ORCID

Connecting Research and Researchers

Persistent Identifiers in Research Management: People, Places, and Things

Wolfram Data Summit, Washington DC, 5 September 2014

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ALERT: This presentation is all about **PLUMBING!**

… not a "sexy" topic but I am sure we can all agree that flushing toilets and running water are critical components of modern civilization

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What are persistent identifiers?

- Numeric or alpha-numeric **persistent** designations associated with (resolvable to) a single entity
- Entities can be an **organization**, **person**, or piece of **content (artifact)**

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PERSPECTIVE

Home Blood Pressure Monitoring: New Evidence for an Expanded Role

Mark Caulfield

Published: January 21, 2014 • DOI: 10.1371/journal.pmed.1001592

Toshihiro Tanaka

http://orcid.org/0000-0001-6201-9784

Other IDs:

Scopus Author ID: 55531687900

isni

ISNI: 0000 0000 9203 8970

Name: Saint Martin's Press (For Profit Corporation)
St. Martin's Press

Creation class: Language material

Creation role: originator

Ringgold

Product Details

Hardcover: 304 pages

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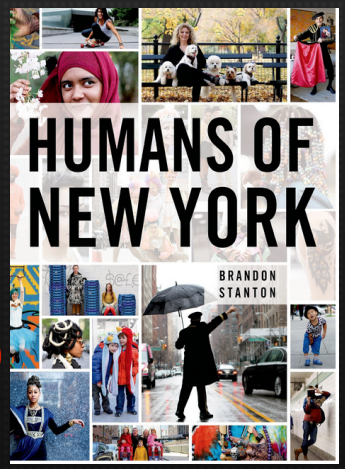
Language: English

ISBN-10: 1250038820

ISBN-13: 978-1250038821



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What do IDs do, exactly?

① Enable machine readability
② Disambiguate and enforce uniqueness
③ Enable linking and data integration

In other words,
persistent identifiers provide a
simple basis for digital data governance

Let's take one use case: **publishing research findings**

Simple, Right?

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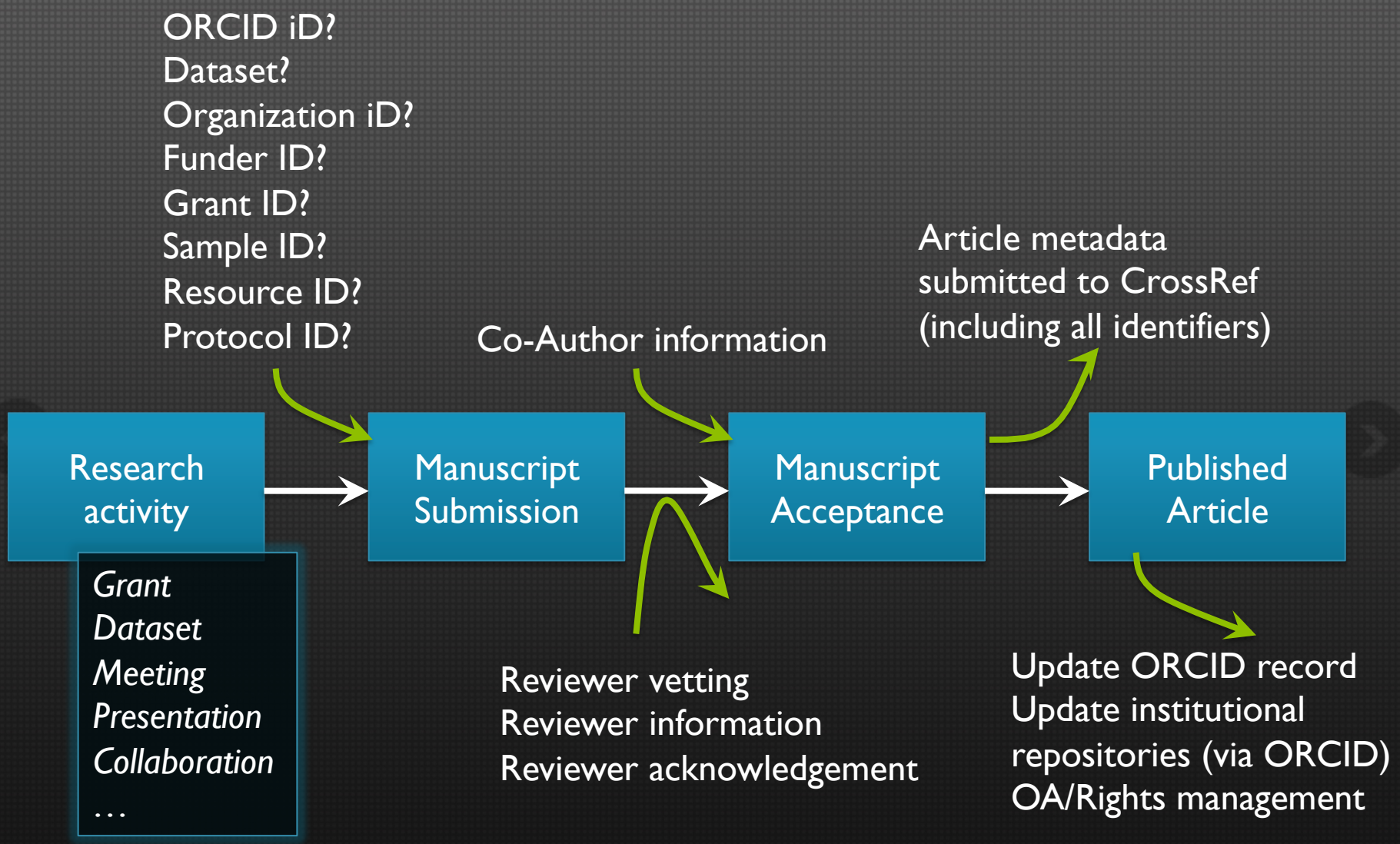
Where do identifiers fit in?



