Advanced Research Methodologies

David S. Shawah
Product Manager
iGroup

OBJECTIVE

Improve your Research Knowledge and Skills

Advanced???

- **Comprehensive**
- **Detailed**
- **Thorough**
- **Systematic**
- **Meticulous**

What is Advanced Research???

- **Able to see everything on your TOPIC**
- **Complete….do not miss anything**
- **Search all TYPES of RESOURCES for Answers**

- **Journals**
- **Reference Books**
- **Standards**
- **Dissertations**
- **Proceedings**
- **Patents**

CAN WE USE PRINT INSTEAD OF ONLINE???

How CAN you EFFECTIVELY Search THOUSANDS of

- **Articles**
- **Journals**
- **Books**
- **Dissertations**
- **Etc.**

USING PRINT???

PRINT

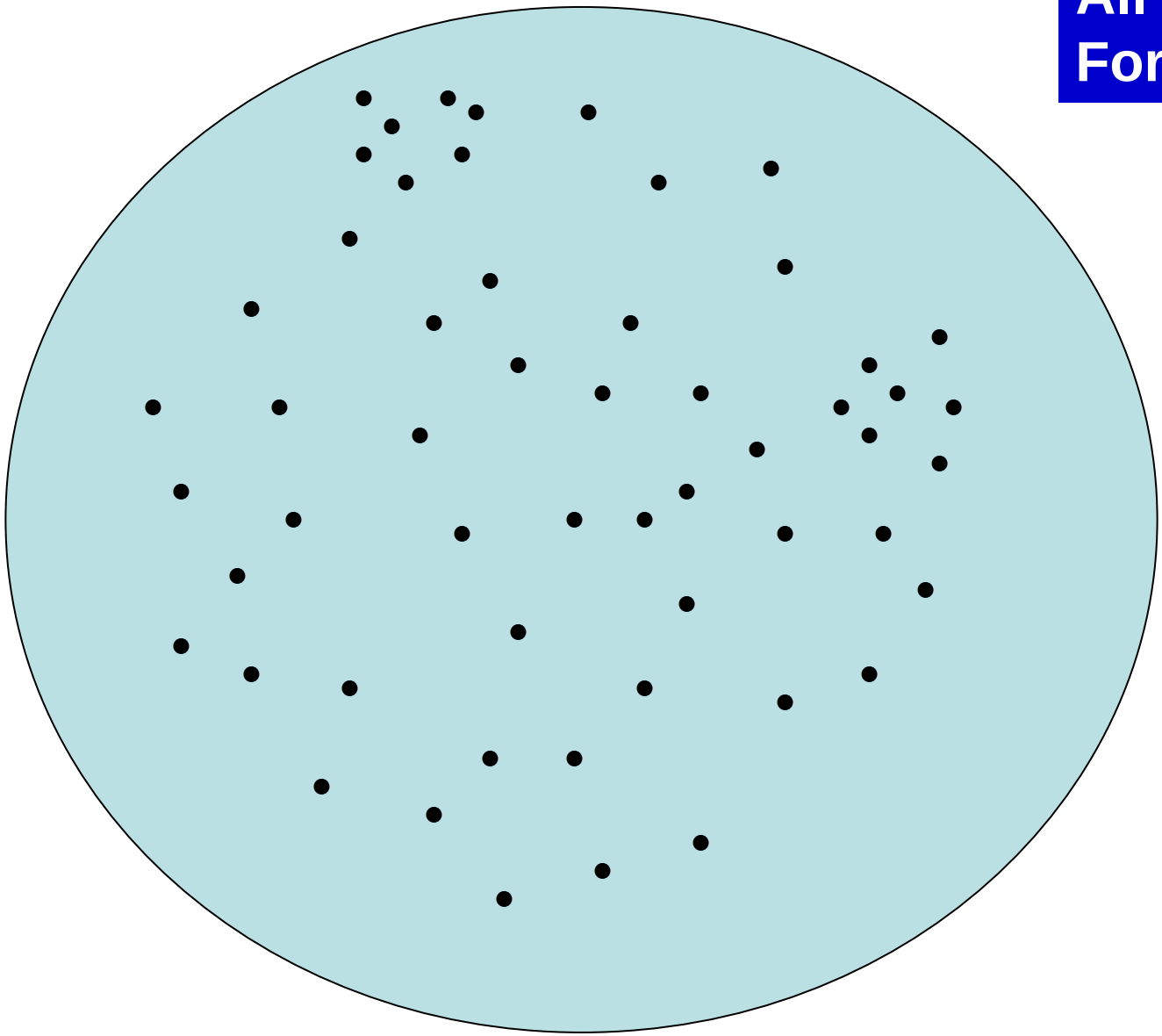
- **Easy for Reading**
- **Good for Selecting by Title**
- **Good for AFTER you IDENTIFY your Article.**

