Battle of the giants: a comparison of Web of Science, Scopus … & Google Scholar ☺

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Focus

- Content
- Currency
- Keyword searching
- Author & affiliation searching
- Citation searching & browsing
- Google Scholar
- Summary & conclusions

Content: WoS

- One component of the Web of Knowledge Platform
- 8, 700 current international and high impact titles – 6,000 STM
- Multidisciplinary resource
- Conferences in ISI Proceedings
- Patents in Derwent Innovations Index
- Integration possible with range of additional tools including Journal Citation Reports, Medline, BIOSIS, Web Citation Index

Content

Scopus: a ‘one stop shop’

- 15, 000 current international titles
- Essentially STM and social science
- Conferences included
- Patents searched separately
- Includes web search SCIRUS: web sites, theses and e-prints

Content: WoS

- Essentially designed as a citation index
- SCI 1900 – (abstracts from 1991 and keywords from 1991)
- SSCI 1956 – (abstracts from 1992 and keywords from 1991)
- AHCI 1975 – (abstracts from 2000 and keywords from 1991)
- Index Chemicus 1993- Current Chemical Reactions 1986 -
- Retrospective access dependent on backfile purchase; but timescales affect any notion of size

Content: Scopus

- Publisher-submitted records 1996 -
- Citation enhancements from 1996 -
- PubMed records from 1966-
- Content from other Elsevier databases: including Embase (1970-), Biobase (1994-) and Compendex (1970-)
- Notion of broad-based STM is exaggerated. Pre-1996: heavy health & life, engineering focus. Medicinal chemistry & chemical engineering well-served
- 2007 - back files - 7m records from publishers including Elsevier, Springer, Nature, RSC - will include abstracts and focus on chemistry, physics and social science

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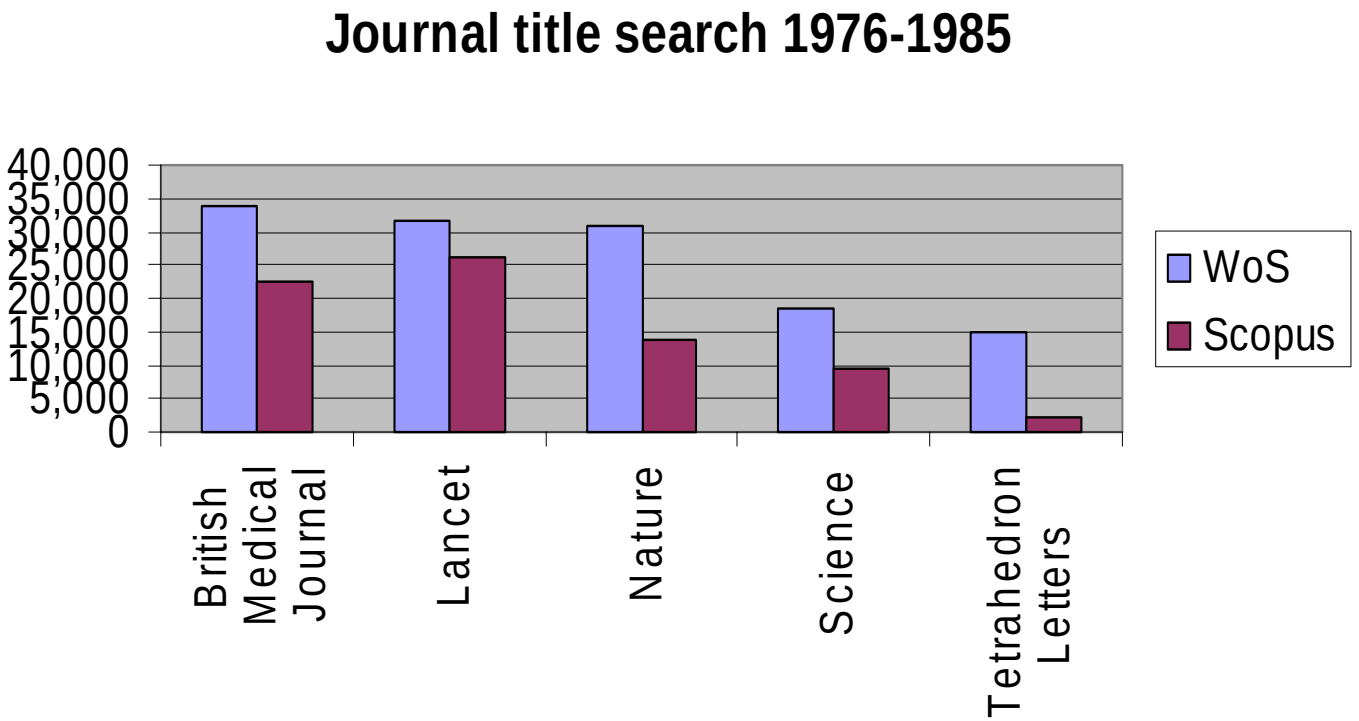
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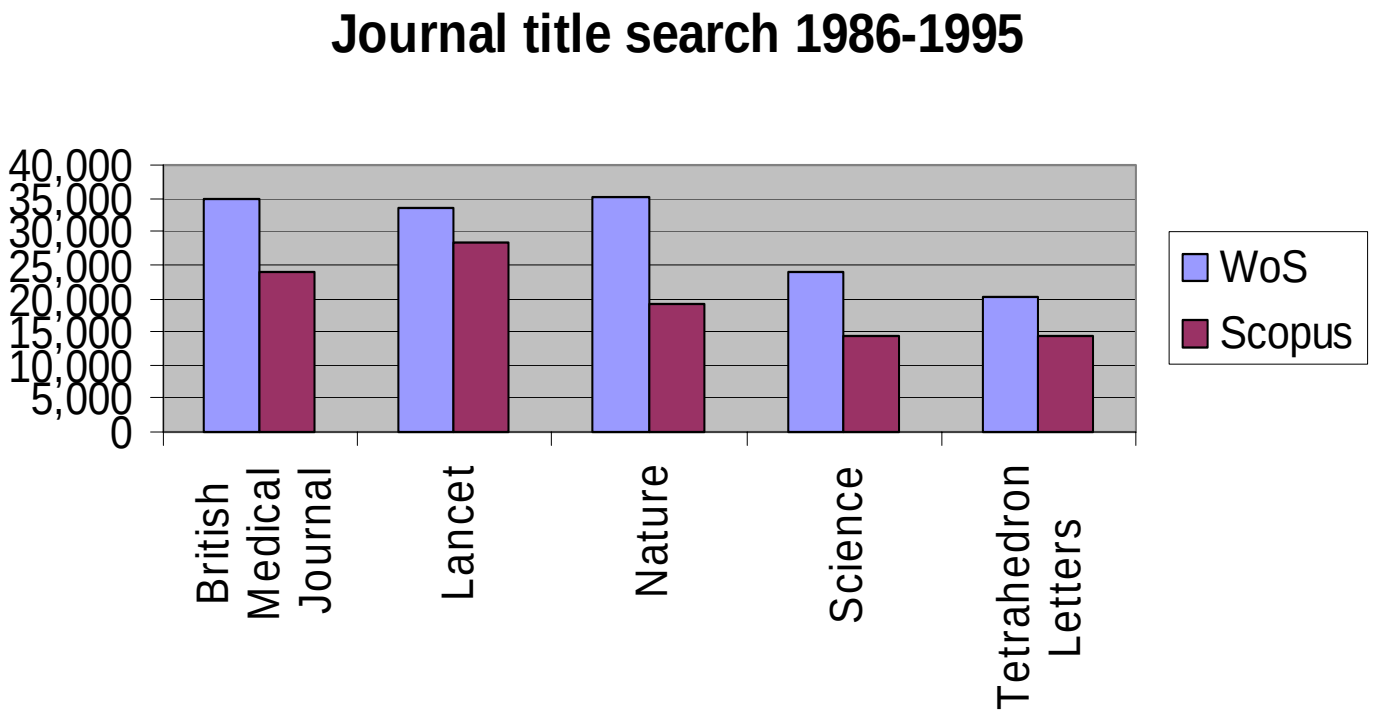
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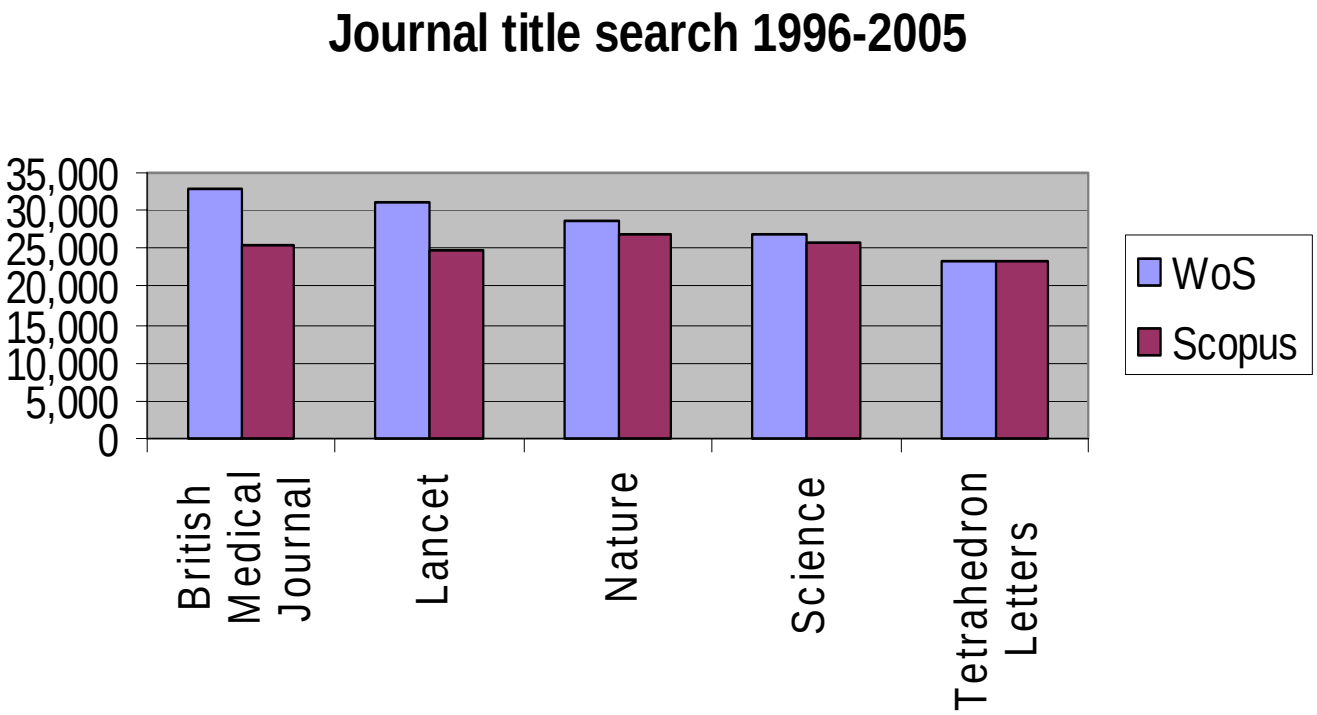
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British Medical Journal
Lancet
Nature
Science
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WoS
Scopus