Similar issues of tracking (credit!) and trust (verify!) exist throughout the research ecosystem:

Datasets

Annotation

Collaboration

Metrics and Evaluation

Review Processes

Back to plumbing (standards):

- We agree it is desirable, even necessary
- We all love to graze at the local home improvement store

BUT

- It requires design
- It requires cooperation
- It requires work to implement

Standards take time and who has the patience for that??

So why do it?

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Name Ambiguity Is a Problem

Of the more than 6 million authors in a major journal citations and abstracts database, more than two-thirds of them share a last name and single initial with another author, and an ambiguous name in the same database refers on average to eight people.

http://ands.org.au/newsletters/share_issue18.pdf

Declan Fleming @declan 7h
YOU try googling for an old friend from 30 yrs ago named "Dave Jackson"… We need ORCID IDs for EVERYONE! ;)
Details

Julie Banfield @42jkb 2h
I've started my @ORCID_Org ID. My publications are in different names so this is a perfect solution. Well done and thanks!
Details

J. Å. S. Sørensen

J. Aa. S. Sørensen

J. Åge S. Sørensen

J. Aage S. Sørensen

J. Åge Smærup Sørensen

J. Aage Smaerup Sørensen

Sumit Gupta @drsumitgupta 41d
If you have a name that is not that uncommon like me and pubmed search returns with 10092 results - ORCiD is for you! #ORCiD #publications

@ **Julie van der Hoop** mentioned you

Julie van der Hoop @jvanderhoop 3h
Ok @carlystrasser, you convinced me: "get an @ORCID_Org if your last name is spelled weird." #dutchproblems

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ORCID is a registry and hub

ORCID provides a free, non-proprietary registry of persistent unique public identifiers for researchers

ORCID APIs enable exchange between research data systems to connect researchers, works, organizations, and other identifiers

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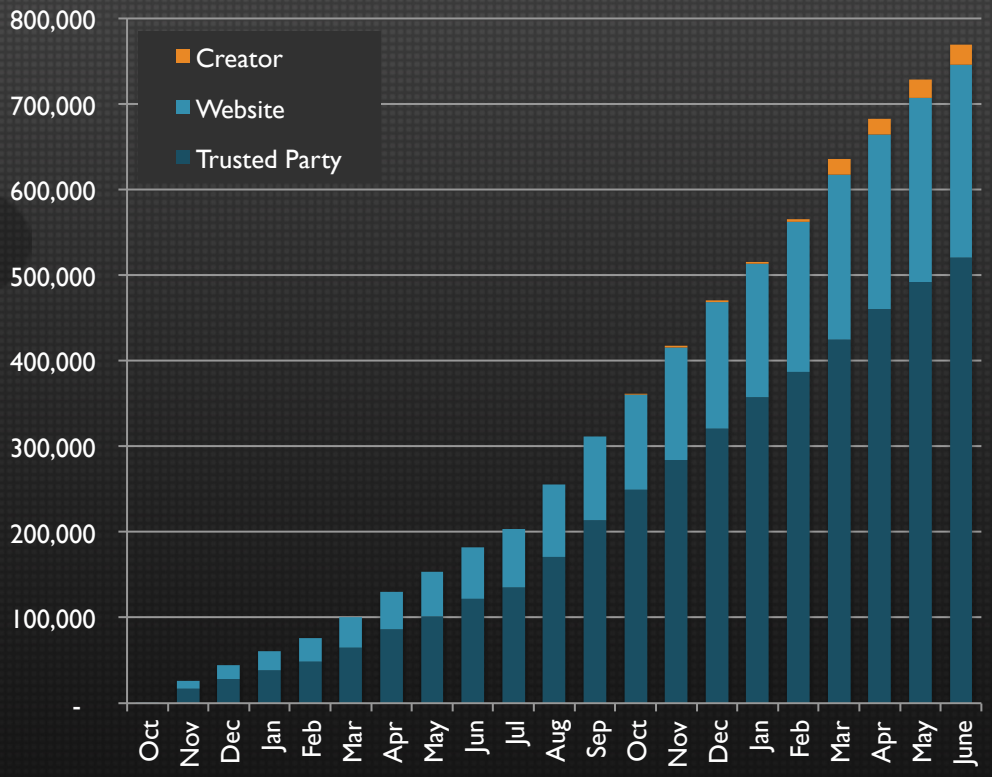
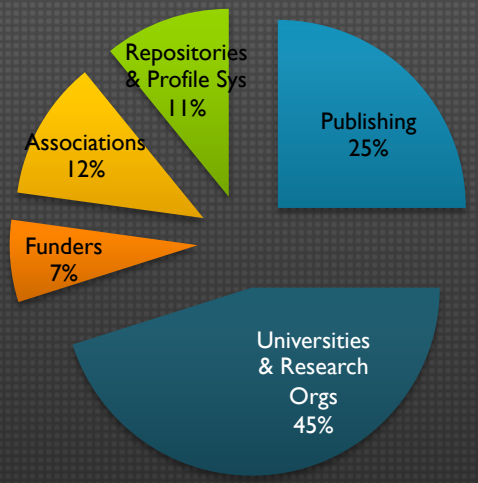
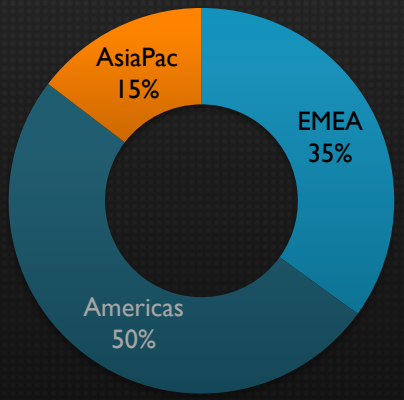
Adoption and Integration