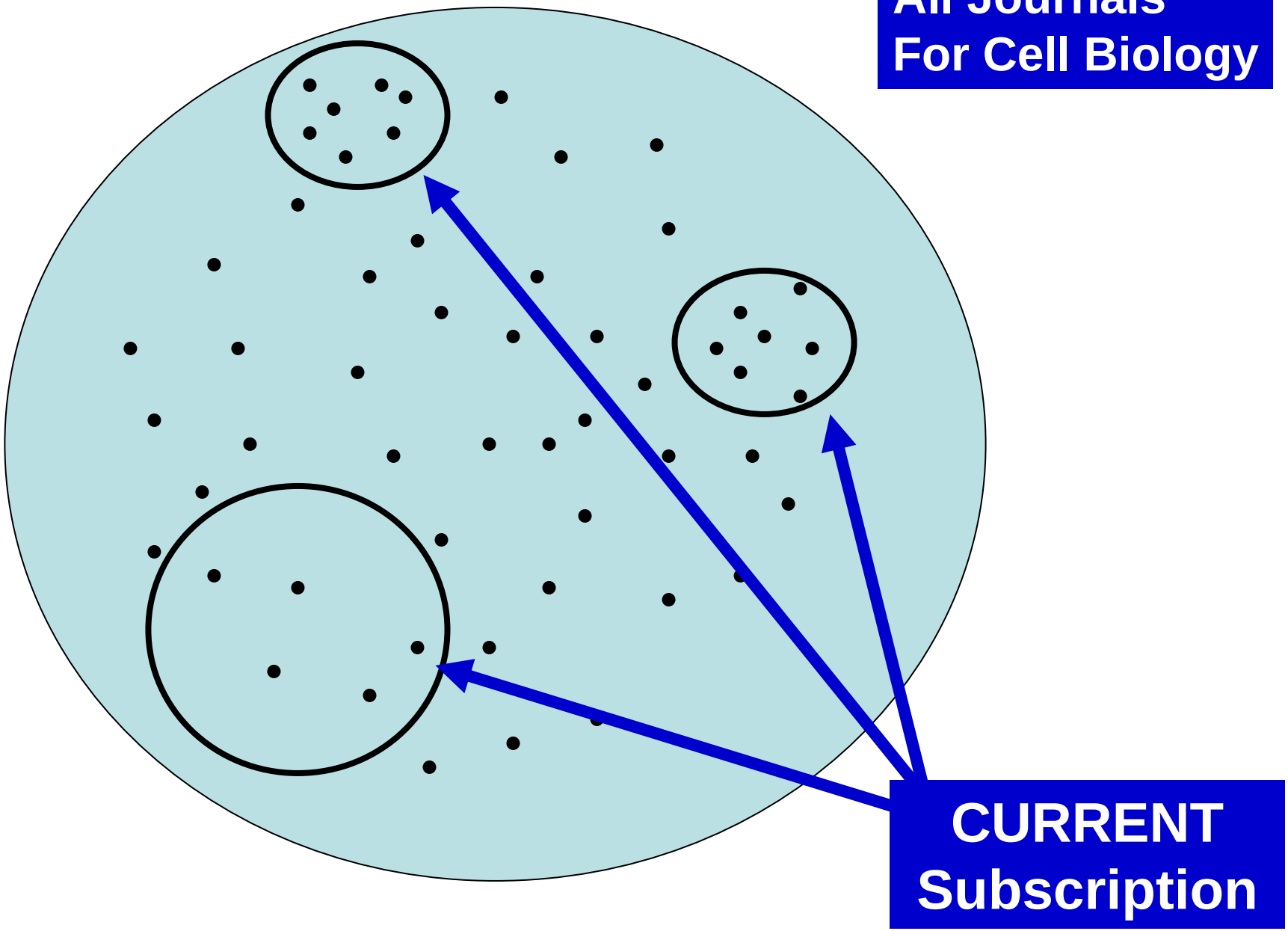
What is the First STEP???

Ensure Research
IS COMPLETE!!!

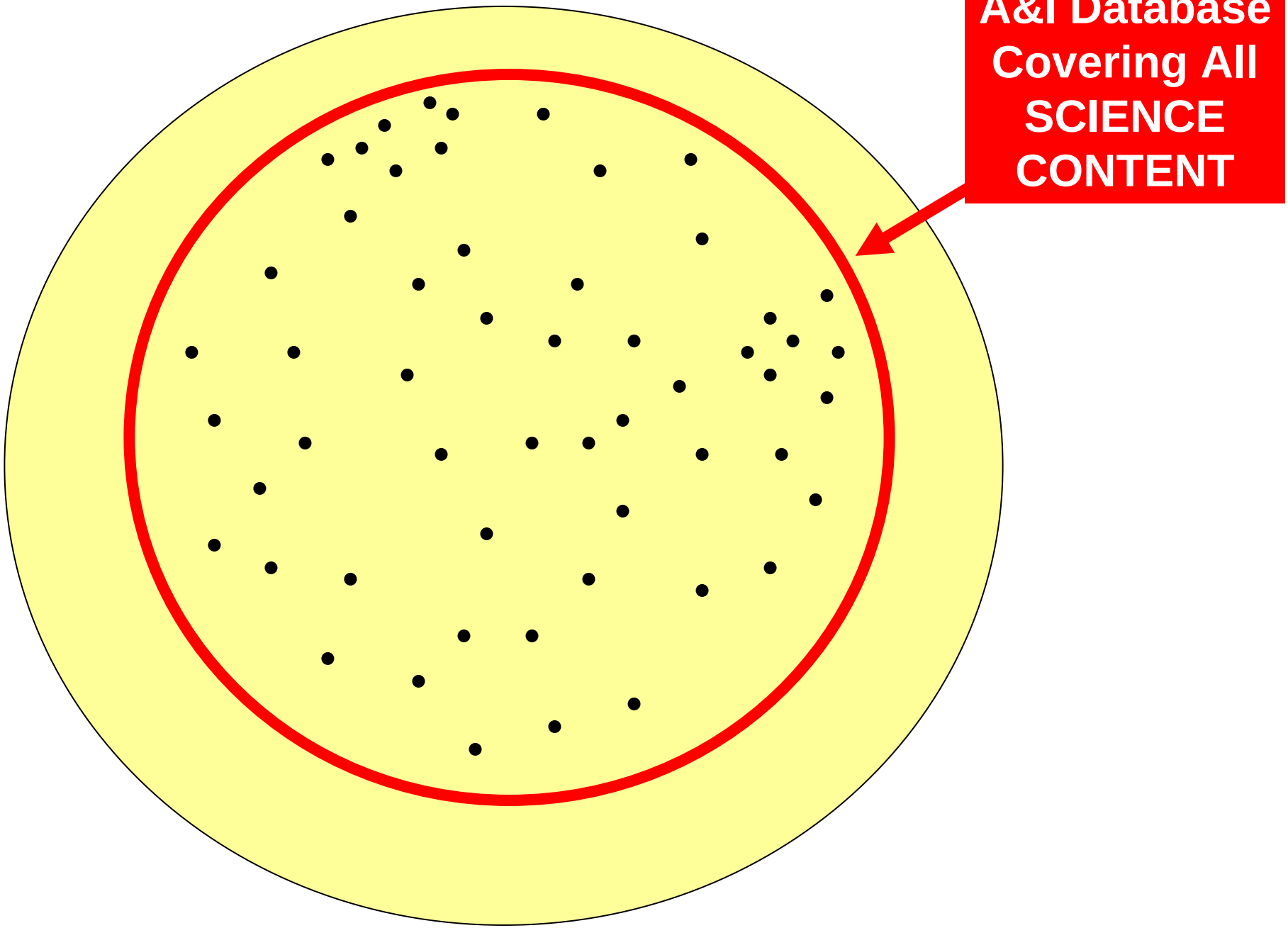
FORGET ABOUT FULL TEXT!!!

