ORCID: Technical Introduction for CINECA

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Today’s Presentation

- ORCID Registry – User Perspective
- ORCID API Overview
- Example API Applications
- Support/Getting Started Resources
Register

Via the ORCID Website
https://orcid.org/register

Or as part of an integration from another site

Register for an ORCID iD

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.

First name

Last name

Email

Password

Confirm password

Default privacy for new works

Notification Email

Send me notifications about changes to my ORCID Record.

Send me information about events ORCID is sponsoring and ORCID news.

Terms of Use

Privacy & Communications Preferences

7 October 2015
Welcome to the ORCID Registry!

• Verify your email address

• Here’s your ORCID iD:

Unique and persistent identifier

16-digit number

Expressed as HTTP URI

Compatible with ISO standard

Image credit: RaHuL Rodriguez, ccBY-SA 2.0, Oct 5, 2012
http://www.flickr.com/photos/92963434@N03/9162677329
The ORCID Record

Biographical data ➔

Education data ➔

Employment data ➔

Funding data ➔

Works data ➔
Biographical data

Add a Description

Include Multiple Names
The ORCID Record

Education & Employment data

Organization list from Ringgold (an ISNI Registrar)
The ORCID Record

Funding Data

ADD FUNDING

Funding type
- Grant

Funding subtype
- [Select]

Title of funded project
- [Input]

Description
- [Input]

Total funding amount
- [Input]

Start date
- [Input]

End date (enter projected end date if current)
- [Input]

Role
- [Select]

FUNDING AGENCY

Funding agency name
- [Select]

SEARCH & LINK WIZARDS

LINK FUNDING

UberWizard for ORCID

Import your awarded grants from funders around the world - all in one easy-to-use wizard provided by UberResearch. The integrated and continuously-updated UberResearch grant data includes grants from funding organizations worldwide such as the NIH and NSF in the United States, the UK Research Councils and Wellcome Trust in the UK, the Austrian Research Council, and over fifty others. Add your grants to your ORCID record with a few simple clicks from the UberWizard for ORCID and simplify your data life!
The ORCID Record

Works Data

- Classifications & metadata fields consistent w/CASRAI
- Translated titles & language support
- Structured citations in BibTeX

Search & Link Wizards:
- CrossRef Metadata Search
- Scopus
- Europe PubMed Central
- ResearcherID
- Modern Language Association
- DataCite Metadata Store
- ISNI number & ISBNs
- Ariti
- ANDS Registry

BibTeX import
Works Data

When the same work is added by multiple sources, the different versions are grouped together based on work identifier.

Source information is captured for all items added to the record.
Information in an ORCID Record has a privacy setting, which can be set by the account owner.

Account information (settings, permissions) is accessible by the account owner.
Technologies:

**REST** interact w/API via HTTP calls

**OAuth** “3-legged” authorization process

**XML/JSON** data exchange
Accessing the API:

1. **Client Credentials**
   Client ID/Client Secret (ORCID provides)

2. **Software tools capable of making/receiving HTTP calls** cURL, custom applications PHP, Python, Ruby, Java, etc

OR

2. **IRIS**
(provided by CINECA)
User: Follow a link to connect your system to their ORCID record (on the ORCID site, your website, or in an email message)

System: Send the user to the authorize URL

https://orcid.org/oauth/authorize?
client_id=0000-0003-2996-8827&
response_type=code&
scope=/orcid-profile/read-limited&
redirect_uri=https://yoursite.org
User: Authorizes the connection

Scopus to ORCID
has asked for the following access to your ORCID Record
Update your works
Read your ORCID record
Add works
Add a person identifier

Allow this permission until I revoke it.
You may revoke permissions on your account settings page. Unchecking this box will grant permission this time only.
This application will not be able to see your ORCID password, or other private info in your ORCID Record. Privacy Policy.