ORCID has issued over 860,000 iDs since our launch in October 2012. Integration and use is international.





Over 140 members, from every sector of the international research community



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A rose by any other name...

In addition to person names, there are ambiguity issues with content (artifacts) and organizations, too.

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Wellcome Trust Open Access Study

"No naming authority was imposed on the file, so entities have a variety of names. For instance, the American Chemical Society is referred to in a number of ways — ACS, ACS Publications, American Chemical Society, and The American Chemical Society, among others. PLOS ONE is listed in a similar variety of ways, as are most of the publishers and journals with multiple entries…..By allowing authors to freestyle the name of the payee, we are creating a very loose data source for analysis."

http://scholarlykitchen.sspnet.org/2014/03/21/wellcome-money-in-this-example-of-open-access-funding-the-matthew-effect-dominates/

We cannot solve problems of data ambiguity alone. We must take a community approach.

Interoperability

Interoperability requires intentional collaboration

- **CASRAI**: ORCID metadata reflects the standard terms and record formats advanced in the CASRAI dictionary. In addition to a Research Personnel Profile specification CASRAI is also advancing additional person-related profiles (CVs, Funding Applications, Impact Reports, etc.) that can be associated with an ORCID identifier.
- **DataCite**: ORCID (through the ODIN Project) has implemented a search and link tool to associate data in DataCite with ORCID records; DataCite has updated their metadata standard to include ORCID for contributors.
- **euroCRIS**: ORCID metadata structure is consistent with EuroCRIS CERIF ontologies, and CERIF includ store an ORCID identifier.
- **Force11**: ORCID supports the Force11 Resource Identification initiative to create a data exchange stan identifiers for research resources.
- **Global Alliance for Genomics and Health**: ORCID supports the G ethical use, exchange, and citation of clinical and genomics data.
- **ISNI**: ORCID supports interoperability with ISNI, uses ISNI organi has implemented a search and link tool (through the ODIN Proje person identifier. Cooperation and dialog between the organizati
- **Research Data Alliance**: ORCID is participating as a member of th Persistent Identifier Interest Group, and on the Federated Identity

isni

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You are here: Home » News » Admin's blog / ORCID to begin using Ringgold as Registration Agency

ORCID to begin using Ringgold as Registration Agency

ORCID is to begin using Ringgold as Registration Agency for ISNI Institutional Identifiers to support the accurate and persistent identification of researcher institutional affiliations.

crossref & orcid

CrossRef is pleased to announce that it is participating in the recently launched Open Researcher and Contributor ID (ORCID Inc.) initiative to create an unambiguous identifier for scholarly and professional researchers.

Our members will be aware that CrossRef has been exploring the possibility of creating an "author DOI" or "contributor ID" system. In doing so, it has become clear that the issues and use-cases involved in identifying researchers span a broad collection of stakeholders including libraries, institutions, funders, publishers and, of course researchers themselves. In short, this is not primarily "a publisher problem." As such, we believe that the ORCID approach to creating an inclusive and open organization representing all the stakeholders in the scholarly communications process represents the best chance of creating a successful contributor identification system

For ten years the CrossRef DOI has allowed researchers, librarians and publishers to unambiguously identify published scholarly literature. We believe that the next step toward creating a robust and persistent scholarly record is to develop a similar mechanism for unambiguously crediting researchers for their scholarly contributions. We look forward to working with the ORCID members to make this happen.

casrai
Connecting Research

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ORCID & CASRAI Kick-off New Standards Project on 'Peer Review Services'

Further, we are pleased that CHORUS and SHARE have included ORCID identifiers as a key component of their systems to facilitate public access to research funded by US government research agencies. ORCID actively supports organizations that promote integration of ORCID iDs. Some ORCID Board members are independently involved in both projects in a variety of capacities. For more on ORCID integration into these systems, see the CHORUS and SHARE Websites.

