



Innovative Use of SFX and Legacy Data to Develop a Library Quick Search Tool & Its Mobile Extension

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UMDNJ Overview

- Largest standalone health sciences university in U.S.
- Eight schools: GSBS, NJDS, NJMS, SHRP, RWJMS, SN, SPH, SOM, on 5 campuses
- Student enrollment: 6,063
- Full and part-time faculty: 2,949
 - a) clinicians
 - b) researchers
- Residents & interns: 1,315





UMDNJ University Libraries

- Four campuses libraries:
 - ✓ G.F. Smith Library in Newark
 - ✓ Robert Wood Johnson Library on the New Brunswick/Piscataway campus
 - ✓ Camden Campus Library
 - ✓ Health Sciences Library at Stratford
- SFX implemented in 2005
- Shared electronic resources (as of May 2011)
 - ✓ E-Journals: 12,650 unique titles; 26,000 active records
 - ✓ E-Books: 710 titles
 - ✓ Databases: 86 databases
 - ✓ Images collections & Videos: 20 including publicly available
- Separate ILL services
- Independent print collections (63,000 books)



Rationale for Developing Library Quick Search Tools



- Redesign of website planned.
- Conducted focus groups with students on the following:
 - ✓ Comments & suggestions on old website
 - ✓ Ideas for better features on new website
 - Sample features presented for review
 - ✓ Single & one-stop search box was favored
 - capability to search PubMed from homepage
 - e-resources titles only (catalog is not a good choice)
 - directly linked to the e-resource's site (not favor of choices on SFX menu)
 - Quick search speed is preferred (tried federated search tools but it did not work out)
- Some Issues
 - ✓ Static web pages for many e-resources
 - ✓ Limits of OPAC
 - ✓ Experiences with a commercial federated search tool
 - ✓ SFX A-Z List and Menu





Design Goals & Objectives

- Create a one-stop search for all e-resource titles including subject guides, e-databases, e-books, and e-journals.
- Make the Search Box in the center of the Library's front page.
- Provide two most popular databases for direct search: PubMed & CINAHL.
- Prioritize the core medical content while making all titles available.
- Ensure quick search speed.
- Keep interface and display format simple and easy.





Other Considerations

- Low or minimal cost – by utilizing existing hardware and mainly open sources software
- Taking advantage of external sources' searching capability.
- Making full use of existing commercial and legacy systems
- Being flexible enough to provide future expansion. More features added at later stages, e.g.
 - ✓ Auto-complete function for core titles
 - ✓ Mobile extension





What Quick Search Is **NOT**

- It is not an enterprise level application - does not have a complicated multi-layers architecture.
- It is not replacing but supplemental to OPAC.
- It is not a true federated search but it has similar functions.
- It is not a discovery interface - no unified index, no relevance ranking, and no faceted browsing, etc.





What Quick Search IS

- It is a simple query interface that searches all e-resources.
- It is a lightweight and hybrid search toolkit consisting of a set of scripts.
- It was built upon various open source tools/technology: Perl/PHP/Javascript/XML/AJAX/jQuery/iQuery Mobile/MS ACCESS/MySQL, etc.
- It is a real low-cost approach – combining the existing library legacy data and the data exposed by SFX.





What Quick Search IS – Cont' d

- It was locally developed by our System Librarian.
- Minimal cost of software and hardware.
- For SFX V3 – data was downloaded to a local server; for SFX V4 – it uses the real-time e-journal data from SFX.
- The legacy data was exported and converted into a relational database.





Quick Search Features

- Embedded in the center of the newly designed website. <http://libraries.umdnj.edu/rwjlbweb>
- Direct search in the most popular databases: PubMed & CINAHL
- One search for all e-resource titles including subject guides, e-databases, e-books, and e-journals.
- An A-Z e-title browsing list.
- Limited subject search included.
- Core title list enabled with auto-complete feature.





Quick Search Features – Cont' d

- Alternative path for searching print materials in OPAC.
- Embedded search for PubMed sub-category as well as all UMDNJ licensed clinical databases.
- A true article search functionality based on NCBI's E-utility.
- Extended into our new mobile web site using jQuery Mobile.