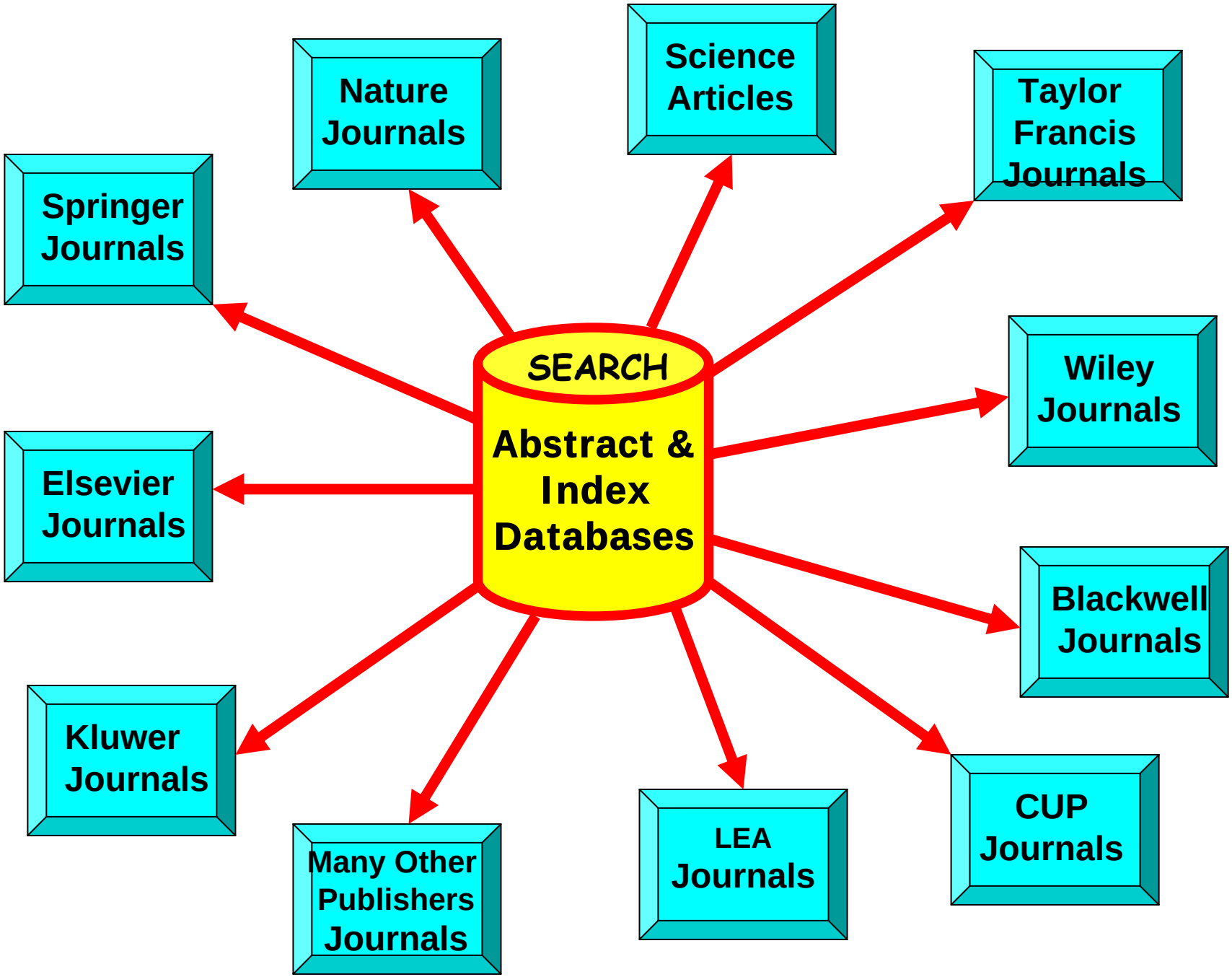
All Journals
For Cell Biology




All Journals
For Cell Biology
CURRENT
Subscription

RESEARCH IS NOT COMPLETE!!!


A&I Database
Covering All
SCIENCE
CONTENT


SEARCH
Abstract & Index Databases
Nature Journals
Science Articles
Taylor Francis Journals
Springer Journals
Wiley Journals
Elsevier Journals
Blackwell Journals
Kluwer Journals
CUP Journals
Many Other Publishers Journals
LEA Journals

Need Abstract & Index Database

ONE Database that Covers Large % of the CORE CONTENT!!!!

Abstract & Index???

- **Abstract – Detailed Summary of Article**
- **Index – each Article is identified so that it is easy to FIND**
- **Can LINK to FULL TEXT**

A&I Databases

NOW you can LINK or Search the *Full Text!!!*

Where To GET CORE FULL TEXT???

Top Five Publishers

Where To GET CORE FULL TEXT???

Medium Size Publishers

Society Publishers

ANNUAL REVIEWS

Intelligent Synthesis of the Scientific Literature

Nonprofit Publisher of the *Annual Review of*™ Series

Society Publishers

Where To GET CORE FULL TEXT???

University Publishers

Where To Find Info on Chemical Reactions, Formulas, Techniques, Statistical & Engineering Data, Etc.

Reference & Handbook Publishers

CRC netBASE

Knovel

kluwer online eBOOKS

STAT!Ref ELECTRONIC MEDICAL LIBRARY

YAHOO!

LYCOS

Google

Google Scholar BETA

www.scholar.google.com

DOGPILE

HOW TO SEARCH THE DATABASES????

Searching Methods

- **Natural Language Search**
  - **General search….starting research**
  - **When we don't know what to search for yet**
  - **Retrieve a lot of Results**

- **Terms & Connectors**
  - **Very Precise searching method**
  - **To Expand Results or Focus Results**

Searching "Fields"

- **What field should you Search???**
  - **Subject**
  - **Keyword**
  - **Abstract**
  - **Full Text**

- **What do you want to do???**
  - **Expand Result List**
  - **Narrow Result List**

Lets Review the Different Types of Research Resources!!!!!!

JOURNALS

- **Peer Review - One or Two Editorial Levels to Ensure Highest Quality and Originality of Article.** ***(Nature, Science, Cytopathology).***

- **Non-Peer Review – All other Periodicals used for general research and information.** ***(The Economist, Bangkok Post, Newsweek)***

BOOKS

- **Reference/Handbook – Factual Info/Data, Charts, Formulas, Stats, etc. (Biomechanical Systems, Handbook of Lasers)**

- **Textbooks – Course Study Materials (Financial Accounting, Fundamentals of Chemistry)**

BOOKS

- **LITERATURE – Fiction (Hamlet, Cannery Row)**

- **GENERAL – All Other Books (Nonfiction)**

OTHER SOURCES

- **Dissertations/Theses – Masters and PhD. Program dissertations (considered Scholarly Research)**
- **Proceedings – Articles from Important Seminars or Conference (ACM, IEEE)**
- **Reviews – Articles written by Professionals that discuss other Articles, Journals and Books. (Reviews.Com, Ulrich)**

OTHER SOURCES

- **Transactions - Important Papers from Research that needs to be published quickly (ACM, IEEE)**

- **Lecture Notes - Actual Class Notes from Prestigious Professors at Top Graduate Schools around the world.**

