



THE DATA CITATION INDEX: ITS TIME HAS COME

MICHAEL TAKATS

10 JULY 2013



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THOMSON REUTERS WEB OF SCIENCE

- OVER 50 YEARS OF EXPERIENCE IN CITATION INDEXING, ANALYSIS AND METRICS
- In 1955, Dr. Eugene Garfield revolutionized research with his concept of citation indexing and searching, giving birth to the **Science Citation Index®**
- **Web of Science** is the largest multidisciplinary citation database with approx. **900 million cited references** from 1900 to 2013
- The **Web of Knowledge** expands and complements the **Web of Science** --- 24,000+ Journals, Books, Proceedings, Patents, and now **Data...**

1961



1961 Science Citation Index® revolutionizes scientific research

1974 Derwent World Patents Index® provides searchable access to patents from all technologies

1997 Web of Science™ provides seamless access to information from worldwide research journals



2001 Web of Knowledge™ provides a single research platform for journal literature, patents, chemical compounds, genetic sequencing and more



2006 ScholarOne Manuscripts Management® enables authors to create manuscripts in EndNote and seamlessly submit them for review



2007 ResearchID provides an invaluable index to accurate author identification and information

2009 Thomson Reuters launches InCites, the first ever tool to provide comprehensive, customized citation-based research evaluation on the Web



2010 Thomson Reuters undertakes massive data collection exercise, partnering with hundreds of universities worldwide in the Global Institutional Profiles Project

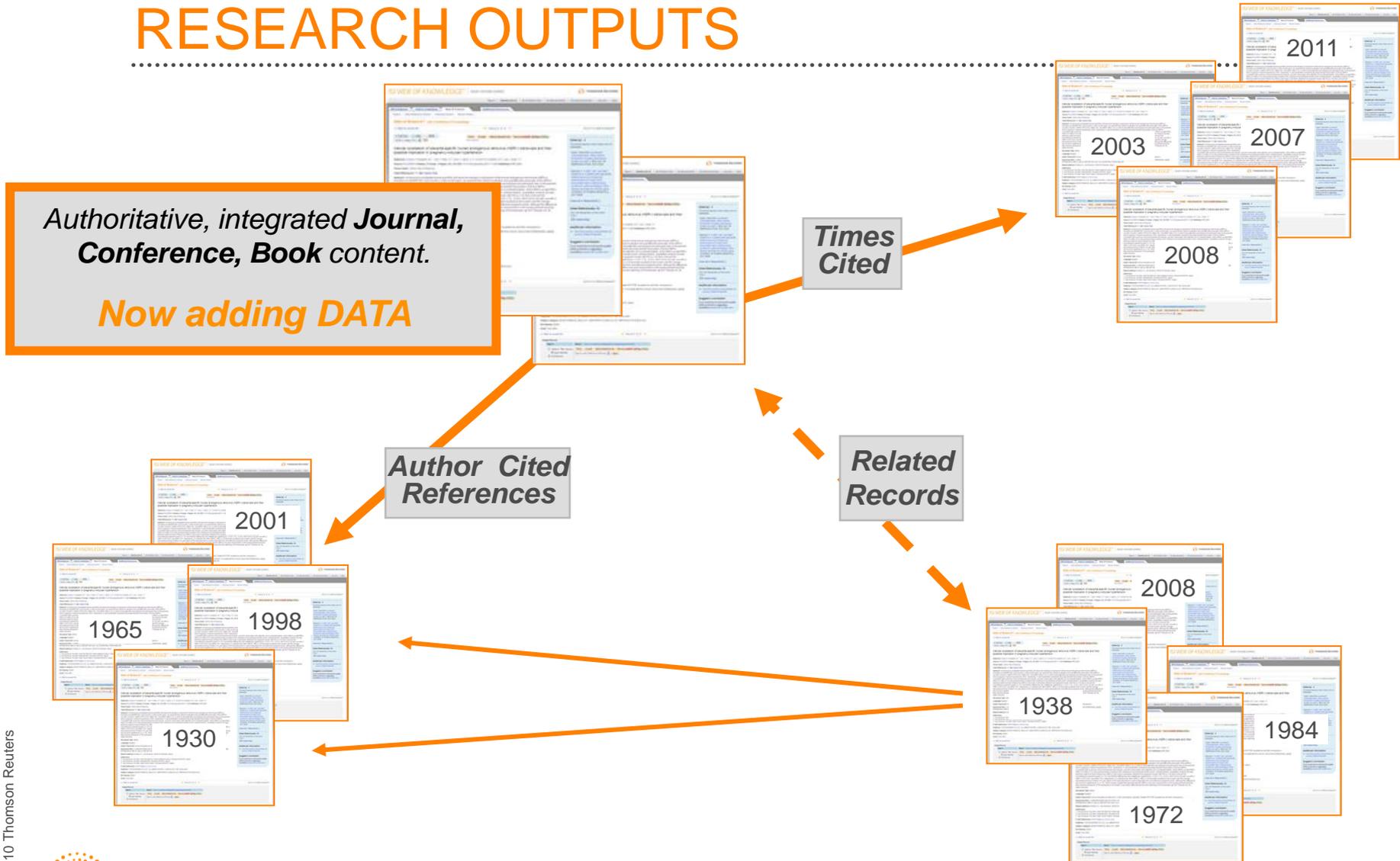
2011 Thomson Reuters Research In View™ helps redefine research management. The enterprise-wide solution links and standardizes data from multiple sources, connecting scholarly activity across an entire institution