RWJ Library OLD Website



University Libraries

University Libraries • Newark • Stratford • Camden

New Brunswick/Piscataway

Robert Wood Johnson Library



- Catalog
- Databases
- Full-Text Journals and Books
- Point-of-Care Resources
- Academic Resources
- Image Collections
- Remote Access
- HealthyNJ
- Subject Toolkits
- Special Collections
- RWJ Library Services
- About the Libraries
- Piscataway Libraries
- Local Links

[Library Hours](#) -- [Directions](#)
[Summer Hours](#)

[VISITORS: REQUEST FOR LIBRARY ACCESS](#)

[Library News](#)

[NIH Public Access Policy](#)

[Announcing NCME TV](#)

Attention Faculty: [Educational Technology Minigrants](#)

News Available as [RSS](#)

[All Library News](#)

[Polaris E-mail](#)





A Glance at RWJ Library's NEW Website



UMDNJ
UNIVERSITY OF MEDICINE &
DENTISTRY OF NEW JERSEY

**Robert Wood Johnson Library
of the Health Sciences**

University Libraries

Search

Library Hours:

Mon-Thu: 8:00-10:00; Fri: 8:00-5:00

Sat: 10:00-5:00; Sun: 10:00-5:00

[Summer Hours](#) [Visitors Form for Library Access](#)

[Clinical Resources](#) | [Books](#) | [Journals](#) | [More Resources](#) | [Services](#) | [How do I ...?](#) | [Campus Links](#)

Quick Search

Find articles: from PubMed CINAHL

[Complete List of Databases](#)

Find E-Resources by title:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search the Catalog:

Quick Links

- [ANGEL/my.UMDNJ](#)
- [Ejournals List](#)
- [EndNote Blog](#)
- [iTunes U \(RWJMS\)](#)
- [Library Catalog](#)
- [MDConsult](#)
- [Ovid Medline \(1996-Present\)](#)
- [Mobile Devices Resources](#)
- [Remote Access](#)
- [Subject Toolkits](#)
- [UMDNJ E-Mail](#)



Re-register your Essential Evidence Plus hand held now.

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Phone: 732-235-7610; Fax: 732-235-7826; Email: mehlib@umdnj.edu





A Closer Look at the Quick Search Tools

Quick Search

Find articles: from PubMed CINAHL
[Complete List of Databases](#)

Find E-Resources by title:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search the Catalog:

The first quick search box is an embedded search script which provides a direct search against selected databases such as PubMed and CINAHL.



Parsers for PubMed & Others



Redirect.cgi is a simple perl script which provides a direct search against PubMed, CINAHL and other medical/clinical sources

```
if ($strDB eq "pubmed")
{
.....
my $URL =
"http://www.ncbi.nlm.nih.gov/entrez?holding=njunjlib&otool=njunjlib&dr=Abstract&term=$strTitle&hi
story=y";
print "<script type='text/javascript'>";
print "window.location='$URL'";
print "</script>";

elseif ($strDB eq "cinahl")
{
.....
my $URL =
"http://libproxy2.umdj.edu/login?url=http://search.epnet.com/direct.asp?db=cin20&fquery=$st
rTitle&scope=site&history=y";
print "<script type='text/javascript'>";
print "window.location='$URL'";
print "</script>";
}
```



Finding an E-Resource by Title



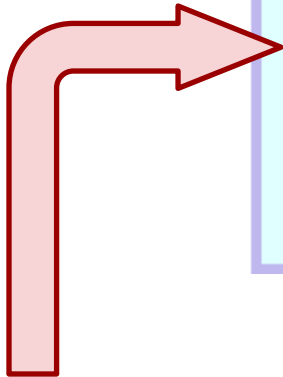
Quick Search

Find articles: from PubMed CINAHL
[Complete List of Databases](#)

Find E-Resources by title:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Search the Catalog:



The second search box is a database-driven search program, capable of searching the UMDNJ e-resource collection including e-journals, e-books, databases, and subject toolkits. A limited subject search is available for e-books and databases. Titles can also be browsed by alphabet.





