Hosted by the Health Research Alliance, with ORCID & the ORCID US Community consortium

March 25, 2024
Agenda

● Overview of ORCID and the ORCID US Community
● Benefits of ORCID membership for funders
● ORCID in the Global Landscape
● Questions & Discussions
Introductions

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Introductions

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Shawna Sadler
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ORCID and the ORCID US Community
What is ORCID?: ORCID iD

The ORCID iD: a unique, persistent identifier free of charge to researchers

ORCID provides free, unique identifiers for researchers.

Sofia Maria Hernandez Garcia https://orcid.org/0000-0001-5727-2427
Uniquely identify your researchers

Many researchers have the same name

But their ORCID iDs are different...
Uniquely identify your researchers

Some researchers’ names change over time, or they use different variations of their name over time

Sofia Maria Hernandez Garcia
Sofia Garcia; S. M. Garcia; Sofia Maria Garcia

ID https://orcid.org/0000-0001-5727-2427
What is ORCID?: ORCID Record

An ORCID record connected to the ORCID iD

Serves as a central place for researchers to keep their information, similar to what you would see on a CV or resume.
Researchers have full control over visibility of their data.
Increase your visibility by registering for an ORCID iD and populating your record

When researchers’ activities and works are linked to their ORCID record, they can be more discoverable in the wider scholarly communication ecosystem.
What is ORCID?: ORCID API

A set of Application Programming Interfaces (APIs), as well as the services and support of communities of practice that enable interoperability between an ORCID record and member organizations so researchers can choose to allow connection of their iD with their affiliations and contributions.
Benefits of ORCID Member API

ORCID member organizations can use the ORCID member API (application programming interface) in local systems to:

● Uniquely identify your researchers via their ORCID iD

● Read data directly from researchers’ ORCID records

● Write data directly to researchers’ ORCID records
About the ORCID US Community

**Membership**
- 200+ Members
- Universities and Colleges
- Funders
- Research Institutes

**Community**
- Community of Practice
- Webinars
- Community Calls
- Discussion Forums

[https://orcidus.lyrasis.org/](https://orcidus.lyrasis.org/)
Funders in the ORCID US Community

- American Cancer Society
- American Council of Learned Societies
- American Heart Association
- American Institute for Cancer Research
- Breast Cancer Research Foundation
- Brightfocus Foundation
- Gordon and Betty Moore Foundation
- JDRF
- Melanoma Research Alliance
- Research Corporation for Science Advancement
- Simons Foundation
- The Nemours Foundation
Membership Benefits

Discounted Membership Fees

ORCID Membership Fee is a tiered structure based on the total annual budget of your organization.

- Small (<$10m) = $3,650/year
- Standard ($10m - $1b) = $5,295/year
- Large (> $1b) = $6,430/year

ORCID consortium fees may be subject to a 3% increase/year
Benefits of ORCID
<table>
<thead>
<tr>
<th>Block</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>More easily track the impact of your awards and your awardees, even after the end of the grant term</td>
<td></td>
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<td>Improve the integrity of your submission, review, and reporting processes; reduce errors &amp; administrative burden</td>
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<tr>
<td>Gain a better understanding of who your researchers are, what they have done, and what they go on to do</td>
<td>Confirm org’s relationship with researchers</td>
</tr>
<tr>
<td>Get researchers’ ORCID iDs</td>
<td>Read data from ORCID records</td>
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</table>
Starting Point: Get researchers’ ORCID iDs

Use the ORCID API Authentication “OAuth” Process - starts with the researcher connecting their ORCID iD:
Starting Point: Get researchers’ ORCID iDs

Researcher is prompted to log in to their ORCID account, or register for an ORCID iD if they don’t already have one:
Starting Point: Get researchers’ ORCID iDs

Researcher then authorizes the connection between their ORCID ID & your organization:
Gather information:

Read data from ORCID records

Once you have your researcher’s ORCID iD, you can pull public data from their ORCID record using the ORCID API:
Gather information: Read data from ORCID records

