

Searching the Scientific Web:

Scirus &

The added benefits for the scientific community

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Sr. Product Manager Scirus

18 October 2002, CERN, Geneva



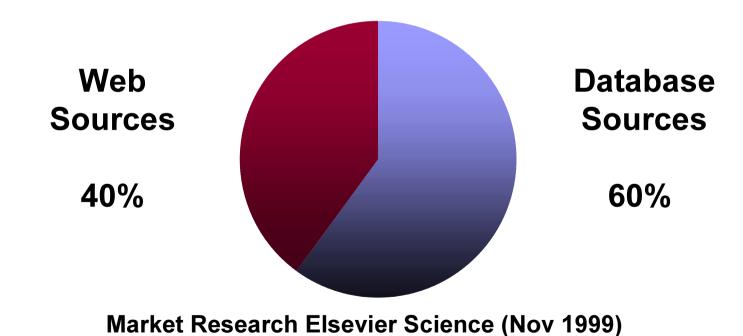
Outline Presentation

- **Why Scirus**
- **Scirus Value Chain**
- Added value for ES and scientific community





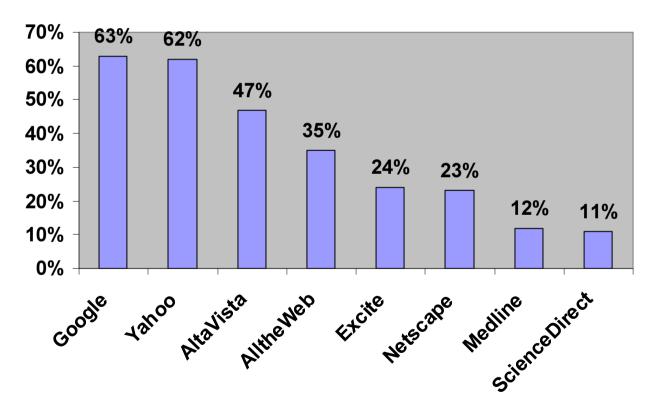
How much of your time do you spend on Web - or proprietary database sources when searching for scientific information



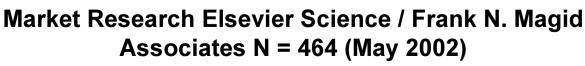




Which of the following search resources do you use to search for work-related searches?

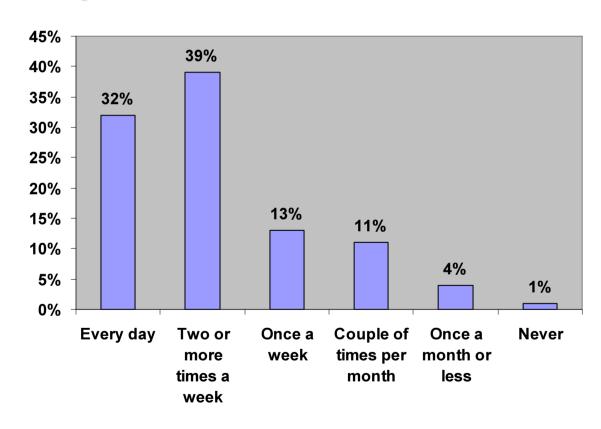




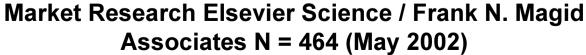




How often, if ever, do you use an Internet search engine to obtain scientific information?









- 80 % use Internet Search engines for 'every' assignment or 'most assignments'
- 50% use Library Web portals / Class Website
- 50% said that the information on the Web is not sufficient for their assignments
- 65% said that the Internet does not offer a sufficiently wide range of resources

Source: OCLC White Paper on the Information Habits of College Students (1,050 respondees)





"Four out of five students turn to mainstream search engines when they have to find information for a research project. These search engines usually miss the most useful resources in the invisible web, on which colleges spend so much money in licensing fees and on which scholars spend so much time in peer review."

Source: CLIRinghouse, Feb. 2002.





Develop a search engine that focuses on scientific Web information and also covers proprietary database information:







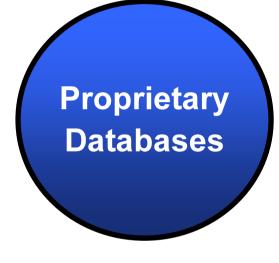
About Scirus

- A free web search engine for scientific information: covering both Web and proprietary information
- Developed by Elsevier Science
- In cooperation with FAST (alltheweb.com)
- Launched in April 2001





Scirus Value Chain



SCITUS

Scientific Web content

Value Added Functionalities





Scirus now covers > 120 million pages:

- Scientific Web Sources:
 - 105 million freely accessible Web pages
- Scientific Journal Database Sources:
 - 17 million article records





Websources (105 million pages):

- 40 million .edu
- 14.5 million .com
- 13 million .org
- 5 million .ac.uk
- 4 million .gov
- 1.7 million.net
- rest: others, like 0.6 million .nl





Proprietary sources:

■ Beilstein: 650,000 million abstracts

BioMed Central: 820 full-text articles

■ IDEAL: 260,000 full-text articles

■ MEDLINE: 13 million citations

ScienceDirect: 1.7 million full-text articles

■ USPTO: 900,000 patents





Harvested structured data sources:

■ E-print ArXiv: 180,000 preprints (Los Alamos)