E-Resources Search Example



Robert Wood Johnson Library
of the Health Sciences
University Libraries

Search University Libraries

Library Hours:
Mon-Thu: 8:00-10:00; Fri: 8:00-5:00

Books | Journals | More Resources

Auto-complete function is applied when searching for an e-resource's title

Find resources by title:

- pediatrics
- Academic Pediatrics / ScienceDirect
- Advances in Pediatrics / ScienceDirect
- Ambulatory Pediatrics / ScienceDirect
- Archives of Pediatrics & Adolescent Medicine / AMA
- BMC Pediatrics / PubMed Central
- Clinical Pediatrics / Journals@Ovid
- Current Opinion in Pediatrics / Journals@Ovid
- Current Problems in Pediatrics / ScienceDirect
- European Journal of Pediatrics / Springer
- European Journal of Pediatrics / Academic Search Premier

SciVerse ScienceDirect

Hub | ScienceDirect | Scopus | SciTopics | App

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Academic Pediatrics

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Publication History: Formerly known as **Ambulatory Pediatrics**

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E-Resources A-Z List



Quick Search

Find articles:

[Complete List of Databases](#)

Find E-Resources by title:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#)

Search the Catalog:

**E-Resources Titles
Browsing List**

Home > Electronic Journals

Browse E-resources Beginning with C

SUBJECT TOOLKIT:

[Citingsources of Information](#)

[Copyright & Intellectual Property](#)

[Cultural Competency](#)

ELECTRONIC DATABASES:

[CINAHL](#) - via Ebsco

[Cochrane Library](#) - via Wiley

[Community of Science \[On behalf](#)

[COS Scholar Universe](#) - via RefWo

[Current Contents Connect](#) - via ISI

ELECTRONIC BOOKS:

[C. Elegans II](#) - E-book from NCBI Bookshelf

[Campbell's Operative Orthopaedics](#) - E-book from MDConsult

[Campbell-Walsh Urology](#) - E-book from MDConsult

[Cancer Chemotherapy & Biotherapy](#) - E-book from Books@Ovid

[Cancer Medicine 6](#) - E-book from NCBI Bookshelf

ELECTRONIC JOURNALS:

[C & D debris recycling](#) - ISSN - 1078-3474 - full text available from 1997 - 1998

[Ca](#) - ISSN - 1542-4863 - full text available from 1950 -

[CA magazine](#) - ISSN - 0317-6878 - full text available from 2001 -

[Cabinet maker & retail furnisher](#) - ISSN - 0007-9278 - full text available from 1997 -

[Cable vision](#) - ISSN - 0361-8374 - full text available from 1999 - 2001

[CAD/CAM Update](#) - ISSN - 0361-8374 - full text available from 1999 -

[Calcified tissue international](#) - ISSN - 1432-0827 - full text available from 1997 - 2008



E-Journals Display Format



Clinical Tools:

ACP Journal Club

Access Medicine

Cochrane Library

D.A.R.E

DynaMed

Essential Evidence Plus

First Consult

Medical Letter

Other databases:

CINAHL

Medline

MD Consult

[Health United States 2004](#) - E-book from NCBI Bookshelf

[Health United States 2005](#) - E-book from NCBI Bookshelf

[Priorities in Health](#) - E-book from NCBI Bookshelf

[Public Health & Preventive Medicine](#) - E-book from Stat!Ref

ELECTRONIC JOURNALS:

[American journal of public health](#) - ISSN - 1540-0048 - full text available from 1975 -

[American journal of public health \(1912\)](#) - ISSN - 0271-4353 - full text available from 1912 - 1927

[American journal of public health and the nation's health](#) - ISSN - 0002-9572 - full text available from 1928 - 1970

[Annals of tropical medicine and public health](#) - ISSN - 0974-6005 - full text available from 2008 -

[Annual review of public health](#) - ISSN - 1545-2093 - full text available from 1997 -

[Australian and New Zealand journal of public health](#) - ISSN - 1753-6405 - full text available from 1997 -

[BMC public health](#) - ISSN - 1471-2458 - full text available from 2001 -

[Bulletins of the Public Health](#) - ISSN - 1471-2458 - full text available from 1878 - 1878

[Canadian Journal of Public Health](#) - ISSN - 0008-4263 - full text available from 1998 -

[Critical public health](#) - ISSN - 1469-3682 - full text available from 1998 - 2010

[Disaster Medicine & Public Health Preparedness](#) - ISSN - 1938-744X - full text available from 2007 -

[European Journal of Public Health](#) - ISSN - 1007-1100 - full text available from 2008 - 2010