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The Integrator's "To-Do" List

① **Integrate data fields** for persistent identifiers for people, places, and things into your systems

② **Collect** persistent identifiers during transactions (using authenticated login, not typing!) AND use APIs to help autofill forms

③ **Incorporate** identifiers into published metadata

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Who is Integrating and How?

- Publishers
- Research Funders
- Professional Associations
- Universities and Research Orgs
- Repositories, CRIS, Metrics Sites

For a list of organizations and integrations see
http://orcid.org/organizations/integrators

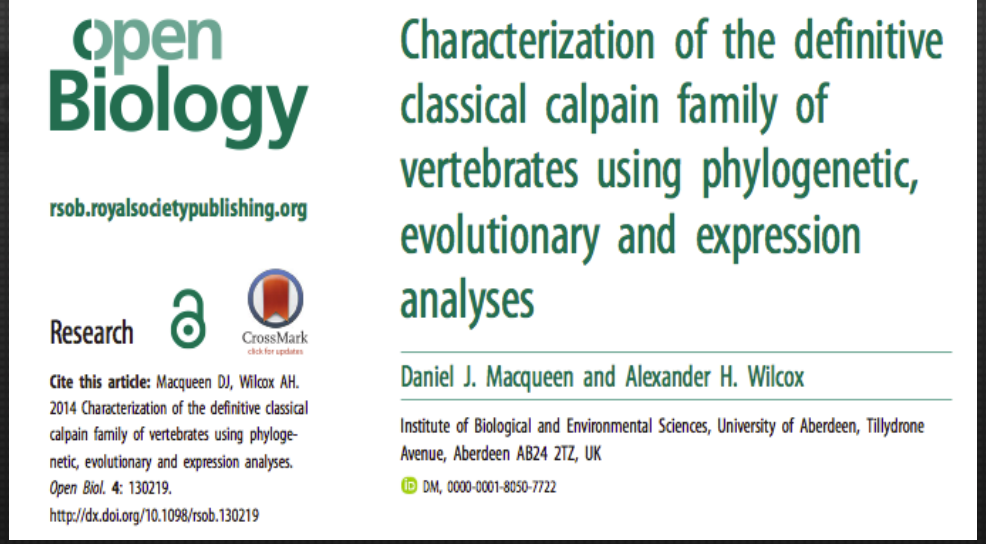
Publishing

R. Soc. Publishing
@RSocPublishing

Follow

Our first paper including an author's #ORCID @ORCID_Org has now been published in @OpenBiology bit.ly/OBorcid

09:24 AM - 15 Apr 14



open Biology

rsob.royalsocietypublishing.org

Research

Cite this article: Macqueen DJ, Wilcox AH. 2014 Characterization of the definitive classical calpain family of vertebrates using phylogenetic, evolutionary and expression analyses. *Open Biol.* **4**: 130219.
http://dx.doi.org/10.1098/rsob.130219

Characterization of the definitive classical calpain family of vertebrates using phylogenetic, evolutionary and expression analyses

Daniel J. Macqueen and Alexander H. Wilcox

Institute of Biological and Environmental Sciences, University of Aberdeen, Tillydrone Avenue, Aberdeen AB24 2TZ, UK

DM, 0000-0001-8050-7722

Retweeted by ORCID Organization
CrossRef @CrossRefNews · Jun 2
Good stuff! MT @mfenner 8-step program for publishers to integrate with @ORCID_Org - presentation from #sspboston ow.ly/xteXl
4 View summary

ORCID Organization @ORCID_Org · Jun 12
ORCID iDs display now on #Scopus #author profile page bit.ly/1i7daSO
13 4

Retweeted by ORCID Organization
Harriett Green @greenharr · Jun 28
Awesome news: the MLA IB will start including ORCIDs and will be the database for pulling humanities pubs for @ORCID_Org #alaac14
10 8

ORCID Organization @ORCID_Org · 20h
@DoctorZen Most publishers listed already asking authors for ORCID iD at time of submission. Round trip back to ORCID by end of 2014.
View conversation