Currency

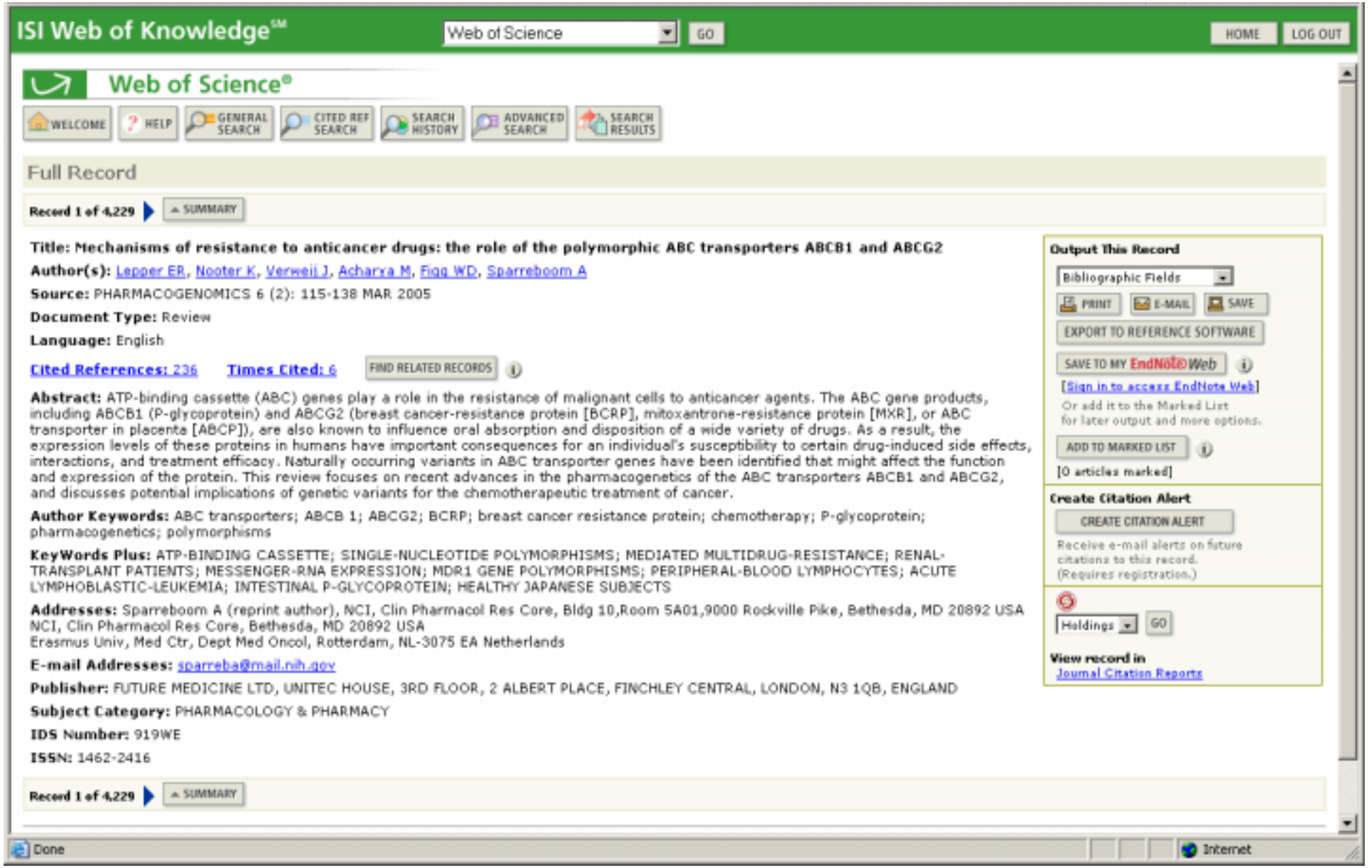
Journal	Publisher latest issue	WoS latest issue	Scopus latest issue
BMJ	7572	7568	7568
Lancet	9544	9541	9535
Nature	7112	7111	7110
Science	5797	5796	5794
Tetrahedron Letters	46	38	45

Currency

Journal	Publisher latest issue	WoS latest issue	Scopus latest issue
J.A.C.S	42	38	38
Optics Letters	21	18	15
Chem. Comms.	40	38	38
Pharm J.	7422	7404	7419
N.E.J.M	15	14	13

Keyword searching

- Both databases are free text; neither offers linguistic support tools
- WoS has automated indexing that assigns author keywords & ‘keywords plus’ from 1991 onwards
- Scopus adds author keywords and some index terms from Pubmed (MeSH) and Elsevier databases (including EMTREE)
- While they are derived from controlled vocabularies, there is none of the functionality
- Harvesting records in Scopus and refining searches has great potential
- However, ambiguity and inconsistency in the process and more clarity on indexing rules is required
- Best to utilise quality of indexing in PubMed, Embase, SciFinder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Record 1 of 4,229
SUMMARY
Title: Mechanisms of resistance to anticancer drugs: the role of the polymorphic ABC transporters ABCB1 and ABCG2
Author(s): Lepper ER, Nooter K, Verweij J, Acharya M, Figg WD, Sparreboom A
Source: PHARMACOGENOMICS 6 (2): 115-138 MAR 2005
Document Type: Review
Language: English
Cited References: 236
Times Cited: 6
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Abstract: ATP-binding cassette (ABC) genes play a role in the resistance of malignant cells to anticancer agents. The ABC gene products, including ABCB1 (P-glycoprotein) and ABCG2 (breast cancer-resistance protein [BCRP], mitoxantrone-resistance protein [MXR], or ABC transporter in placenta [ABCP]), are also known to influence oral absorption and disposition of a wide variety of drugs. As a result, the expression levels of these proteins in humans have important consequences for an individual's susceptibility to certain drug-induced side effects, interactions, and treatment efficacy. Naturally occurring variants in ABC transporter genes have been identified that might affect the function and expression of the protein. This review focuses on recent advances in the pharmacogenetics of the ABC transporters ABCB1 and ABCG2, and discusses potential implications of genetic variants for the chemotherapeutic treatment of cancer.
Author Keywords: ABC transporters; ABCB 1; ABCG2; BCRP; breast cancer resistance protein; chemotherapy; P-glycoprotein; pharmacogenetics; polymorphisms
KeyWords Plus: ATP-BINDING CASSETTE; SINGLE-NUCLEOTIDE POLYMORPHISMS; MEDIATED MULTIDRUG-RESISTANCE; RENAL-TRANSPLANT PATIENTS; MESSENGER-RNA EXPRESSION; MDR1 GENE POLYMORPHISMS; PERIPHERAL-BLOOD LYMPHOCYTES; ACUTE LYMPHOBLASTIC-LEUKEMIA; INTESTINAL P-GLYCOPROTEIN; HEALTHY JAPANESE SUBJECTS
Addresses: Sparreboom A (reprint author), NCI, Clin Pharmacol Res Core, Bldg 10,Room 5A01,9000 Rockville Pike, Bethesda, MD 20892 USA
NCI, Clin Pharmacol Res Core, Bethesda, MD 20892 USA
Erasmus Univ, Med Ctr, Dept Med Oncol, Rotterdam, NL-3075 EA Netherlands
E-mail Addresses: sparreba@mail.nih.gov
Publisher: FUTURE MEDICINE LTD, UNITEC HOUSE, 3RD FLOOR, 2 ALBERT PLACE, FINCHLEY CENTRAL, LONDON, N3 1QB, ENGLAND
Subject Category: PHARMACOLOGY & PHARMACY
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ISSN: 1462-2416
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Author Keywords

ABC transporters; ABCB1; ABCG2; BCRP; Breast cancer resistance protein; Chemotherapy; P-glycoprotein; Pharmacogenetics; Polymorphisms

Index Keywords

EMTREE drug terms: antineoplastic agent; breast cancer resistance protein; glycoprotein P

EMTREE medical terms: malignant neoplastic disease; pharmacogenetics

Molecular Sequence Numbers

GENBANK, M14758(referenced)

