ORCID

Connecting Research and Researchers

ORCID: Connecting Research & Researchers

23 April 2014
Federal Demonstration Partnership
Washington, DC

Contact Info: p. +1-301-922-9062 a. 10411 Motor City Drive, Suite 750, Bethesda, MD 20817 USA

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Connecting Research and Researchers

What is the problem?

The research community has lacked the ability to link researchers and scholars with their professional activities.

We have attempted to link activities & outcomes based on a person's name!

Impacts:

- Discoverability
- Acknowledgement & citation of contributions
- Author, grantee, and faculty record management
- Research reporting and impact assessment

Why so difficult?

Relying on author names is inadequate for identification

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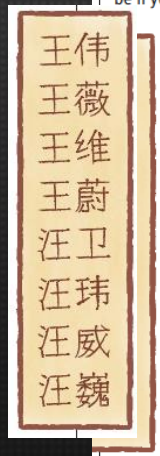
Common Names

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

"Estimates by China's Ministry of Public Security suggest that more than 1.1 billion people — around 85% of China's population — share just 129 surnames. Problems with abbreviations, ordering of given names and surnames and inconsistent journal practices heighten the confusion."

http://www.nature.com/news/2008/080213/full/451766a.html



One Wei or Another

Earning a name for yourself in science can be a struggle. Imagine how much harder it would be if your name was routinely confused with several others. That often happens to researchers with Asian names, many of which may share the same English transliteration.

To address the issue, the American Physical Society (APS) will let authors with Chinese, Japanese, or Korean names include the Asian spellings (in parentheses after the English equivalent) on papers in the society's journals, including *Physical Review Letters*. An editorial announcing the policy in December noted that at least eight different Chinese names (shown at left) are transcribed as Wei Wang. "I think this is a great way to show that science is an international matter," says Wei Wang (王为), a particle physicist at the University of Wisconsin, Madison. Adds Wei Wang (王薇), a biophysicist at the University of California, San Diego, "All the journals should do the same thing."

SCIENCE VOL 319 15 FEBRUARY 2008

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Multiple Names

An illustrative example: **Jens Åge Smærup Sørensen**

- J. Å. S. Sørensen
- J. Aa. S. Sørensen
- J. Å. S. Sorensen
- J. Aa. S. Sorensen
- J. Å. S. Soerensen
- J. Aa. S. Soerensen
- Jens Å. S. Sørensen
- Jens Aa. S. Sørensen
- Jens Å. S. Sorensen
- Jens Aa. S. Sorensen
- Jens Å. S. Soerensen
- Jens Aa. S. Soerensen
- J. Åge S. Sørensen
- J. Aage S. Sørensen
- J. Åge S. Sorensen
- J. Aage S. Sorensen
- J. Åge S. Soerensen
- J. Aage S. Soerensen
- Jens Åge S. Sørensen
- Jens Aage S. Sørensen
- Jens Åge S. Sorensen
- Jens Aage S. Sorensen
- Jens Åge S. Soerensen
- Jens Aage S. Soerensen
- J. Åge Smærup Sørensen
- J. Aage Smaerup Sørensen
- J. Åge Smarup Sorensen
- J. Aage Smarup Sorensen
- J. Åge Smaerup Soerensen
- J. Aage Smaerup Soerensen
- Jens Åge Smærup Sørensen
- Jens Aage Smaerup Sørensen
- Jens Åge Smarup Sorensen
- Jens Aage Smarup Sorensen
- Jens Åge Smærup Soerensen
- Jens Aage Smaerup Soerensen

And on and on it goes …

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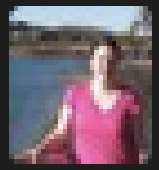
Name Changes



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

Why so difficult?

Contributions are also complex—more than journal articles

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Many different research outputs

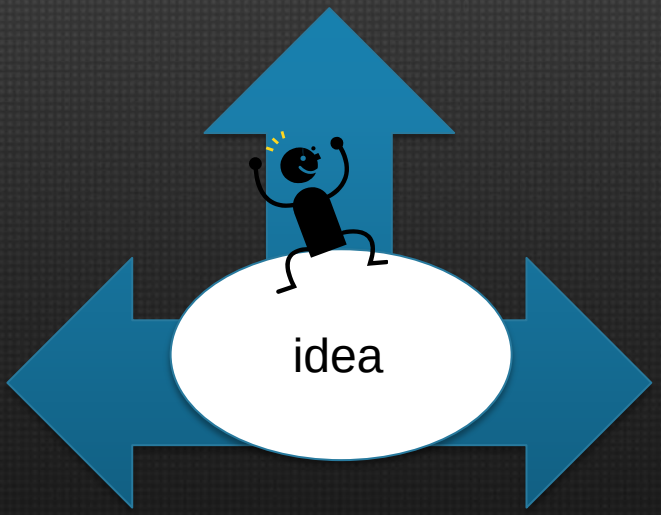
Funding
Grants
Contracts
Seed Funding
Coop Agreements

Publications
Journal Articles
Books
Patents
Legal Briefs
Algorithms
Software Code

Service Activities
Peer Review
Working Groups
Leadership Positions
Training and Mentoring

Affiliations
Employer
Professional Associations

People
Team
Collaborations
Trainees



Datasets
Physical Objects
Electronic Files
Protein Structures
Genetic Sequences

Impacts
Policy
Legal
Health
Environment
Education
Product Development
Spin Off
Workforce

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What is ORCID ?