- **Patents – US, Japanese and Euro Patents…Scientific, Technologies and Business Models**

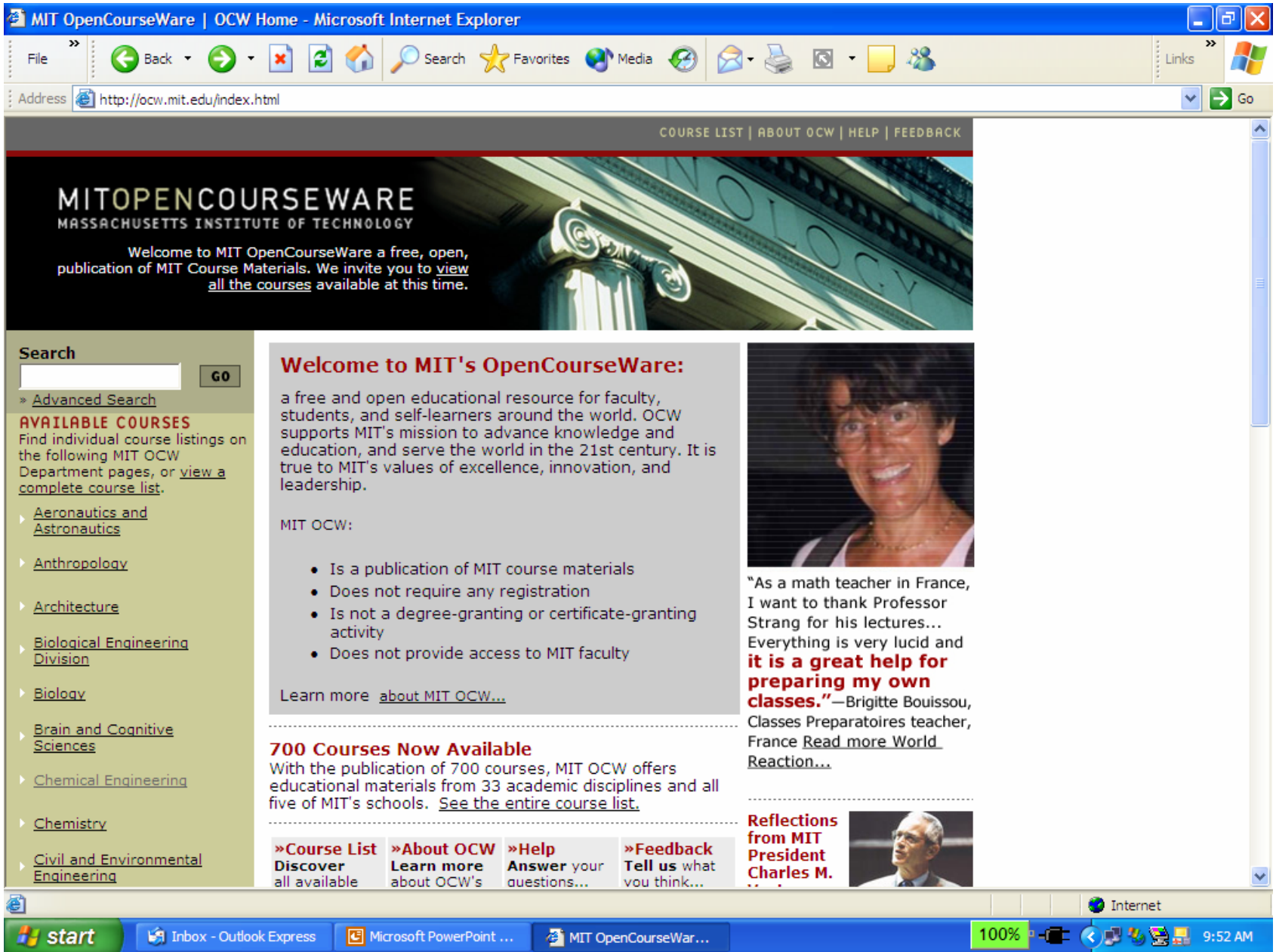
OTHER SOURCES

- **Standards – Engineering, Design, Testing and Innovation (ASTM, ISO, DIN…)**
- **Open Archive Initiatives – Publishers join together to Publish their archive articles for Free!!!**
- **MIT Courseware - *????????***

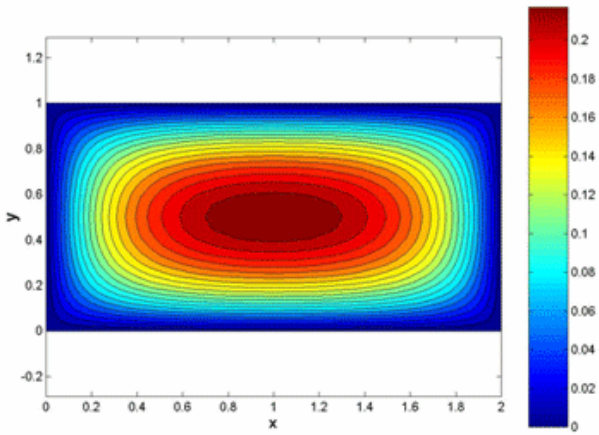
MIT Courseware

- **FREE!!!!!!**
- **Over 1,100 Courses Published**
- **EASY TO USE!!!!**
  - **Course Syllabus/Outline** ***(Under Grad & Grad)***
  - **Lecture Notes**
  - **Assignments**
  - **Tools**
  - **Other Resources**

http://ocw.mit.edu



10.34 Numerical Methods Applied to Chemical Engineering, Fall 2001



Velocity distribution inside duct, Newtonian fluid.
(Produced by Professor Kenneth Beers with Matlab® software.)

