The Who, What, and Where of Persistent Identifiers:

PIDs for people & places 28 April 2021

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- 1. ORCID & person ID basics
- 2. ROR & org ID basics
- 3. Identifying a ffiliations with ROR & ORCID
- 4. Implications & future directions

ORCID & person ID basics

Why person IDs for researchers?

What's in a Name?

Most names are not unique

8

Many people have the same name



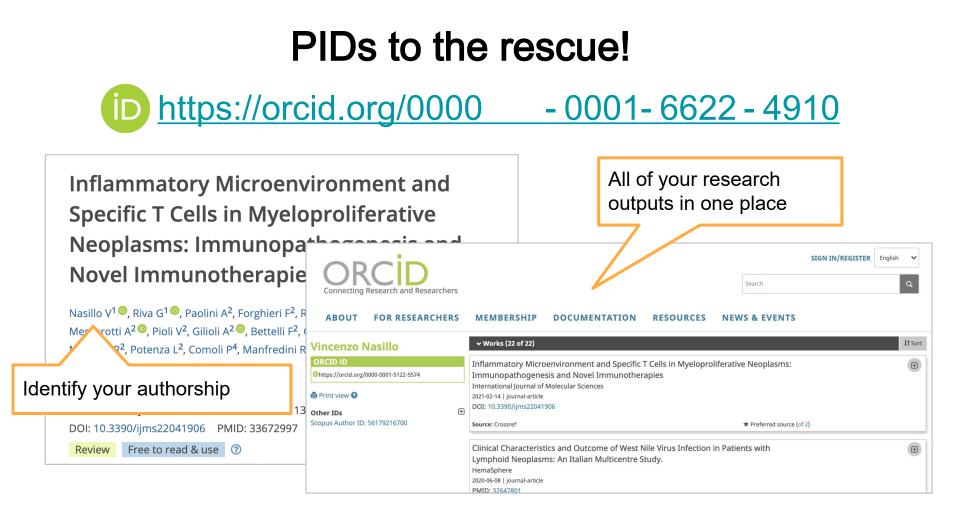
People use different versions of their name during their career

Individuals use different alphabets, abbreviations, or naming conventions



Sofia Maria Hernandez Garcia Sofia Garcia S.M. Garcia S. Hernandez Garcia How many people

is this?!



What is ORCID?



ORCID iDs unique, persistent person identifiers free of charge to researchers https://orcid.org/0000 - 0001- 6622 - 4910



ORCID records that connect affiliations and research activities like publications, grants & peer reviews to ORCID iDs via persistent identifiers



Application Programming Interfaces (APIs) and related services that allow organizations like research institutions, funders & publishers to read data from/write data to ORCID records

Before ORCID launched in 2012, a few IDs for people already existed:



Google Scholar existed as well.

Why another person ID and publication record?!

O = OPEN

- Open data (via public API, public data file)
- Open source code
- Open to all researchers at no cost
- Non profit, non commercial, community governed

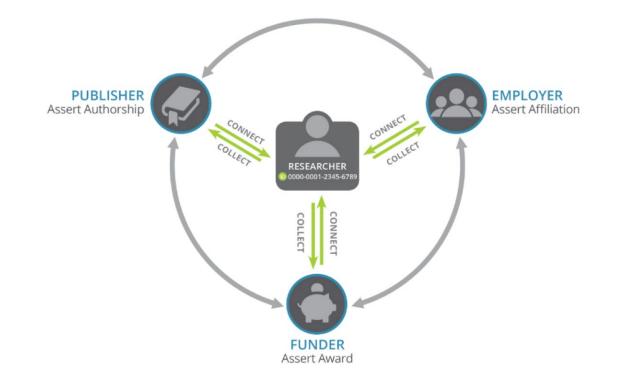
Fun fact!The 16- digit number portion of an ORCID iD (ex 0000- 0001- 6622 - 4910)is a subset of ISNI, reserved for assignment by ORCID. They can't conflict!