Chemicals and CAS Registry Numbers

4 [3 (4 benzyl 1 piperidinyl)propionyl] 2,3,4,5 tetrahydro 7 methoxy 1,4 benzothiazepine, 145903-06-6; 6 formylamino 12,13 dihydro 1,11 dihydroxy 5h indolo[2,3 a]pyrrolo[3,4 c]carbazole 5,7(6h) dione 13 glucoside, 151069-12-4; 7 ethyl 10 hydroxycamptothecin, 86639-52-3; 7 hydroxystaurosporine, 112953-11-4; biricodar, 174254-13-8; cyclosporin, 79217-60-0; dactinomycin, 1402-38-6, 1402-58-0, 50-76-0; daunorubicin, 12707-28-7, 20830-81-3, 23541-50-6; dexniguldipine, 113145-70-3, 120054-86-6; dicloxacillin, 13412-64-1, 3116-76-5, 343-55-5; diethylstilbestrol, 30498-85-2, 56-53-1; diflomotecan, 220997-97-7; digoxin, 20830-75-5, 57285-89-9; DNA topoisomerase, 80449-01-0; docetaxel, 114977-28-5; doxorubicin, 23214-92-8, 25316-40-9; efavirenz, 154598-52-4; elacridar, 143664-11-3; epirubicin, 56390-09-1, 56420-45-2; estradiol, 50-28-2; etoposide, 33419-42-0; exatecan, 144008-87-7, 169869-90-3, 171335-80-1, 197720-53-9; flavopiridol, 146426-40-6; gefitinib, 184475-35-2, 184475-55-6, 184475-56-7; imatinib, 152459-95-5, 220127-57-1; irinotecan, 100286-90-6; ivermectin, 70288-86-7; loperamide, 34552-83-5, 53179-11-6; methotrexate, 15475-56-6, 59-05-2, 7413-34-5; midazolam, 59467-70-8; mitoxantrone, 65271-80-9, 70476-82-3; n [4 (3 chloro 4 fluoroanilino) 7 (3 morpholinopropoxy) 6 quinazolinyl]acrylamide, 267243-28-7, 338796-35-3; nelfinavir, 159989-64-7, 159989-65-8; nortriptyline, 72-69-5, 894-71-3; novobiocin, 1476-53-5, 303-81-1, 39301-00-3, 4309-70-0; paclitaxel, 33069-62-4; phenytoin, 57-41-0, 630-93-3; prednisone, 53-03-2; reserpine, 50-55-5, 8001-95-4; rifampicin, 13292-46-1; ritonavir, 155213-67-5; talinolol, 57460-41-0; tamoxifen, 10540-29-1; tariquidar, 206873-63-4; teniposide, 29767-20-2; testosterone, 58-22-0; tipifarnib, 192185-72-1; topotecan, 119413-54-6, 123948-87-8; tsukubaenolide, 104987-11-3; valspodar, 121584-18-7; vinblastine, 865-21-4; vincristine, 57-22-7; warfarin, 129-06-6, 2610-86-8, 3324-63-8, 5543-58-8, 81-81-2; zosuquidar, 167354-41-8, 167465-36-3, 312905-17-2, 474276-97-6

Tradenames

Drug tradename: bn 80915, ci 1033, dx 8951f, gf 120918, j 107088, jtv 519, ly 335979, nb 506, psc 833, r 101933, r 115777, sn 38, ucn 01, vx 710, xr 9576, zarnestra.

References (238)

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1: Pharmacogenomics. 2005 Mar;6(2):115-38.
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Mechanisms of resistance to anticancer drugs: the role of the polymorphic ABC transporters ABCB1 and ABCG2.
Lepper ER, Nooter K, Verweij J, Acharya MR, Figg WD, Sparreboom A.
National Cancer Institute, Clinical Pharmacology Research Core, Building 10, Room 5A01, 9000 Rockville Pike, Bethesda, MD 20892, USA.
ATP-binding cassette (ABC) genes play a role in the resistance of malignant cells to anticancer agents. The ABC gene products, including ABCB1 (P-glycoprotein) and ABCG2 (breast cancer-resistance protein [BCRP], mitoxantrone-resistance protein [MXR], or ABC transporter in placenta [ABCP]), are also known to influence oral absorption and disposition of a wide variety of drugs. As a result, the expression levels of these proteins in humans have important consequences for an individual's susceptibility to certain drug-induced side effects, interactions, and treatment efficacy. Naturally occurring variants in ABC transporter genes have been identified that might affect the function and expression of the protein. This review focuses on recent advances in the pharmacogenetics of the ABC transporters ABCB1 and ABCG2, and discusses potential implications of genetic variants for the chemotherapeutic treatment of cancer.
Publication Types:
Review
MeSH Terms:
ATP-Binding Cassette Transporters/genetics
ATP-Binding Cassette Transporters/physiology
Antineoplastic Agents/pharmacokinetics*
Antineoplastic Agents/pharmacology
Area Under Curve
Biological Transport/physiology
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ABCB1 protein, human
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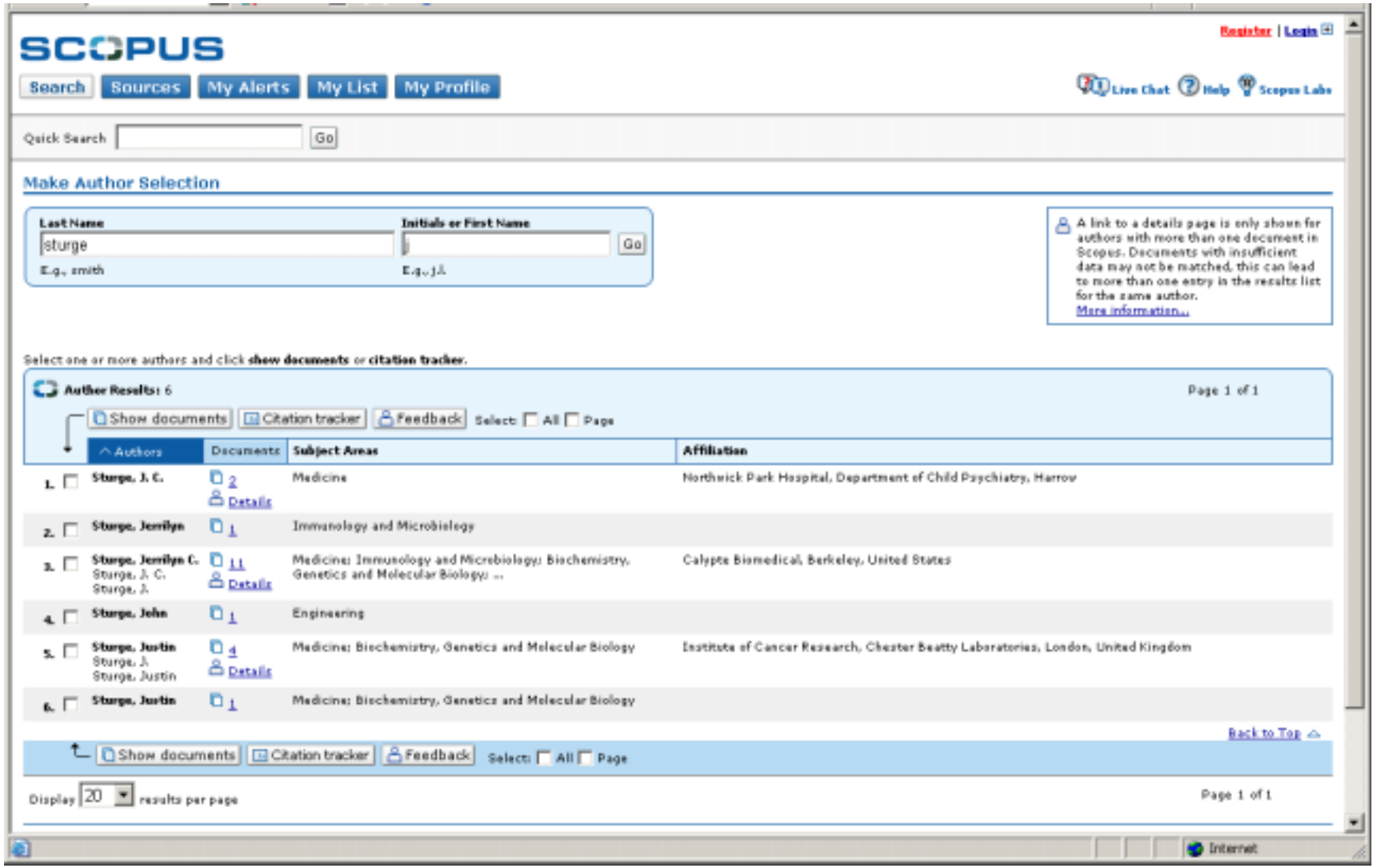
Search options

- Both offer basic and advanced functions
- Boolean, proximity operators, wild cards…
- Limits
- Both databases have embraced Google syntax and default to AND searching unless you use “”
- Approach free text with caution