Staff

Instructor:
Prof. Kenneth Beers

Course Meeting Times

Lectures:
Two sessions / week
1.5 hours / session

Level

Undergraduate

Feedback

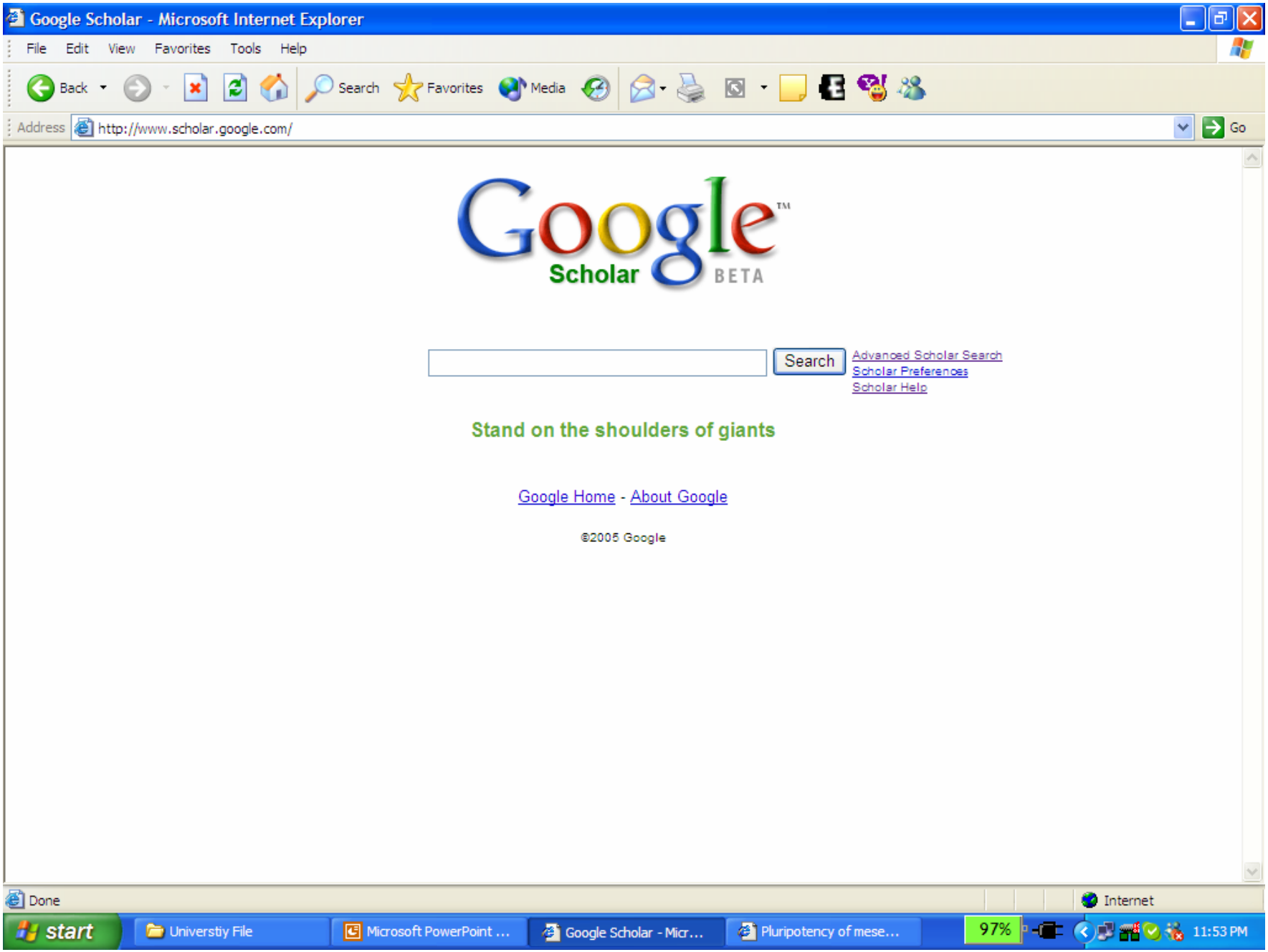
Send feedback about OCW or this course.