- ORCID is a community driven organization supported by members around the world
- ORCID- CA consortium led by CRKN supports Canadian ORCID community of practice



OPEN >>> Interoperable

Leverages other PIDs to connect researchers to research outputs and organizations via open infrastructure

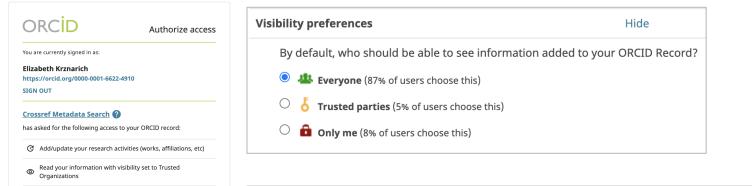


What do we really mean by "interoperable"?

Technical aspects, but not *just* technical stuff!

- Open data, open APIs
- Integrating standards/community best practices
- Engaging with other PID system and scholcomms stakeholders when developing features/workflows and getting buy-in on implementation approaches

Privacy + researcher control



Authorize access		
	Deny access	
	this organization will have access to your ORCID record, as e and described in further detail in ORCID's privacy	
	ige access permissions for this and other Trusted in your account settings.	

 ORCID Inc: Bethesda, MD, US
 Who can see this?

 2014-06 to 2015-10 | Support specialist
 Image: everyone

 Employment
 Image: trusted parties

 Source: Elizabeth Krznarich
 Preferred sour

 University of Wisconsin Madison: Madison, WI, US
 Image: trusted parties

 2013-05 to 2014-06 | Program Manager, Student Technology Training (Division of IT - Academic Technology)
 Image: trusted parties

ROR & organization ID basics

Why IDs for research organizations?

Similar case to ORCID...

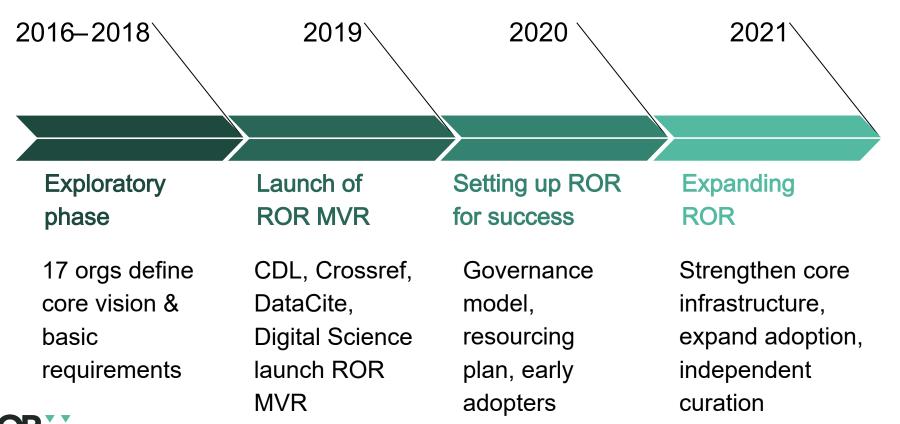
- Name variations: University of Wisconsin, University of Wisconsin Madison, UW- Madison
- Same/similar names: Min is try of He a lth

How can we keep track of researcher affiliations and outputs in a standardized way so that things can be easily automated? **PIDs to the rescue!**

What is ROR?

Research Organization Registry Community - led registry of open, sustainable, usable, and unique identifiers for every research organization in the world

Evolution of ROR



@ResearchOrgs

Why ROR?

Like with ORCID, several ID types for research organizations already existed before ROR's launch:



Why another organization ID?!

Why ROR?



- Specifically focused on research affiliations
- Connect organizations, researchers & research outputs via OPEN in fra structure



- Non commercial, fully open (CC0) registry
- Public API, data dump



• Community-led initiative

ROR services/tools

- ROR Registry (UI/API)
- Data dumps (Approx quarterly)
- APIs (query, affiliation matching)
- OpenRefine reconciler