The ORCID Organization

- Non-profit, non-proprietary, open, and community-driven
- Global, interdisciplinary
- Supported by the membership of organizations using the ORCID API
  - Funding organizations
  - Professional societies
  - Universities & research institutes
  - Publishers

The ORCID iD

- Unique, persistent identifier for researchers & scholars
- Free to researchers
- Can be used throughout one's career, across professional activities, disciplines, nations & languages
- Embedded into workflows & metadata
- API enables interoperability between siloed systems

http://orcid.org/0000-0002-2753-3881

vision

ORCID
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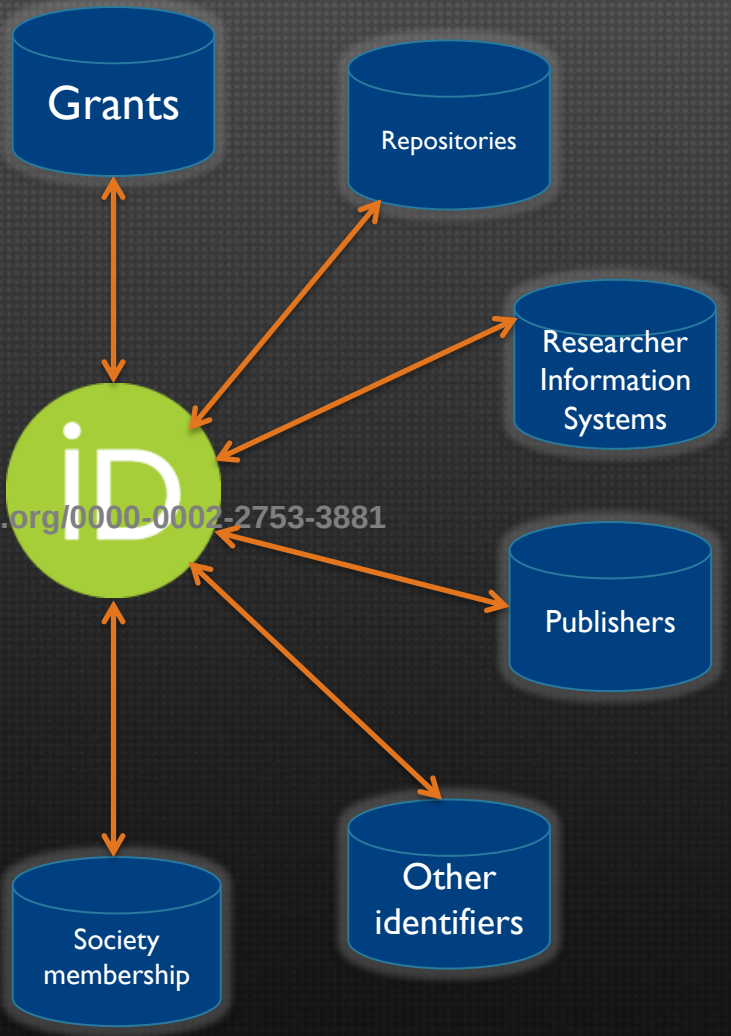
Facilitating interoperable exchange of information

The ORCID API enables the exchange of information between systems:

- Less time re-keying
- Improved data
- Easier maintenance
- Better sharing across systems