2011



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INDEXING AND CONNECTING RESEARCH OUTPUTS



*Authoritative, integrated **Journal, Conference, Book** content.*
Now adding DATA

Times Cited

Author Cited References

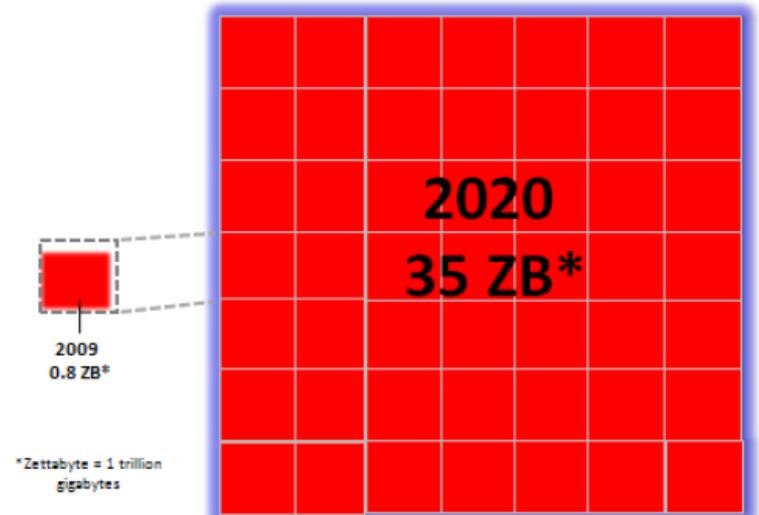
Related Records

The Ubiquity of Research Data

Whenever and wherever there is research, there is research data

The digitization of data has created tremendous opportunities for research data of all varieties, creating a large and growing opportunity

Figure 1: The Digital Universe 2009 – 2020
Growing by a Factor of 44



Source: IDC Digital Universe Study, sponsored by EMC, May 2010

DIGITAL SCHOLARSHIP

Digital Scholarship

- Very visible within the literature as a concept
- Articles, projects, university labs all devoted to digital scholarship in various ways

Interested Parties

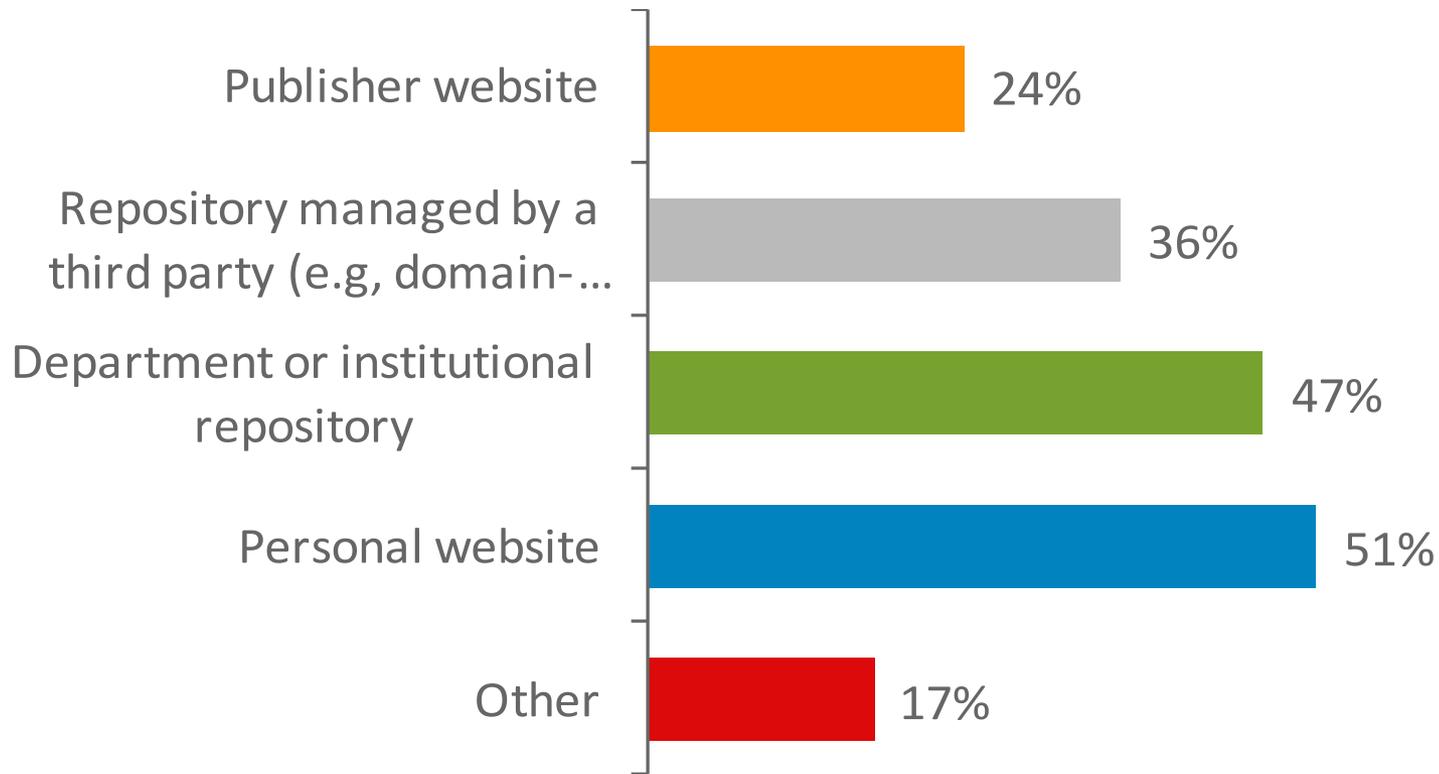
- Authors/researchers
- Research administrators
- Librarians, data archivists
- Publishers
- Grant funding organizations