R https://ror.org/03yrm5c26

CDL	lifornia Digital Library	
WEB: http:	SITE ://www.cdlib.org/	OTHER IDENTIFIERS GRID grid.463323.3 ISNI 000000011957513 Wikidata Q5020447
> C	api.ror.org/organizations?filter=co	ountry.country_name:Colombia
		199 - 2000 - 197
"יוומ	mber of results": 316.	
	<pre>mber_of_results": 316, me taken": 2,</pre>	
"ti		
"ti	me_taken": 2,	
"tin "ite	me_taken": 2,	01vtn3k88",
"tin	<pre>me_taken": 2, ems": [{</pre>	
"tin	<pre>me_taken": 2, ems": [{ "id": "https://ror.org/"</pre>	
"tin	<pre>me_taken": 2, ems": [{ "id": "https://ror.org/" "name": "Hospital Pablo</pre>	
"tin	<pre>me_taken": 2, ems": [{ "id": "https://ror.org/" "name": "Hospital Pablo "types": [</pre>	
"tin	<pre>me_taken": 2, ems": [{ "id": "https://ror.org/" "name": "Hospital Pablo "types": [</pre>	
"tin "ite	<pre>me_taken": 2, ems": [{ "id": "https://ror.org/" "name": "Hospital Pablo "types": ["Healthcare"],</pre>	Tobon Uribe",

How does ROR work?



Submit article/dataset in system integrated with ROR



Identify affiliation from ROR's controlled list



Metadata for research output includes ROR ID



Track and discover research by affiliation

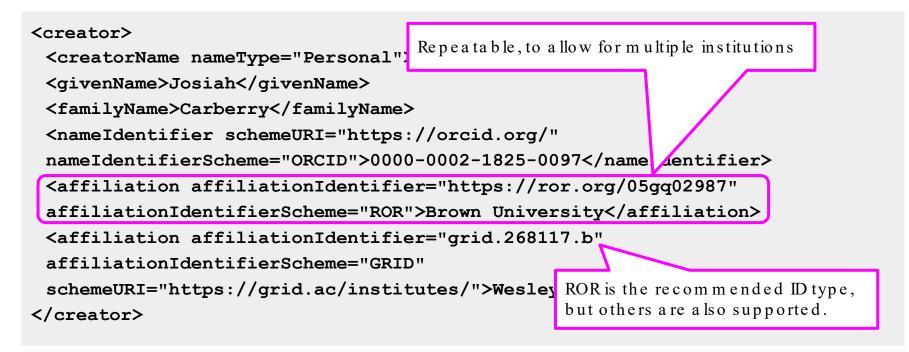
Capture affiliations using ROR

Populate typeaheads/dropdowns directly using our query API/data dump, or your map an existing organization list using our affiliation matching API, reconciler or data dump.

itle * royal blood: dna sec	analysis			
Author(s)				
First Name *		Last Name *	Institutional Affiliation *	Author Email *
Her	۵	Majesty	qub	email@example.com
https://sandbay.s	raid are (00)	00-0003-0323-450X	Queen's University Belfast	
+ Add Author				
			E = Ω # # 17 W I	
🕢 Source 🐰 🔓		· · · · · · · · · · · · · · · · · · ·		

Include ROR ID in DOI metadata

DataCite schema v4.3+ supports ROR (and ORCID) in creator/contributor affiliations and funding reference section (Crossref ROR support coming soon!)



Who's using ROR?

In the past year, new integrations have emerged among a wide range of communities and system types.

PUBLISHERS OJS, Rockefeller University Press, Hindawi

INFRASTRUCTURE PROVIDERS DataCite, Crossref, ORCID (coming soon!)

OA PUBLISHING AGREEMENT SUPPORT Unsub, Plan S Journal Checker Tool, OA Switchboard GRANT MANAGEMENT & COMPLIANCE Altum Proposal Central, Chronos Hub REPOSITORIES Dryad, British Library

See the complete list of integrations to date at https://ror.org/integrations

ROR in the wild

OJS

DataCite Fabrica

University of Wisconsin–Madison	×	Ψ
https://ror.org/01y2jtd41		
Affiliation names and identifiers are provided by the Research Organization Registry (ROR).		

