *data mining in genomics*
- Step 2.** Browse the literature
- Books are good background information but information 3-5 years old
- Periodicals contain more recent information and reflect current trends

- Step 3:** State topic in form of a question.
- Should contain all elements of your topic.
- For example, after browsing the literature, you're interested in *data mining of microbial genomics and biosynthetic pathways*. So put it in the form of a question as.....
- How does genome mining affect the discovery of biosynthetic pathways in bacteria?

- **Step 4:** Implement search strategy or.....
- Construct search statements
- Should contain all terms or concepts of your topic.
- So for the question lets make the statement
Genome mining AND biosynthetic pathway*
AND bacteria OR microb*

Search The Primary Literature

- Lets now search your topics and use the practice sheet to help you with your searching.
- Are you up for the challenge?
- Good luck!
- I'll be here to help you!



http://www.lib.fsu.edu/research_services

Forms
Request for Research Consultation
(* = required items)

Basic Catalog Search
[Title Keyword] [Go] [Go]

Advanced Catalog Search
• Book Reserve
• Course Reserves
Find articles

Resources & Services for:
Faculty
Graduate Students
Undergraduates

Resources by Subject:
Anthropology, Art, Biology... more

Web Page Directories
List all Databases, ABI/INFORM Global, ERIC (CSA), Expanded Academic, ASAP... more

General Resources
Begin Your Research, Citation Management, Databases, Journals

Quick Links
• Home
• Databases
• Off Campus Access
• E-Resources by Subject
• Most Used Database
• Journals
• Find Articles
• SFX Linkage
• Reference
• Contacts
• Forms
• Hours

News
• Term Paper Clinic
• Orange Bowl Gift (FSU Athletics)
• Motion Lighting Installation (4th-5th Floors Staircase)
• Designated Quiet Study Areas
• SFX
• ILLiad
• Full Author Database
• New Databases

Times you are available:
Date (1):
Time(s) (1):
Date (2):
Time(s) (2):
* Date project or assignment is due:
* Last date consultation will be useful:
For what class?:
Length of paper:

If you need help with your class project then please request a *Research Consultation* with FSU Libraries.