■ Math Preprints: 566

■ Chem Preprints: 563

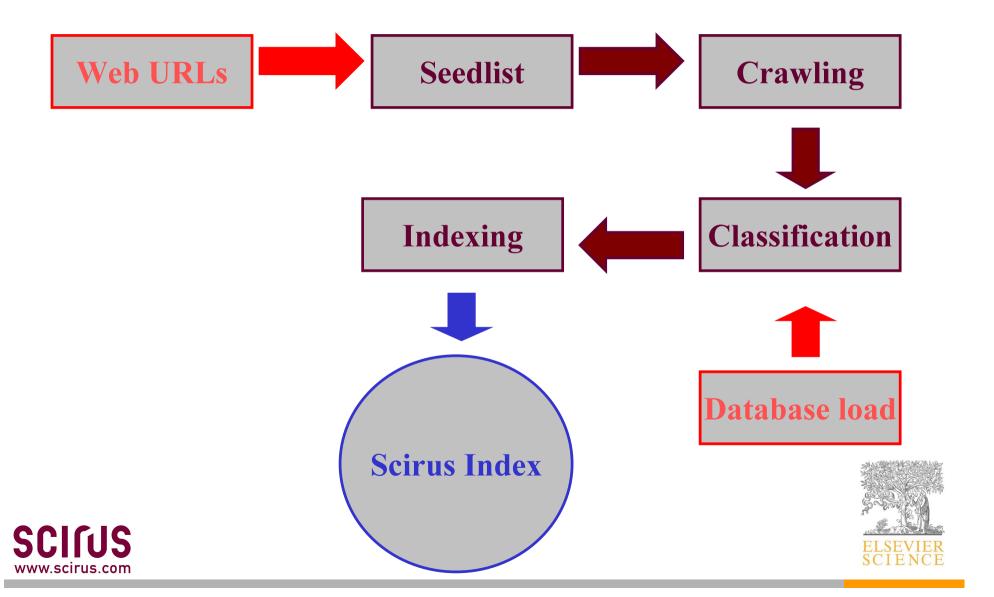
Cogprints: 1,400

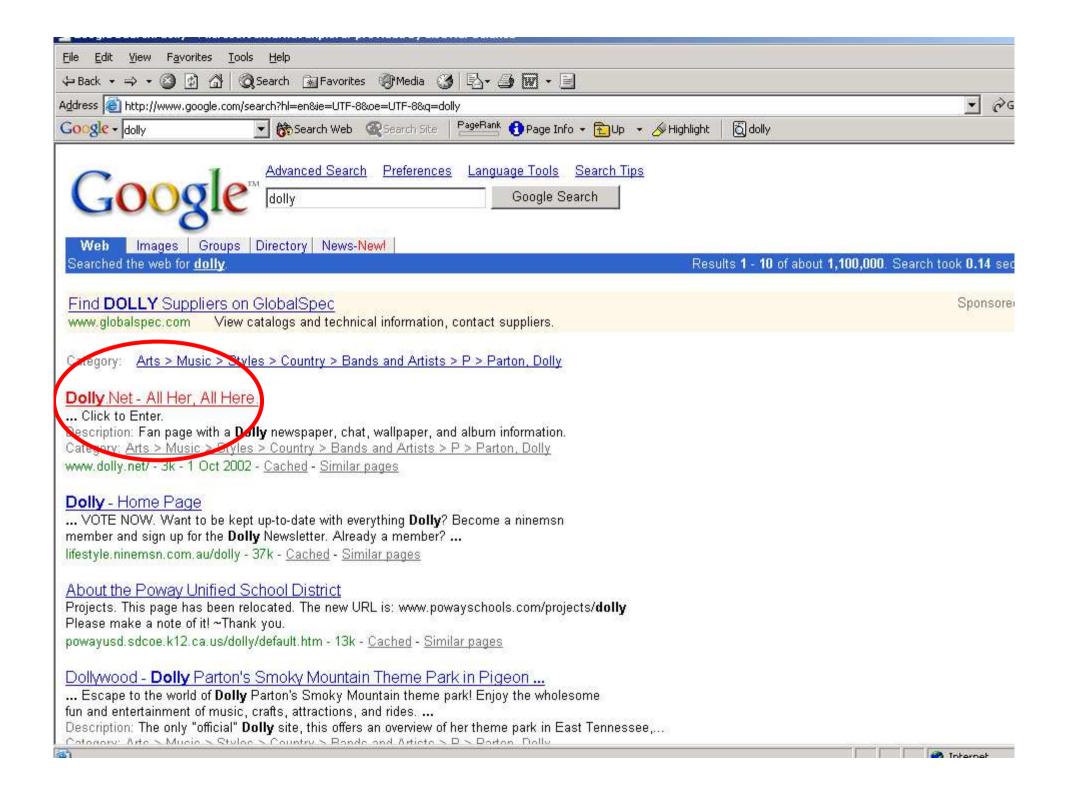
■ NASA: 10,310

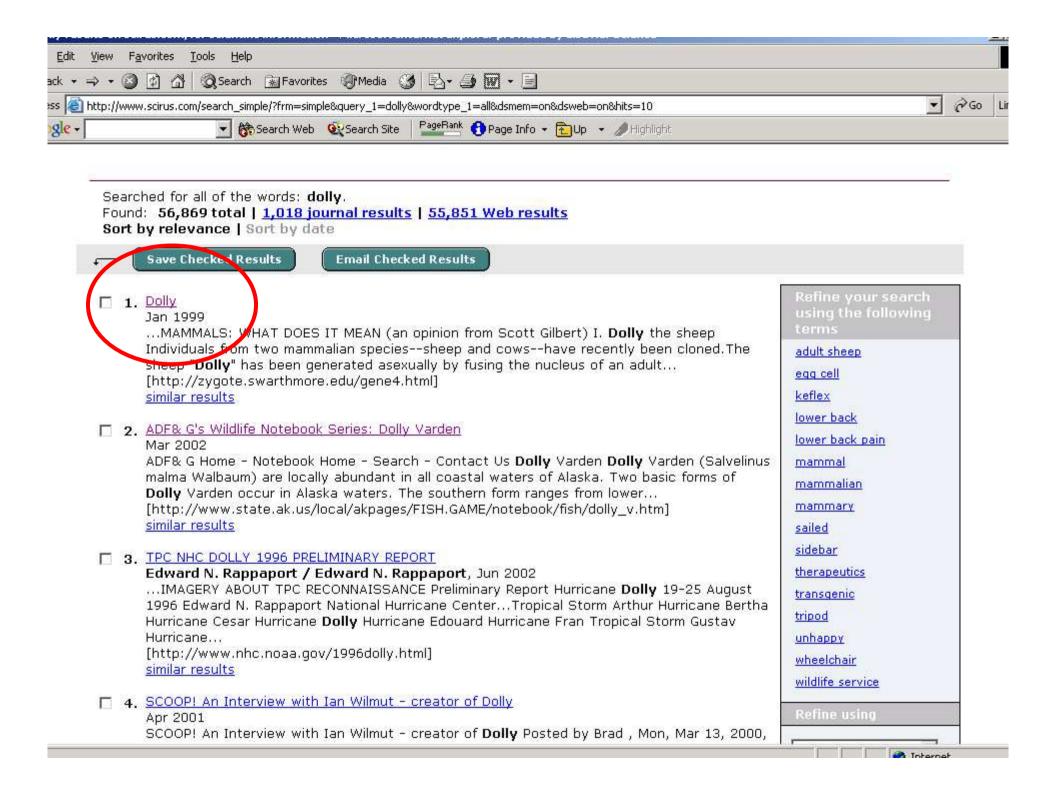


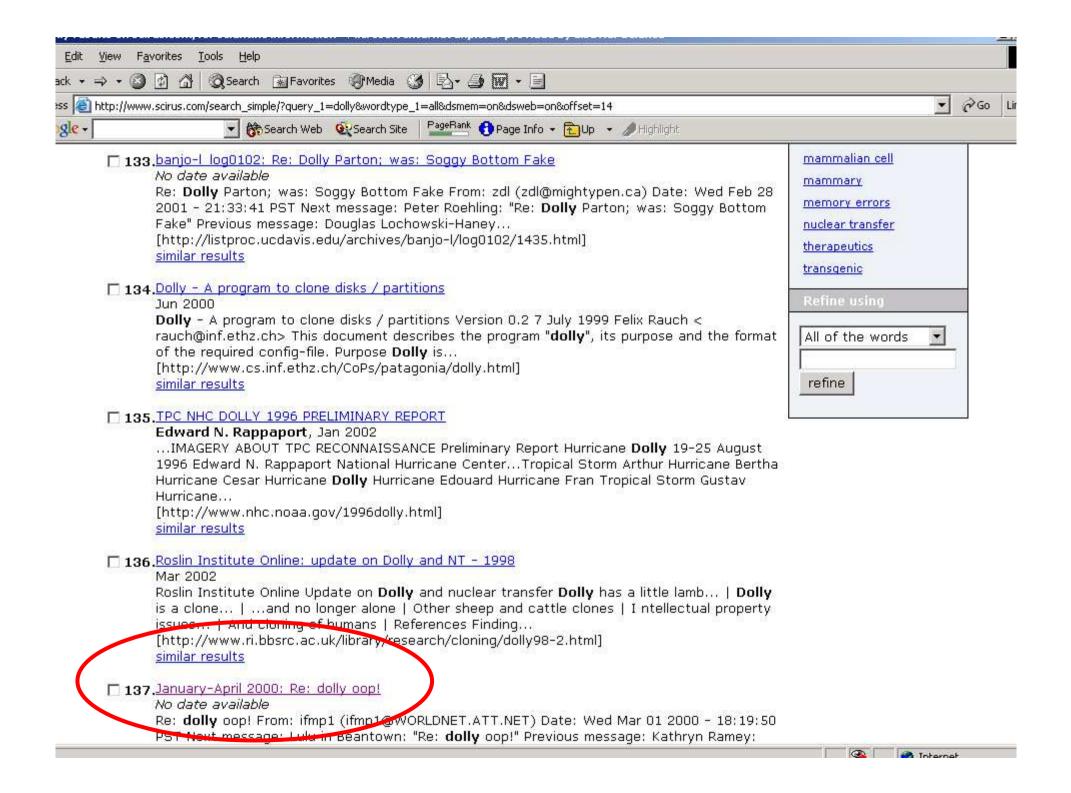