Author & affiliation searching

- Matching authors to affiliation information is crucial to disambiguate
- WoS indexes all authors and affiliations provided in the source
- Varying levels of consistency in Scopus: pre-96 1st author/correspondence address; 1996-2001 80% all; 2003 - all
- Standardisation problems partly rest with the authors and institutions!
- WoS offers consistency via an authority file for addresses, including postcode and offers an ‘Author Finder’ option
- Scopus enables you to select an author from a list of authors with same name and initials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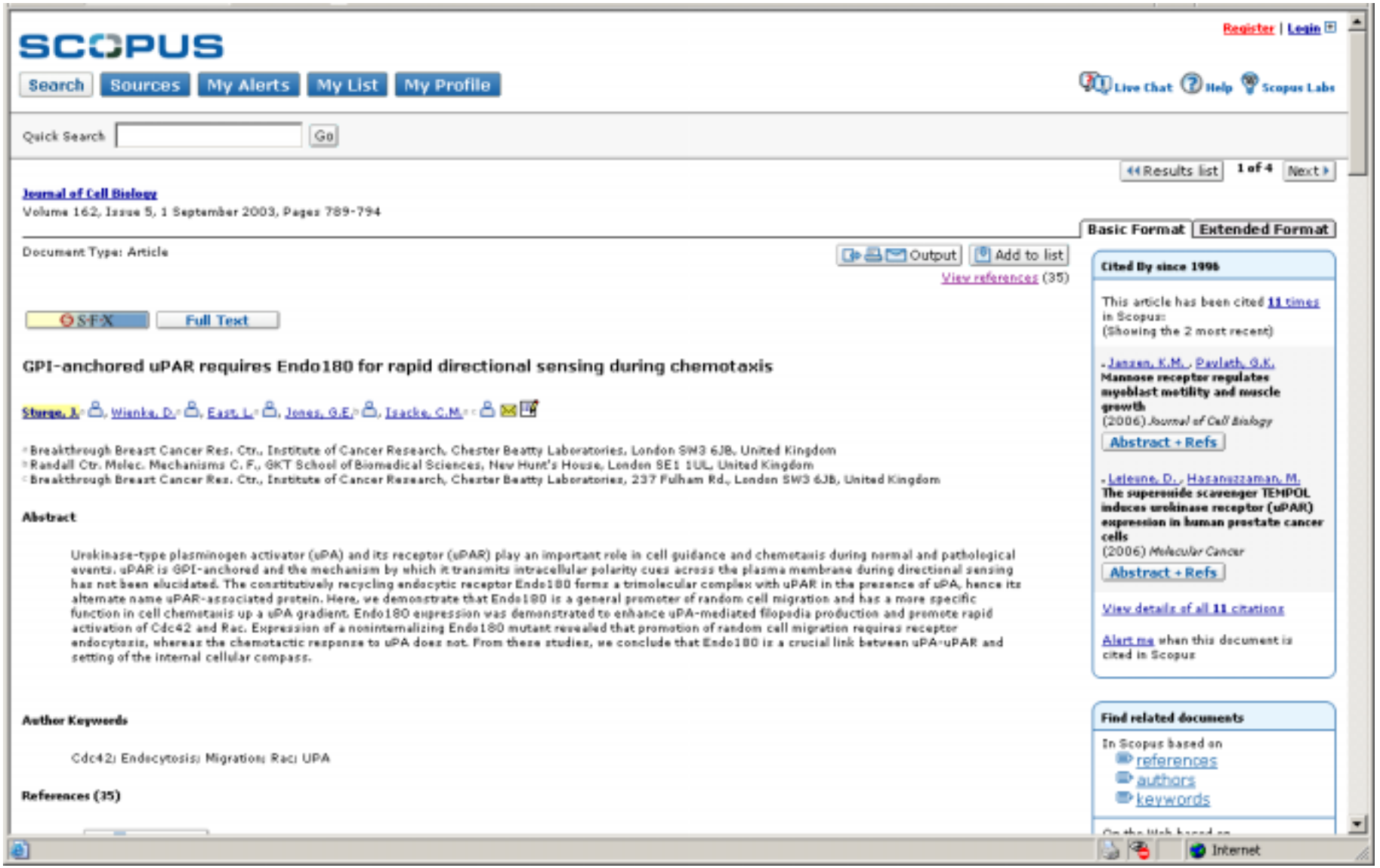
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Volume 162, Issue 5, 1 September 2003, Pages 789-794
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GPI-anchored uPAR requires Endo180 for rapid directional sensing during chemotaxis
Sturge, J.
Wienke, D.
East, L.
Jones, G.E.
Isacke, C.M.
Breakthrough Breast Cancer Res. Ctr., Institute of Cancer Research, Chester Beatty Laboratories, London SW3 6JB, United Kingdom
Randall Ctr. Molec. Mechanisms C. F., GKT School of Biomedical Sciences, New Hunt's House, London SE1 1UL, United Kingdom
Breakthrough Breast Cancer Res. Ctr., Institute of Cancer Research, Chester Beatty Laboratories, 237 Fulham Rd., London SW3 6JB, United Kingdom
Abstract
Urokinase-type plasminogen activator (uPA) and its receptor (uPAR) play an important role in cell guidance and chemotaxis during normal and pathological events. uPAR is GPI-anchored and the mechanism by which it transmits intracellular polarity cues across the plasma membrane during