Content

- Discipline-specific and multidisciplinary content
- Needs and requirements vary by discipline
- Diverse content formats, with few standards
- Includes collaboration and communications



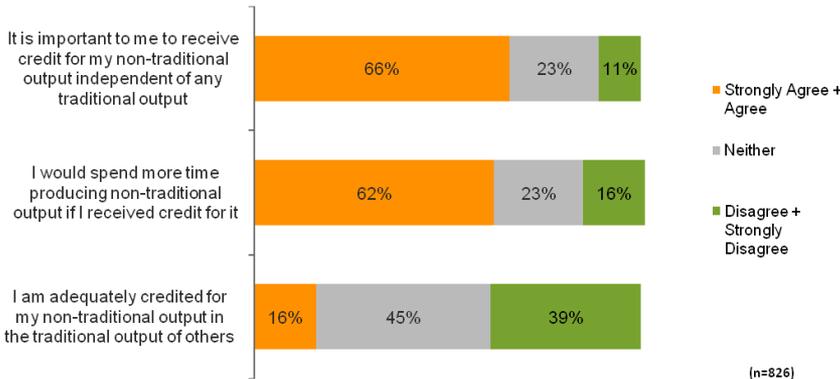
DEPOSITION OF DATA BY RESEARCHERS



RESEARCHERS NOT RECEIVING CREDIT

► Researchers are not receiving adequate credit for digital scholarship

- Researchers would spend more time producing output if they received credit
- Few are currently receiving adequate credit



► Institutional policies and the lack of standards for sharing digital output is an impediment both to research and sharing

“Lack of knowledge about standards for citation and of proper scholarly recognition and/or evaluation of such materials.” (Researchers, Canada)

Barriers to creating and sharing data:

- Researchers are hesitant to spend time and effort to create and share data because they don't feel the work is **adequately exposed or accredited**
- Researchers find it difficult to expose data they have produced because **data repositories do not have clear standards or mechanisms** in place for doing so

BARRIERS TO RESEARCHERS CITING DATA

Researchers agree that data *should* be cited, but there are currently no universally accepted standards for citing data

“Lack of knowledge about standards for citation and of proper scholarly recognition and/or evaluation of such materials.”...

“...cumbersome citation formats including very long internet addresses.”

“Incomplete citation information available (dates and real author names as distinct from aliases)”



BENEFITS OF RESEARCH DATA SHARING



By tk-link

- Advancement of scholarship
- Verification of results
- Promotion of scholar's work

EMERGENCE OF FUNDING MANDATES

NIH (2003) Data Sharing Policy that all funding applications of \$500,000 or more per year are **expected to address data-sharing** in their application.



NSF (2011) All funding proposals submitted on or after January 18, 2011, **must include a “Data Management Plan”** describing how the proposal will conform to NSF policy on the dissemination and sharing of research results.



INTERNATIONAL MANDATE EXTENSION

Aug 2011... “expectation that all our funded researchers should **maximise access to their research data** with as few restrictions as possible. submit a **data management and sharing plan** as part of the application process.”

welcometrust

2007... “Researchers are to retain research data and primary materials, **manage storage of research data** and primary materials, maintain confidentiality of research data and primary materials.”



Australian Government

Australian Research Council

MANDATES BECOMING STRONGER

Grants.gov Application Guide

A Guide for Preparation and Submission of NSF Applications via Grants.gov



January 14, 2013... “failure to provide the requisite Data Management Plan will **result in the application being rejected or terminated.**”



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IMPACT ON RESEARCH LIBRARIES

Data Management at Harvard

- Overview
- Feedback
- Harvard Guidelines and Policies
- Funding Agencies Guidelines and Policies**
- Publishing and Storing Your Data
- Security
- Best Practices

Funding Agencies Guidelines and Policies

National Science Foundation

Search ARL

ARL  **ASSOCIATION OF RESEARCH LIBRARIES**

www.arl.org > transforming research libraries > evolving e-research > e-science > guide for research libraries: the nsf data sharing policy

Transforming Research Libraries Contact: Judy Ruttenberg

E-Science

Guide for Research Libraries: The NSF Data Sharing Policy

Authors: [Patricia Hswe](#) and [Ann Holt](#)

More on This Topic

- Unpacking the NSF Requirement
- A New Leadership Role for Libraries

Overview

In Spring 2010, the National Science Foundation (NSF) announced that it would alter its data sharing policy to require data management plans (DMPs) in future grant proposals to the agency. The Association for Research Libraries has developed

myU > One Stop >

Search Library Web site

To access your account:

Ask Us!

Managing Your Data

- Data Management - Home
- Data Management Plans**
- Funding Agency Guidelines National Science Foundation

Creating a Data Management Plan

In general, all research proposals for projects expected to generate significant digital data should include a detailed Data Management Plan (DMP). We suggest a general template that includes questions to address in your plan, however, many funding agencies and programs have specific guidelines on what information to include in your DMP that should take precedence.

- Funding Agency Guidelines:** Review your funder's requirements for data sharing.