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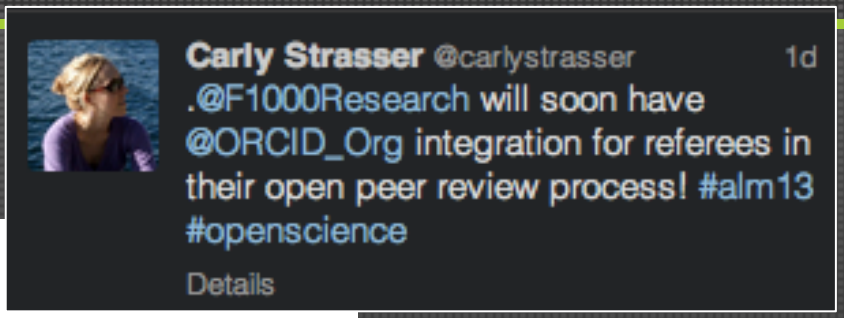
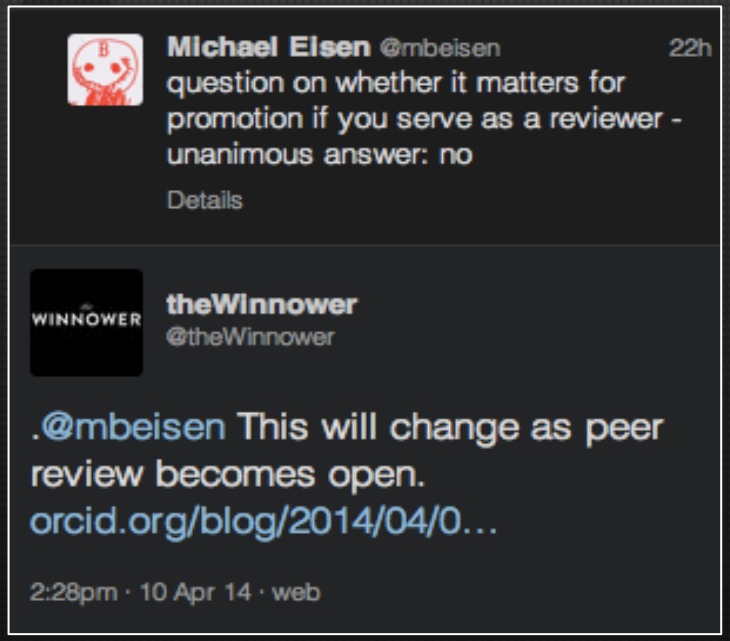
Acknowledge Reviewers

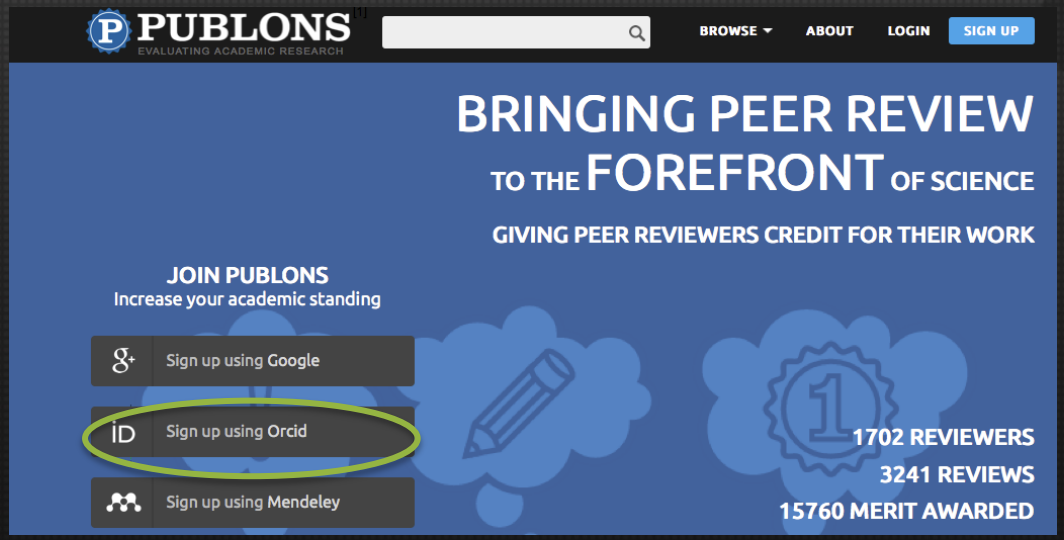


ORCID and CASRAI: Acknowledging Peer Review Activities

A number of publishers and funders have been integrating ORCID identifiers into their review workflows. They are now asking us how to post review activity information to ORCID records. We are pleased to announce a community collaboration, managed by CASRAI, to answer that question.

Read the rest of this post at http://orcid.org/blog/2014/04/08/orcid-and-casrai-acknowledging-peer-review-activities





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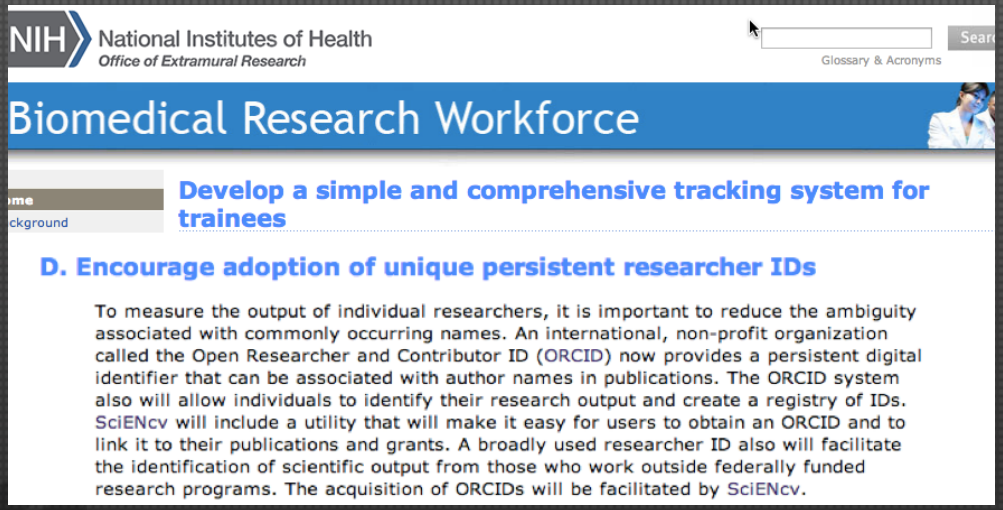
Funding Policy