[Evidence-based healthcare & public health](#) - ISSN - 1744-2257 - full text available from 2004 - 2005

[Health services reports](#) - ISSN - 0090-2918 - full text available from 1972 - 1974

[Indian Journal of Public Health](#) - ISSN - 2229-7693 - full text available from 2010 -

[International Journal of Collaborative Research on Internal Medicine & Public Health](#) - ISSN - 1840-4529 - full text available from 2009 -

[International Journal of Environmental Research and Public Health](#) - ISSN - 1660-4601 - full text available from 2008 -

[Journal of Environmental and Public Health](#) - ISSN - 1687-9813 - full text available from 2009 -

[Journal of public health](#) - ISSN - 1613-2238 - full text available from 1997 -

[Journal of public health](#) - ISSN - 1741-3850 - full text available from 2008 - 2010

[Journal of public health dentistry](#) - ISSN - 1752-7325 - full text available from 1997 -

[Journal of public health management and practice](#) - ISSN - 1550-5022 - full text available from 2002 -

[Journal of Public Health Policy](#) - ISSN - 1745-655X - full text available from 2006 - 2010





Legacy Data Source

- Jinput data file:
 - ✓ over 5800 medical related core titles
 - ✓ a flat BerkleyDB file converted to a Oracle table
 - ✓ original purpose: short URL/statistics
 - ✓ continue using and well maintained
- Jinput data file was downloaded and converted into a MS Access table
- Subject link tables were created: toolkit, ebook_subject_link, and e-database_subject_link.
- Static web pages such as subject guides
- Those tables were joined with Jinput table to form a relational database.



Legacy Data Converted into RDBM



cgi	url	title	database	type
	http://www.pubme	U.S. Nutrition Research	PubMed Central	journal
	http://libproxy2.umdj.edu/login	Journal of Nutrition	PubMed Central	journal
	http://www.ncbi.nlm.nih.gov/boc	Basic and Applied Nutrition	PubMed Central	journal
	http://libproxy2.umdj.edu/login	Gene	PubMed Central	journal
		Adolescent Medicine	PubMed Central	journal
		Child Abuse	PubMed Central	journal
		Allergy, Asthma & Immunology	PubMed Central	journal
		Alternative Medicine	PubMed Central	journal
		Anatomy	PubMed Central	journal
		Anesthesiology & Pain Management	PubMed Central	journal
		Biochemistry	PubMed Central	journal
		Biostatistics	PubMed Central	journal
		Cardiology	PubMed Central	journal
		Cell Biology	PubMed Central	journal
		Clinical Chemistry	PubMed Central	journal
		Computational Biology	PubMed Central	journal
		Critical Care	PubMed Central	journal
		Databases	PubMed Central	journal
		Dentistry	PubMed Central	journal
		Dermatology	PubMed Central	journal
		Developmental Biology	PubMed Central	journal
	http://libprox	Journal of Approximation Theory	ScienceDirect	journal
	http://libprox	Journal of Assisted Reproduction and	PubMed Central	journal
	http://libprox	Journal of Arid Environments	ScienceDirect	journal
	http://www.p			
	http://libproxy2.umdj.edu/login			

subject_id	subject	link_id	subject_id	cgi	url
78	Adolescent Medicine	524	1	4386	
1	Child Abuse	45	10	2531	
2	Allergy, Asthma & Immunology	46	10	1759	
3	Alternative Medicine	47	11	2443	
4	Anatomy	48	11	1908	
5	Anesthesiology & Pain Management	49	11	2332	
6	Biochemistry	50	11	1927	
7	Biostatistics	51	12	2531	
8	Cardiology	52	12	2347	
9	Cell Biology	53	13	3596	
79	Clinical Chemistry	54	13	3114	http://chemfinder.cambridgesoft.com/
10	Computational Biology	55	13	3115	http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
11	Critical Care	56	13	3104	
12	Databases	57	13	3129	
13	Dentistry				
14	Dermatology				
15	Developmental Biology				