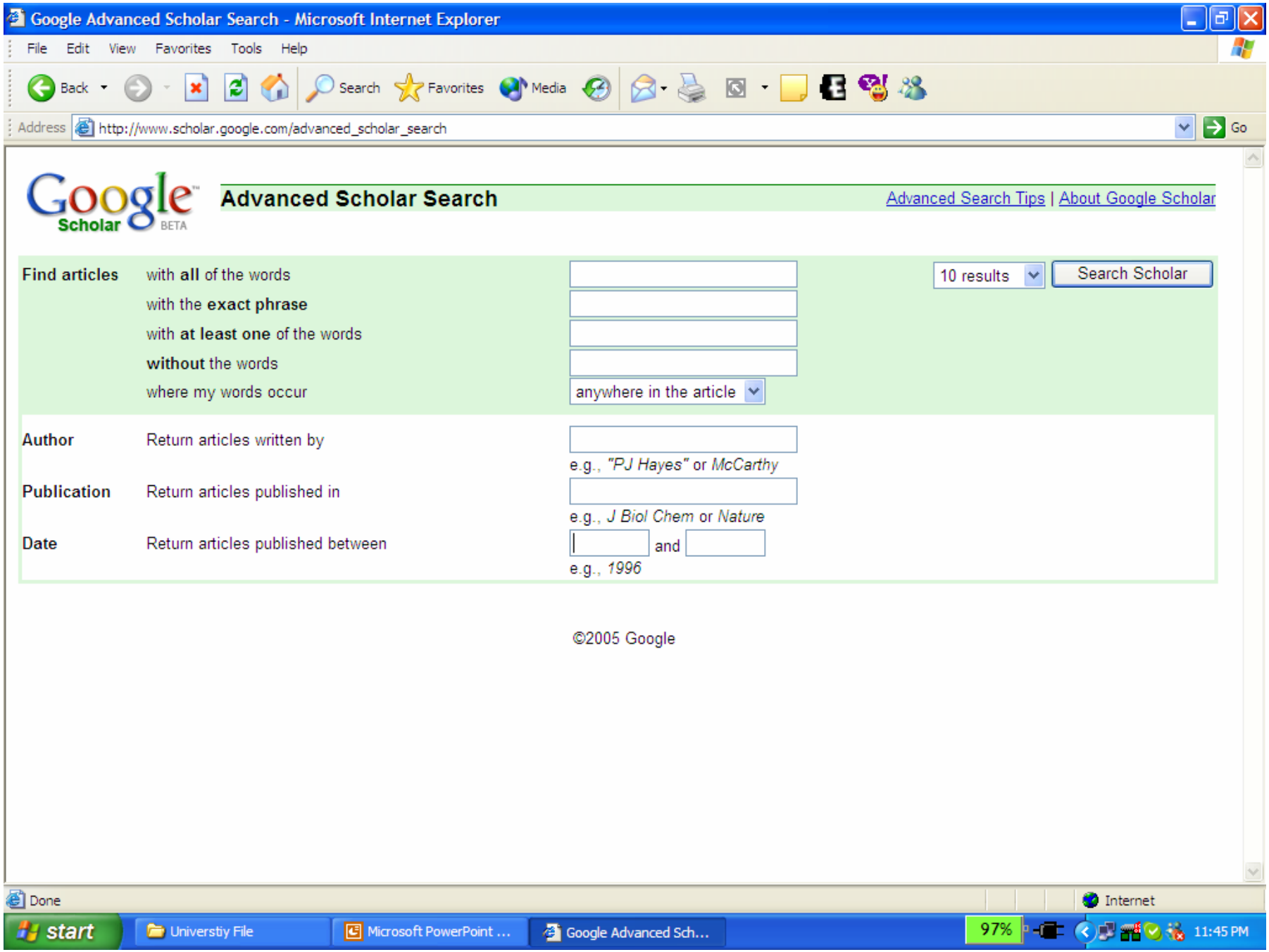
Highlights of this Course

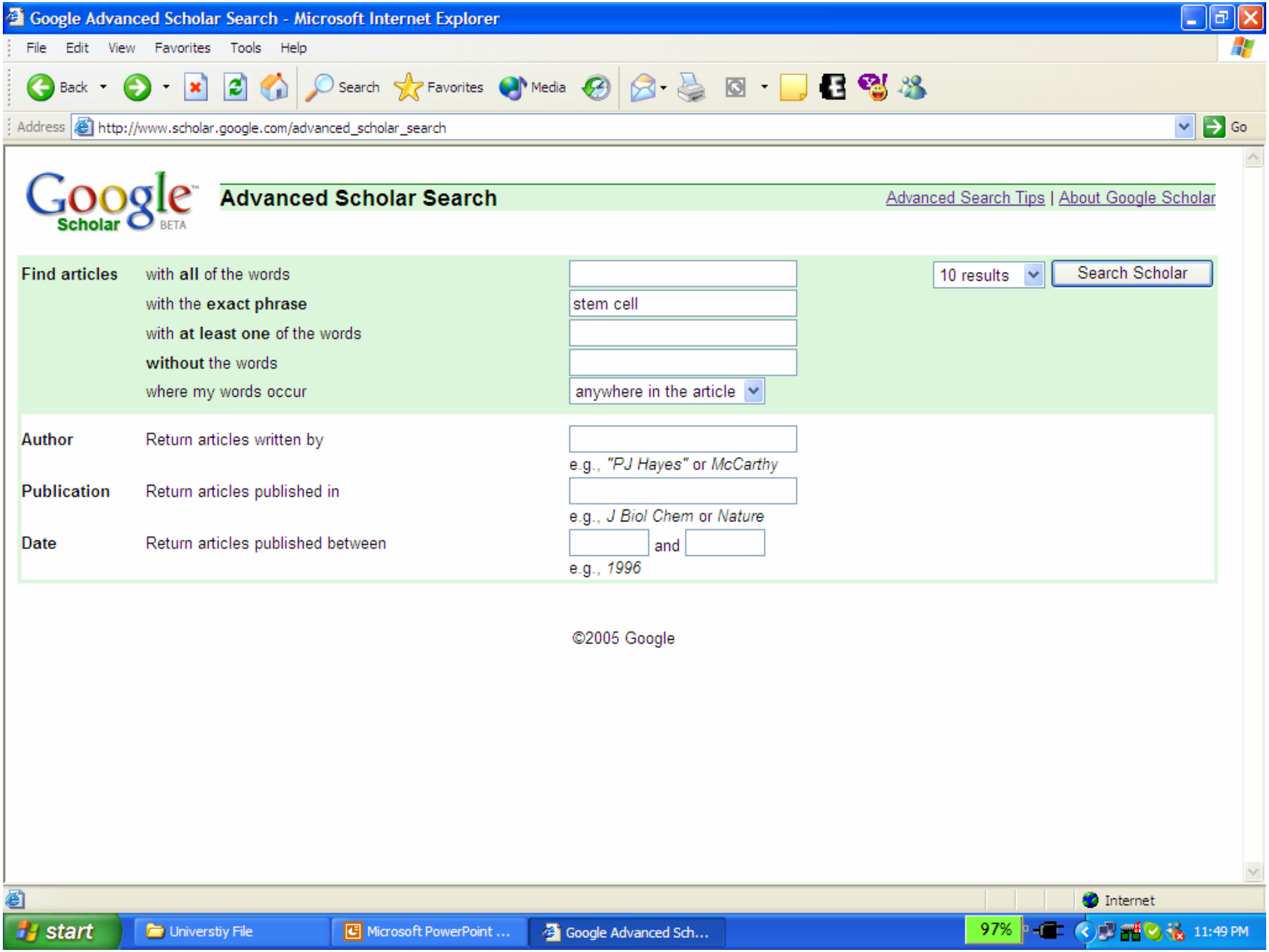
Professor Kenneth Beers' course site features more than 40 of his Lecture Notes in PDF format, a Matlab® tutorial and a collection of Matlab®-related Tools in HTML or PDF-format labs; and a extensive list of readings under the Related Resources section of the site.