Deny  Authorize
The ORCID API

User: Directed to a page on your site that you choose (redirect URI)

System: Captures an authorization code appended to the redirect URI

https://yoursite.org/?code=RqiKo9

Connect your ORCID

Thank you Sofia Garcia! Your ORCID iD is now connect.

http://orcid.org/0000-0001-5727-2427
User: no action
System: Exchange the authorization code for an access token

curl -i -L -H 'Accept: application/json' --data 'client_id=0000-0002-9189-9909&client_secret=719b5c31-5681-4dce-a317-ff1bc1e94277&grant_type=authorization_code&code=GU0yrC&redirect_uri=https://developers.google.com/oauthplayground' 'https://api.qa.orcid.org/oauth/token' -k

HTTP/1.1 200 OK

{"access_token":"0a3ac65f-f8a7-4257-b605-aff0ab37d464","token_type":"bearer","refresh_token":"16d75d2d-bb75-4087-8a01-685e5f03faf8","expires_in":631138518,"scope":"/orcid-profile/read-limited","orcid":"0000-0003-4153-0078"}
User: no action

System: Use the access token to read from/write to the user’s ORCID record

HTTP/1.1 200 OK

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<orcid-message xmlns="http://www.orcid.org/ns/orcid">
  <message-version>1.2_rc3</message-version>
  <orcid-profile type="user">
    <orcid-identifier>
      <uri>http://qa.orcid.org/0000-0003-4153-0078</uri>
      <path>0000-0003-4153-0078</path>
      <host>qa.orcid.org</host>
    </orcid-identifier>
    ...
  </orcid-profile>
</orcid-message>
The ORCID record is updated

Works  Link Works  Add Work Manually

test 2011-01

C9 H17 N3 O4,0.5(H2 O1) 2007
A national agreement was signed by Cineca with ORCID to provide Membership Premium API to Higher Education and Research organizations

- Any HE institution based in Italy and not-for-profit research Institutions can join the consortium for free in 2015. Fee quotes for the following years will be communicated by the end of the year depending on number of subscriptions and availability of external contributions

- IRIS users that want to benefit of ORCID in their system have to subscribe a dedicated module IRIS OI. Membership fees for IRIS OI users will not be charged

- Non-IRIS users can subscribe the Cineca ORCID Hub (HOI) service to benefit of additional functionalities & services. Membership fees for HOI users will not be charged
It is an additional service provided by Cineca

- It provides REST webservice to integrate the claim/association process between all the applications connected with the Hub including “Sito docente – loginMIUR”. This webservice replaces the OAuth process in standard ORCID integration.

- It provides immediate services to benefit of the premium ORCID API as the download of an xls report with Tax Number, ORCID ID & grant access token for all your researcher.

- Download and update of information in ORCID for your researchers using xls files will be available by the end of the current year.
The additional module IRIS OI provides out-of-box integration with ORCID using the Membership Premium API

- Integrated claim and creation process of ORCID profiles with the Italian ORCID Hub
- [end 2015] Automatic synchronization of biography, publications and projects data from IRIS to ORCID
- [I Q. 2016] Pull information from ORCID in IRIS
Steps to build an integration

1. Get credentials for the ORCID Sandbox sandbox.orcid.org
2. Set up an integration on the sandbox
3. Work with ORCID staff to test your sandbox integration
4. Launch your integration in the live ORCID Registry
API functions

Search

Search for researchers by name, organization, DOI or other

http://members.orcid.org/api/tutorial-searching-api-12-and-earlier

Webhooks

Register to get a notification anytime a record you are watching is updated

http://members.orcid.org/api/tutorial-webhooks
Automatic updates from CrossRef

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Peer Review

Review activity for ORCID2(6)
• Documentation & Examples
  http://members.orcid.org

• ORCID API Users Google Group

• Cineca Italian Support
  • Help Desk IRIS (https://customerportal.cineca.it) / Assistenza LoginMIUR (assistenzamiur@cineca.it) / orcid@cineca.it (for institutional and contractual inquiries)
  • FAQ - https://wiki.u-gov.it/confluence/display/UGOVHELP/FAQ+ORCID
  • Video Tutorials - http://streaming.cineca.it/ORCID/