Tackling the Pain Points in Funding and Publishing Workflows
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
# PIDs can help improve workflows

People: ORCID iDs ([https://orcid.org](https://orcid.org))

Journal articles: DOIs ([https://crossref.org](https://crossref.org))

Research Orgs: ROR IDs ([https://ror.org](https://ror.org))

Funder Orgs: Funder IDs ([https://www.crossref.org/services/funder-registry/](https://www.crossref.org/services/funder-registry/))

Grants: DOIs for grants

And more...

<table>
<thead>
<tr>
<th>Findable</th>
<th>To be Findable any Data Object should be uniquely and persistently identifiable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessible</td>
<td>Data is Accessible in that it can always obtained by machines and humans</td>
</tr>
<tr>
<td>Interoperable</td>
<td>Data should include qualified references to other data, and the format should use a shared vocabulary.</td>
</tr>
<tr>
<td>Reusable</td>
<td>To achieve this, data should comply with the above, and refer to their sources with rich metadata and provenance.</td>
</tr>
</tbody>
</table>
Australian Research Council - ARC (Australia)
Austrian Science Fund - FWF (Austria)
BBSRC (UK)
Canadian Institutes of Health Research - CIHR (Canada)
CONCYTEC (Peru)
Conselho Nacional de Desenvolvimento Científico e Tecnológico - CNPq (Brazil)
Coordenação de Aperfeiçoamento de Pessoal de Nível Superior - CAPES (Brazil)
Fundação para a Ciência e a Tecnologia - FCT (Portugal)
Howard Hughes Medical Institute - HHMI (USA)
Japan Science and Technology Agency - JST (Japan)
Ministry of Business, Innovation, and Employment - MBIE (New Zealand)
National Humanities Alliance - NHA (USA)
National Research Foundation - NRF (South Africa)
Natural Sciences and Engineering Research Council of Canada - NSERC (Canada)
Science and Technology Development Fund - STDF (Egypt)
Social Sciences and Humanities Research Council - SSHRC (Canada)
Swiss National Science Foundation - SNF (Switzerland)
US National Institutes of Health - NIH (USA)
Wellcome Trust (UK)
The ORCID Funder Working Group identified pain points and made recommendations to address them:

- **High reporting burden.** Use information from ORCID records to fill forms and to track research results over time
- **Low data quality.** Add authoritative information about funding to ORCID records
- **Low information-sharing.** Enable systems and organizations to easily share information about researchers and their funding
**Benefits:**

✔ Transparent & authoritative connection between funder & researcher
✔ Better quality data
✔ Promotes interoperability between system and better research data & infrastructure
✔ Saves time to funders admin staff, researchers, etc.

Support ORCID and sign our [Funders Open Letter](#)
**PIDs in publishing workflows**

Publisher collects author’s iD during submission

Publisher queries ORCID record for funding & employment

Publisher creates automatic funding acknowledgement

Publisher checks if an OA policy applies & publishes in line with it

Publisher connects article metadata to ORCID record

**Benefits:**
- Authors and co-authors correctly identified & article metadata (incl funding acknowledgement) connected to their record
- Supports funder compliance and increases transparency by incl identifiers in publication metadata
- Improves reports quality

Licensing data coming up next on ORCID records?

**Support ORCID and sign our Publishers Open Letter**
ORCID in numbers

7,8M+ ORCID iDs connected to:

- **3M+** identifiers (person, org, funding, works peer review)
- **3,7M+** education items
- **3,4M+** employment items
- **49M+** works
  - **18M+** unique DOIs
- **13M+** peer reviews
- **700k+** funding items

[https://orcid.org/statistics](https://orcid.org/statistics)

Statistics as of: 2020-01-04
ORCID & researcher control

- **Collect authenticated iDs.** Use the ORCID API to obtain user’s permissions to interact with their record (read or add data)
- **Respects privacy and consent**
- **Avoids typing or any manual issues**

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**Gabriela Mejias**
https://orcid.org/0000-0002-1598-7181

**ÜberWizard?**
has asked for the following access to your ORCID Record

Read your information with visibility set to Trusted Parties
Add/update your research activities (works, affiliations, etc)

This application will not be able to see your ORCID password or any other information in your ORCID record with visibility set to Only me. You can manage permission granted to this and other Trusted Organizations in your **account settings**.