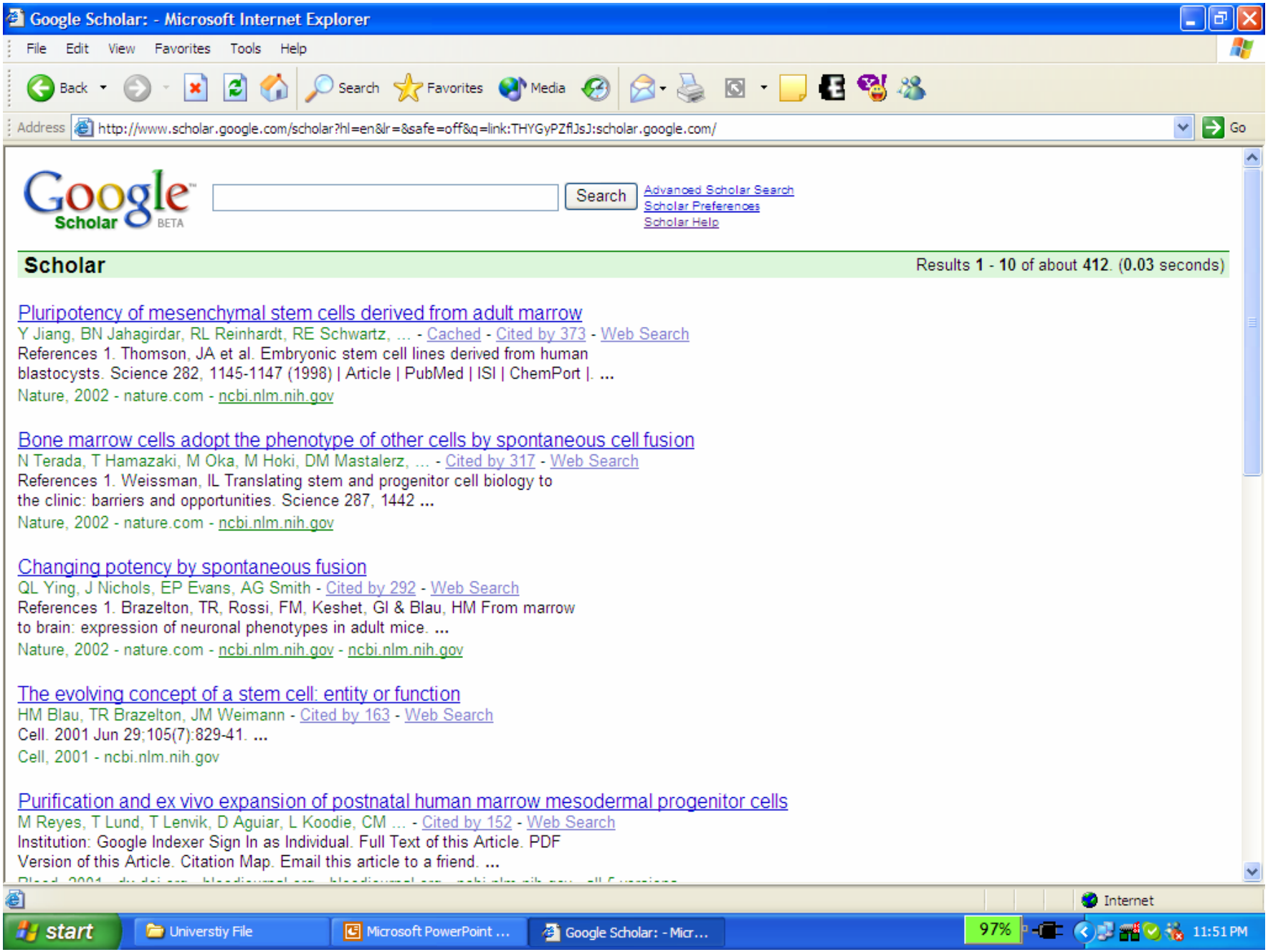
Course Description

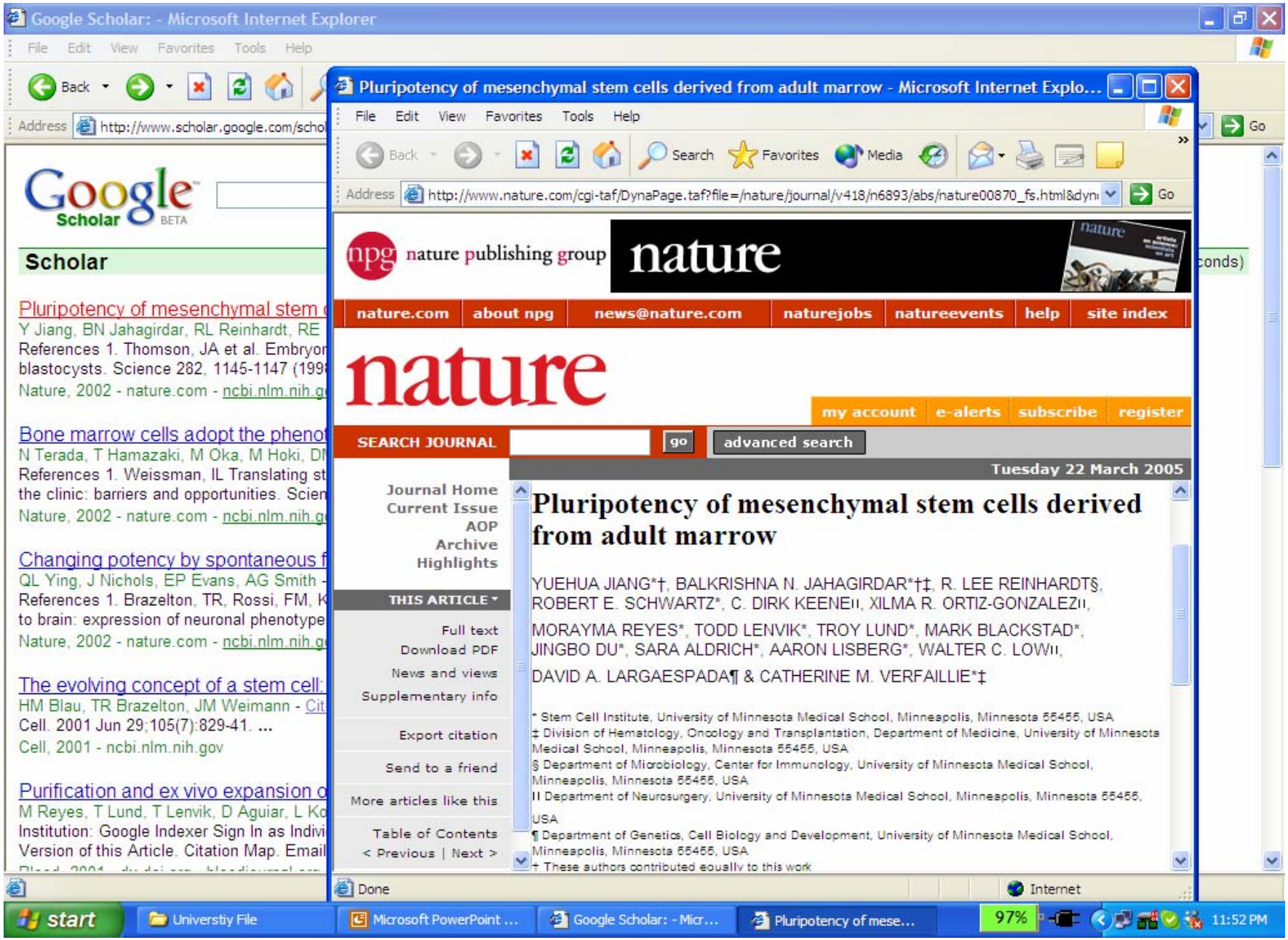
This course focuses on the use of modern computational and mathematical techniques in chemical engineering. Starting from a discussion of linear systems as the basic


Google Scholar - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.scholar.google.com/
Go
Google™
Scholar BETA
Search
Advanced Scholar Search
Scholar Preferences
Scholar Help
Stand on the shoulders of giants
Google Home - About Google
©2005 Google
Done
Internet
start
Universtiy File
Microsoft PowerPoint ...
Google Scholar - Micr...
Pluripotency of mese...
97%
11:53 PM


Google Advanced Scholar Search - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.scholar.google.com/advanced_scholar_search
Go
Google Scholar BETA
Advanced Scholar Search
Advanced Search Tips | About Google Scholar
Find articles
with all of the words
with the exact phrase
with at least one of the words
without the words
where my words occur
anywhere in the article
10 results
Search Scholar
Author
Return articles written by
e.g., "PJ Hayes" or McCarthy
Publication
Return articles published in
e.g., J Biol Chem or Nature
Date
Return articles published between
and
e.g., 1996
©2005 Google
Done
Internet
start
Universtiy File
Microsoft PowerPoint ...
Google Advanced Sch...
97%
11:45 PM