ORCID members can get researcher permission to pull non-public “trusted parties only” data from ORCID:
Gather information: Read data from ORCID records

Some systems allow researchers to populate their applications and progress reports with info from ORCID:
ORCID Member Benefit Building Blocks

Gain a better understanding of who your researchers are, what they have done, and what they go on to do

Get researchers’ ORCID IDs

Read data from ORCID records
Confirm relationships:

Write data to ORCID records

ORCID members can push data to researchers’ ORCID records to confirm relationships/relevant activity:
Confirm relationships:

Write data to ORCID records

ORCID members across the research ecosystem (universities, publishers, societies, etc.) can write to ORCID:

University of Virginia: Charlottesville, VA, US

Employment

Source: University of Virginia

Stick-Slip Dynamics in a Granular Material With Varying Grain Angularity

FRONTIERS IN PHYSICS
2022 | Journal article | Author
DOI: 10.3389/fphy.2022.916190
CONTRIBUTORS: Ryan Kozlowski; Hu Zheng; Karen E. Daniels; Joshua E. S. Socolar

Source: NC State University Libraries
Confirm relationships: Write data to ORCID records

For funders, this typically includes funding information and/or reviewer activity.

- Funding (1)

  Investigating interactions between the cardiac voltage-gated potassium channel proteins hERG and KvLQT1

  2023-04-01 to 2025-03-31 | Grant
  American Heart Association (Dallas, US)
  DOI: 10.58275/AHA.23AI/REA1051613.pc.gr167525
  GRANT_NUMBER: 23AI/REA1051613

  Source: American Heart Association
## ORCID Member Benefit Building Blocks

| Gain a better understanding of who your researchers are, what they have done, and what they go on to do |
| Get researchers’ ORCID iDs |
| Read data from ORCID records |
| Write data to ORCID records |

| Confirm org’s relationship with researchers |

**ORCID** Member Benefit Building Blocks allow organizations to:

- Get researchers’ ORCID iDs
- Read data from ORCID records
- Write data to ORCID records
- Gain a better understanding of who your researchers are, what they have done, and what they go on to do
- Confirm org’s relationship with researchers
ORCID Member Benefit Building Blocks

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Action</th>
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<tr>
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<td>processes; reduce errors &amp; administrative burden</td>
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Stakeholder Roles in the ORCID Ecosystem

INTEROPERABILITY

ENTER ONCE
REUSE OFTEN

PUBLISHER
Assert authorship

CONNECT
COLLECT

RESEARCHER
https://orcid.org/0000-0001-2345-6789

CONNECT
COLLECT

EMPLOYER
Assert affiliation

CONNECT
COLLECT

FUNDER
Assert award

CONNECT
COLLECT

CONNECT
COLLECT

CONNECT
COLLECT
Stakeholder Roles in the ORCID Ecosystem
Other PIDs in the ORCID Ecosystem

**PID = Persistent Identifiers**

- **ORCID** - PID for people
- **ROR** - Research Organization Registry - PID for organizations (where)
- **DOI** - Digital Object Identifier - PID for objects
  - Research outputs (publications, datasets, etc.)
  - Grants (Crossref Grant DOIs)
Track Activity, Impact, and ROI

More easily track the impact of your awards and your awardees, even after the end of the grant term

Investigating interactions between the cardiac voltage-gated potassium channel proteins hERG and KvLQT1

2023-04-01 to 2025-03-31 | Grant
American Heart Association (Dallas, US)
DOI: 10.58275/AHA.23AIREA1051613_pc.gr.167525
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Source: American Heart Association
# Track Activity, Impact, and ROI