Contact Us

[Lisa Johnston](#),
Research Services Librarian

[Meghan Lafferty](#),
Chemistry, Chemical Engineering and Material

VISIBILITY OF RESEARCH DATA

- Grant funding agencies
- Journal publishers
- Data repositories & registration agencies



National Science Foundation
WHERE DISCOVERIES BEGIN

ICPSR
A PARTNER IN
SOCIAL SCIENCE
RESEARCH

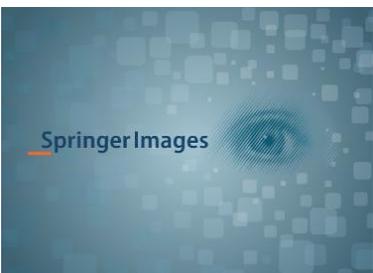
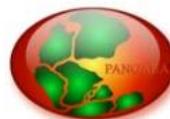
INTER-UNIVERSITY
CONSORTIUM FOR
POLITICAL AND
SOCIAL RESEARCH



gesis

PANGAEA®

Data Publisher for Earth & Environmental Science



OBSERVED RESEARCHER PROBLEMS

- Access & discovery
- Citation standards
- Lack of willingness to deposit and cite
- Lack of recognition / credit



WHERE DO WE START?

- Enable the discovery of data repositories, data studies and data sets in the context of traditional literature
- Help researchers find data sets and studies and track the full impact of their research output
- Provide expanded measurement of researcher and institutional research output and assessment
- Facilitate more accurate and comprehensive bibliometric analyses



REPOSITORY SELECTION & EVALUATION



REUTERS/ Moham Rizza

REPOSITORY EVALUATION, SELECTION, AND COVERAGE POLICIES

FOR THE DATA CITATION INDEX™ WITHIN THOMSON REUTERS WEB OF KNOWLEDGE™

As we evaluate repositories for inclusion, some of the things we consider are:

- Editorial Content - ensuring that material is desirable to the research community.
- Persistence and stability of the repository, with a steady flow of new information.
- Thoroughness and detail of descriptive information.
- Links from data to research literature.



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REPOSITORY EVALUATION

Data deposit

- Repository must hold data
- Repository must provide access to data

Active

- Material added/updated
- Provide statistics on deposited data
- Actively curate data in the archive

Persistent

- Persistent IDs, DOIs or other permanent ID
- Contacts available for confirmation of interpretation
- Indication of intention to preserve data or provide access over the long term
 - Contingency if repository was to cease to operate
- Make data accessible (or state licensing terms)
- Sustainable
 - Funding information available for repository and deposited data

Proof of reuse

- Links to literature
- Citation in literature databases



DATA REPOSITORIES

- Over 700 repositories identified



TYPES OF DATA BY DISCIPLINE

ART & HUMANITIES

CULTURAL
HERITAGE

LANGUAGE CORPUS

IMAGE
COLLECTIONS

RECORDINGS

SOCIAL SCIENCES

POLL DATA

ECONOMIC
STATISTICS

LONGITUDINAL DATA

NATIONAL CENSUS

PUBLIC OPINION
SURVEYS

SCIENCE & TECHNOLOGY

MAPS

ALGORITHMS

GENOMICS

SKY SURVEYS

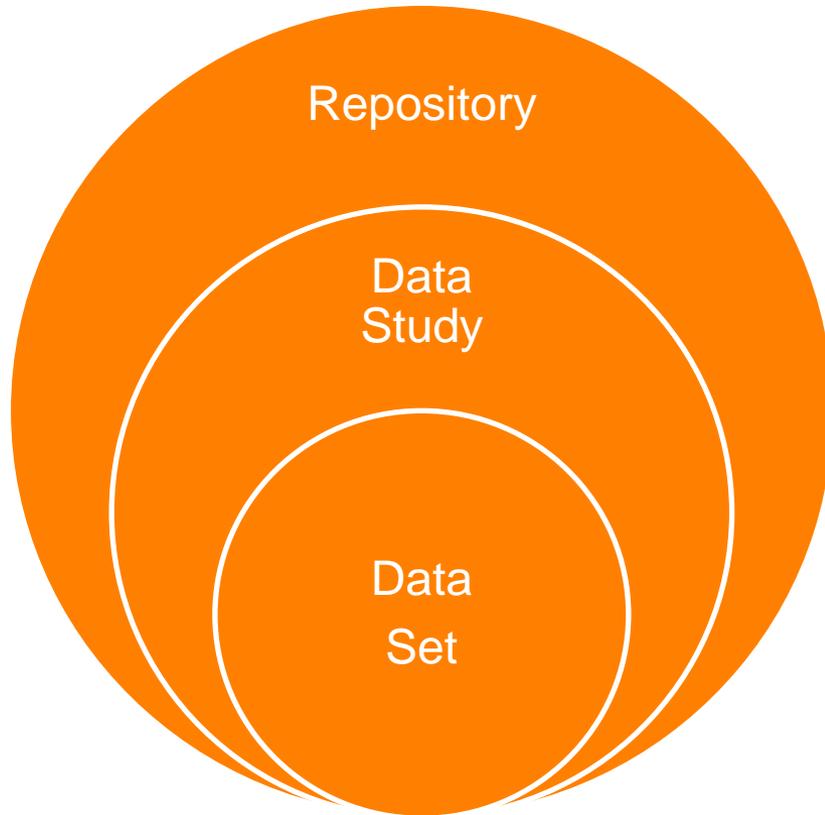
ASTROPHYSICS

REMOTE SENSING

MUSEUM SPECIMENS



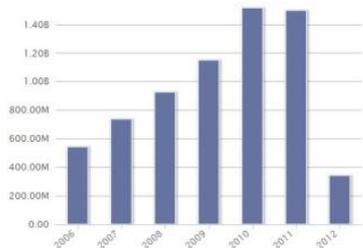
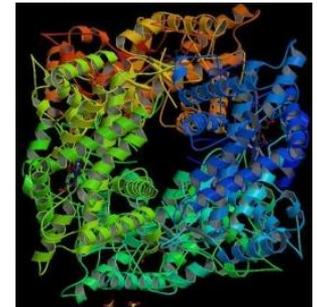
Data Citation Record Model