toolkit_id	Subject	url
1	Alternative Medicine	http://libraries.umdj.edu/toolkits/Alternative_Mec
10	Geriatrics	http://libraries.umdj.edu/toolkits/Geriatrics/index
11	Government Resources	http://libraries.umdj.edu/toolkits/Government_Re
12	Grants and Funds	http://libraries.umdj.edu/toolkits/Grants_and_Fun
13	Health Statistics	http://libraries.umdj.edu/toolkits/Statistics/index
14	HIV/AIDS	http://www.umdj.edu/web/toolkits/HIVAIDS/i
15	Learning Tools	http://libraries.umdj.edu/toolkits/Learning_Tools/
16	Nursing	http://libraries.umdj.edu/toolkits/Nursing/
17	Obstetrics and Gynecology	http://libraries.umdj.edu/toolkits/ObGyn/index.ht
18	Oncology	http://libraries.umdj.edu/toolkits/Oncology/index
19	Osteopathic Medicine	http://www.umdj.edu/libweb/toolkits/OsteoMed
42	Alternative Medicine	309
43	Alternative Medicine	1733
44	Alternative Medicine	890
9	ChemFinder	http://chemfinder.cambridgesoft.com/
45	ChemID Plus	http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
46	Drug Information	1731
47	Drug Information	1751
50	Drug Information	1779
51	Drug Information	890
52	TOXLINE	http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?TOXLINE
53	TOXNET	http://toxnet.nlm.nih.gov/
54	TRIP Database	http://www.tripdatabase.com/index.html
55	Drug Information	1783
10	BestBETS	http://www.bestbets.org/
56	ClinicalTrials.gov	http://clinicaltrials.gov/ct/gui
57	CMA Infobase	http://mdm.ca/cpgsnew/cpgs/



Legacy Data Access



Following php script using ADODB to provide search for e-books, e-databases & toolkits by title, name and subject.

Example SQL query to find e-books by title and subject in ADODB:

```
$query = "SELECT DISTINCT title, url, database, cgi  
FROM jinput  
WHERE type = 'ebook' AND title LIKE '%$keywords%'  
UNION SELECT DISTINCT title, url, database, cgi  
FROM jinput  
WHERE cgi IN (SELECT cgi FROM ebook_subject_link WHERE subject_id = (SELECT subject_id FROM  
ebook_subject WHERE subject = '%$keywords%'))";
```

PHP code to display the search results:

```
while(!$objrs->EOF) {  
  
.....  
  
$realUrl = "<li><a href=\"http://www.umdj.edu/cgi-bin/libjournal/\" . $cgi->value . \"\" target='_blank'\"";  
print ($realUrl . ">" . $title->value . "</a> - E-book from " . $database->value . "</li><br>");
```



SFX Data Access



- Jinput has only 5800 titles.
- SFX has over 12,600 titles.
- Jinput has no other metadata such as ISSN and holdings.
- SFX provides ISSN, holdings and SFX menu.
- Initial approach: the whole local instance was downloaded to the Quick Search server over night.
- After upgrading to V4, this approach is no longer feasible.
- A real time access to SFX data was built.



Access SFX V3 Data



Threshold:

`$obj->parsedDate('>=', '2008', '84', 'undef') && $obj->timediff('>=', '1y')`

Example sql query to find e-journals locally in MySQL:

```
$query = "SELECT A.TITLE_NORMALIZED, F.THRESHOLD_GLOBAL,  
S.ISSN_ID, F.THRESHOLD, A.OBJECT_ID,  
MIN(SUBSTRING(F.THRESHOLD_GLOBAL, 23, 5)) AS HOLDING  
FROM AZ_TITLE A, AZ_FILTER F, AZ_LETTER_GROUP L, ISSN S  
WHERE A.OBJECT_ID = F.OBJECT_ID  
AND A.OBJECT_ID = S.OBJECT_ID  
AND L.AZ_LETTER_GROUP_ID = A.AZ_LETTER_GROUP_ID  
AND A.TITLE_NORMALIZED LIKE '%$keywords%'  
GROUP BY A.OBJECT_ID  
ORDER BY A.AZ_TITLE_ORDER";
```





Access SFX V4 Data

Example sql query to direct find e-journals in SFX 4:

```
$query = "SELECT A.TITLE_DISPLAY, R.FROM_YEAR, R.TO_YEAR, A.OBJECT_ID  
FROM AZ_TITLE A, AZ_FILTER F, AZ_LETTER_GROUP L, AZ_TITLE_SEARCH  
T,  
RAPID_SERVICE_INDICATOR R  
WHERE A.OBJECT_ID = F.OBJECT_ID  
AND A.OBJECT_ID = R.OBJECT_ID  
AND L.AZ_TITLE_ID = A.AZ_TITLE_ID  
AND A.AZ_TITLE_ID = T.AZ_TITLE_ID  
AND F.IS_RELATED = 'NO'  
AND T.TITLE_SEARCH LIKE '%$keywords%'  
GROUP BY A.AZ_TITLE_ID  
ORDER BY A.TITLE_SORT  
";
```



SFX Data Display



PHP code to build an OpenURL and display the search result:

.....