community

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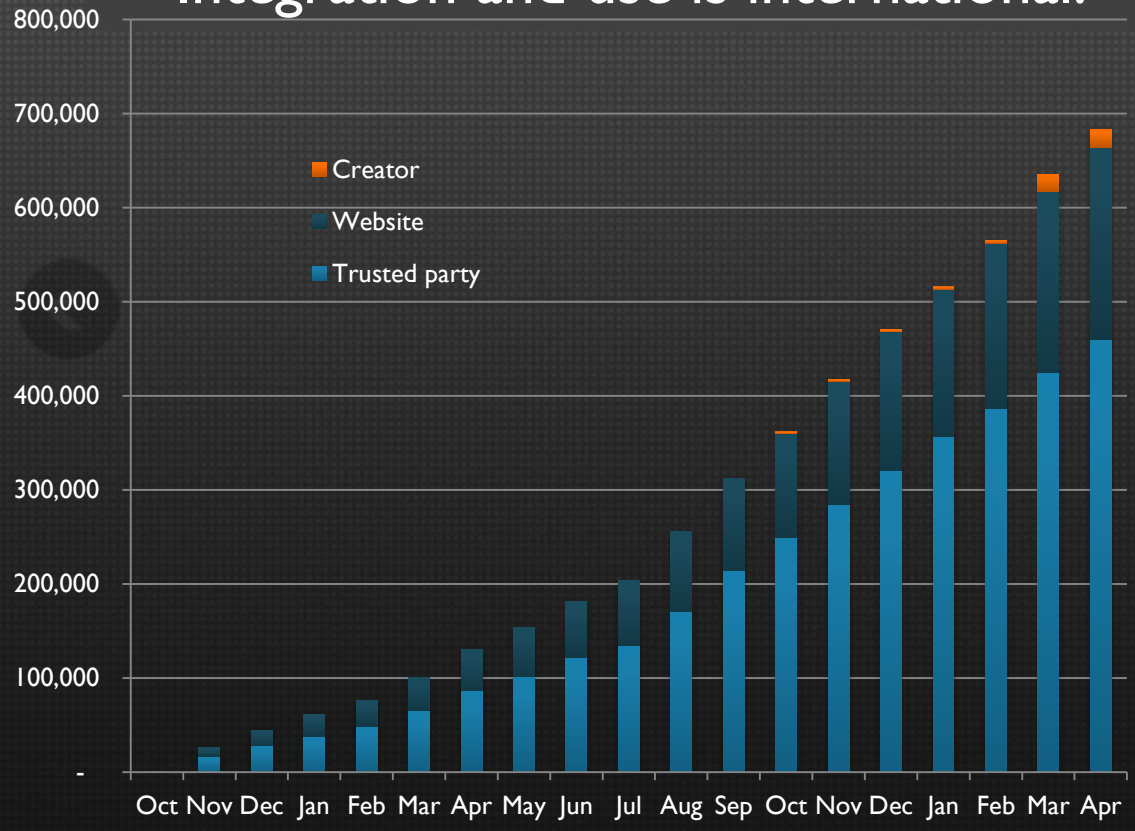
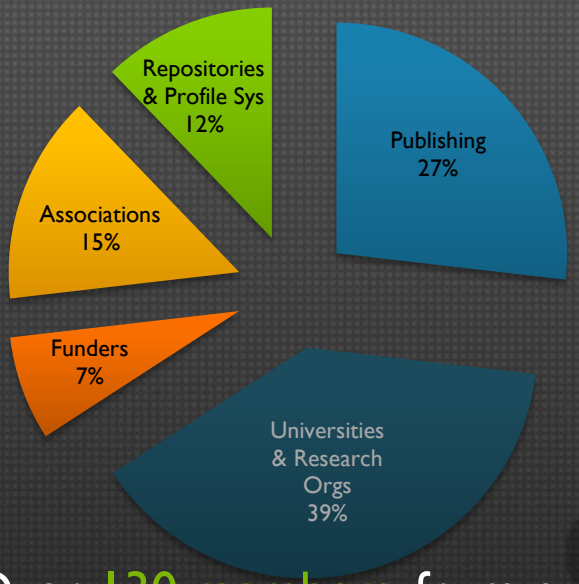
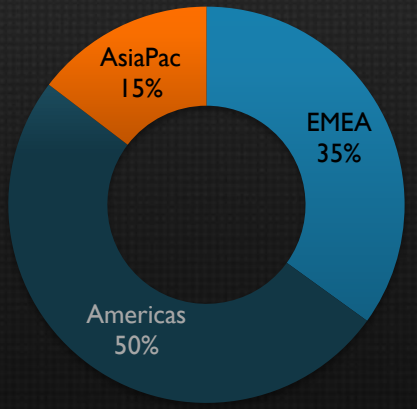
Adoption and Integration

ORCID has issued over 680,000 iDs since our launch in October 2012. Integration and use is international.





Over 130 members, from every sector of the international research community



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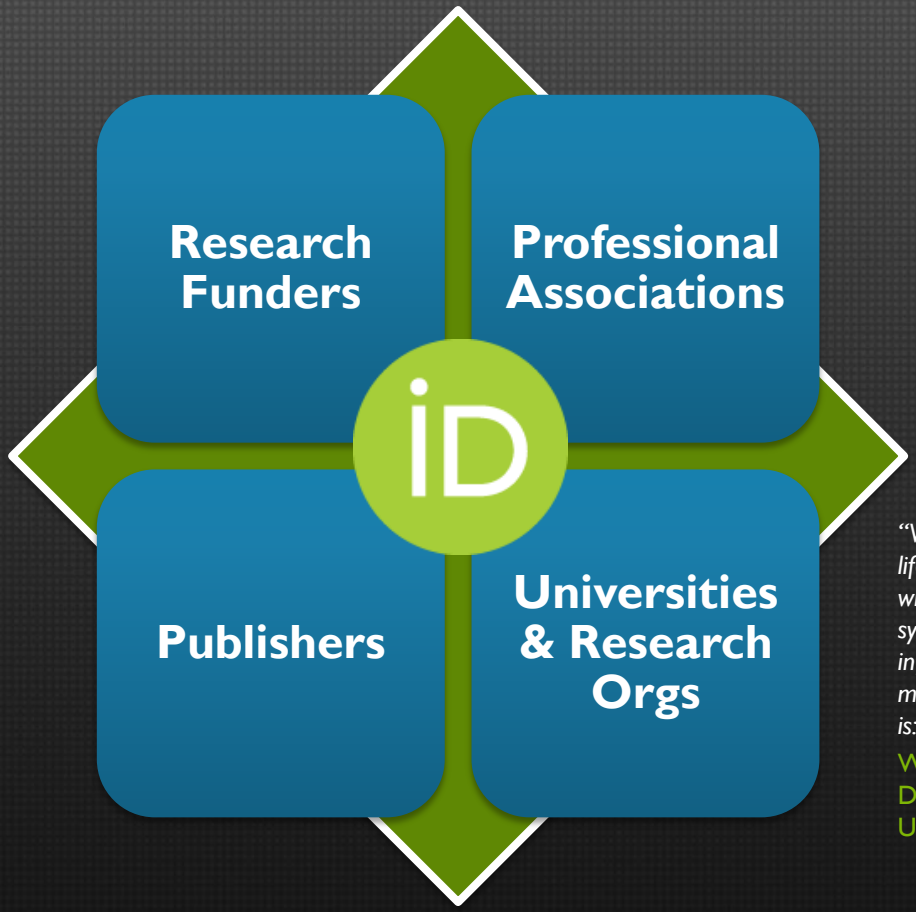
ORCID Members & Integrators