Scirus Data processing







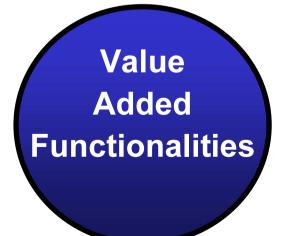


Scirus Value Chain



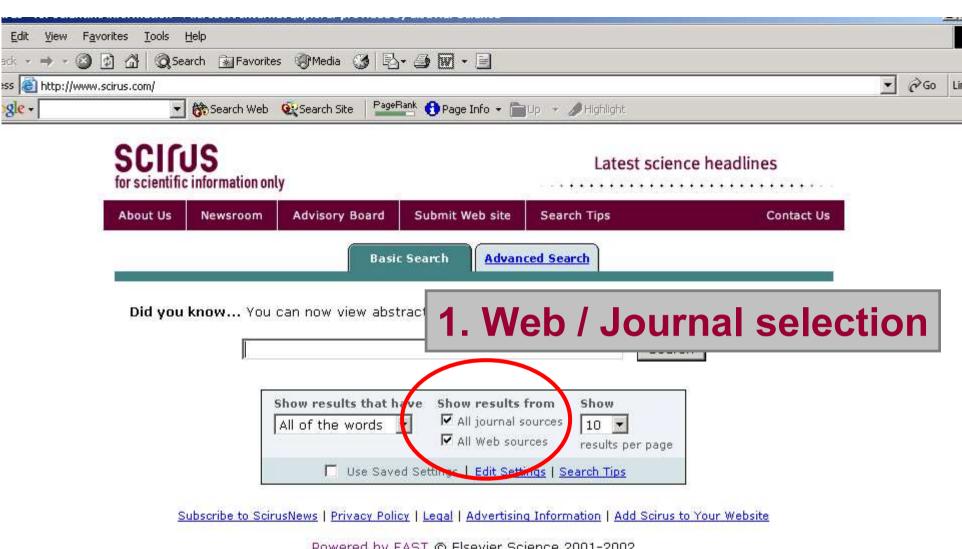
SCITUS

Scientific Web content



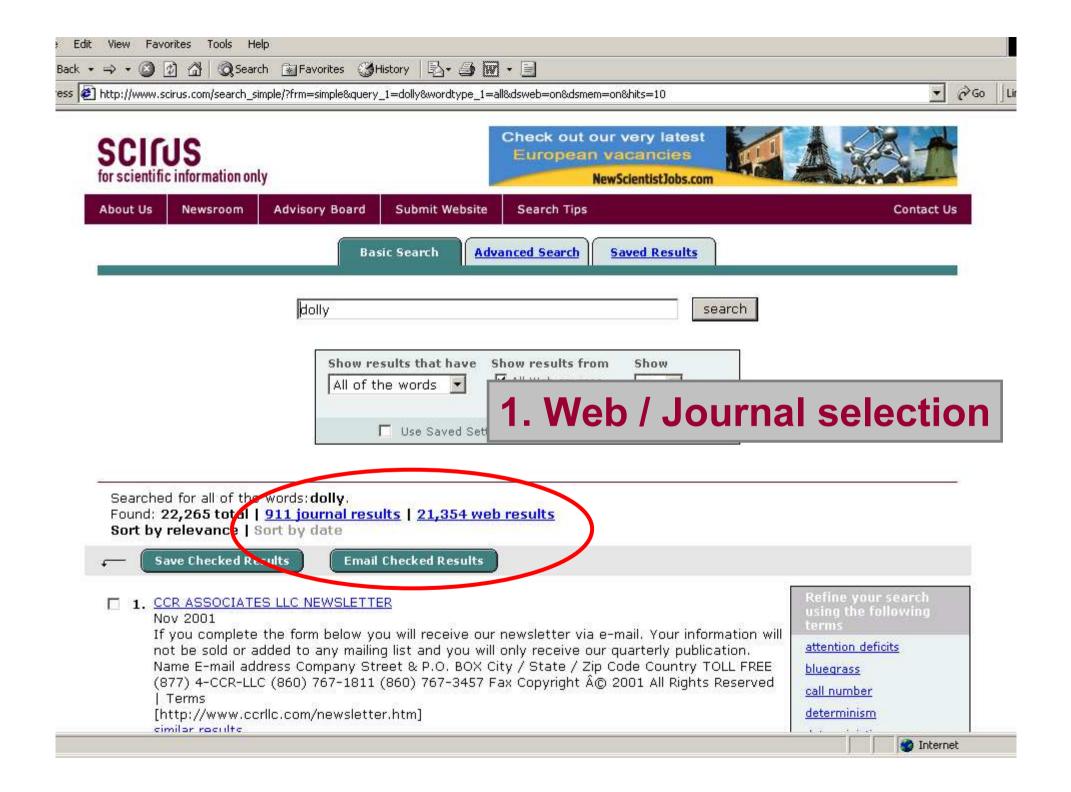