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**Evaluation of metabotropic glutamate receptor 3 as a therapeutic target in breast cancer**

**Funding sub-type**
Funding sub-type

**Total funding amount**
GBP 229,977

**Source:** Leo M. Carlin via UberWizard

**Translating title(English)**
Evaluation of metabotropic glutamate receptor 3 as a therapeutic target in breast cancer

**Description**
Systemic glutamate levels are consistently elevated in patients with breast cancer. We have discovered that glutamate engages its receptor, metabotropic glutamate receptor 3 (mGluR3), to drive the intrinsic aggressiveness of breast cancer cells. Furthermore, we have discovered that mGluR3 forges a key link between glutamine metabolism and remodeling of the stroma and the innate immune microenvironment in breast cancer. Aims: 1) Determine the role of mammary tumour progression and metastasis, stromal remodeling and shaping of the innate immune cell microenvironment and will contribute to de-risking mGluR3 as a novel drug target in breast cancer.

**Added**
2019-09-23

**Last modified**
2019-09-23

**Preferred source**
How is publications metadata connected to ORCID records?

Works data on ORCID records

- **Total**
- **Added by organizations**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Added by organizations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>21,789,366</td>
<td>18,455,734</td>
</tr>
<tr>
<td>2018</td>
<td>31,132,068</td>
<td>26,184,074</td>
</tr>
<tr>
<td>2019</td>
<td>45,696,213</td>
<td>30,368,976</td>
</tr>
</tbody>
</table>

The chart shows a steady increase in the number of works added to ORCID records from 2017 to 2019.
How is peer review metadata connected to ORCID records?

Peer review data on ORCID records

Year

Number of peer reviews added

2017 128,432
2018 459,110
2019 946,614
How is funding data connected to ORCID records?

Funding data on ORCID records

- **Total**
- **Added by organizations**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Added by organizations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>285,908</td>
<td>95,995</td>
</tr>
<tr>
<td>2018</td>
<td>443,274</td>
<td>142,729</td>
</tr>
<tr>
<td>2019</td>
<td>671,293</td>
<td>230,316</td>
</tr>
</tbody>
</table>
## Progress to date

<table>
<thead>
<tr>
<th>Funder - Country</th>
<th>Require iDs</th>
<th>Collect iDs</th>
<th>Import data from ORCID</th>
<th>Connect data to ORCID</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC (Australia)</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check] Research outputs into their RMS</td>
<td></td>
</tr>
<tr>
<td>DFG (Germany)</td>
<td>![Check]</td>
<td>![Check] Elan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FCT (Portugal)</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check] Publications</td>
<td>![Check] Publications &amp; funding</td>
</tr>
<tr>
<td>NIH (USA)</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check] SciENv &amp; PARDI</td>
<td></td>
</tr>
<tr>
<td>NIHR (UK)</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check] Funding</td>
</tr>
<tr>
<td>Wellcome Trust (UK)</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check] Grants Publications &amp; peer reviews (auto update)</td>
</tr>
<tr>
<td>NRF (South Africa)</td>
<td>![Check]</td>
<td>![Check]</td>
<td>![Check]</td>
<td></td>
</tr>
</tbody>
</table>
Progress to date

Publishers
75 member orgs
105 active integrations
Enabled systems:
- Editorial Manager/ProduXion Manager
- Open Journal Systems
- ScholarOne Manuscripts
- eJournalPress
- ReView

Crossref & Publons auto update

Funders
30 member orgs
25 active integrations
Funding S&L wizard (Überwizard)
Enabled systems:
- CC Grant Tracker
- Proposal Central
11 signatories Open Letter
Improving your workflows one PID at a time

- Register **PIDs** for grants and publications
- Integrate **ORCID** into your funding & publishing workflows
- Make your **PIDs** talk to each other
- **Share** your connections and data
- Invest in **open** infrastructure
Thank you!

For more information:
- ORBIT: Grant Application Data Field Survey Report
- ORCID and Grant DOIs
- ORBIT Funder Reporting Survey Report
- ORCID for Funding Organizations
- ORCID Funding Systems Workflow
- Grant Identifier Metadata Schema
- Organization iDs in practice
- Support ROR

✉️ g.mejias@orcid.org
🐦 @gabioshka

The ORCID team