"Greater precision and transparency of the research outputs linked to a particular funder or grant is vital to help us better understand the impact of our funding."
Liz Allen, Head of Evaluation, Wellcome Trust

"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, Dir Publications, American Geophysical Union



"Not only does the ORCID system enable improved publishing processes, but publishers' participation also enables improved processes for partners such as funding agencies and universities."
Craig Van Dyck, VP, Global Content Management, Wiley

"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/organizations/integrators

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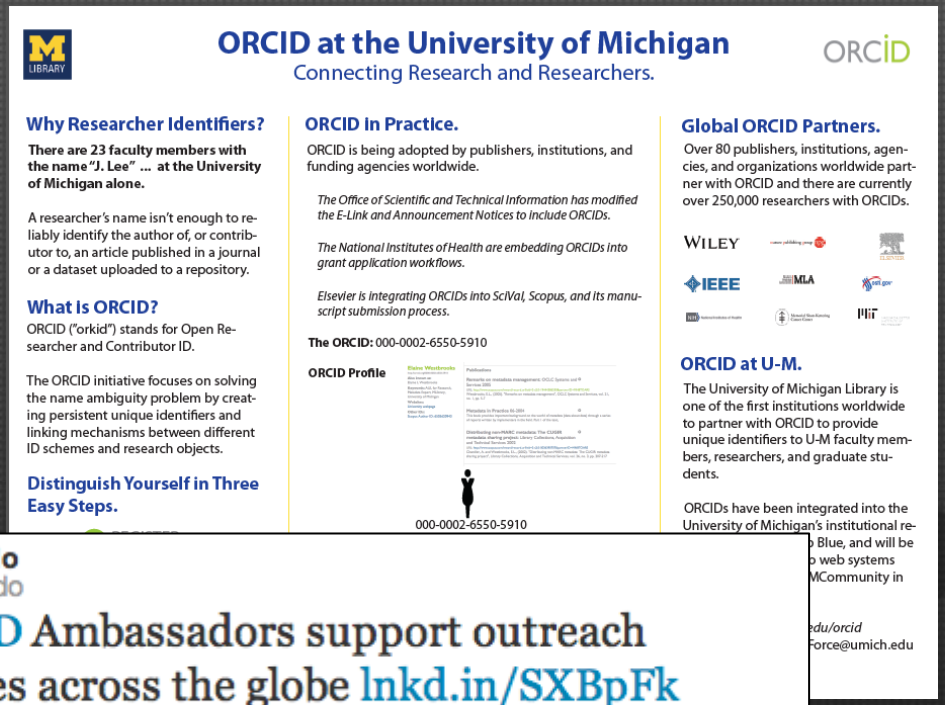
ORCID Ambassadors

- Volunteers who support ORCID outreach activities
- Researchers, faculty and administrators, librarians, and association and publishing professionals.
- More than 80 organizational and individual ORCID ambassadors from nearly 30 countries



ORCID at the University of Michigan
Connecting Research and Researchers.

ORCID

Why Researcher Identifiers?

There are 23 faculty members with the name "J. Lee" ... at the University of Michigan alone.

A researcher's name isn't enough to reliably identify the author of, or contributor to, an article published in a journal or a dataset uploaded to a repository.

What is ORCID?

ORCID ("orkid") stands for Open Researcher and Contributor ID.

The ORCID initiative focuses on solving the name ambiguity problem by creating persistent unique identifiers and linking mechanisms between different ID schemes and research objects.

Distinguish Yourself in Three Easy Steps.

ORCID In Practice.

ORCID is being adopted by publishers, institutions, and funding agencies worldwide.

The Office of Scientific and Technical Information has modified the E-Link and Announcement Notices to include ORCIDs.

The National Institutes of Health are embedding ORCIDs into grant application workflows.

Elsevier is integrating ORCIDs into SciVal, Scopus, and its manuscript submission process.

The ORCID: 000-0002-6550-5910

ORCID Profile

000-0002-6550-5910

Global ORCID Partners.

Over 80 publishers, institutions, agencies, and organizations worldwide partner with ORCID and there are currently over 250,000 researchers with ORCIDs.

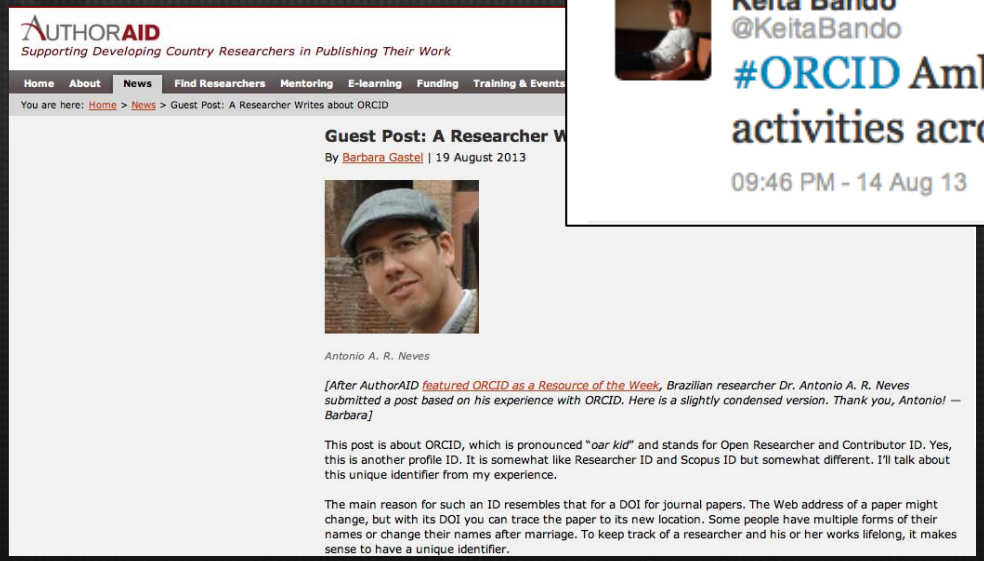
WILEY · IEEE · MLA

ORCID at U-M.