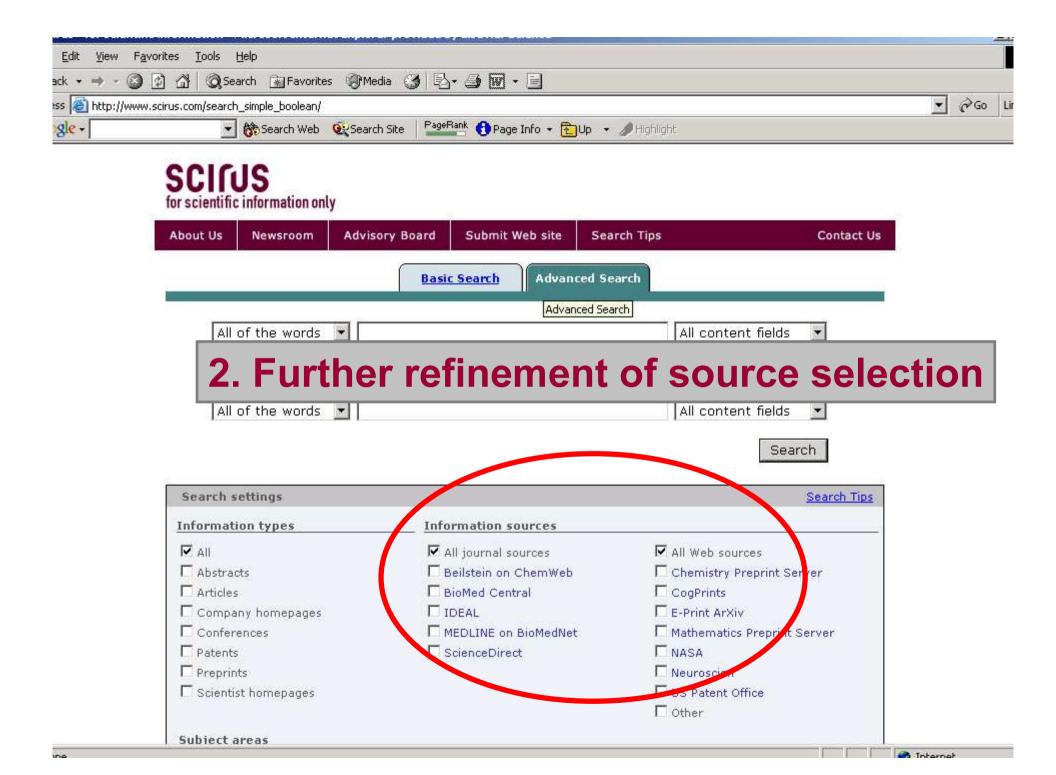


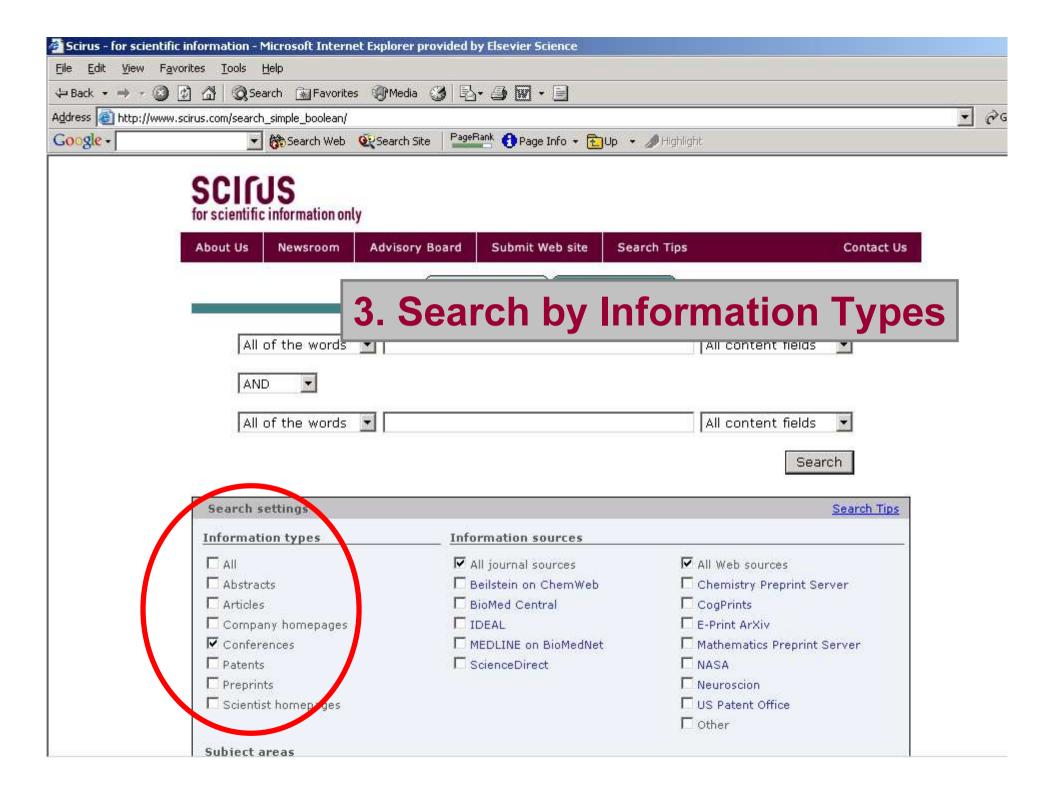


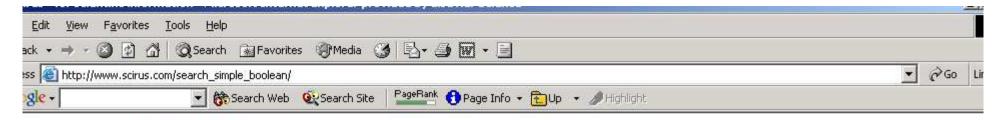
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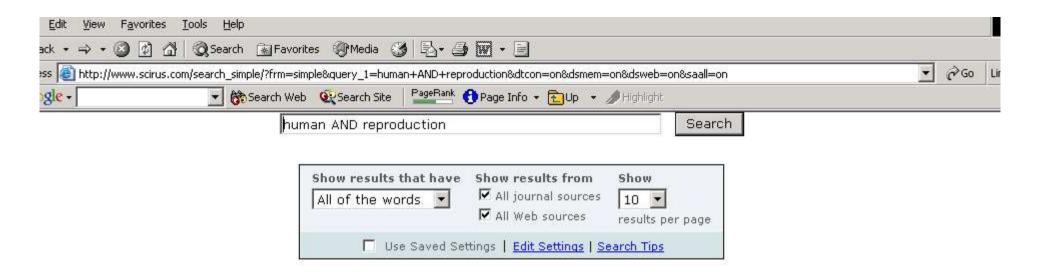