Google Advanced Scholar Search - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.scholar.google.com/advanced_scholar_search
Go
Google Scholar BETA
Advanced Scholar Search
Advanced Search Tips | About Google Scholar
Find articles
with all of the words
with the exact phrase
stem cell
with at least one of the words
without the words
where my words occur
anywhere in the article
10 results
Search Scholar
Author
Return articles written by
e.g., "PJ Hayes" or McCarthy
Publication
Return articles published in
e.g., J Biol Chem or Nature
Date
Return articles published between
and
e.g., 1996
©2005 Google
Internet
start
Universtiy File
Microsoft PowerPoint ...
Google Advanced Sch...
97%
11:49 PM


Google Scholar: - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.scholar.google.com/scholar?hl=en&lr=&safe=off&q=link:THYGyPZflJsJ:scholar.google.com/
Go
Google Scholar BETA
Search
Advanced Scholar Search
Scholar Preferences
Scholar Help
Scholar
Results 1 - 10 of about 412. (0.03 seconds)
Pluripotency of mesenchymal stem cells derived from adult marrow
Y Jiang, BN Jahagirdar, RL Reinhardt, RE Schwartz, ... - Cached - Cited by 373 - Web Search
References 1. Thomson, JA et al. Embryonic stem cell lines derived from human blastocysts. Science 282, 1145-1147 (1998) | Article | PubMed | ISI | ChemPort |. ...
Nature, 2002 - nature.com - ncbi.nlm.nih.gov
Bone marrow cells adopt the phenotype of other cells by spontaneous cell fusion
N Terada, T Hamazaki, M Oka, M Hoki, DM Mastalerz, ... - Cited by 317 - Web Search
References 1. Weissman, IL Translating stem and progenitor cell biology to the clinic: barriers and opportunities. Science 287, 1442 ...
Nature, 2002 - nature.com - ncbi.nlm.nih.gov
Changing potency by spontaneous fusion
QL Ying, J Nichols, EP Evans, AG Smith - Cited by 292 - Web Search
References 1. Brazelton, TR, Rossi, FM, Keshet, GI & Blau, HM From marrow to brain: expression of neuronal phenotypes in adult mice. ...
Nature, 2002 - nature.com - ncbi.nlm.nih.gov - ncbi.nlm.nih.gov
The evolving concept of a stem cell: entity or function
HM Blau, TR Brazelton, JM Weimann - Cited by 163 - Web Search
Cell. 2001 Jun 29;105(7):829-41. ...
Cell, 2001 - ncbi.nlm.nih.gov
Purification and ex vivo expansion of postnatal human marrow mesodermal progenitor cells
M Reyes, T Lund, T Lenvik, D Aguiar, L Koodie, CM ... - Cited by 152 - Web Search
Institution: Google Indexer Sign In as Individual. Full Text of this Article. PDF Version of this Article. Citation Map. Email this article to a friend. ...
Internet
start
Universtiy File
Microsoft PowerPoint ...
Google Scholar: - Micr...
97%
11:51 PM


Google Scholar: - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back
Address http://www.scholar.google.com/scho
Google Scholar BETA
Scholar
Pluripotency of mesenchymal stem
Y Jiang, BN Jahagirdar, RL Reinhardt, RE
References 1. Thomson, JA et al. Embryon
blastocysts. Science 282, 1145-1147 (199
Nature, 2002 - nature.com - ncbi.nlm.nih.g
Bone marrow cells adopt the phenot
N Terada, T Hamazaki, M Oka, M Hoki, D
References 1. Weissman, IL Translating st
the clinic: barriers and opportunities. Scien
Nature, 2002 - nature.com - ncbi.nlm.nih.g
Changing potency by spontaneous f
QL Ying, J Nichols, EP Evans, AG Smith -
References 1. Brazelton, TR, Rossi, FM, K
to brain: expression of neuronal phenotype
Nature, 2002 - nature.com - ncbi.nlm.nih.g
The evolving concept of a stem cell:
HM Blau, TR Brazelton, JM Weimann - Cit
Cell. 2001 Jun 29;105(7):829-41. ...
Cell, 2001 - ncbi.nlm.nih.gov
Purification and ex vivo expansion o
M Reyes, T Lund, T Lenvik, D Aguiar, L Ko
Institution: Google Indexer Sign In as Indivi
Version of this Article. Citation Map. Email
Pluripotency of mesenchymal stem cells derived from adult marrow - Microsoft Internet Explo...
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://www.nature.com/cgi-taf/DynaPage.taf?file=/nature/journal/v418/n6893/abs/nature00870_fs.html&dyn
Go
nature publishing group
nature
nature.com about npg news@nature.com naturejobs natureevents help site index
nature
my account e-alerts subscribe register
SEARCH JOURNAL go advanced search
Tuesday 22 March 2005
Journal Home
Current Issue
AOP
Archive
Highlights
THIS ARTICLE
Full text
Download PDF
News and views
Supplementary info
Export citation
Send to a friend
More articles like this
Table of Contents
< Previous | Next >
Pluripotency of mesenchymal stem cells derived from adult marrow
YUEHUA JIANG*†, BALKRISHNA N. JAHAGIRDAR*†‡, R. LEE REINHARDT§, ROBERT E. SCHWARTZ*, C. DIRK KEENE||, XILMA R. ORTIZ-GONZALEZ||, MORAYMA REYES*, TODD LENVIK*, TROY LUND*, MARK BLACKSTAD*, JINGBO DU*, SARA ALDRICH*, AARON LISBERG*, WALTER C. LOW||, DAVID A. LARGAESPADA¶ & CATHERINE M. VERFAILLIE*‡
* Stem Cell Institute, University of Minnesota Medical School, Minneapolis, Minnesota 55455, USA
‡ Division of Hematology, Oncology and Transplantation, Department of Medicine, University of Minnesota Medical School, Minneapolis, Minnesota 55455, USA
§ Department of Microbiology, Center for Immunology, University of Minnesota Medical School, Minneapolis, Minnesota 55455, USA
|| Department of Neurosurgery, University of Minnesota Medical School, Minneapolis, Minnesota 55455, USA
¶ Department of Genetics, Cell Biology and Development, University of Minnesota Medical School, Minneapolis, Minnesota 55455, USA
† These authors contributed equally to this work
Done
Internet
start
Universtiy File
Microsoft PowerPoint ...
Google Scholar: - Micr...
Pluripotency of mese...
97%
11:52 PM

Contact Emails

helpdesk@book.co.th

The End!!!