The University of Michigan Library is one of the first institutions worldwide to partner with ORCID to provide unique identifiers to U-M faculty members, researchers, and graduate students.

ORCIDs have been integrated into the University of Michigan's institutional re- Blue, and will be web systems MCommunity in

edu/orcid
Force@umich.edu



AUTHORAID
Supporting Developing Country Researchers in Publishing Their Work

Home · About · News · Find Researchers · Mentoring · E-learning · Funding · Training & Events

You are here: Home > News > Guest Post: A Researcher Writes about ORCID

Guest Post: A Researcher W

By Barbara Gastel | 19 August 2013

Antonio A. R. Neves

[After AuthorAID featured ORCID as a Resource of the Week, Brazilian researcher Dr. Antonio A. R. Neves submitted a post based on his experience with ORCID. Here is a slightly condensed version. Thank you, Antonio! — Barbara]

This post is about ORCID, which is pronounced "*oar kid*" and stands for Open Researcher and Contributor ID. Yes, this is another profile ID. It is somewhat like Researcher ID and Scopus ID but somewhat different. I'll talk about this unique identifier from my experience.

The main reason for such an ID resembles that for a DOI for journal papers. The Web address of a paper might change, but with its DOI you can trace the paper to its new location. Some people have multiple forms of their names or change their names after marriage. To keep track of a researcher and his or her works lifelong, it makes sense to have a unique identifier.

Keita Bando
@KeitaBando

#ORCID Ambassadors support outreach activities across the globe lnkd.in/SXBpFk

09:46 PM - 14 Aug 13

Burak Ozkosem
@buraktango

Great news: Link your #ORCID record to your funding!
orcid.org/blog/2014/02/1…
@ORCID_Org

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ORCID Ambassadors

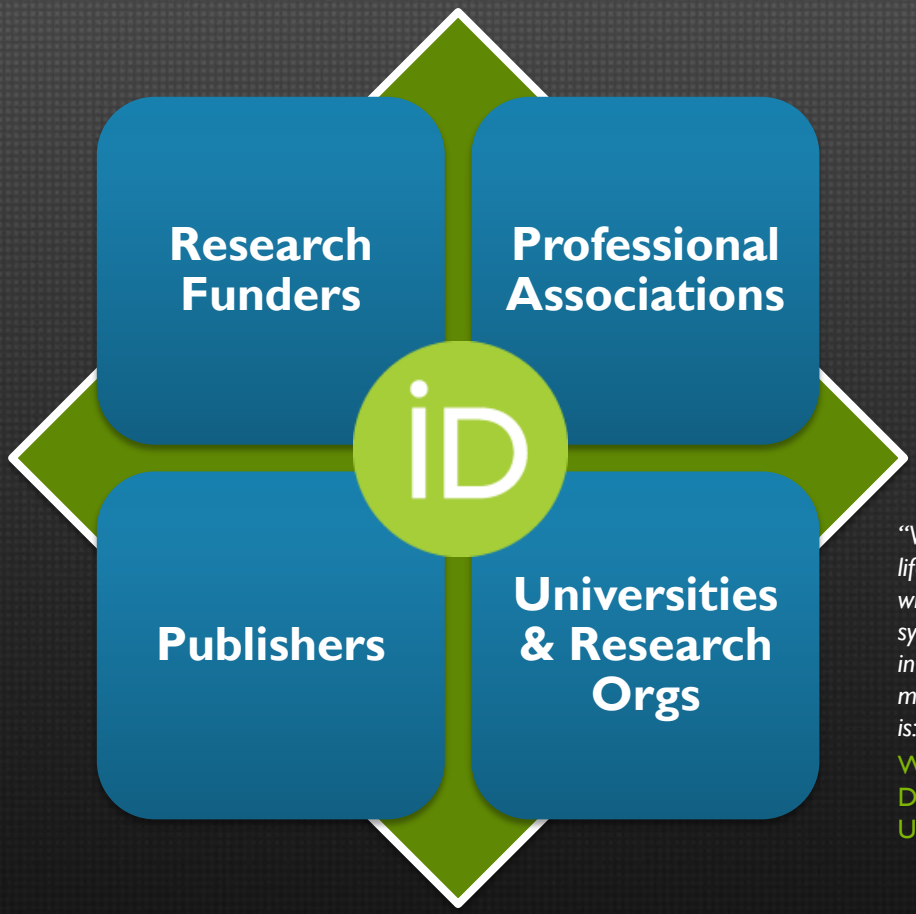
- Work within their own networks to share information about ORCID
- Organize & lead ORCID presentations & posters
- Write blog posts, tweet, & more
- Incorporate into scholarly communications training resources
- Prominently display their own ORCID iDs
- Support outreach at conferences
- Give feedback
- Provide leadership for organization or national membership & integration

leaders

ORCID Members & Integrators

"Greater precision and transparency of the research outputs linked to a particular funder or grant is vital to help us better understand the impact of our funding."
Liz Allen, Head of Evaluation, Wellcome Trust