\$beginning =

```
"http://sfx.umdj.edu/sfxlcl3?url_ver=Z39.882004&url_ctx_fmt=infofi/fmt:kev:mtx:ctx&ctx_e  
nc=info:ofi/enc:UTF-8&ctx_ver=Z39.88-  
2004&rfr_id=info:sid/sfxit.com:azlist&sfx.ignore_date_threshold=1&rft.object_id=";
```

\$ending = "&svc.holdings=yes&svc.fulltext=yes";

.....

\$sfxlink = \$beginning . \$object . \$ending;

```
$sfxdisplay = "<li><a href='$sfxlink' target='_blank'>$title</a> - ISSN - $issn - full text available  
from $holding -$holding_end</li>";
```

```
echo $sfxdisplay;
```





E-Resource Search Results

UMDNJ UNIVERSITY LIBRARIES
University of Medicine and Dentistry of New Jersey

Search

Quick

About the Libraries Selected Resources Our Current Libraries

Search All E-Titles Search

Search "PEDIATRICS" in the following sources:

PubMed:

- PubMed Searches
- Systematic Reviews
- Randomized Controlled Trials
- Clinical Trials
- Recent Reviews
- Therapy
- Diagnosis
- Prognosis
- Harm

SUBJECT TOOLKITS:

- Pediatrics

ELECTRONIC DATABASES:

- Cochrane Library - via Wiley
- Health and Wellness Resource Center - via MDCConsult
- MDCConsult - via MDCConsult
- MEDLINE 1996 - Current - via Ovid
- PubMed - via NCBI

ELECTRONIC BOOKS:

- 5-Minute Pediatric Consult - E-book from Books@Ovid

Diagnosis
Prognosis
Harm
Etiology
Epidemiology

Clinical Tools:

- ACP Journal Club
- Access Medicine
- Cochrane Library
- D.A.R.E
- Essential Evidence Plus

Other databases:

- CINAHL
- Medline
- MDConsult
- Textbook of Pediatric Emergency Medicine - E-book from Books@Ovid

ELECTRONIC BOOKS:

- 5-Minute Pediatric Consult - E-book from Books@Ovid
- Adolescent Health Care - E-book from Books@Ovid
- Child and Adolescent Clinical Psychopharmacology - E-book from Books@Ovid
- Clinical Use of Pediatric Diagnostic Tests - E-book from Books@Ovid
- Current Pediatric Diagnosis and Treatment - E-book from Books@Ovid
- Dermato-endocrinology - E-book from PubMed - E-book from AccessMedicine
- Family-Focused Behavioral Pediatrics - E-book from AccessMedicine
- Harriet Lane Handbook - E-book from AccessMedicine
- Health United States - E-book from AccessMedicine
- Lovell & Winter - E-book from AccessMedicine
- Manually - E-book from AccessMedicine

ELECTRONIC JOURNALS:

- Academic Pediatrics - ISSN - 1876-2567 - full text available from 2009 -
- Advances in pediatrics - ISSN - 1878-1926 - full text available from 2005 -
- Ambulatory Pediatrics - ISSN - 1539-4409 - full text available from 2001 - 2008
- Archives of pediatrics & adolescent medicine - ISSN - 1538-3628 - full text available from 1998 -
- BMC pediatrics - ISSN - 1471-2431 - full text available from 2001 -
- BMC pediatrics - ISSN - 1938-2707 - full text available from 1999 -
- Clinical Pediatrics - ISSN - 2150-6545 - full text available from 1999 -
- Contemporary Pediatrics - ISSN - 1531-698X - full text available from 1997 - 2010
- Current opinion in pediatrics - ISSN - 1532-6329 - full text available from 1997 - 2010
- Current problems in pediatrics - ISSN - 1432-1076 - full text available from 1997 - 2010
- European journal of pediatrics - ISSN - 0943-9676 - full text available from 1997 - 2008
- European journal of pediatrics - ISSN - 0973-1679 - full text available from 2009 -
- Indian journal of pediatrics - ISSN - 1687-9759 - full text available from 2002 -
- International journal of pediatrics and neonatology - ISSN - 1528-8374 - full text available from 2002 -
- The Internet journal of pediatrics - ISSN - 1536-7312 - full text available from 2001 -
- The Italian Journal of Pediatrics - ISSN - 1720-8482 - full text available from 2004 -
- Journal of developmental and behavioral pediatrics - ISSN - 1536-7312 - full text available from 2001 -
- Journal of neurosurgery, Pediatrics - ISSN - 1933-0715 - full text available from 1993 -
- Journal of pediatrics - ISSN - 1097-6833 - full text available from 2009 - 2010
- The journal of pediatrics - ISSN - 1465-3664 - full text available from 2009 - 2010
- The journal of tropical pediatrics - ISSN - 1538-358X - full text available from 2002 -
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American journal of industrial medicine

2011 Aug 19;

Erickson CS, Zaitoun I, Haberman KM, Gosain A, Druckenbrod NR, Epstein ML,

Sacral neural crest-derived cells enter the aganglionic colon of Ednr β (-/-) mice along extrinsic nerve fibers.

The Journal of comparative neurology

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Comparing the risk factors associated with serious versus and less serious work-related injuries in ontario between 1991 and 2006

Peter Smith PhD^{1,2*}, Sheila Hogg-Johnson PhD^{1,2}, Cameron Mustard ScD^{1,2}, Cynthia Chen MSc¹, Emile Tompa PhD^{1,2,3}