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<th>Grant ID</th>
<th>23AIREA1051613</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Title</td>
<td>Investigating interactions between the cardiac voltage-gated potassium channel proteins hERG and KvLQT1</td>
</tr>
<tr>
<td>Award Amount</td>
<td>$153,660.00</td>
</tr>
<tr>
<td>Primary Organization</td>
<td>Wellesley College</td>
</tr>
<tr>
<td>Award Start Date - Award End Date</td>
<td>04/01/2023 - 03/31/2025</td>
</tr>
<tr>
<td>Program Name</td>
<td>AHA Institutional Research Enhancement Award</td>
</tr>
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**Summary**

Voltage-gated potassium channels play a critical role in repolarizing cardiomyocytes, and abnormal repolarization leads to prolonged action potential durations (APDs), which can manifest clinically as Long-QT (LQT) syndrome, arrhythmias, and sudden cardiac death. hERG (KCNH2) and KvLQT1 (KCNQ1) are the pore forming a-subunit proteins for the major repolarizing currents Ikr and IKs, respectively. In vivo, Ikr and IKs currents function together, with some redundancy, to maintain appropriate APDs, as described by the concept of repolarization reserve. However, cellular electrophysiological studies in transgenic rabbit cardiomyocytes and stable cell lines showed mutual, functional downregulation of these complementary currents. When hERG was genetically modified to eliminate Ikr, IKs was surprisingly also adversely affected. The corollary was also demonstrated where Ikr was unexpectedly diminished in LTO1 models that lack IKs. This electrophysiological, functional data suggested a potential interaction between hERG and KvLQT1 a-subunit proteins.

[https://proposalcentral.com/Insights/yK3zgRfRqcl=/Public/AwardDetails/1051613](https://proposalcentral.com/Insights/yK3zgRfRqcl=/Public/AwardDetails/1051613)
Connected PIDs in the Research Ecosystem

- Researcher’s Employer
- Researcher
- Funder
- Grant DOI
- Funded research outputs
- DOIs
- Related works
- ORCID iD
- ROR ID
Connected PIDs: Analysis & Impact

Gordon & Betty Moore Foundation researchers’ collaborations, 2024
Data pulled on February 7, 2024

<table>
<thead>
<tr>
<th>Article collaborations</th>
<th>Collaborator cities</th>
<th>ORCID iDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>70</td>
<td>43</td>
</tr>
</tbody>
</table>

Note: These summary data points represent the data for authors who have an ORCID iD and who published an article during the time period from the date pull. This is not representative of all collaborations and authors at an organization.

Highest number of collaborations with the following organizations
Click on a bar, then click on Excluded to remove it from the chart and recalculate the organizations with the highest number of collaborations.

- Massachusetts Institute of Technology
- Wellcome Sanger Institute
- Karolinska Institute
- École Polytechnique Fédérale de Lausanne
- Charles University

The institutions with the highest number of collaborations with Moore Foundation researchers include MIT, Wellcome Sanger Institute, Karolinska Institute, École polytechnique fédérale de Lausanne, and Charles University.
ORCID Member Benefit Building Blocks

More easily track the impact of your awards and your awardees, even after the end of the grant term

Improve the integrity of your submission, review, and reporting processes; reduce errors & administrative burden

Gain a better understanding of who your researchers are, what they have done, and what they go on to do

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Contribute to FAIR Research Ecosystem

- Enable assessment and FAIRness
  - FAIR = Findable, Accessible, Interoperable, & Reusable
- Connected PIDs with open metadata make it easier to:
  - Understand relationships between entities in the research ecosystem
  - Follow researcher activity (publications, collaboration, funding received, etc.)
  - Build foundation for gauging “impact”

https://doi.org/10.1016/j.patter.2020.100180
Global Landscape
Adoption of PIDs Globally

Recommendations for FAIR & PID adoption: G7, G20 & UNESCO

G7 Science and Technology Ministers’ Communique
Sendai, May 12-14, 2023

We, the G7 Science and Technology Ministers, affirm our commitment to the shared values of democracy, rule of law, openness, and respect for freedom and human rights, as well as the importance of diversity, equity, inclusion, and accessibility, including gender equality, in research and development (R&I).

