

第3回 SPARC Japan セミナー2013

「オープンアクセス時代の 研究成果のインパクトを再定義する： 再利用とAltmetricsの現在」

"Redefining the Impact of Research Outputs
in the Age of Open Access:
Current State of Reuse and Altmetrics"

はじめに

鹿児島大学附属図書館 西薊 由依



Expansion of Open Access

- 論文にとどまらない、様々な研究成果物のオープン化の進展
- 研究データのオープン化・再利用を促進する動き
- 研究の効率化や研究プロセスの透明性を高める

For Research Data Sharing

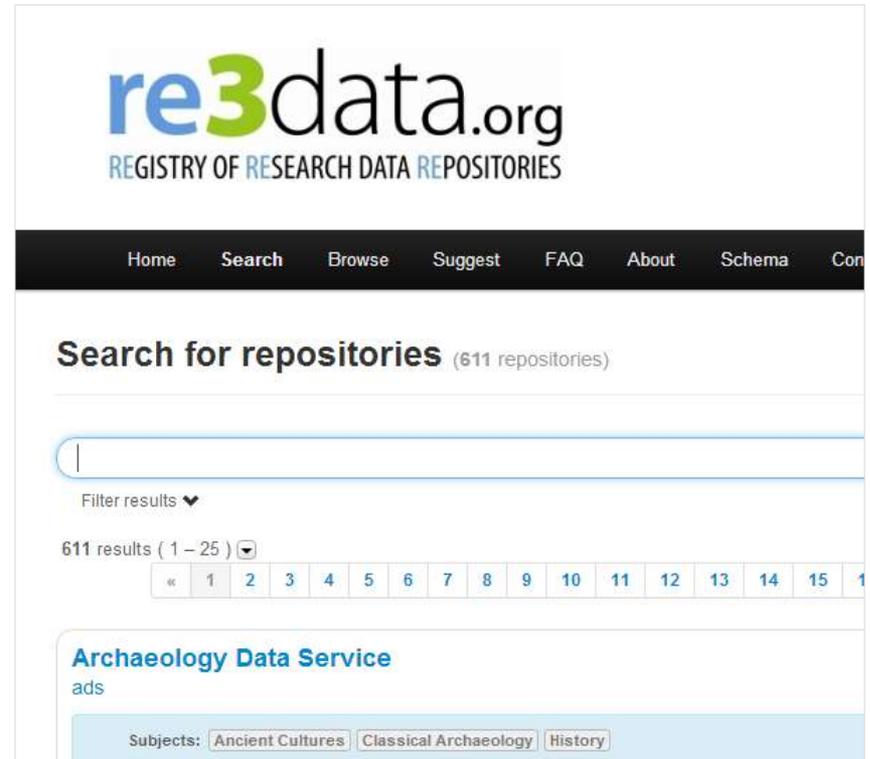
- 研究助成団体
例) NSF, NIH, BBSRC, Wellcome Trust
- 雑誌
論文投稿システムにデータリポジトリを組み込む例も
- 政策
12 JUN 2013 [G8 Science Ministers Statement](#)
- 国際的な推進団体
RDA (Research Data Alliance)
<https://rd-alliance.org/>

Data Repositories



The screenshot shows the Databib website. At the top left is a large stylized 'L' logo. To its right, the word 'Databib' is written in a large, serif font. Below it, the text 'Find Repositories | Submit | Connect | About' is displayed. The main content area is divided into several sections: 'Featured Repository' with a thumbnail of a WHOI Data Library entry; a search bar; a 'Browse' section with a list of letters (Subjects | A B C D E F G H I J K L M N O P Q R); a section for '3TU.Datacentrum' described as a multidisciplinary data repository; a section for 'Access to Archival Databases (AAD)' described as a database through the U.S. National Archives; 'ACEpepDB: Peptide Database' described as a database ran by the Central Food Technology; 'Addgene Plasmid Database' described as a non-profit organization; and 'Adult Blood Lead Epidemiology and Surveillance (ABLES)'. A 'Recently Added' section lists 'USGS National Water Information System (NWIS)' and 'CRYSTMET'. At the bottom, it states '603 data repositories total in Databib.'