- **Repository:** Comprised of data studies, data sets
- **Data Study:** Descriptions of studies or experiments with associated data
- **Data Set:** A single or coherent set of data or a data file provided by the repository

CHALLENGES

- Metadata availability
 - Lack of repository resources
 - Lack of repository expertise
- Metadata quality
 - Metadata inconsistencies
- Desirable characteristics
 - English language for key metadata fields
 - Metadata curation and quality control
 - Required metadata fields present for citation
 - Data dictionary and schema available
 - Consistent metadata to allow mapping to DCI fields
 - Member of extended network
- Data repositories are not static
- Partnerships



```

:GAGCATTGTGCACAATCGTGCTTATAGCGGCCGGTGGCGCCGTC
:GTACTACGAAAGCTTTGGCGTCCCAGACGCCAGCTGGCTTACTG
:GAGGTGCCCTTCTTTAATAAGGCTATCGGGAGGCGCCCGAGGA
:ACCCGGTGCATCTACTCAGAGTCTTACCACCCTACAACCTCTG
:TTCCATCGGGCCAACTCCAACCCCGCTGTTGTCAGCAGCTCA
:GACAARTCTGGTAGCCATGGGCTTACAGTCTCCACAGGGAGGG
    
```

Partner	2007	2008	2009	2010	2011	Avg Ann growth
World	\$1,162,708.3	\$1,300,135.6	\$1,656,816.3	\$1,277,388.4	\$1,479,492.0	6.8
Europe and Eurasia	\$286,484.8	\$328,286.9	\$258,646.0	\$286,025.0	\$328,873.4	3.7
European Union	\$246,356.9	\$272,951.8	\$219,880.2	\$238,913.9	\$267,463.7	2.1
-Austria	\$3,172.0	\$2,649.3	\$2,538.5	\$2,427.0	\$3,888.6	-2.2
-Belgium	\$25,291.9	\$29,026.4	\$21,629.7	\$25,551.1	\$28,876.2	4.5
-Cypriot	\$169.0	\$217.4	\$160.8	\$134.3	\$27.1	-10.6
-Czech Republic	\$1,263.4	\$1,378.3	\$969.7	\$1,415.6	\$1,680.6	8.3
-Denmark	\$2,927.2	\$2,712.1	\$2,058.5	\$2,125.3	\$2,244.7	-5.8
-Estonia	\$242.3	\$225.6	\$183.2	\$188.0	\$311.0	10.2
-Finland	\$3,133.2	\$3,761.6	\$1,665.6	\$2,181.2	\$3,159.0	0.2
-France	\$27,407.1	\$29,186.9	\$26,523.3	\$27,010.1	\$27,844.2	0.4
-Germany	\$49,652.0	\$54,732.3	\$43,296.6	\$48,201.2	\$49,134.2	-0.3
-Greece	\$2,111.0	\$1,931.8	\$2,475.7	\$1,106.8	\$1,083.4	-12.2
-Hungary	\$1,291.7	\$1,431.2	\$1,231.7	\$1,290.2	\$1,473.2	3.3
-Ireland	\$9,010.7	\$8,652.9	\$7,516.4	\$7,272.0	\$7,607.7	-3.9
-Italy	\$14,141.3	\$15,478.6	\$12,232.6	\$14,191.4	\$15,991.2	3.3



DATA CITATION BEHAVIOUR

Current citation style (in full text of article)

III. Data Description

Our first data set is the Bureau of Justice Statistics "Murder Cases in 33 Large Urban Counties." This is a random sample of homicide cases drawn from prosecutors' files. The data set includes information on offender characteristics, victim characteristics and trial outcomes for 2800 murders. The 75 largest counties account for more than half of the murders in the U.S. each year. This data set brings together information on the crime, the offender, the victim, and the sentence. Such information cannot all be linked in other larger data sets such as the Uniform Crime Reporting (UCR) Data or the National Crime Victimization Survey (NCVS). Most crime

Desired/future citation style (as part of cited references)

U.S. Dept. of Justice, Bureau of Justice Statistics (1996): MURDER CASES IN 33 LARGE URBAN COUNTIES IN THE UNITED STATES, 1988. Version 1. Inter-university Consortium for Political and Social Research. <http://dx.doi.org/10.3886/ICPSR09907.v1>



Supplementary Material

Supplemental Data
[Click here to view.](#)

Acknowledgments

We thank Junghwa Seo, Lei Cho, and Jongmin Kim for technical assistance and Hyunjung Lim for consultation on image handling.

This work was supported, in whole or in part, by National Institutes of Health Grants AG5131 and AG18440. This work was also supported by the Disease Network Research Program (Grant 20090084180) from the National Research Foundation of Korea funded by the Ministry of Education, Science and Technology, Republic of Korea and by the Korea Science and Engineering Foundation funded by the Korea government (Grant 20090083737).