directional sensing has not been elucidated. The constitutively recycling endocytic receptor Endo180 forms a trimolecular complex with uPAR in the presence of uPA, hence its alternate name uPAR-associated protein. Here, we demonstrate that Endo180 is a general promoter of random cell migration and has a more specific function in cell chemotaxis up a uPA gradient. Endo180 expression was demonstrated to enhance uPA-mediated filopodia production and promote rapid activation of Cdc42 and Rac. Expression of a noninternalizing Endo180 mutant revealed that promotion of random cell migration requires receptor endocytosis, whereas the chemotactic response to uPA does not. From these studies, we conclude that Endo180 is a crucial link between uPA-uPAR and setting of the internal cellular compass.
Author Keywords
Cdc42; Endocytosis; Migration; Rac; UPA
References (35)
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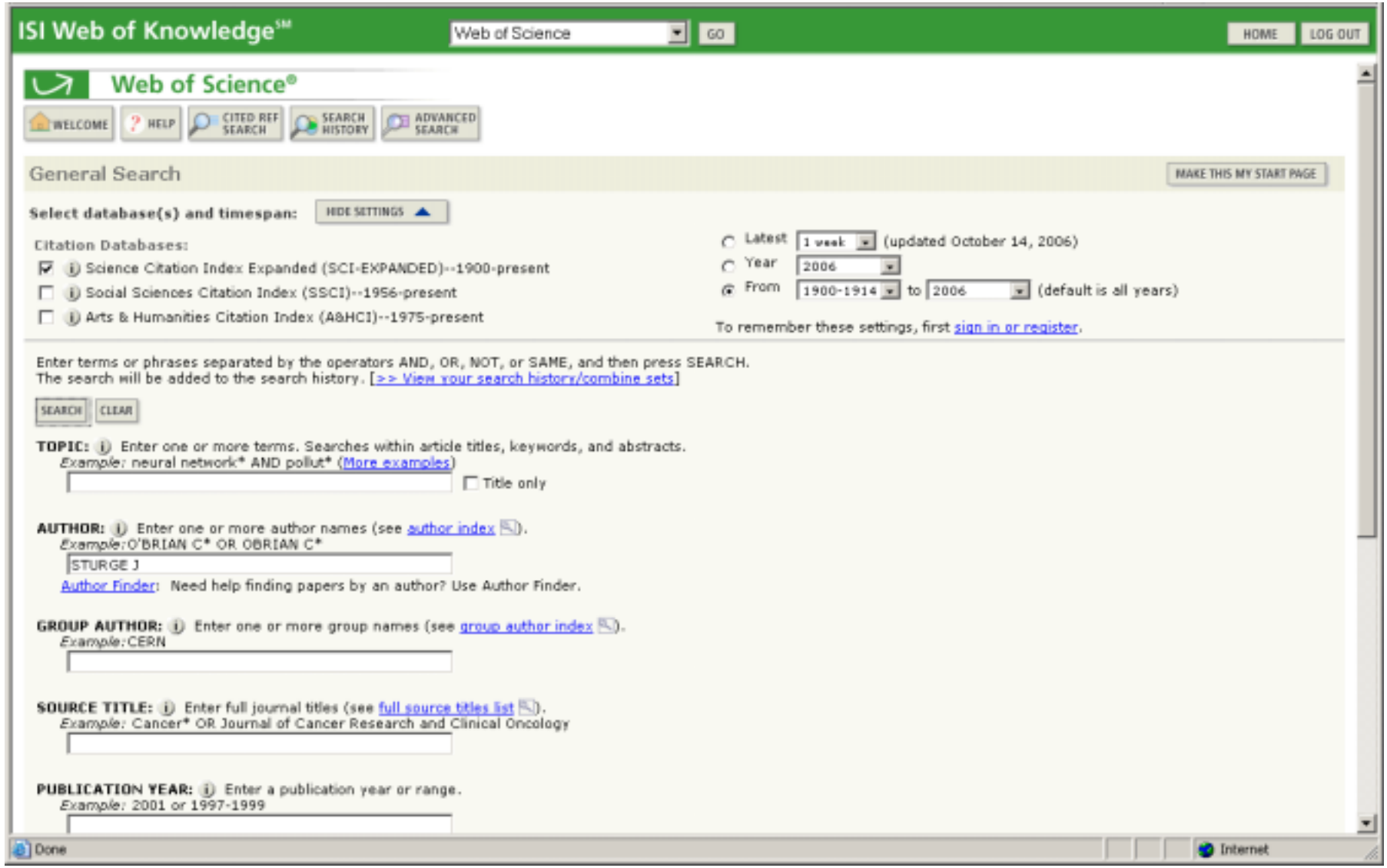
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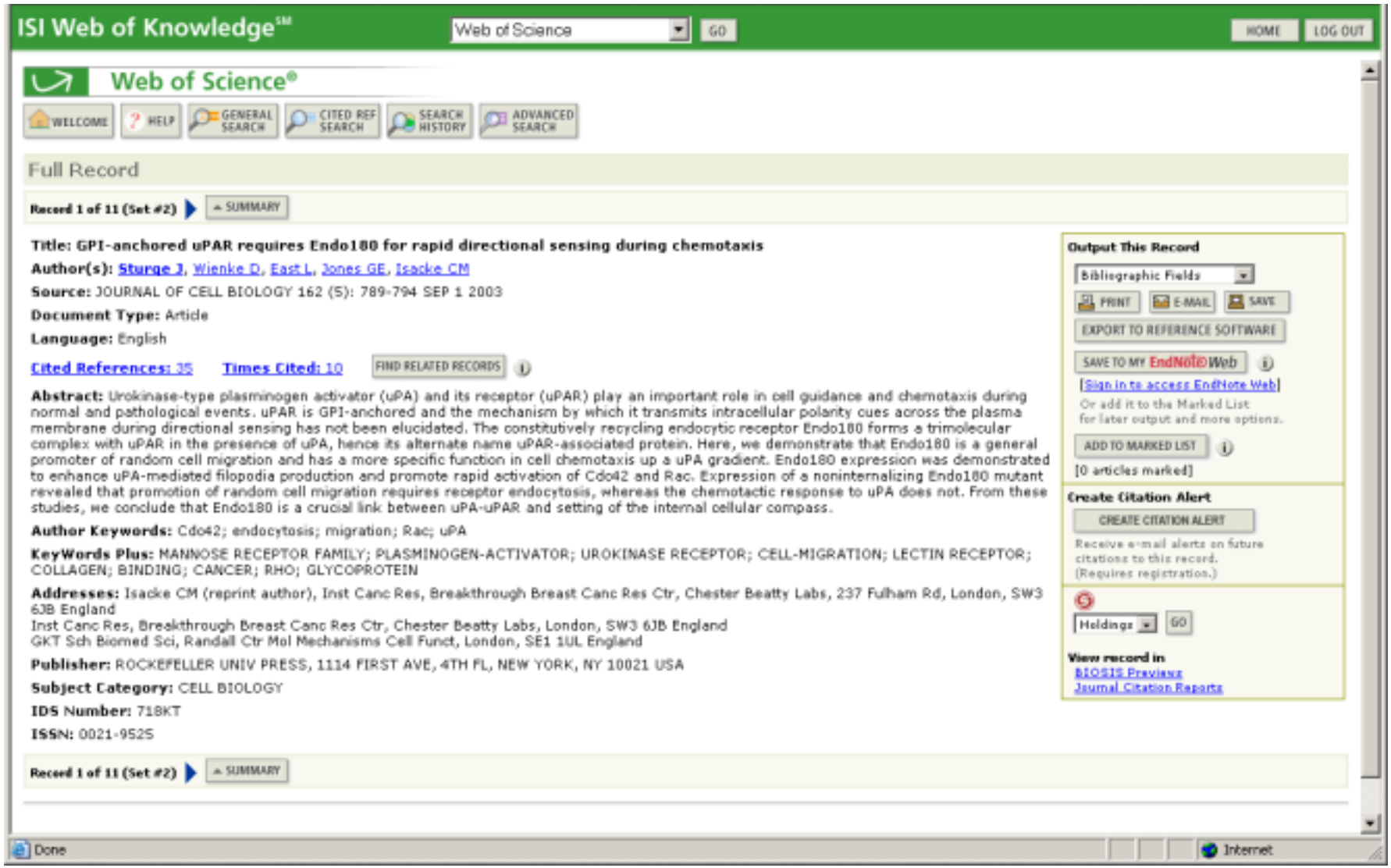
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SUMMARY
Title: GPI-anchored uPAR requires Endo180 for rapid directional sensing during chemotaxis
Author(s): Sturge J, Wienke D, East L, Jones GE, Isacke CM
Source: JOURNAL OF CELL BIOLOGY 162 (5): 789-794 SEP 1 2003
Document Type: Article
Language: English
Cited References: 35
Times Cited: 10
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Abstract: Urokinase-type plasminogen activator (uPA) and its receptor (uPAR) play an important role in cell guidance and chemotaxis during normal and pathological events. uPAR is GPI-anchored and