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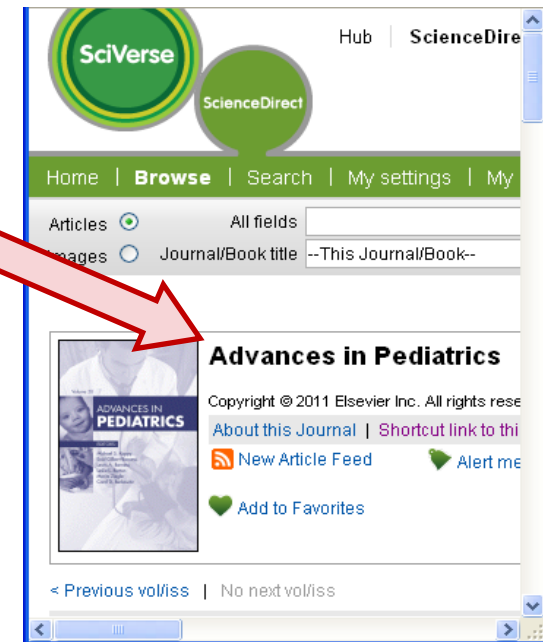
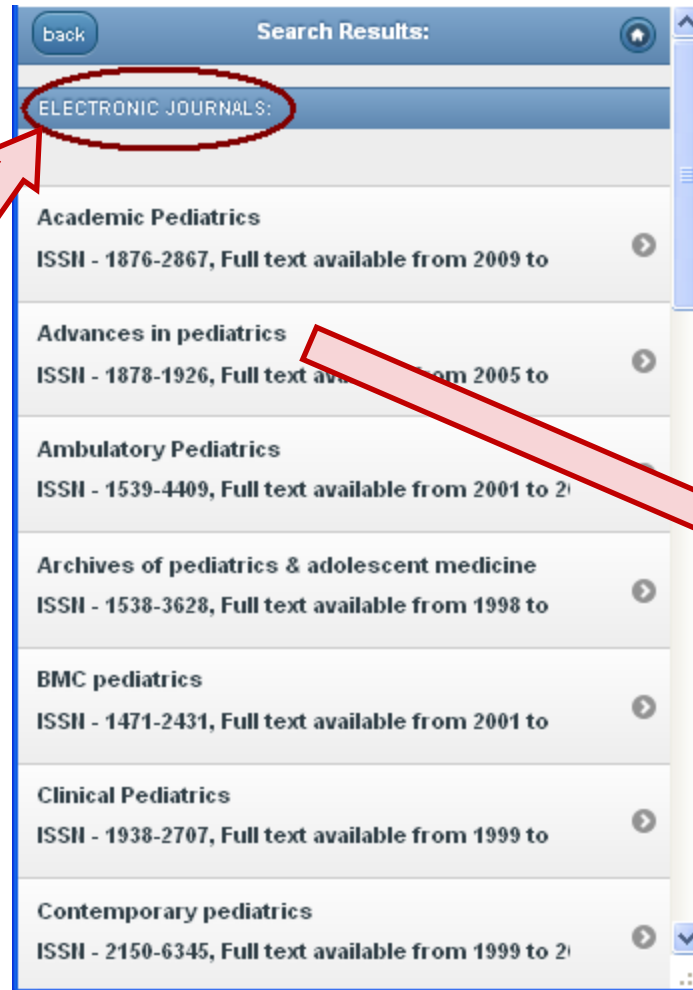
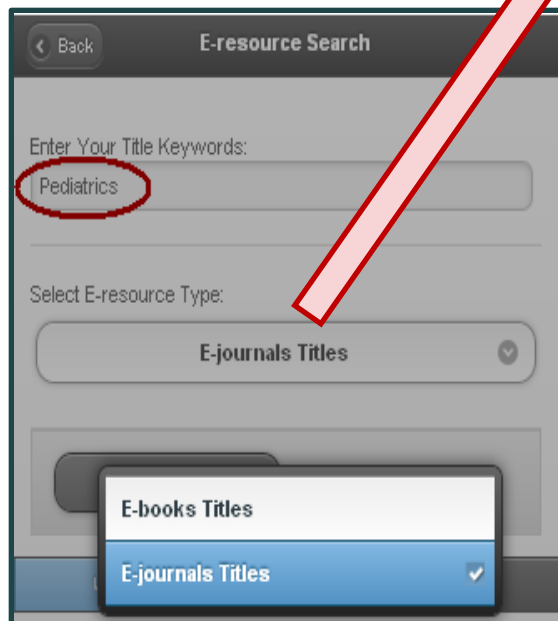
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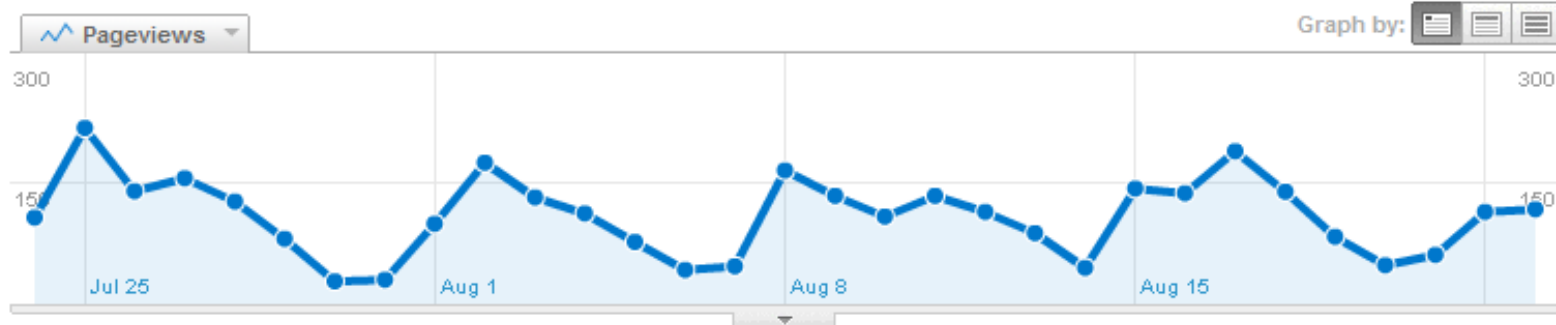




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Challenges & Future Plans



- Not as sophisticated as discovery/federated search tools .
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- Integrate other types of materials such as images & videos.
- Enhance subject search.
- Add more alternative options, e.g. ILL form & recommended resources based on usage data.
- Add more functionality, e.g. spell checker for PubMed search; export option such as Endnote?
- Dynamically create specialty subject toolkits with newly developed techniques
- Expand legacy database to ultimately replace current static e-books and databases list.





Thank You!

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