The microarray data reported in this paper have been deposited to the Gene Expression Omnibus (GEO) data base under accession number [GSE11574](#).

S The on-line version of this article (available at <http://www.jbc.org>) contains supplemental [Figs. S1-S8](#) and [Tables 1-4](#).

†A. Jang, H.-J. Lee, J.-E. Suk, J.-W. Jung, K.-P. Kim, and S.-J. Lee, submitted for publication.

Lee, Seung-Jae; Lee, He-Jin; Cho, Ji-Hoon; Rho, Sangchul; Hwang, Daehee (2008): GSE11574: The responses of astrocytes stimulated by extracellular a-synuclein. Gene Expression Omnibus. <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE11574>



Data Citation IndexSM

Search

Example: Crime Survey

in

*Example: Moreo A**

in



Example: Dryad OR UK Data Archive

in



[Add Another Field >>](#)

Search

Clear

Searches must be in English

Current Limits: (To save these permanently, [sign in](#) or [register](#).)

Timespan

All Years (updated 2012-06-19)

From 2011 to 2012 (default is all years)

Citation Databases

Science (DCI-S) --2011-present

Social Sciences & Humanities (DCI-SSH) --2011-present

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Adjust your results settings



Search Results within the Data Citation Index present all of the powerful Web of Knowledge options for exploring a body of information.

All Databases | Select a Database | Data Citation Index | Additional Resources

Search | Cited Reference Search | Advanced Search | Search History

Data Citation IndexSM

Results Topic=(child* health*)
Timespan=All Years. Databases=DCI-S, DCI-SSH.
Lemmatization=Off

Scientific WebPlusSM View Web Results >>

Results: 128 Page 1 of 13 Go Sort by: Year Published -- newest to oldest

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more options

- 1. Title: **School Well-being Profile 2010-2011: Personnel.**
Author(s): Konu, Anne
Source: Finnish Social Science Data Archive
Source URL: <http://www.fsd.uta.fi/english/data/catalogue/FSD2645> Version: 1.0
Document Type: Data study Times Cited: 0 (from All Databases)
[View abstract]
- 2. Title: **University Student Health Survey 2008.**
Author(s): Kunttu, Kristina; Huttunen, Teppo
Source: Finnish Social Science Data Archive
Source URL: <http://www.fsd.uta.fi/english/data/catalogue/FSD2608> Version: 1.0
Document Type: Data study Times Cited: 0 (from All Databases)
[View abstract]
- 3. Title: **Temporary Agency Work in Health Care 2006.**
Author(s): Palukka, Hannele; Tiilikka, Tiina
Source: Finnish Social Science Data Archive
Source URL: <http://www.fsd.uta.fi/english/data/catalogue/FSD2516> Version: 1.0
Document Type: Data study Times Cited: 0 (from All Databases)
[View abstract]
- 4. Title: **Health Promotion Barometer 2011: Citizens.**
Group Author(s): Finnish Centre for Health Promotion
Source: Finnish Social Science Data Archive
Source URL: <http://www.fsd.uta.fi/english/data/catalogue/FSD2640> Version: 1.0
Document Type: Data study Times Cited: 0 (from All Databases)
[View abstract]
- 5. Title: **Health Promotion Barometer 2010: Citizens.**
Group Author(s): Finnish Centre for Health Promotion
Source: Finnish Social Science Data Archive
Source URL: <http://www.fsd.uta.fi/english/data/catalogue/FSD2652> Version: 1.0
Document Type: Data study Times Cited: 0 (from All Databases)
[View abstract]
- 6. Title: **Health Promotion Barometer 2010: Municipalities.**
Group Author(s): Finnish Centre for Health Promotion
Source: Finnish Social Science Data Archive
Source URL: <http://www.fsd.uta.fi/english/data/catalogue/FSD2650> Version: 1.0
Document Type: Data study Times Cited: 0 (from All Databases)

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Search within results for [] Search

Web of Science Categories Refine

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more options / values...

Subject Areas Refine

Document Types Refine

- DATA STUDY (118)
- DATA SET (10)
more options / values...

Authors

Group Authors

Editors

Source Titles

Data Types Refine

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- SEMI STRUCTURED QUESTIONNAIRE (11)
- RNA (5)
- SURVEY DATA (5)
- EXPRESSION PROFILING BY ARRAY (3)
more options / values...

Years Published

Institutions Refine

- UNIVERSITY OF JYVASKYLA DEPARTMENT OF PSYCHOLOGY (12)
- UNIVERSITY OF TAMPERE TAMPERE SCHOOL OF PUBLIC HEALTH (7)
- INSTITUTE FOR TROPICAL MEDICINE (6)
- FINNISH FEDERATION FOR SOCIAL WELFARE AND HEALTH (5)
- NATIONAL RESEARCH AND DEVELOPMENT CENTRE FOR WELFARE AND HEALTH STAKES (4)

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UniProt Knowledgebase.

Editor(s): [Uniprot Consortium](#)

Source: UniProt Knowledgebase

Source URL: <http://www.uniprot.org/> (Viewed Date: 13 Dec 2011) **Published Year:** 2002

Cited References: 0

Abstract: The UniProt Knowledgebase (UniProtKB) is the central hub for the collection of functional information on proteins, with accurate, consistent and rich annotation. In addition to capturing the core data mandatory for each UniProtKB entry (mainly, the amino acid sequence, protein name or description, taxonomic data and citation information), as much annotation information as possible is added. This includes widely accepted biological ontologies, classifications and cross-references, and clear indications of the quality of annotation in the form of evidence attribution of experimental and computational data.