the mechanism by which it transmits intracellular polarity cues across the plasma membrane during directional sensing has not been elucidated. The constitutively recycling endocytic receptor Endo180 forms a trimolecular complex with uPAR in the presence of uPA, hence its alternate name uPAR-associated protein. Here, we demonstrate that Endo180 is a general promoter of random cell migration and has a more specific function in cell chemotaxis up a uPA gradient. Endo180 expression was demonstrated to enhance uPA-mediated filopodia production and promote rapid activation of Cdc42 and Rac. Expression of a noninternalizing Endo180 mutant revealed that promotion of random cell migration requires receptor endocytosis, whereas the chemotactic response to uPA does not. From these studies, we conclude that Endo180 is a crucial link between uPA-uPAR and setting of the internal cellular compass.
Author Keywords: Cdc42; endocytosis; migration; Rac; uPA
KeyWords Plus: MANNOSE RECEPTOR FAMILY; PLASMINOGEN-ACTIVATOR; UROKINASE RECEPTOR; CELL-MIGRATION; LECTIN RECEPTOR; COLLAGEN; BINDING; CANCER; RHO; GLYCOPROTEIN
Addresses: Isacke CM (reprint author), Inst Canc Res, Breakthrough Breast Canc Res Ctr, Chester Beatty Labs, 237 Fulham Rd, London, SW3 6JB England
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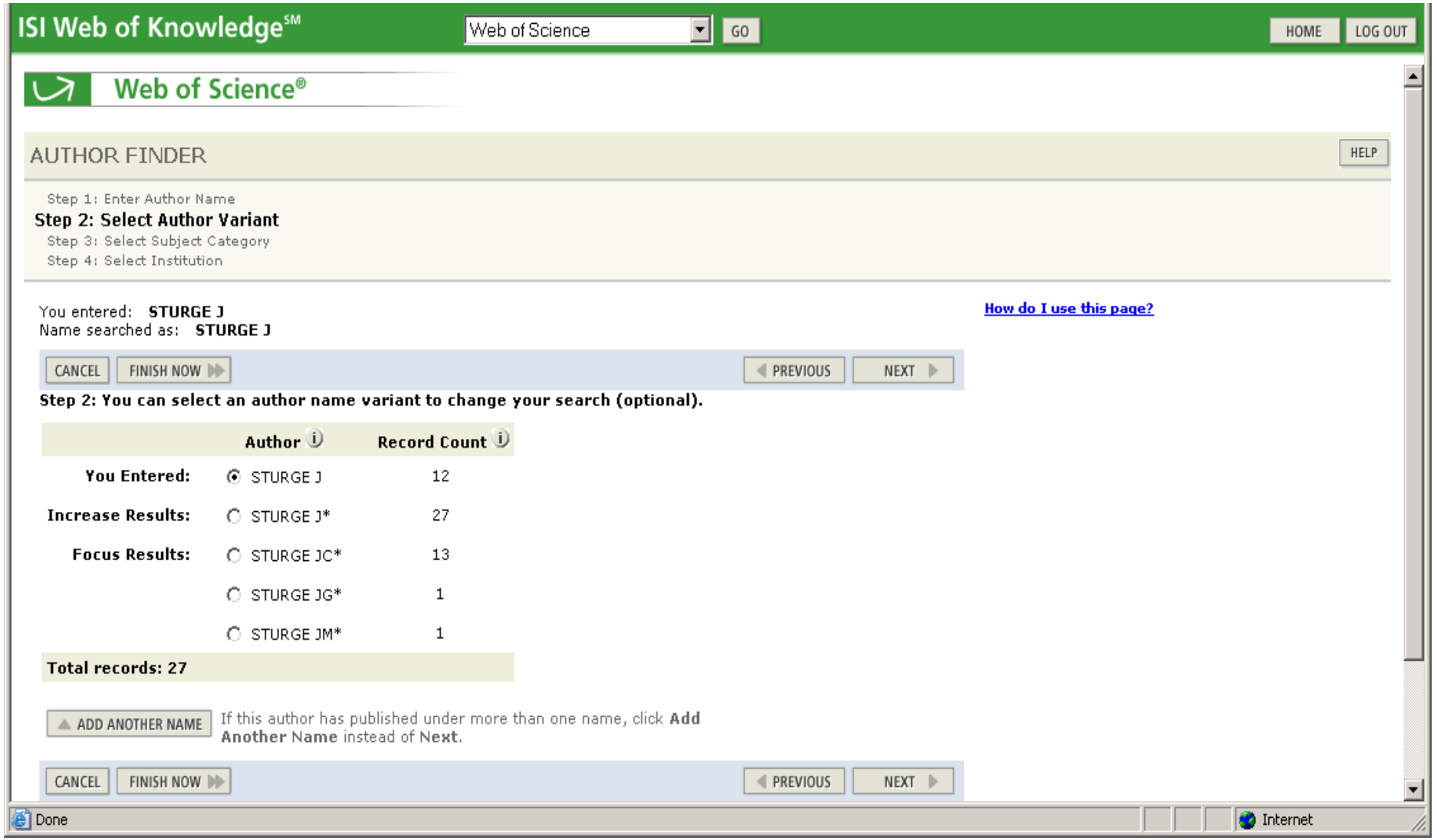
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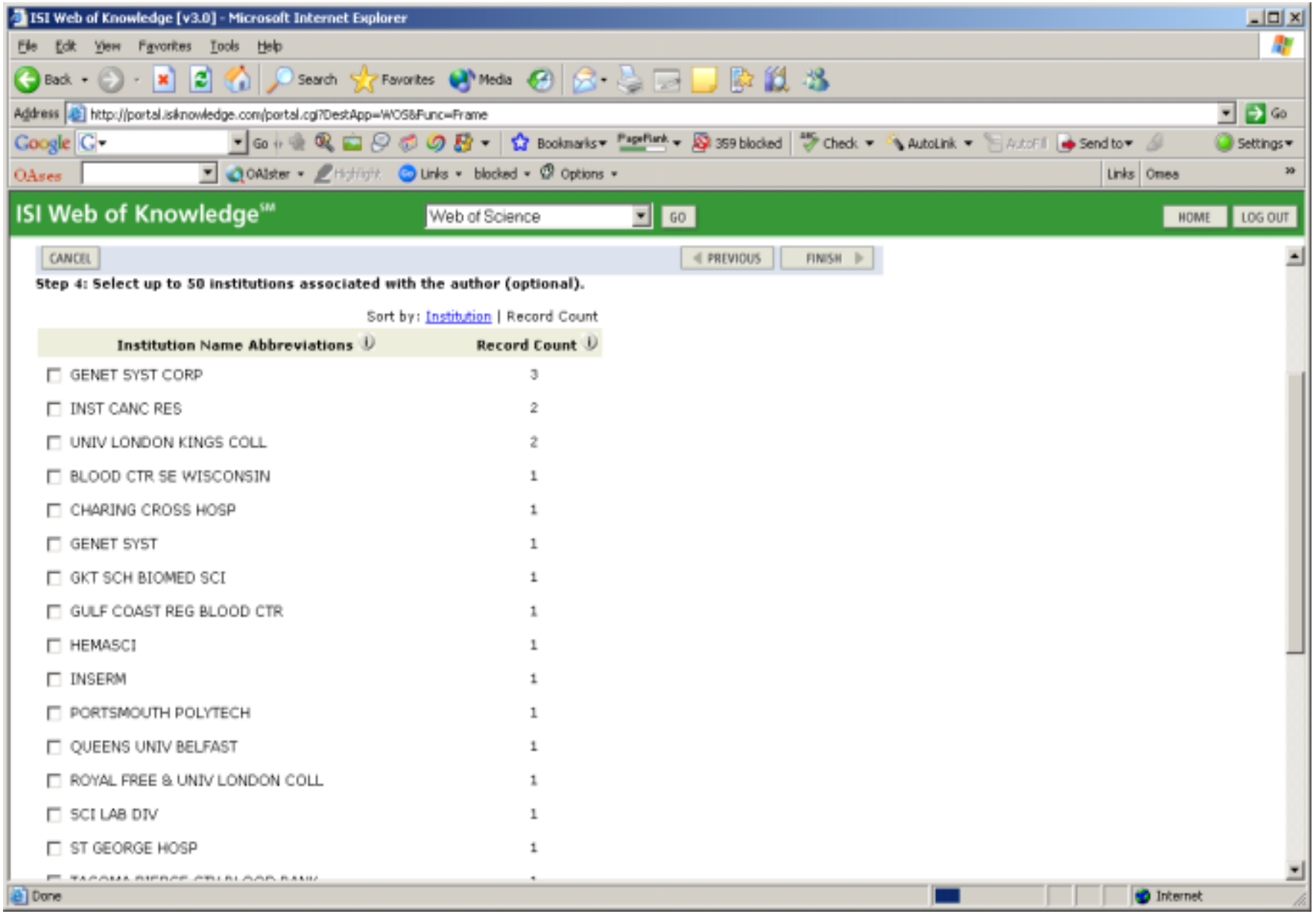
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Step 4: Select up to 50 institutions associated with the author (optional).
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Citation searching