<http://databib.org/>



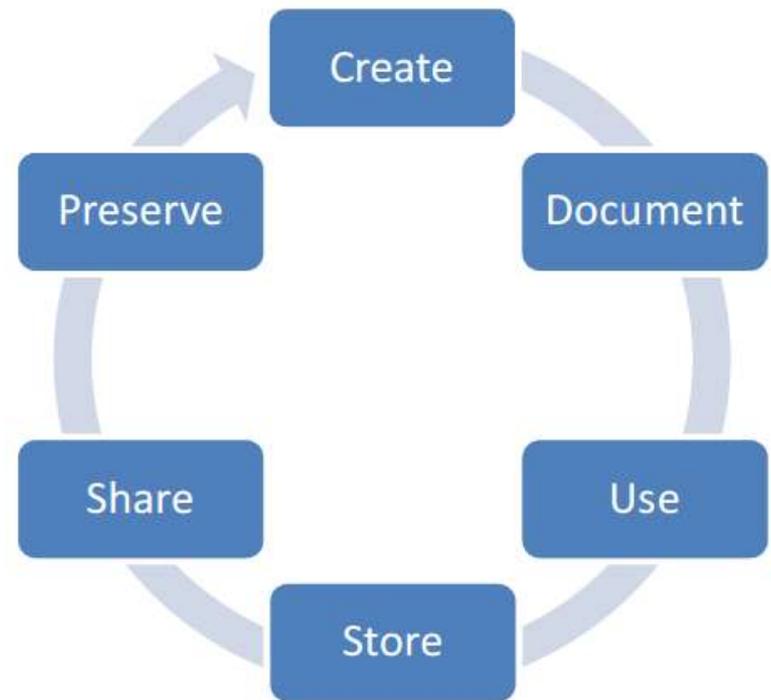
The screenshot shows the re3data.org website. At the top is the logo 're3data.org' in a green and blue font, with 'REGISTRY OF RESEARCH DATA REPOSITORIES' underneath. A navigation bar contains links for 'Home', 'Search', 'Browse', 'Suggest', 'FAQ', 'About', 'Schema', and 'Con'. The main heading is 'Search for repositories (611 repositories)'. Below this is a search input field, a 'Filter results' dropdown, and a pagination bar showing '611 results (1 - 25)' with page numbers 1 through 15. A section titled 'Archaeology Data Service ads' is visible, with subject tags for 'Ancient Cultures', 'Classical Archaeology', and 'History'.

<http://www.re3data.org/>



Research Data Management

- 大学(図書館)による新たな研究者支援
- 研究ワークフロー全体がスコープに～研究活動の積極的なパートナーに
- トレーニング、計画書作成のアドバイス、意識喚起、引用方法の説明、データリポジトリの運営等



RDM activities

http://www.dcc.ac.uk/webfm_send/1245

Evaluation of Research Data

SCIENTIFIC DATA

Home | About | For Authors | For Referees | Advisory and Editorial Board | Open Access | FAQ

Helping you publish, discover,
and reuse research data

 Credit Credit, through a citable publication, for depositing & sharing your data	 Reuse Complete, curated & standardized descriptions enable the reuse of your data	 Quality Rigorous community based peer review
 Discovery Find datasets relevant to your research	 Open Promotes & endorses open science principles & available to all through a Creative Commons license	 Service In-house curation, rapid peer review & publication of your data descriptions

<http://www.nature.com/scientificdata/>

Tracking the Impact

被引用数に代表される従来の指標だけでは、研究成果の影響力の測定に十分ではない

- 多種多様な研究成果
- スピード
- 情報行動の変化
- 一般の人々からの反応



Beyond Impact Factor



Article-Level Metrics

2009



サービス提供当初の
画面

(MARCH 2009)

<http://blogs.plos.org/everyone/2009/03/31/newly-launched-features-on-our-online-platform/> より

RESEARCH ARTICLE OPEN ACCESS

The Evolution of Mammalian Gene Families

Article | Related Content | Comments: 8

Related Articles ¹

Related Articles on the Web
[Google Scholar](#) [PubMed](#)

Cited in
[Scopus \(26\)](#) [PubMed Central \(11\)](#)
Search for citations on [Google Scholar](#).

Bookmarked in
[Connotea \(1\)](#) [CiteULike \(2\)](#)

Related Blog Posts ¹

[Postgenomic \(4\)](#)
Search for related blog posts on [Google Blogs](#)

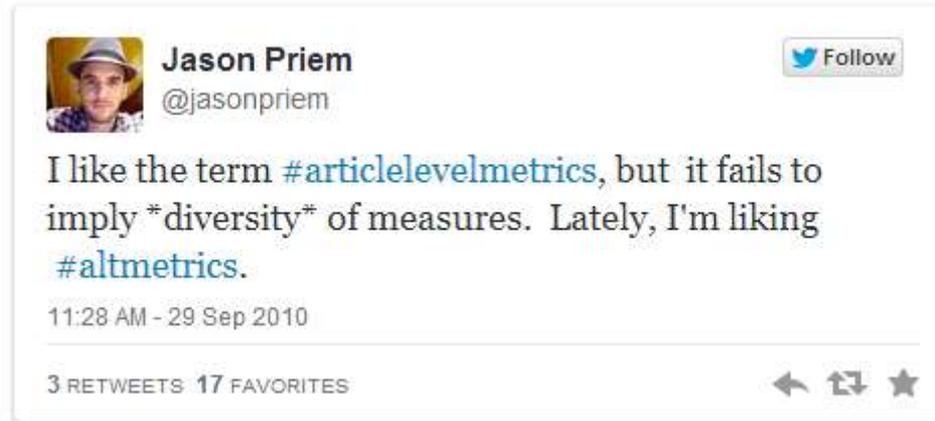
Trackbacks
To trackback this article use the following trackback URL:
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0000085/trackback>