SCIFUS for scientific information only



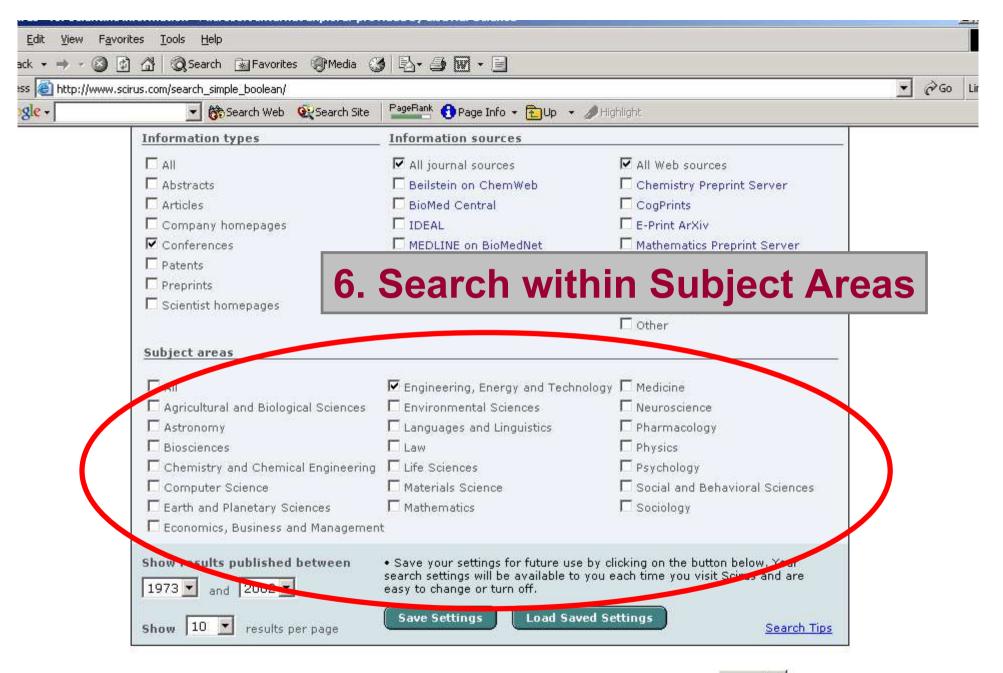
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□ All	✓ All journal sources	✓ All Web sources
☐ Abstracts	☐ Beilstein on ChemWeb	Chemistry Preprint Server
Articles	☐ BioMed Central	☐ CogPrints
Company homepages	□ IDEAL	☐ E-Print ArXiv
☑ Conferences	☐ MEDLINE on BioMedNet	☐ Mathematics Preprint Server
Patents	☐ ScienceDirect	□ NASA
☐ Preprints		☐ Neuroscion
☐ Scientist homepages		US Patent Office
		□ Other



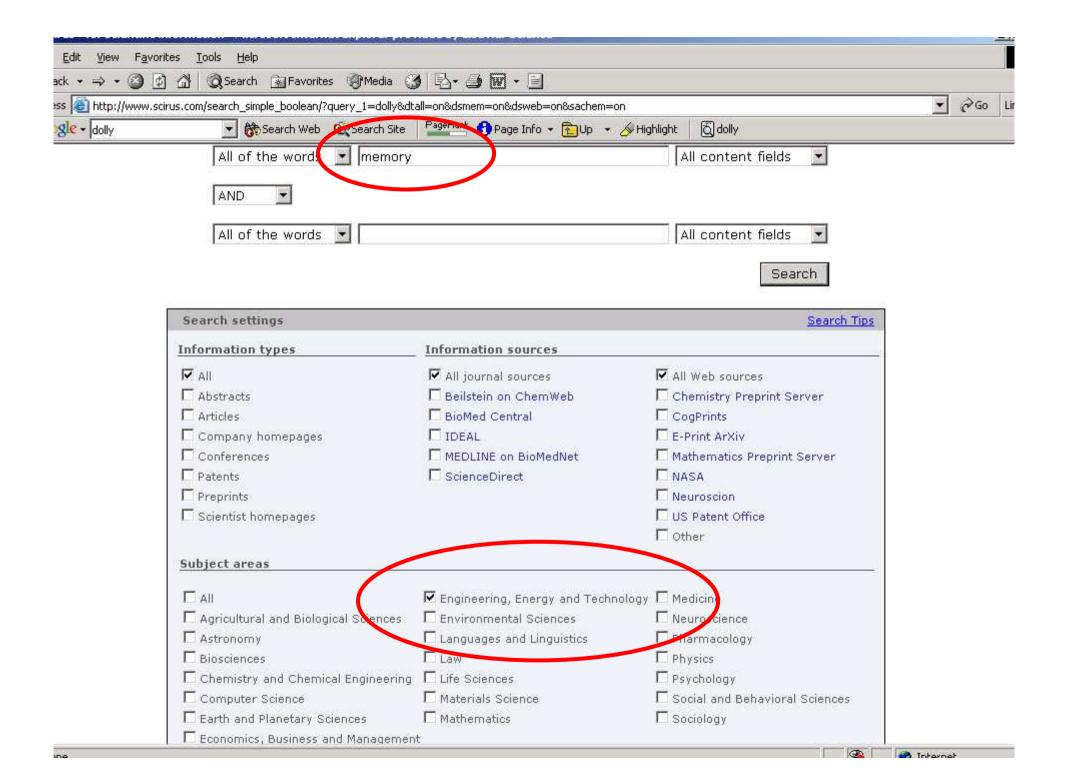
Searched for all of the words: human and re Found: 155 total | 0 journal results | 155 to

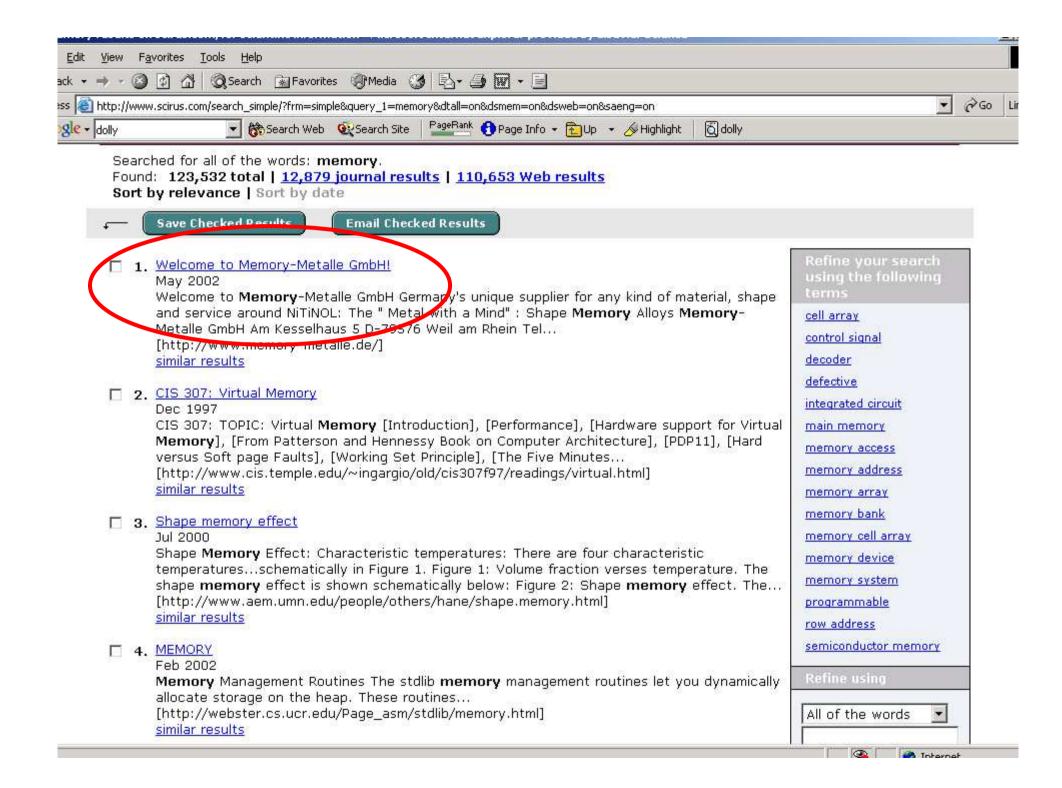
5. 'Intelligent query analysis'