Document Type: [Repository](#)

Accession Number: DRCI:DATA2012001000682873

Language: English

Funding:



Funding Agency	Grant Number
National Institutes of Health	1U41HG006104-01
European Commission SLING	226073
NIH GO	2P41HG02273-07
Swiss Federal Office of Education and Science	
GEN2PHEN	200754
MICROME	222886-2
NIH	5R01GM080646-04
NIH	3R01GM080646-04S2
NIH	1G081 M010720-01

Funding information for the Repository is presented when available.

Times Cited: 11

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This article has been cited 11 times in Web of Knowledge.

Hinz, Ursula. [From protein sequences to 3D-structures and beyond: the example of the UniProt Knowledgebase.](#) CELLULAR AND MOLECULAR LIFE SCIENCES, APR 2010.

Lima, Tania. [HAMAP: a database of completely sequenced microbial proteome sets and manually curated microbial protein families in UniProtKB/Swiss-Prot.](#) NUCLEIC ACIDS RESEARCH, JAN 2009.

Suzek, Baris E. [UniRef: comprehensive and non-redundant UniProt reference clusters.](#) BIOINFORMATICS, MAY 15 2007.

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UniProt Knowledgebase.

Editor(s): [Uniprot Consortium](#)

Source: UniProt Knowledgebase

Source URL: <http://www.uniprot.org/>

Cited References: 0

Abstract: The UniProt Knowledgebase accurate, consistent and rich annotated amino acid sequence, protein name or possible is added. This includes widely of the quality of annotation in the form

Document Type: [Repository](#)

Accession Number: DRCI:DATA201

Language: English

Funding:

Funding Agency	
National Institutes of Health	
European Commission SLING	
NIH GO	
Swiss Federal Office of Education and Research	
GEN2PHEN	
MICROME	222886-2
NIH	5R01GM080646-04
NIH	3R01GM080646-04S2
NIH	1G081M010720-01

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Carleton College OPAC [Go](#)

From protein sequences to 3D-structures and beyond: the example of the UniProt Knowledgebase

Author(s): [Hinz, U \(Hinz, Ursula\)¹](#)

Group Author(s): [UniProt Consortium](#)

Source: CELLULAR AND MOLECULAR LIFE SCIENCES **Volume:** 67 **Issue:** 7 **Pages:** 1049-1064 **DOI:** 10.1007/s00018-009-0229-6 **Published:** APR 2010

Times Cited: 5 (from Web of Science)

Cited References: 106 [[view related records](#)] [Citation Map](#)

Abstract: With the dramatic increase in the volume of experimental results in every domain of life sciences, assembling pertinent data and combining information from different fields has become a challenge. Information is dispersed over numerous specialized databases and is presented in many different formats. Rapid access to experiment-based information about well-characterized proteins helps predict the function of uncharacterized proteins identified by large-scale sequencing. In this context, universal knowledgebases play essential roles in providing access to data from complementary types of experiments and serving as hubs with cross-references to many specialized databases. This review outlines how the value of experimental data is optimized by combining high-quality protein sequences with complementary experimental results, including information derived from protein 3D-structures, using as an example the UniProt knowledgebase (UniProtKB) and the tools and links provided on its website (<http://www.uniprot.org/>). It also evokes precautions that are necessary for successful predictions and extrapolations.

Accession Number: WOS:000275419800003

Document Type: Review

Language: English

Author Keywords: Data flood; Annotation; Swiss-Prot; Knowledgebase; UniProtKB; Proteomics; Structural genomics; Protein 3D-structure

KeyWords Plus: DEPENDENT K+ CHANNEL; X-RAY-STRUCTURE; STRUCTURAL GENOMICS; CRYSTAL-STRUCTURE; UNIPROT; SWISS-PROT; DISORDERED PROTEINS; INTERACTOME NETWORK; ATOMIC

Times Cited: 11

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Hinz, Ursula. *From protein sequences to 3D-structures and beyond: the example of the UniProt Knowledgebase.* CELLULAR AND MOLECULAR LIFE SCIENCES, APR 2010.

Lima, Tania. *HAMAP: a database of completely sequenced microbial proteome sets and manually curated microbial protein families in UniProtKB/Swiss-Prot.* NUCLEIC ACIDS RESEARCH, JAN 2009.

Suzek, Baris E. *UniRef: comprehensive and non-redundant UniProt reference clusters.* BIOINFORMATICS, MAY 15 2007.

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Dataset Abstract

NEW SEARCH

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Survey questionnaires and documentation are available for free download.
PDF file (3994kb)

DOWNLOAD DATASET

Datasets are available for this survey.

If you are a member with a personalized account, please Sign In, otherwise contact Data Services at 860.486.4440 or rcweb@ropercenter.uconn.edu.