See below to request authenticated ORCID iD ORCID iD	
ttps://ror.org/02k7v4d05]	(
https://ror.org/02k7v4d05] ×	
	ORCID ID ttps://ror.org/02k7v4d05]

Journal Checker Tool

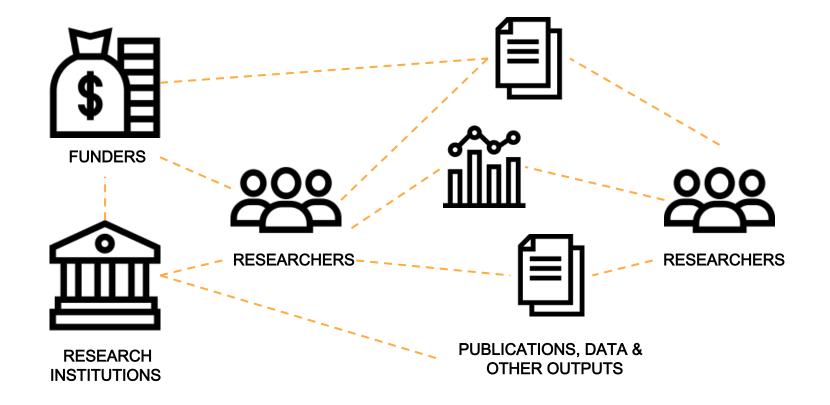
•	ls this compliant with <u>Plan S</u> ?
	JOURNAL
	Nature (Springer Science and Business Media LLC), ISSN: 1476-46
	MY FUNDER
	Wellcome
	MY INSTITUTION
	University of Wisconsin-Madison
	University of Wisconsin–Madison, United States of America (ROR:01y2jtd41)

Dryad Digital Repository

Dataset: Basic Information	
Title * royal blood: dna seq analysis	
Author(s)	
First Name * Last Name *	Institutional Affiliation * Author Email *
Her 🔠 Majesty	queen's university email@example.com
	McGill-Queen's University Press
https://sandbox.orcid.org/0000-0003-0323-450X	Queen's University
+ Add Author	Queer University Belfast

ORCID + ROR: Identifying affiliations

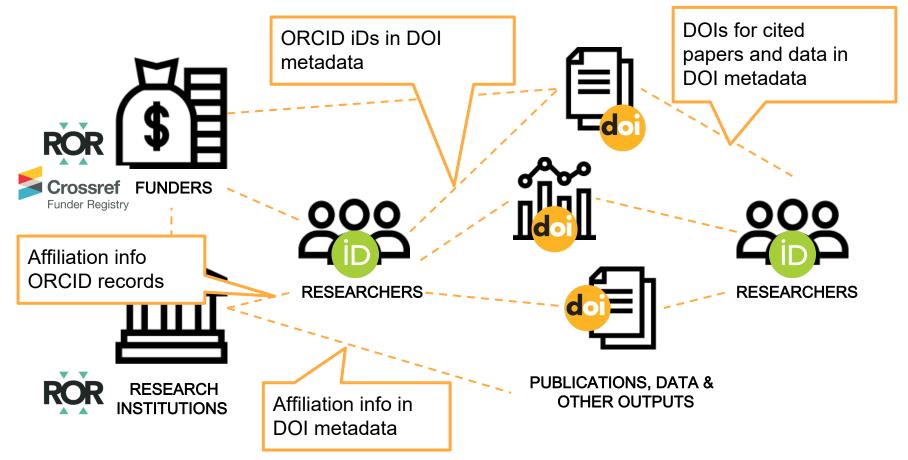
Research can be viewed as a network People, places, things & relationships between them



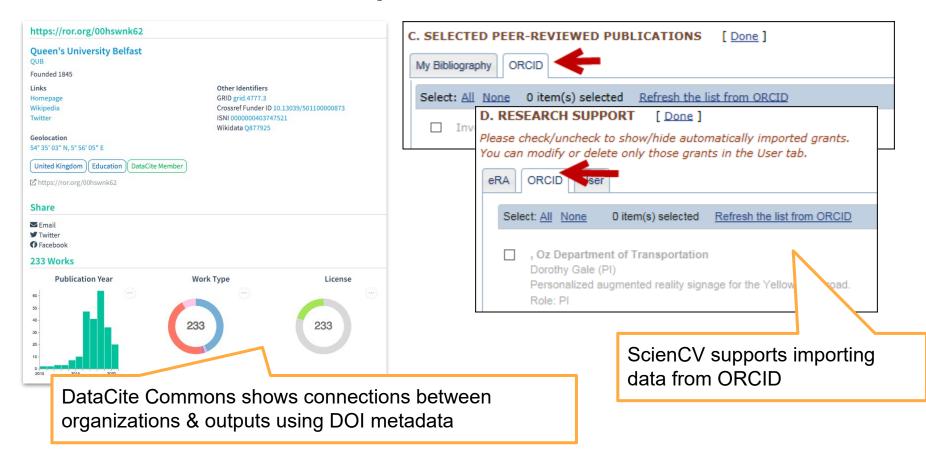
When information about people, places, things & their relationships to each other flows freely through this network, lots of things are possible!