"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, Dir Publications, American Geophysical Union



"Not only does the ORCID system enable improved publishing processes, but publishers' participation also enables improved processes for partners such as funding agencies and universities."
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http://orcid.org/organizations/integrators

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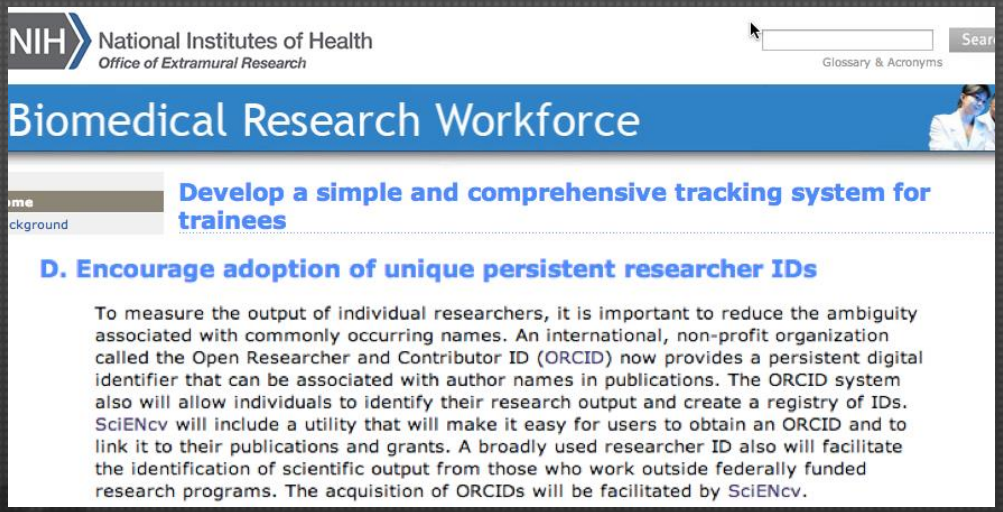
Funders


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

- Funding organizations are requesting ORCID iDs
- Funders have the potential to capture ORCID information to improve grant submission process for researchers

"Greater precision and transparency of the research outputs linked to a particular funder or grant is vital to help us better understand the impact of our funding."

Liz Allen, Head of Evaluation, Wellcome Trust
http://orcid.org/0000-0002-9298-3168

"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
http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

Leaders in the funding community

- NIH
- DOE, Office of Scientific & Technical Information (OSTI)
- FDA
- **Autism Speaks**

- Wellcome Trust
- National Institute for Health Research (NIHR) (UK)
- **Fundação para a Ciência e a Tecnologia (FCT) (Portugal)**
- Japan Science & Technology Agency (JST)
- National Institute of Informatics (NII), Japan
- **Swedish Research Foundation**
- Qatar National Research Fund (QNRF)

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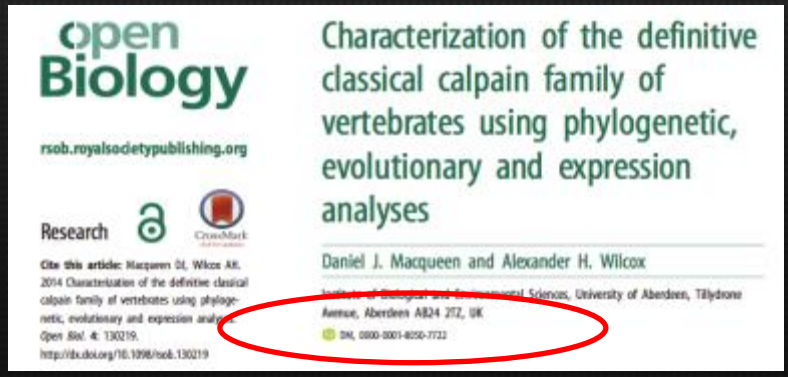
Publishers