The screenshot shows a PLOS ONE article page from March 2009. The article title is "The Evolution of Mammalian Gene Families". The page includes navigation tabs for "Article", "Related Content", and "Comments: 8". Below the article title, there are sections for "Related Articles", "Related Articles on the Web" (with links to Google Scholar and PubMed), "Cited in" (with links to Scopus and PubMed Central), "Bookmarked in" (with links to Connotea and CiteULike), "Related Blog Posts" (with a link to Postgenomic), and "Trackbacks" (with a trackback URL). A red rounded rectangle highlights the "Bookmarked in" and "Related Blog Posts" sections.



altmetrics

29 SEP 2010



26 OCT 2010

altmetrics: a manifesto

NO ONE CAN READ EVERYTHING. We rely on a narrow range of literature, but the narrow, traditional growth of new, online scholarly tools : altmetrics reflect the broad, rapid impact of scholarship in the ecosystem. We call for more tools and research based on alternative

As the volume of academic literature explodes, scholars rely on the most relevant and significant sources from the rest. Info

Jason Priem, University of North Carolina-Chapel Hill (@jasonpriem)
Dario Taraborelli, Wikimedia Foundation (@readermeter)
Paul Groth, VU University Amsterdam (@pgroth)
Cameron Neylon, Science and Technology Facilities Council (@cameronneylon)

<http://altmetrics.org/manifesto/>



altmetrics = alternative metrics

- 論文のほか、データセット、コードなど様々な研究成果物のインパクトを、ソーシャルメディアの反応を中心に、ほぼリアルタイムに定量的に測定する概念及びその手法
- URL, DOI, PMID, handleなどで参照数を計測



<http://altmetrics.org/manifesto/>

The four major altmetrics providers



ImpactStory.



altmetrics 実装例

雑誌



機関リポジトリ



Potential advantages of altmetrics

- 研究成果のインパクトを多面的に測定できる
- 多様な研究成果のインパクトを測定できる
- 専門家に限らない多様な受容者へのインパクトを測定できる
- スピード
- フィルタリングの機能
- 数値だけでなく文脈で理解できる



4 OCT 2013 / 5 OCT 2013

Article Views

- Summary
- Full Text
- Full Text (PDF)
- Data and Documents
- Podcast Interview

Article Tools

- Leave a comment (87)
- Save to My Folders
- Download Citation
- Alert Me When Article is Cited
- Post to CiteULike
- E-mail This Page
- Rights & Permissions

Science 4 October 2013:
Vol. 342 no. 6154 pp. 60-65
DOI: 10.1126/science.342.6154.60

NEWS

Who's Afraid of Peer Review?

John Bohannon

A spoof paper concocted by *Science* reveals

On 4 July, good news arrived in the inbox of Occoquan biologist at the Wasse Institute of Medicine in an official letter of acceptance for a paper he had submitted earlier to the *Journal of Natural Pharmaceuticals* about the anticancer properties of a chemical that Cobang lichen.

In fact, it should have been promptly rejected. As much as a high-school knowledge of chemistry and an ability to understand a basic data plot should have spotted the spoof, it came immediately. Its experiments are so bad



Altmetric tracks the buzz around scholarly articles and provides statistics for the article below and shows a subset of tweets that mention the article.



1801

Score in context

Puts article in the top 5% of all articles ranked by attention

show more...

Mentioned by

- 1778 tweeters
- 292 Facebook users
- 10 news outlets
- 29 science blogs
- 42 Google+ users
- 9 Redditors

Readers on

- 0 Mendeley
- 9 CiteULike

Who's Afraid of Peer Review?

Twitter Facebook News Blogs Google+ Reddit

So far Altmetric has seen 1,926 tweets from 1,778 accounts with

Victor Yoon @kkendd 1,160 followers
Who's Afraid of Peer Review? http://t.co/...

Lars Pettersson @larspett 89 followers
This 'sting operation' reveals nothing. Peer review is a bust system http://t.co/...

EJ Harvey @ehmtl 22 followers
This article shows even more details. http://t.co/ifFpp5rHvm

@SEAdventureCo
Wow, eye opening. http://t.co/Yx...

@vipwoody
Don't blindly trust everything science. http://t.co/NoakQF11Ww cc @v...

Challenges for the future

- 米国情報標準化機構 (NISO) による altmetrics の標準化の動き
- altmetrics がもたらす影響
- どのように活用するか
 - 指標の正しい理解が必要

Lineup of speakers

多様な研究成果
の共有と再利用

Mark Hahnel氏
(figshare)

図書館による
研究データ管理
支援
池内有為氏

機関リポジトリ
とAltmetrics
大園隼彦氏

生命科学分野に
おける大規模
データ再利用
坊農秀雅氏(DBCLS)

Altmetricsの
概要と展望
Jason Priem氏
(ImpactStory)