- Researchers can more easily submit grant applications, reports, manuscripts, repository deposits
- Research institutions & funders can more easily assess research impact & compliance with OA/data sharing policies

Open PIDs + PID metadata can make it happen!



Examples in the wild



Implications & action steps

What's needed to enable these connections?

PIDs work better together!

- ORCID + ROR + DOI **adoption** to identify people, places and things
- High-quality **metadata** in ORCID records and DOIs to capture relationships

What's needed to enable these connections?

- High quality integration in systems throughout the research cycle (funding, award management, manuscript, peer review, repositories, etc)
- Support PID infrastructure through membership & advocacy
 - ORCID ORCID- CA consortium
 - DataCite DCAN DataCite consortium
 - ROR does not yet offer membership, but plans to offer paid services, TBD (these will be in addition to the current registry, data dumps and APIs, which will remain free)

Are you adding affiliations to ORCID records?

• Later in 2021, you'll be able to include a ROR ID as organization identifier!

2019-03-25	2019-03-25	
Added	Last modified	
OFR: http://dx.doi.org/10.13039/501100000769		
ISNI: 000000419368948		
Other organization identifiers provided by Ringgold		
University of Oxford: Oxford, Oxfordshire, GB		
Ringgold: 6396		
Organization identifiers		
Employment		
(Primary Care Health Sciences)		
University of Oxford: Oxford, Oxfordshire, GB		

Not adding affiliations to ORCID yet?

- Affiliation manager tool rolling out this year
- Will support ROR as soon is it's supported in the ORCID API

Add or edit a	ffiliation		
User Email banana01@mailinator.com			E
Affiliation Type			
EMPLOYMENT			~
Organization Name			
University of Michigan			
City	State/Region	Country	
Ann Arbor	MI	United States	~
Organization ID Source	Orgar	nization ID	
RINGGOLD	✓ 1259)	
Department	Role/Title	URL	
Ethnomusicology	Assistant Professor		

Does your repository or e - thesis platform register DOIs?

- Include a ffiliations with ROR IDs in Data Cite metadata (supported in Data Cite schema v4.3+)
- Include relationships to other items whenever possible, using related Ids element

```
<creator>
  <creatorName nameType="Personal">Miller, Elizabeth</creatorName>
  <givenName>Elizabeth</givenName>
  <familyName>Miller</familyName>
  <nameIdentifier schemeURI="http://orcid.org/" nameIdentifierScheme="ORCID">0000-0001-5000-
0007</nameIdentifier>
  <affiliation affiliationIdentifier="https://ror.org/04wxnsj81"
  affiliationIdentifierScheme="ROR">DataCite</affiliation>
  </creator>
```

- Encourage your system vendors to support PIDs and high - quality metadata
- Working with a system vendor that doesn't support DOI registration or use of ROR?
 - We'd like to help! Please contact liz.krznarich@datacite.org



ORCID resources & contacts

ORCID CA Consortium info <u>https://www.crkn -</u> <u>rcdr.ca/en/orcid - ca - home</u>

Contact ORCID CA ORCID-CA@crkn.ca

General ORCID resources https://info.orcid.org/resources

General ORCID support contact

support@orcid.org

ROR resources & contacts

Resources page <u>https://ror.org/resources</u>

General contact in fo@ror.org

Em a il list <u>tinyurl.com/ror-list</u>

Slack: <u>tinyurl.com/ror-slack</u>

APIdocs: github.com/ror-community/ror-api