Publishers are now requesting ORCID iDs in manuscript submission

Data then flows into search tools like PubMed, Scopus, and WOS

ORCID iD is a part of the metadata—in addition to the author's name

Works are discoverable—and distinguishable from others—by iD, not just name



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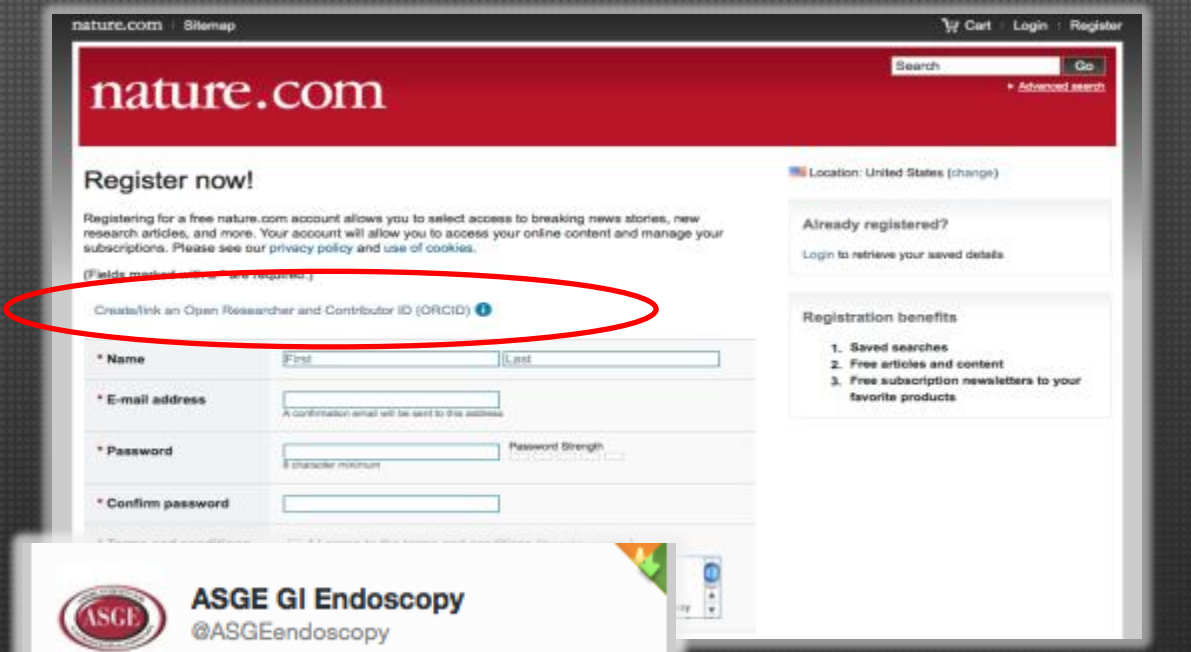
Leaders



More than 1000 journals now request the ORCID iD

Publishers include:

- AGU
- APS
- Elsevier
- Cambridge UP
- Nature
- Oxford UP
- PLOS
- PNAS
- Wiley

And many more. . . .

Recognizing reviewer service

- Acknowledge Peer Reviewers
- Link Authors, Reviewers, Members, and Meeting Participants

Blog | ORCID and CASRAI: Acknowledging Peer Review Activities *Tue Apr 08, 2014*

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 more >

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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

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How are Universities Integrating?

- **Researcher Information Systems**
- **Institutional Repositories**
- **Electronic Theses & Dissertations (ETDs)**
- **Campus directories (LDAP)**
- **Record creation for faculty and students**

For more on university integrators see http://orcid.org/organizations/researchorganizations

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Adoption & Integration Program

- Repositories
  - U Missouri/@mire—Dspace/Mospace
  - Notre Dame—Hydra Plug-in
  - Purdue—HUBzero
  - Reactome—integration into international biological pathways knowledge center
- Professional Societies
  - SfN—membership management
- Researcher Information Systems
  - Boston University—Profiles
  - Cornell—VIVO
- Multi-faceted integrations
  - Texas A&M—Vireo ETD workflow, record creation for grad students
  - U Colorado—FIS

http://orcid.org/content/adoption-and-integration-program

Program support provided by

ALFRED P. SLOAN FOUNDATION

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Early adopters & leaders

U.S. Institutions

- Boston
- Brown
- Caltech
- Carnegie Mellon
- Cornell
- Harvard
- MIT
- MSKCC
- Notre Dame
- NYU Langone Medical Center
- Penn State
- Purdue
- Stony Brook
- Texas A&M
- University of Colorado
- University of Kansas
- University of Michigan
- University of Missouri
- University of Washington
- University of Virginia

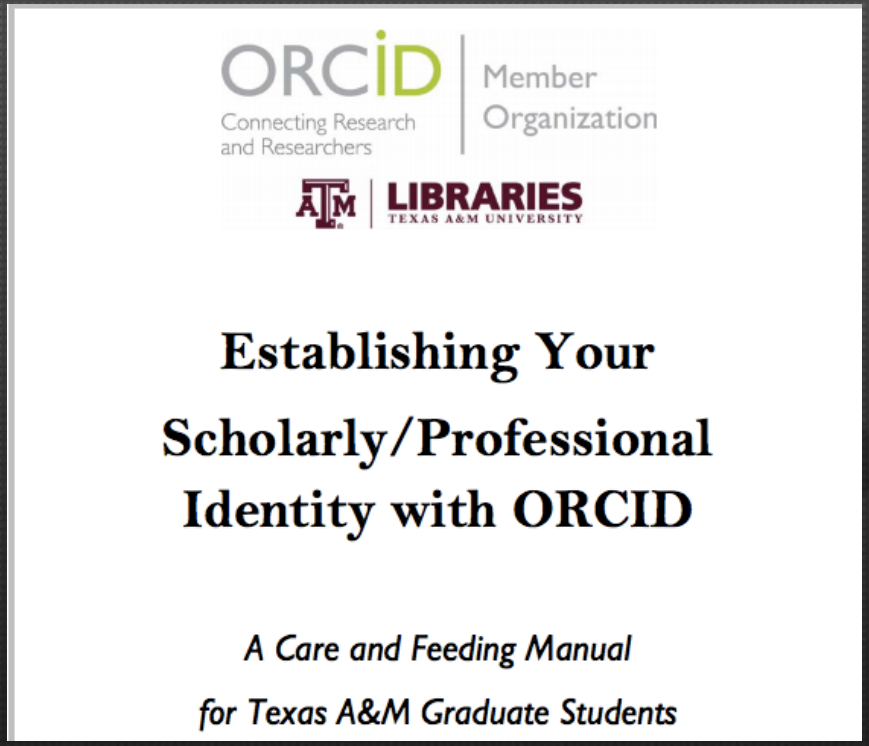
Worldwide

- Cambridge
- CERN
- Chinese Academy of Sciences
- European Bioinformatics Institutes (EMBL-EBI)
- Consorcio Madroño
- Glasgow
- Korea Institute of Science & Technology Information (KISTI)
- Oxford
- Stockholm
- University College London
- University of Hong Kong
- University of Sydney

For more on university integrators see http://orcid.org/organizations/researchorganizations

University Case study:

- Creating ORCID iDs for:
  - 10,000+ grad students
  - All postdocs
  - All faculty
  - Also tying to ETDs & campus directory
- Why?
  - Having an ORCID iD is part of your professional identity as a scholar
  - A persistent identifier will help TAMU track future career outcomes



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How can ORCID help with outcomes tracking & reporting?