G7 Science Communique,

G20 Science 2020 Communique
Coimbatore, Tamil Nadu
21-22 July, 2023

SCIENCE20 – G20 SCIENCE ACADEMIES SUMMIT
Transformative Science for Sustainable Development
COMMUNIQUE

G20 report,
https://www.g20.org/content/dam/gtwenty/gtwenty_new/document/Science_20_communique.pdf

UNESCO Recommendation on Open Science

UNESCO report,
https://unesdoc.unesco.org/ark:/48223/pf/0000379949
ORCID & Research Security

Key points

Researchers to be identified by an identifier (ORCID iD)
  Many researchers share a name

The ORCID profile allows researchers to disclose their affiliations
  Publicly or to Trusted Organizations

Technical infrastructure allows forms to be auto-populated
  Reduces the administrative burden on researchers (and staff)

ORCID named as the identifier for researchers in NSF PAPPG
ORCID & White House OSTP Public Access Memo

Key points
1. Authors and Co-authors to be identified by an identifier (ORCID iD)
   a. Credit the right people for the work
2. People reading the work can clearly identify the authors, and review their ORCID profile
   a. Helps build trust and transparency in science

“That persistent identifiers, or PIDs, and other critical metadata associated with peer-reviewed publications and data resulting from NSF-funded research will be collected and made publicly available in NSF-PAR.”

NSF Public Access Plan 2.0
National PID Strategies in Development

RDA National PID Strategies Interest Group
https://www.rd-alliance.org/groups/national-pid-strategies-interest-group

Guide, Checklist & 9 Case Studies
https://zenodo.org/records/8431975

1. Australia
2. Canada
3. Czech Republic
4. Finland
5. Germany
6. Korea
7. New Zealand
8. The Netherlands
9. United Kingdom
10. United States (in development)

1. Lead organizations
2. Scope
3. Drivers
4. Strategy development
5. Key features
6. Key infrastructure
7. Priority PIDS
8. Impact and monitoring
Action Items

❖ Register for your own ORCID iD: https://orcid.org/register

❖ Attend our April community call on the topic of ORCID in Funding Workflows, where we will hear from a panel of funders in the US & Canada:
  ➢ Mon. April 22 @ 2-3pm Eastern
  ➢ Register to attend: https://lyrasis.zoom.us/meeting/register/tZIudu2vrz8qEtPeki5s4cE3uQ9fkK3uKu0A

❖ Join the ORCID US Community listserv: https://forms.gle/1evJEm5zx2bfreJe8

❖ Email us at orcidus@lyrasis.org
Resources

❖ ORCID US Community: https://orcidus.lyrasis.org/
❖ ORCID US Community Membership Benefits & Fees: https://orcidus.lyrasis.org/membership/
❖ How PIDs work together in the research ecosystem: https://lyrasisnow.org/how-persistent-identifiers-work-together-in-the-research-ecosystem/
❖ Data Visualization example: https://public.tableau.com/app/profile/sheila6994/viz/MooreFoundationTest1/Fullvisualization#2
❖ April 18 ORCID and Funding Workflows community call https://lyrasis.zoom.us/meeting/register/tZIudu2vrz8qEtPeki5s4cE3uQ9fkK3uKu0A
❖ Join the ORCID US Community listserv: https://forms.gle/1evJEm5zr2bfreJe8
❖ Contact us at orcidus@lyrasis.org
Resources

❖ G7 Science Communique:
  https://www8.cao.go.jp/cstp/kokusaiteki/g7_2023/230513_g7_communique.pdf
❖ G20 report:
  https://www.g20.org/content/dam/gtwenty/gtwenty_new/document/Science_20_communique.pdf
❖ UNESCO report: https://unesdoc.unesco.org/ark:/48223/pf0000379949
❖ ORCID & Research Security:
  https://lyrasisnow.org/nspm-33-orcid-information-for-research-organizations/
❖ White House OSTP memo:
Questions & Discussion

orcidus@lyrasis.org