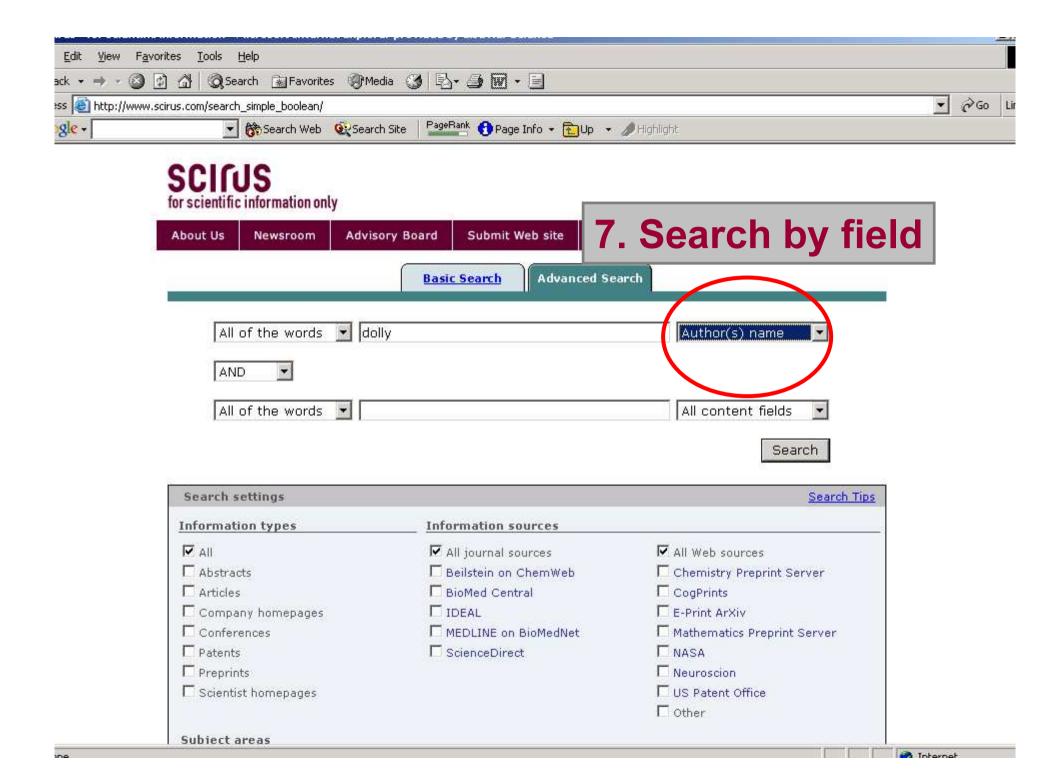


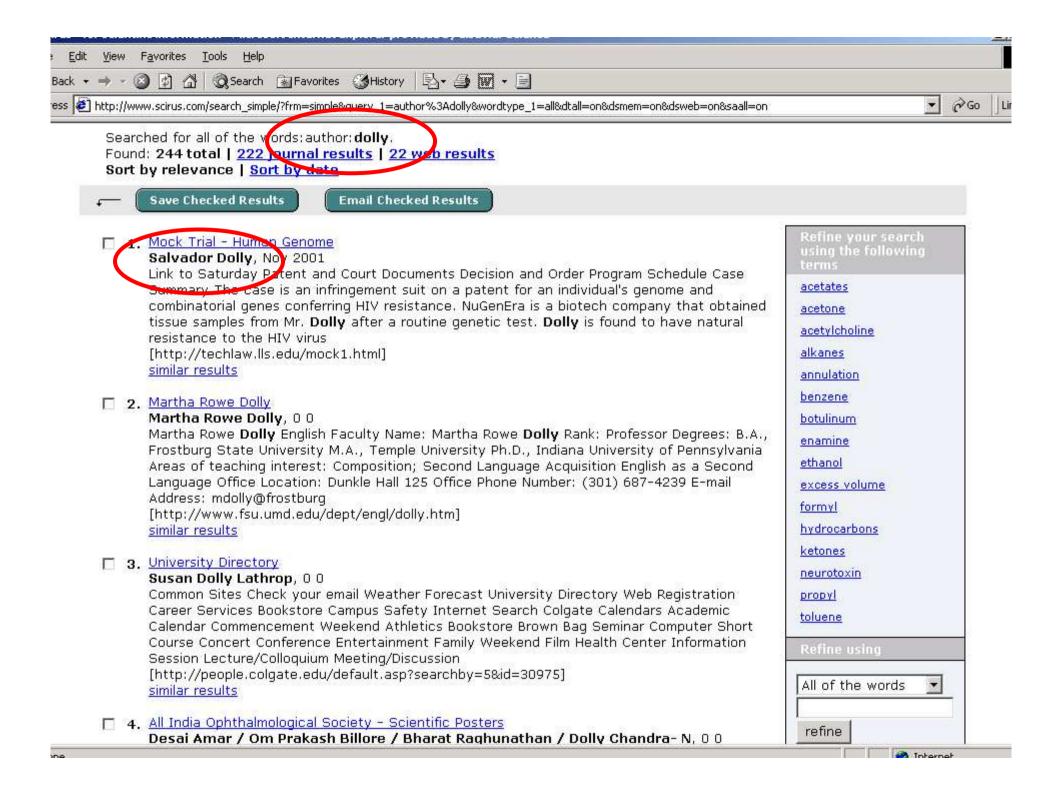


Search











HUGO Gene Nomenclature, Sep 2000

HUGO **Gene** Nomenclature Committee (HGNC HGNC HUGO **Gene** Nomenclature Committee Genew: Human **Gene** Nomenclature Database Nomenclature Guidelines General Information Specialist Advisors **Gene** Families International Advisory Committee FAQs Symbol Checklist Email us Newsletter Publications Workshops Meetings Commercial Users FTP access Perl codes Public Science **Gene** Symbol Submission

[http://www.gene.ucl.ac.uk/nomenclature/]

similar results

☐ 2 University of California, Davis

7. Refine your search

versities. ntive

undergraduate teaching, we are also contributing richly to the discovery of new knowledge and the mastery of pressing societal problems. Quick Links ------------------------- Academic Departments Athletics

[http://www.ucdavis.edu/]

similar results

☐ 3. Saccharomyces Genome Database

Nov 2001

SGD Full Search search yeast data Sequence Analysis Tools search, display, analyze sequences Maps yeast chromosome maps Literature yeast reference guide **Gene** Registry register a yeast **gene** Download Data FTP data, lists, tables Yeast Community Information colleagues, meetings Help SGD help resources Yeast WWW Sites other yeast resources Submit Data Contact SGD send data and