A persistent identifier benefits researchers & organizations

- Distinguishes them from all other researchers
- The unique ORCID identifier stays with researchers throughout their careers
- Connects them reliably with their research outputs
- Improves discoverability of their research
- Widespread embedding of the ORCID identifier improves information sharing—offering us all better data in the future

ORCID Public Data

"All data contributed to ORCID by researchers or claimed by them will be available in standard formats for free download (subject to he researchers' own privacy settings) that is uploaded once a year and released under a CC0 waiver."

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Encourage researchers to get their ORCID iDs today!

Their ORCID iD will:

- Remain with them throughout their career, even as they
  - Change names
  - Move between institutions, nations, and disciplines
- Reliably link them with their research outputs
  - Publications
  - Datasets
  - Funding
  - Other outputs
- Encourage them to USE their iDs in
  - Manuscript submission & grant proposals
  - CVs, web pages, email signatures, & more
- Help ensure that they get credit for all of their work and improve discoverability of their research
- ORCID identifiers are always free for researchers. Resources to support outreach at
  - http://orcid.org/content/orcid-ambassadors-1/outreachresources

Organizational membership

ORCID Membership

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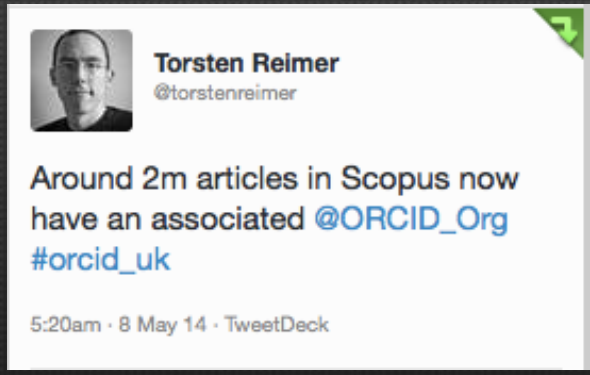
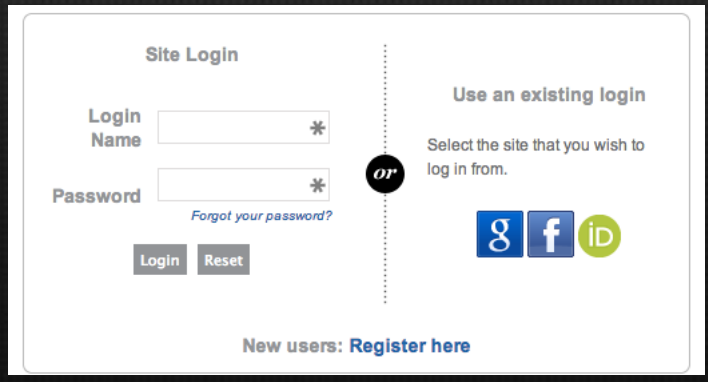
Member organizations may use the member API to:

- Read information from an ORCID record
- Send data such as publications to ORCID records
- Integrate a search and link wizard to enable researchers to connect with their works
- Link ORCID identifiers to other IDs and registry systems
- Create ORCID records on behalf of employees or affiliates
- Validate information in ORCID records





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ORCID Membership

- Complete information about membership available at http://orcid.org/about/membership
  - Standard
    - One organization signs a member agreement
  - Consortial
    - One lead member organizes consortial participants & technical support, all which are listed in the lead agreement. Payment is per participant, and multiple categories are allowed w/n the consortium. Consortia of 5 or < receive 10% discount.
  - National
    - One lead member organizes recruitment & tech support. Could include individual NP universities, government institutions, and other non-profit research-conducting organizations.

Non-profit organizations receive a 20% discount

ORCID Membership (standard)

ORCID Connecting Research and Researchers

Basic (US$5000/year)

- Access to OAuth Member API
- Option for either trusted party or creator license
- Support for 1 set of client credentials
- Email support
- Biannual data file
- May nominate for ORCID board

Premium (US$10,000-$25,000/year, depending on revenue)

- All benefits of Basic membership
- Webhooks automated update services for synchronizing between ORCID & your data system
- More API requests/day
- Up to 5 API client credentials, to support more systems
- Monthly data files & expanded support services
- Custom reports on site traffic, registrations, and more

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Resources

- Find out more at http://orcid.org
  - Integrations at other institutions
  - Use case examples
    - http://orcid.org/organizations/institutions/usecases
  - Record creation guide
    - http://bit.ly/1gPloRC
  - ORCID Ambassadors
    - http://orcid.org/content/orcid-ambassadors-1
- Membership information
  - http://orcid.org/about/membership
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Questions?

Rebecca Bryant, PhD
r.bryant@orcid.org
@ORCID_Org