NIH National Institutes of Health
Office of Extramural Research

Glossary & Acronyms

Biomedical Research Workforce

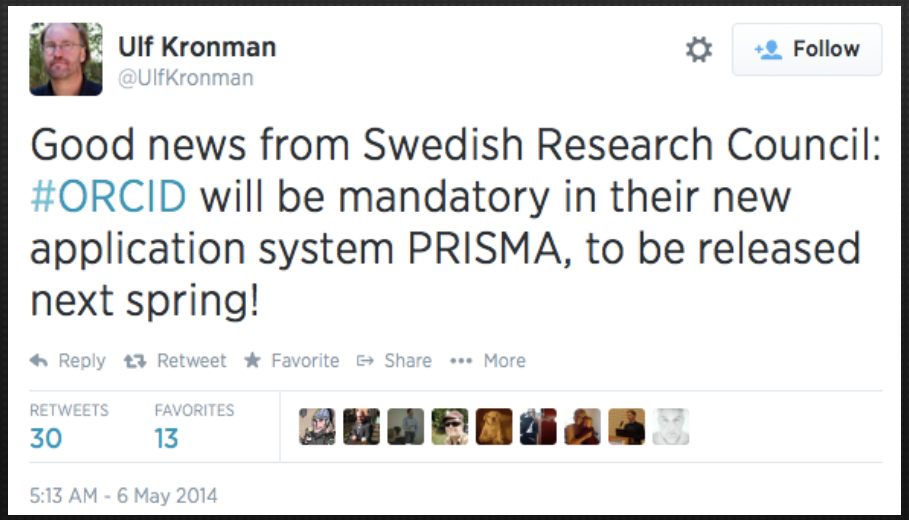
Develop a simple and comprehensive tracking system for trainees

D. Encourage adoption of unique persistent researcher IDs

To measure the output of individual researchers, it is important to reduce the ambiguity associated with commonly occurring names. An international, non-profit organization called the Open Researcher and Contributor ID (ORCID) now provides a persistent digital identifier that can be associated with author names in publications. The ORCID system also will allow individuals to identify their research output and create a registry of IDs. SciENcv will include a utility that will make it easy for users to obtain an ORCID and to link it to their publications and grants. A broadly used researcher ID also will facilitate the identification of scientific output from those who work outside federally funded research programs. The acquisition of ORCIDs will be facilitated by SciENcv.

http://biomedicalresearchworkforce.nih.gov/tracking-system.htm#d

"Where possible, it is also recommended that contributors be uniquely identifiable, and data uniquely attributable, through identifiers which are persistent, non-proprietary, open and interoperable (e.g. through leveraging existing sustainable initiatives such as ORCID for contributor identifiers and DataCite for data identifiers)."
European Commission H2020 Grantee Guidelines


Ulf Kronman
@UlfKronman
Follow

Good news from Swedish Research Council: #ORCID will be mandatory in their new application system PRISMA, to be released next spring!

Reply Retweet Favorite Share More

RETWEETS 30 FAVORITES 13

5:13 AM - 6 May 2014

Retweeted by ORCID Organization
Dolly Jørgensen @DollyJorgensen · Jun 10
@rbthisted I have an ORCid (even without a common name!). On ERC grant application form, they even had a spot to enter the number.
1 2 View conversation