[http://genome-www.stanford.edu/Saccharomyces/] similar results

4. Jaak Vilo WWW-homepage

Aug 2001

Jaak Vilo EMBL Outstation European Bioinformatics Institute EBI Wellcome Trust Genome Campus, Hinxton Cambridge CB10 1SD United Kingdom Tel. +44 (0)1223 494633 E-mail: vilo@ebi.ac.uk WWW: http://industry.ebi.ac.uk/~vilo/ EBI Industry support group Expression

kefine your search using the following terms

bioinformatics

biomedical research

cancer research

expression patterns

functional genomic

gene therapy

genome project

genomes

genomics

health sciences

human gene

human genome

microarray

microarrays

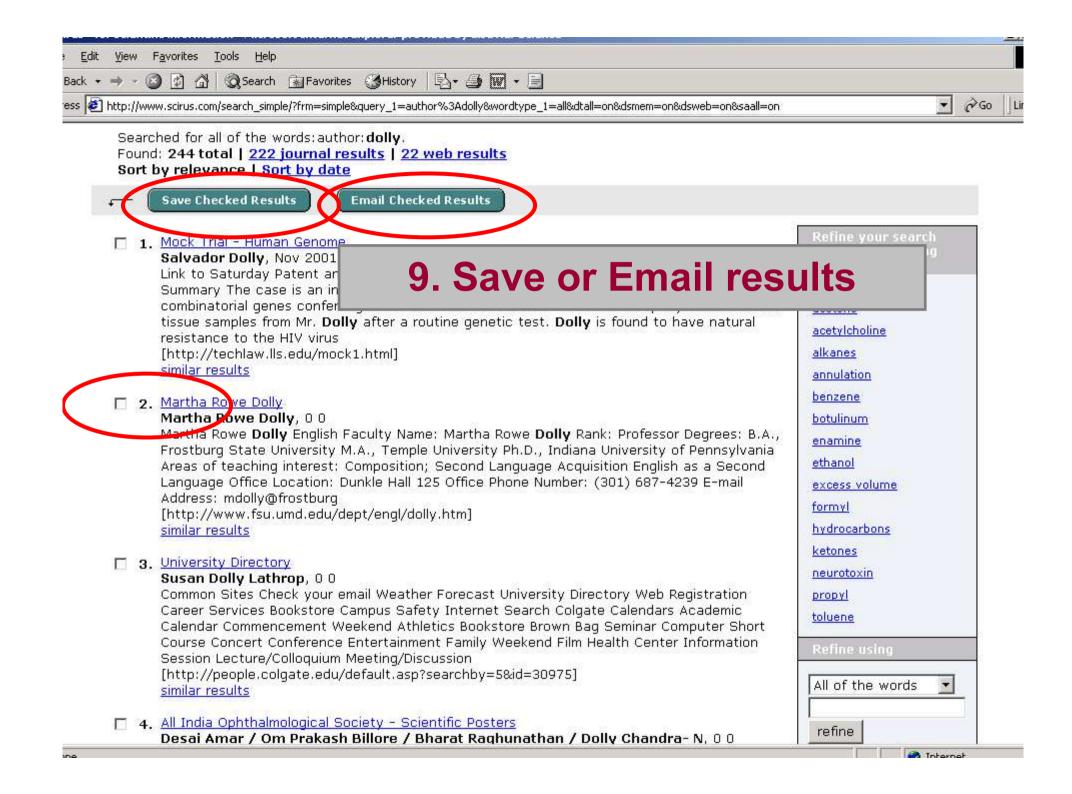
school of medicine

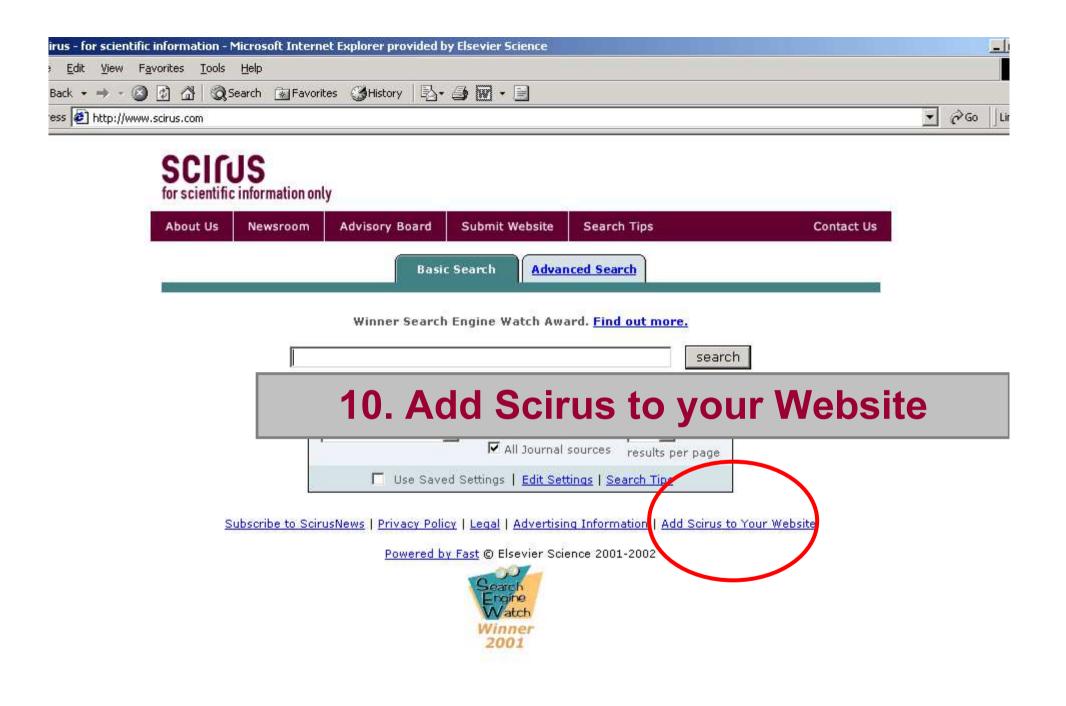
sequence alignment

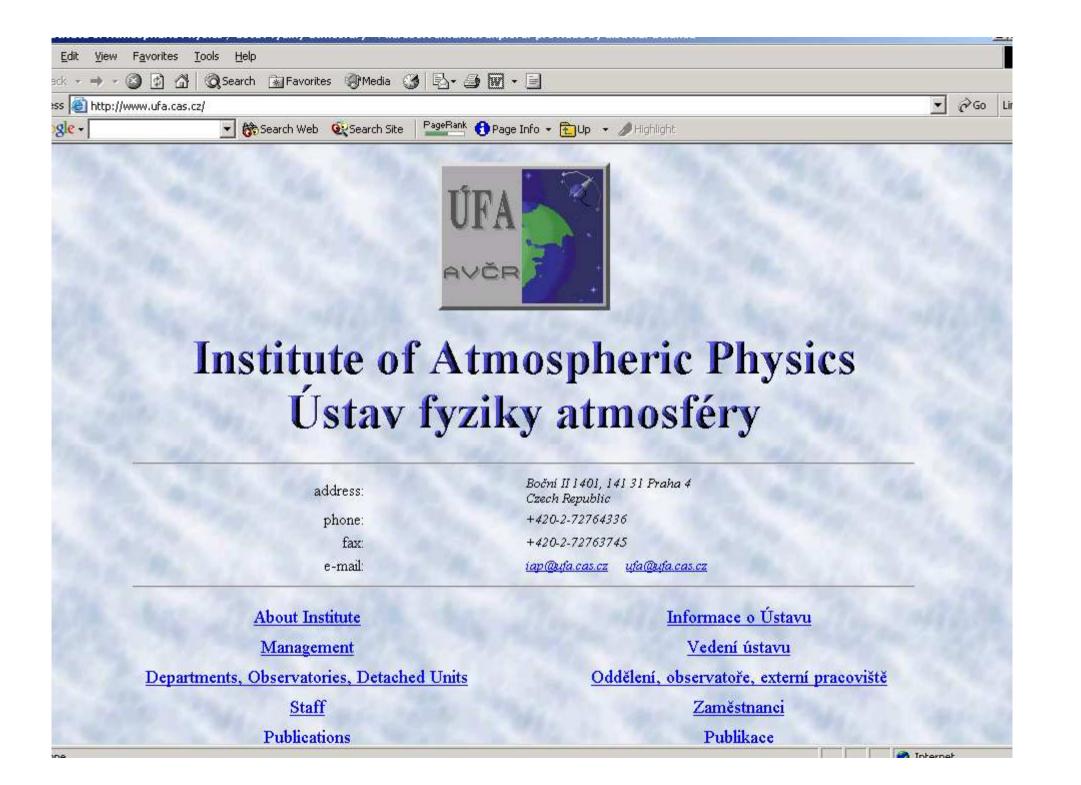
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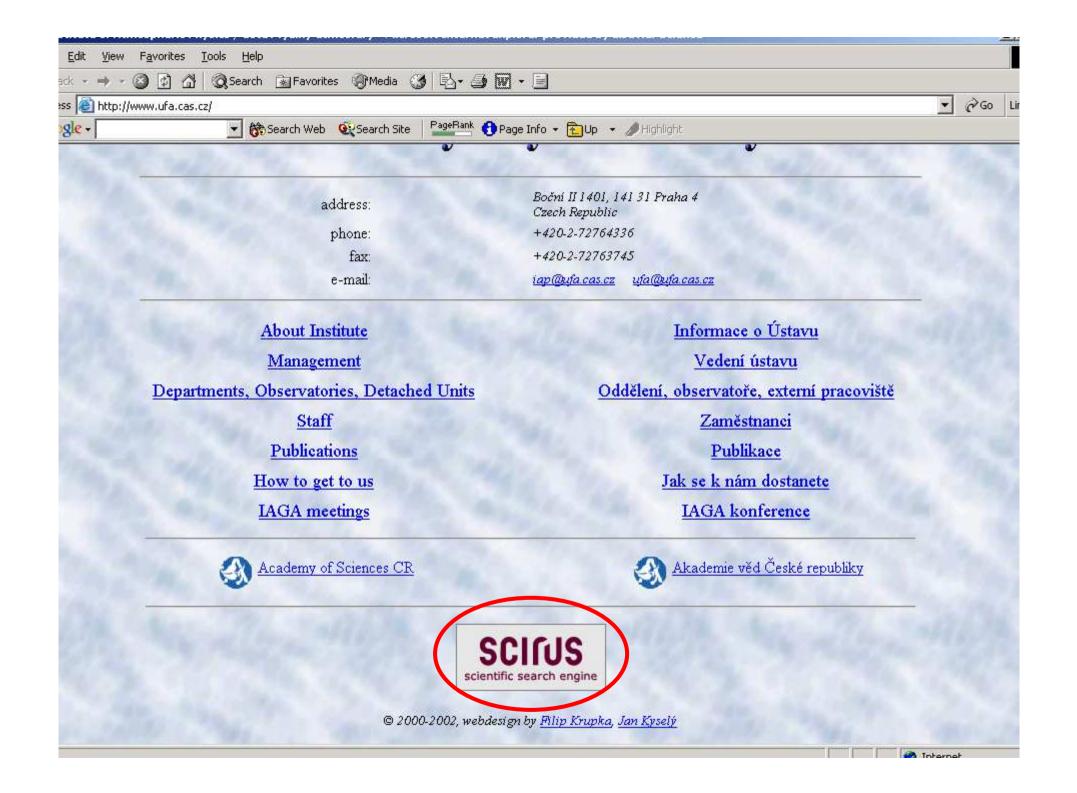
All of the words

refine