- Key performance management tool
- …a degree of academic vanity ☺
- WoS retrospective coverage enhances power of citation searching (100+ years)
- Scopus has added some 245 million references from 1996 -
- Both offer citation browsing and alerting facilities

Citation searching

King, MC and Wilson, AC 1975. *Evolution at two levels in humans and chimpanzees* Science: 188, 107-116

WoS: 819 citations (including 10 mis-citations)

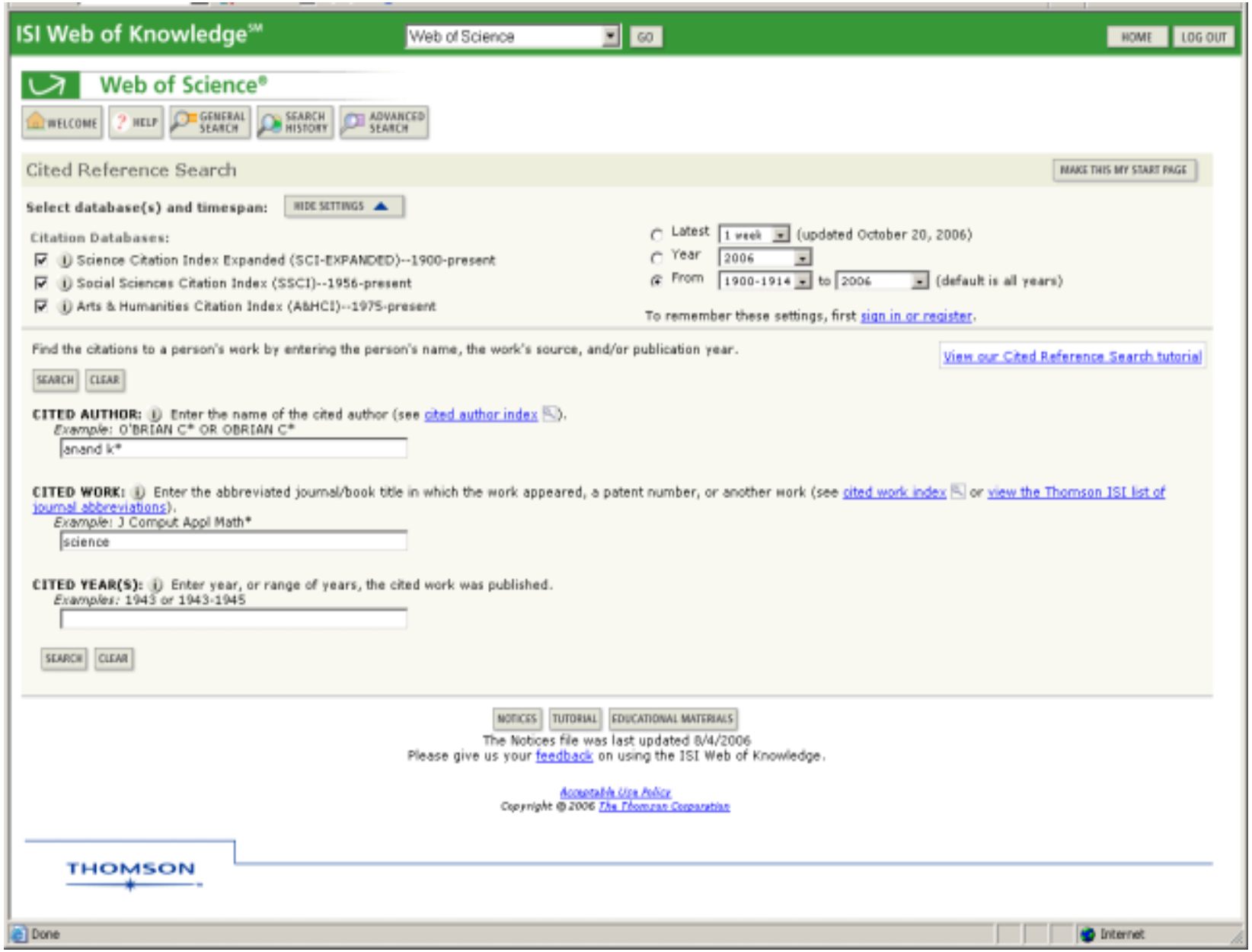
Scopus: 232

WoS consistently higher for older articles

So: chronology does matter in the size debate

WoS Citation searching

- Offers a ‘cited reference search’ option
- Where there is a full record for the cited work in the database all authors are searchable
- Where there is not, you require the first author
- A related records option is based on an analysis of citations
- The citation display screen provides a global overview of the citation process; including mis-citations ☺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Citation Databases:
Science Citation Index Expanded (SCI-EXPANDED)--1900-present
Social Sciences Citation Index (SSCI)--1956-present
Arts & Humanities Citation Index (A&HCI)--1975-present
Latest 1 week (updated October 20, 2006)
Year 2006
From 1900-1914 to 2006 (default is all years)
To remember these settings, first sign in or register.
Find the citations to a person's work by entering the person's name, the work's source, and/or publication year.
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Example: O'BRIAN C* OR OBRIAN C*
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CITED WORK: Enter the abbreviated journal/book title in which the work appeared, a patent number, or another work (see cited work index or view the Thomson ISI list of journal abbreviations).
Example: J Comput Appl Math*
science
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Examples: 1943 or 1943-1945
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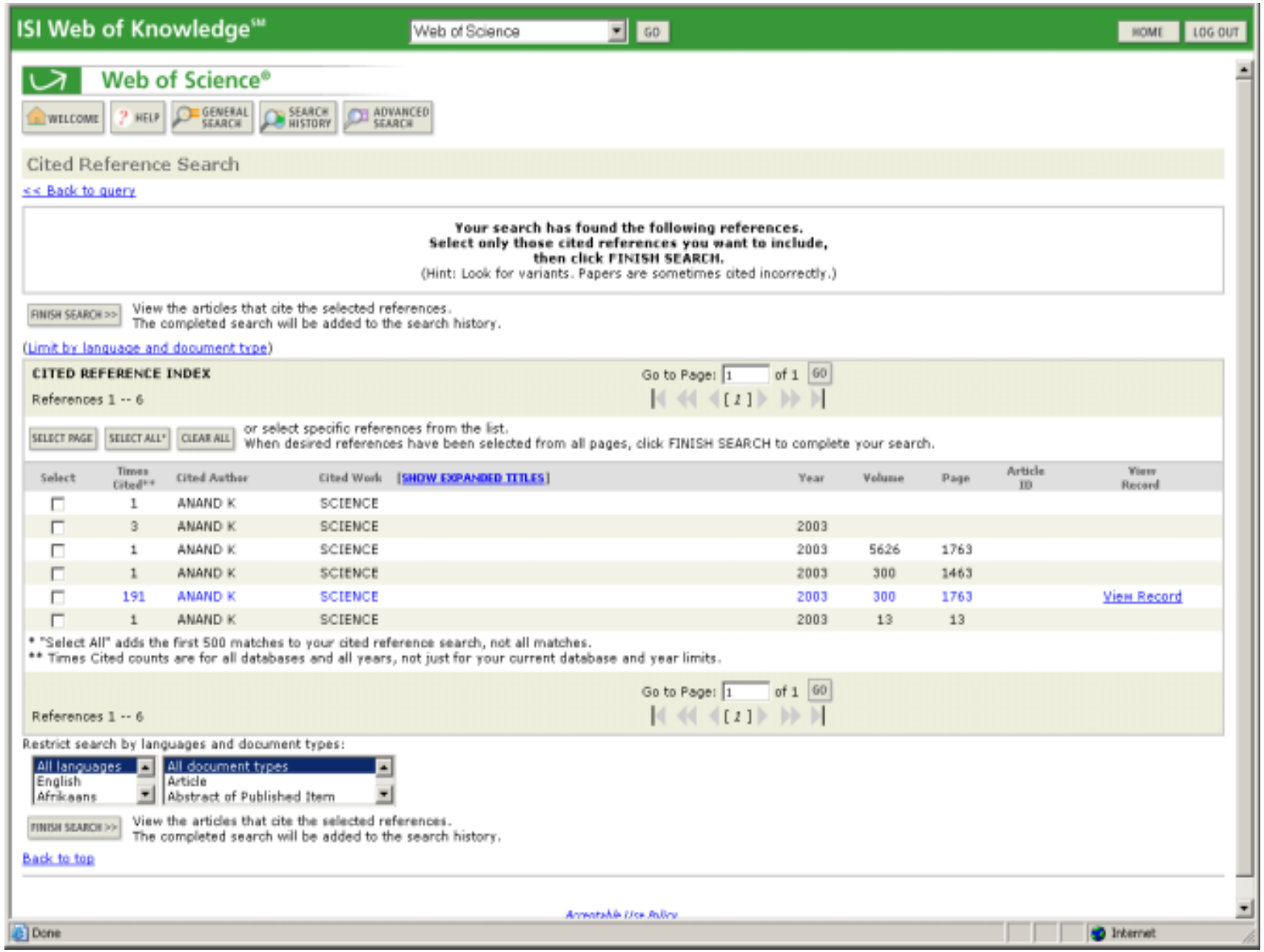
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Select only those cited references you want to include,
then click FINISH SEARCH.
(Hint: Look for variants. Papers are sometimes cited incorrectly.)
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View the articles that cite the selected references.
The completed search will be added to the search history.
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or select specific references from the list.
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** Times Cited counts are for all databases and all years, not just for your current database and year limits.
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FINISH SEARCH >>
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The completed search will be added to the search history.
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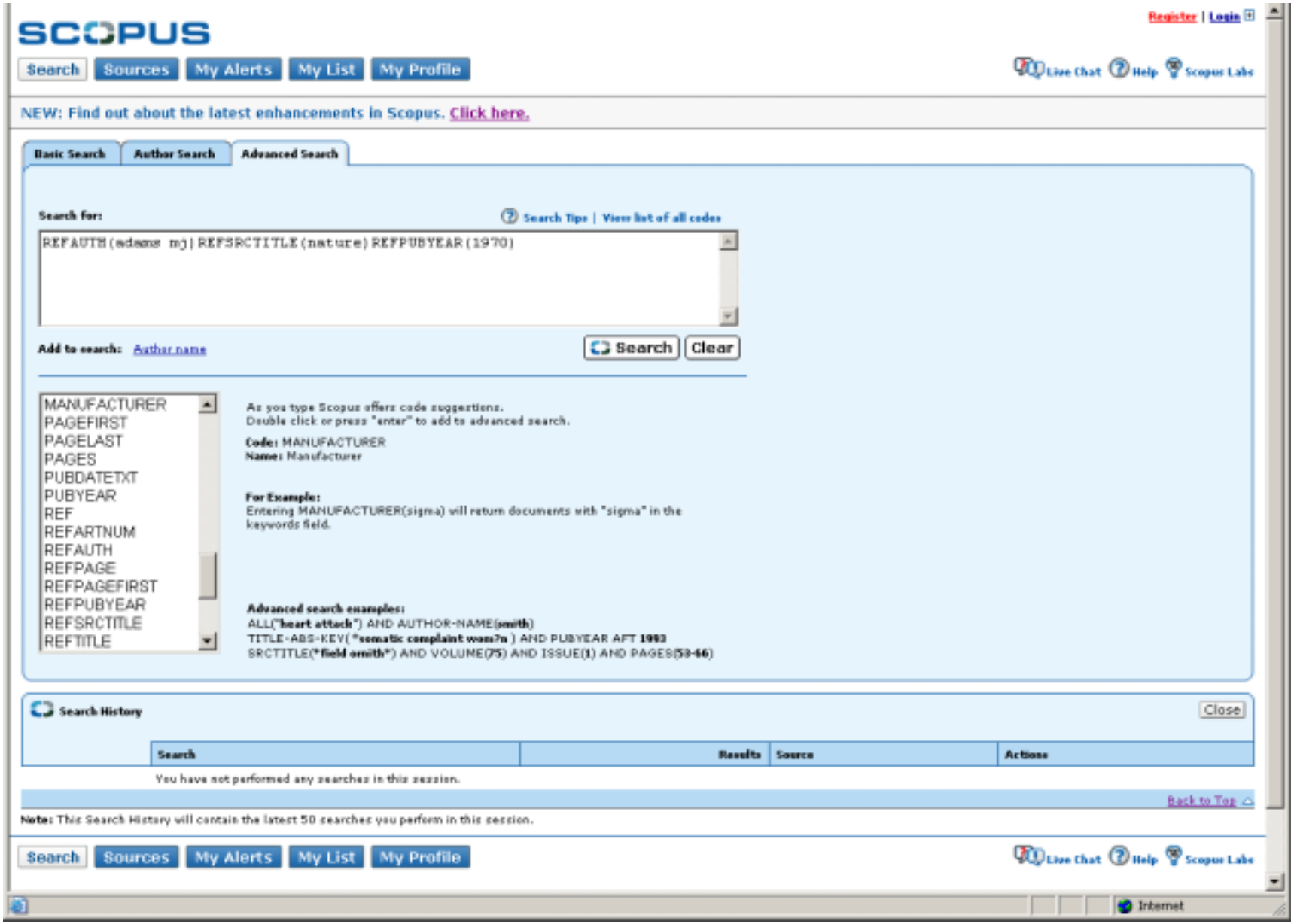
Scopus Citation searching