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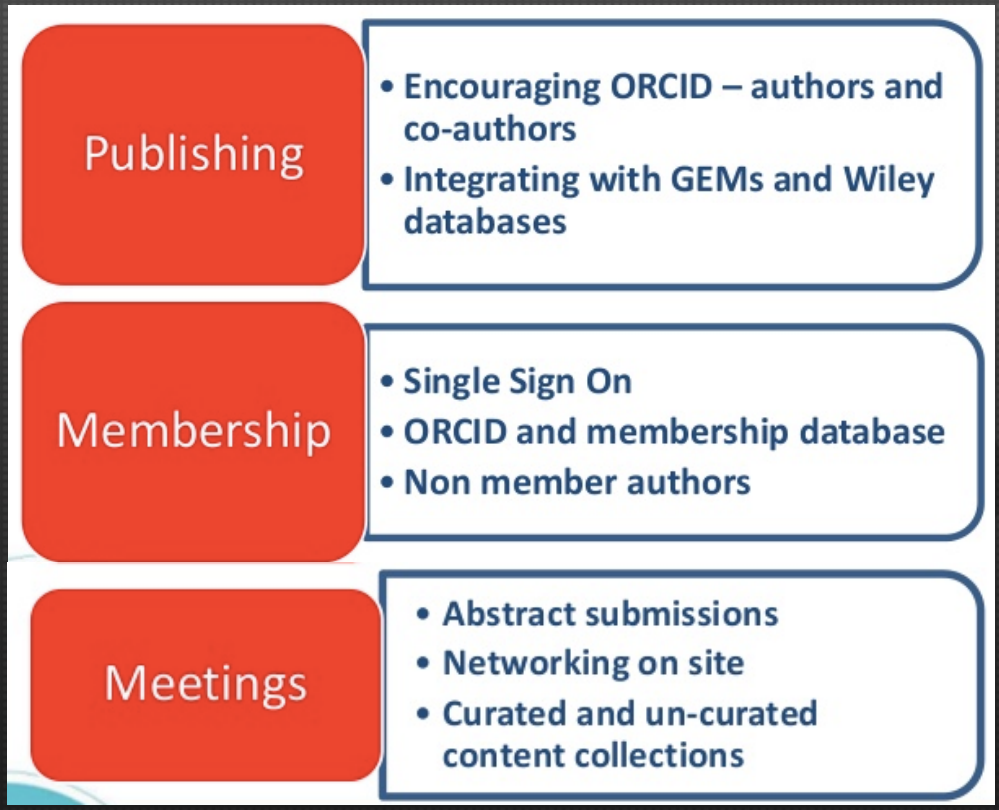
Professional Associations

"AGU is implementing ORCIDs in our member records, editorial databases, and papers. Having the ability to uniquely identify scientists helps the society, editors, authors, and members in many ways, from improving efficiency to providing services and support."

Brooks Hanson, Director of Publications, American Geophysical Union
http://orcid.org/0000-0001-6230-7145



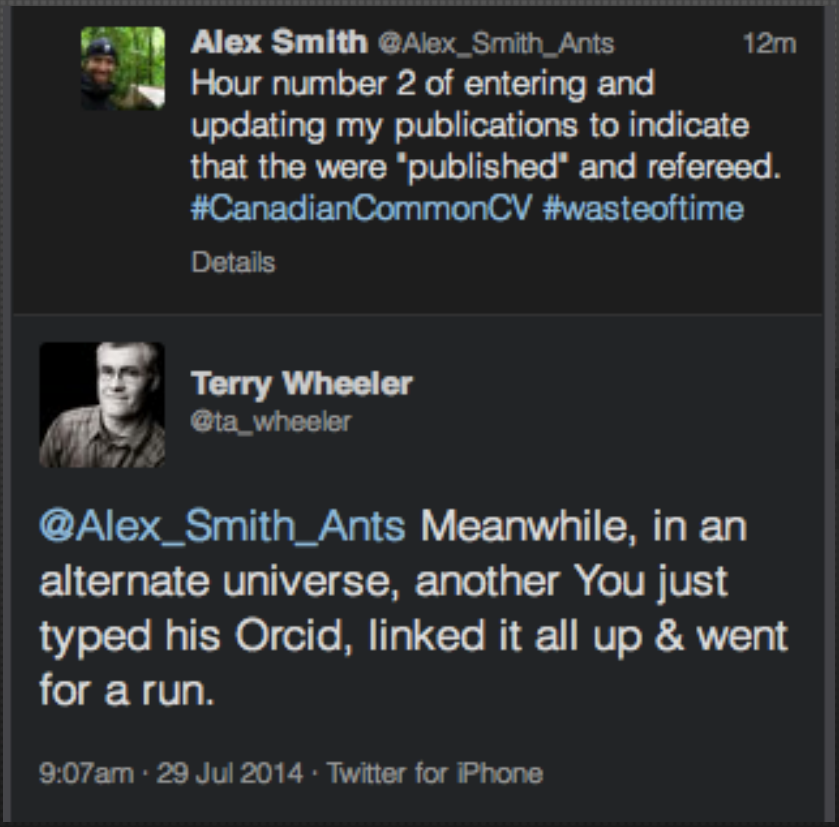
http://www.slideshare.net/ORCIDSlides/20131029-mcentee

Universities

"We want to use ORCIDs to simplify the life of Oxford's researchers for working with institutional systems and publishers' systems by re-using already available information for publication data management and reporting.

The motto is: Input once – re-use often."