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Added value of Scirus for Elsevier Science and scientific community

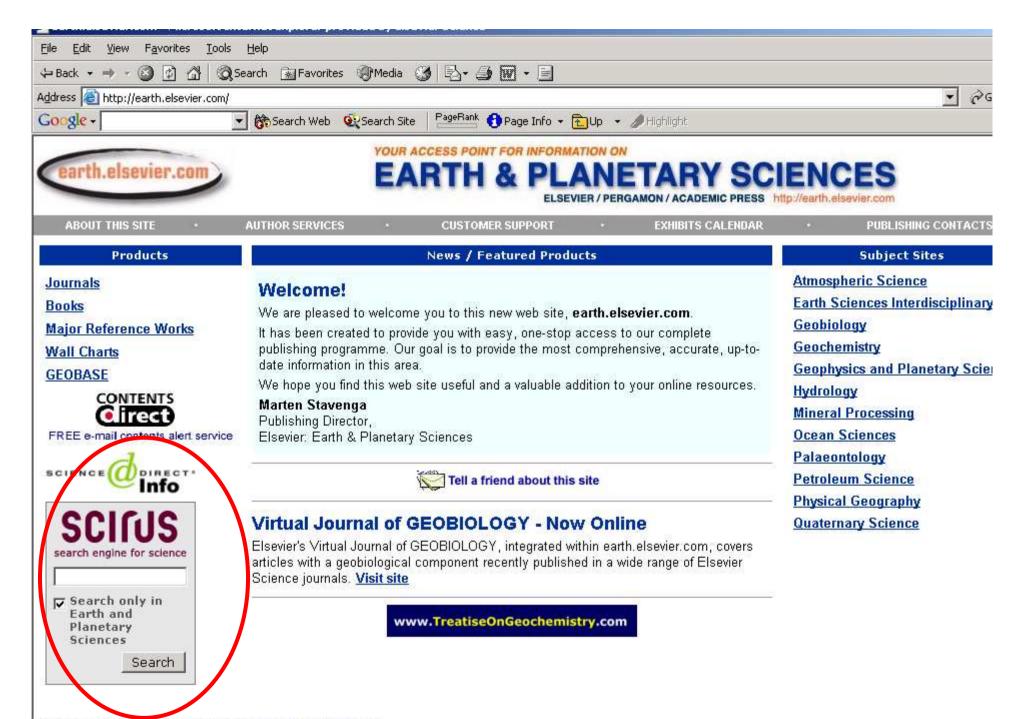


Benefits for Elsevier Science

- Increase awareness of and traffic to our published articles
- Position ES in the emerging search engine market
- Increase ES knowledge on latest technological development
- Added 'search the scientific Web' functionality to ES electronic platforms







Comments, suggestions, problems? email the webmaster

Benefits for the scientific community

- Researchers & students often use search engines when looking for scientific information
- Scirus goes places other search engines don't go
- Free product
- Downloadable Scirus Search boxes
- Your websites can be covered as well





SCIFUS

Ideas on Scirus content / functionalities or ways to communicate this to your institutes?

Please contact us!

f.markus@elsevier.com