- A related documents option is available, based on citations, authors or keywords
- ‘Citation Tracker’ generates a global overview of articles and citation rates
- It’s more complex to find citations to items not included in Scopus …
- No simple ‘cited reference search’ option - you have to use advanced search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As you type Scopus offers code suggestions.
Double click or press "enter" to add to advanced search.
Code: MANUFACTURER
Name: Manufacturer
For Example:
Entering MANUFACTURER(sigma) will return documents with "sigma" in the keywords field.
Advanced search examples:
ALL("heart attack") AND AUTHOR-NAME(smith)
TITLE-ABS-KEY("somatic complaint wom?n) AND PUBYEAR AFT 1993
SRCTITLE("field smith") AND VOLUME(75) AND ISSUE(1) AND PAGES(58-66)
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You have not performed any searches in this session.
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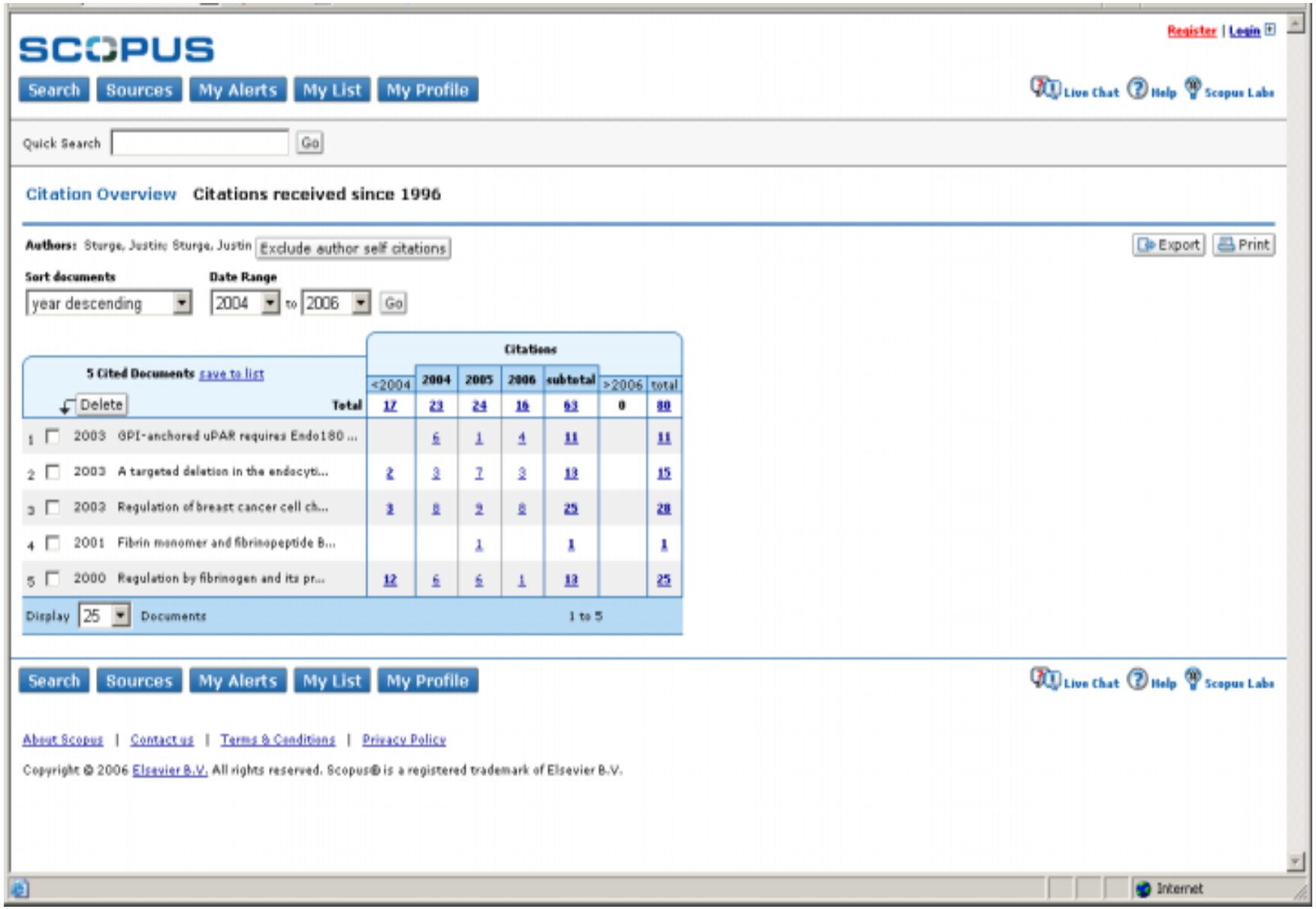
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save to list
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1 2003 GPI-anchored uPAR requires Endo180 ... 6 1 4 11 11
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3 2003 Regulation of breast cancer cell ch... 3 8 9 8 25 28
4 2001 Fibrin monomer and fibrinopeptide B... 1 1 1
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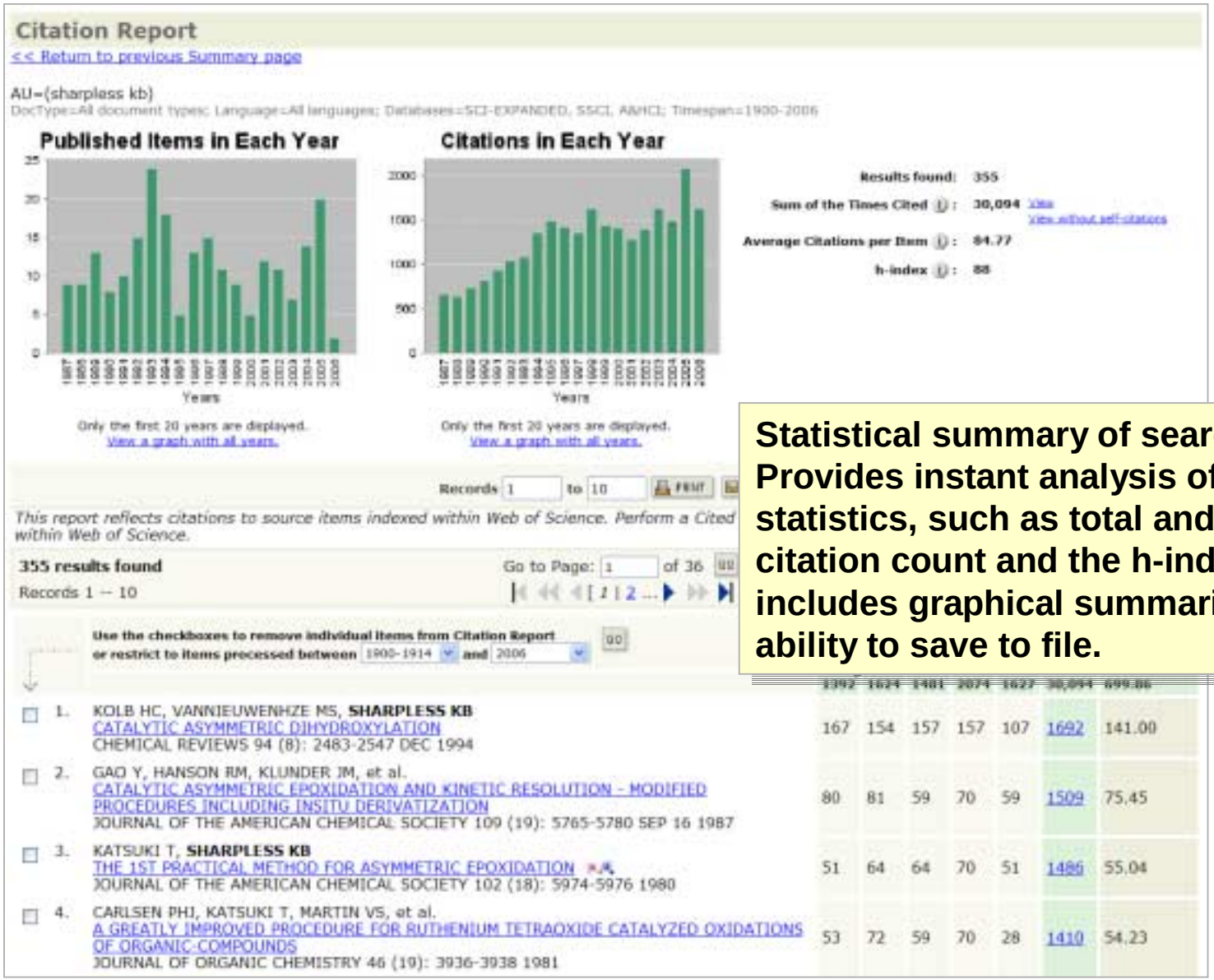
Citation searching

- Scopus back files will NOT include cited references
- WoS is about to launch a Citation Report tool: statistical & graphical summaries



Statistical summary of search results. Provides instant analysis of citation statistics, such as total and average citation count and the h-index. Also includes graphical summaries and the ability to save to file.

Data Management

- Print, email, save
- Both offer integrated workflow options
- Export to bibliographic software
- WoS – EndnoteWeb
- RSS alerting

Summary

- As an amalgam of databases there are considerable variations in data entry in Scopus
- Scopus needs to address gaps and inconsistencies in pre-96 coverage…a work in progress
- Scopus interface is clearer and more intuitive
- WoS is good for currency and depth of coverage
- Scopus is good for author/affiliation searching
- Scopus is good for keyword searching
- WoS is good for citation searching, particularly for pre-1996 articles
- Detailed and subject-specific analysis required

Google Scholar

- Free, but lots of content requires authentication
- Still in beta and still an unknown quantity
- Comprises peer-reviewed papers, abstracts, theses, books, e-prints, technical reports
- Trawls publisher sites, professional societies, institutional repositories, full text documents and cited references – but how??
- No clarity on size, content, selection criteria or time span
- No clarity on data gathering or ranking algorithms

Google Scholar ☺

- It’s more up to date and identifies material not yet indexed by WoS or Scopus
- It identifies lots of unique material
- It’s fast
- It’s increasing collaboration with publishers and libraries ensures links to ‘appropriate copy’ and holdings information is available
- Google search options including “” phrase searching are easy to learn
- It has an ‘advanced’ search option, with the opportunity to restrict to broad subject areas
- It includes citation data, and there is a ‘cited by’ function

Google Scholar ☹

- We’ve no idea what’s included or excluded – or even how it works
- Not all publishers will play ball, so PubMed is used as a proxy index
- Google is constantly crawling the web, but how often is GS updated?
- It lacks any of the sophisticated search functionality of Scopus and WoS - but what would you expect for free!
- Data is inconsistent and there are no efforts at standardisation
- Does it add to info glut?

Conclusions

- Budgetary restraint: fee or free?
- JISC's academic database assessment tool may help
- Demands for Google search functionality will see further interface developments
- Local user requirements crucial in any comparison
- Recall versus precision: does size matter?
- We are not comparing like with like: Comparison of Scopus with accumulated WoS, ISI Proceedings, Medline, Biosis and Web Citation Index would be better

Conclusions

- Estimated critical mass of STM journals 30-50K…so the Google Scholar option is an attractive ‘mop up’ solution: potentially huge critical mass of supplementary data
- Got to be mean to keep them keen ☺
- Intense competition has bred innovation in author profiling and citation analysis
- No perfect answers

Acknowledgements

- Linda Humphreys, Science Faculty Librarian, University of Bath and Chair, JIBS User Group

JIBS
User Group

- Roger A. Mills, Biosciences Librarian, Oxford University Library Services

- Andria McGrath, Information Specialist, King's College London