Title: USIA Poll # 1957-XX10: War/Science/Foreign Policy [GMUSIA1957-XX10]

Survey Sponsor: United States Information Agency [USIA]

Survey Firm: DIVO-Institut für Wirtschaftsforschung, Sozialforschung und Angewandte Mathematik

Study Date: November, 1957

Sample: West German adults--21 years old and over

Sample Size: 813

Variables: 187

Abstract: Feelings toward various countries (4); USSR favorability (2); US favorability (2); feelings toward political leaders (4); atomic energy (1); West Germany aligning with east or west (1); side in US-Russia war (1); West German war involvement (1); America preventing war (1); Soviet Russia preventing war (1); US vs. USSR as stronger power (2); stronger scientifically developed country (3); stronger military power (2); stronger atomic power (1); ensuring security (1); NATO effectiveness (2); increasing military for modern weapons (2); American forces in West

Subject Area: Social Sciences - Other Topics

Associated Records: [View All]

USIA/DIVO Poll # USIA1957-XX10.	Data study	Link to External Source
USIA Poll # 1987-I87072: American Image.	Data study	Link to External Source
Harvard/Health Canada Poll # 2003-SARS: SARS.	Data study	Link to External Source
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GSE12195: Mutations of multiple genes deregulate the NF-kB pathway in diffuse large B cell lymphoma.

From Repository: Gene Expression Omnibus.

Author(s): Pasqualucci, Laura; Basso, Katia

Source: Gene Expression Omnibus **Source URL:** <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE12195> (Viewed Date: 12 Dec 2011)

Published Year: 2009

Cited References: 0

Abstract: Diffuse large B-cell lymphoma (DLBCL), the most common form of lymphoma in adulthood, comprise distinct subtypes including germinal center B cell-like (GCB) and activated B cell like (ABC) DLBCL. Gene expression of its most aggressive subtype, ABC-DLBCL, is associated with constitutive activation of the NF-kB transcription factor. In a fraction of cases, it remains unclear whether NF-kB activation in these tumors represents an intrinsic program or a pathogenetic event. Here we show that >50% of ABC-DLBCL and a smaller fraction of GCB-DLBCL carry somatic mutations including negative (TNFAIP3/A20) and positive (CARD11, TRAF2, TRAF5, MAP3K7/TAK1 and TNFRSF11A/RANKL) A20 gene, which encodes for a ubiquitin-modifying enzyme involved in termination of NF-kB responses, in the majority of the patients displaying biallelic inactivation by mutations and/or deletions, suggesting a tumor suppressor role for TRAF2 and CARD11 produce molecules with significantly enhanced ability to activate NF-kB. Thus, our results suggest that DLBCL is caused by genetic lesions affecting multiple genes, whose loss or activation may promote lymphomagenesis through prolonged NF-kB responses. We show that most ABC-DLBCL and a smaller fraction of GCB-DLBCL display germline mutations in A20 representing the most frequently mutated gene.

Document Type: [Data study](#)

Data Type: Expression profiling by array

Accession Number: DRCI:DATA2012007000275875

Language: English

Author Keywords: Phenotypic characterization of human DLBCL

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Web of Science Category: Biochemistry & Molecular Biology; Genetics & Heredity

Subject Area: Biochemistry & Molecular Biology; Genetics & Heredity

Taxonomic Data:

SUPER TAXA	TAXA NOTES	Organism Classifier	Organism Name
Animalia, Chordata, Vertebrata, Mammalia, Primates	Animals, Chordates, Humans, Mammals, Primates, Vertebrates	Hominidae	Homo sapiens

Miscellaneous: Transcription; missense mutation; Gene Expression Profiling; phenotype; Tumor; B-Cell lymphoma; Germinal Center; genomics; Molecular Genetics

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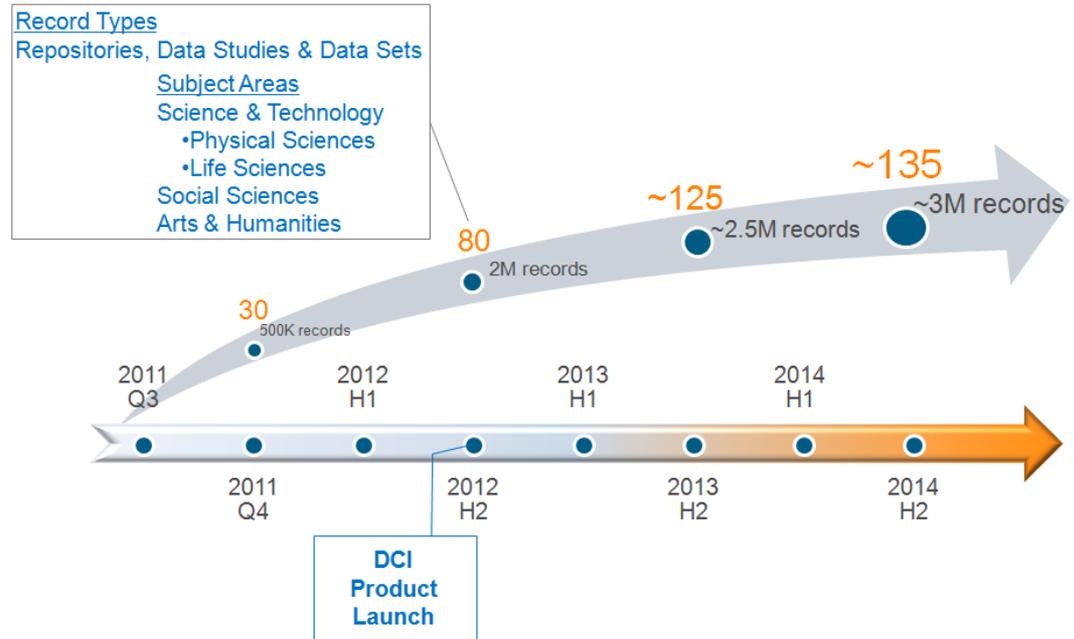
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Thank you

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