Wolfram Horstmann, Assoc. Director, Bodleian Libraries, University of Oxford
http://orcid.org/0000-0001-8673-6104



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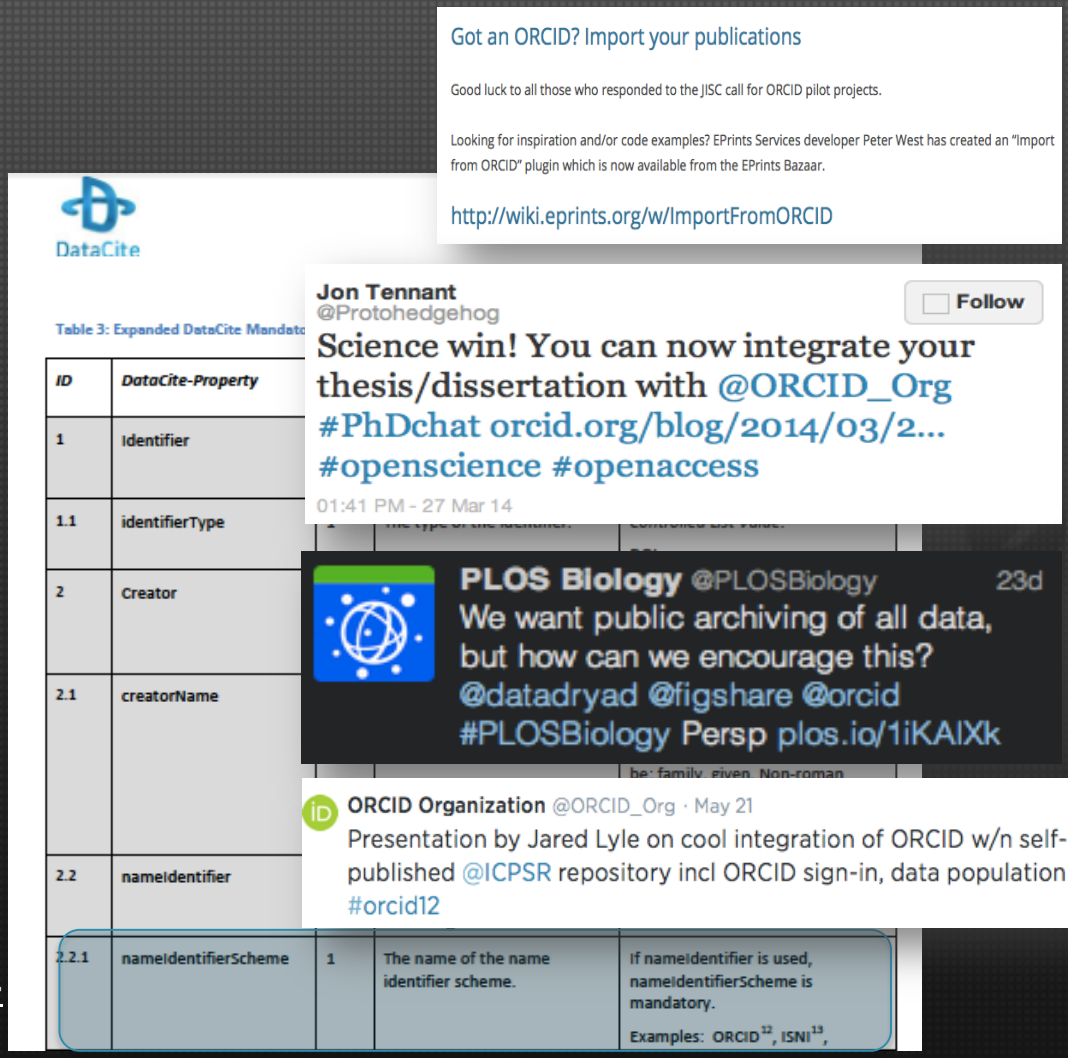
Repositories

- DataCite
- DSpace (UMissouri)
- ePrints (UBern)
- EThOS (British Library)
- HUBzero (U Notre Dame)
- Hydra/Fedora (Purdue)
- InSPIRE (CERN)
- Vireo (Texas A&M)
- Reactome

More at http://orcid.org/blog/2014/03/10/orcid-repositories-and-researchers



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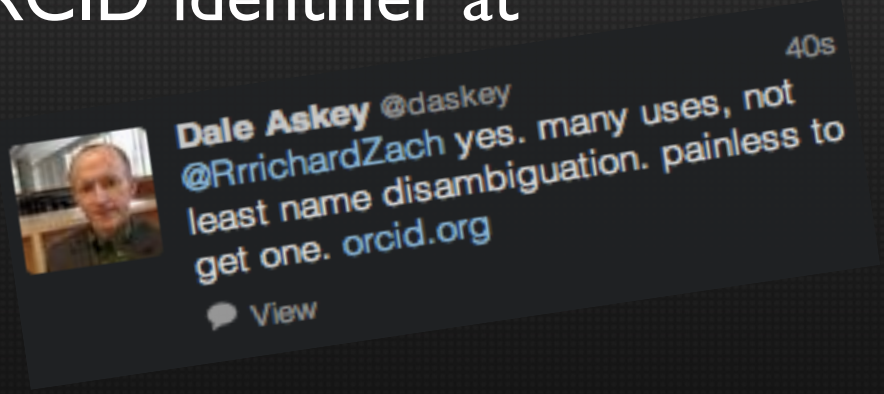
Thank you!

General information on ORCID:

http://orcid.org

- Technical documentation and code: http://support.orcid.org/knowledgebase
- Contact ORCID at support@orcid.org
- Register for your own ORCID identifier at http://orcid.org/register