



# ORCID, DSpace and the KAUST Approach

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EIFL LIBSENSE “ORCID – repository integrations” community call

# ORCID Support in DSpace



## ➤ DSpace 5 and 6

- ORCID integration in author lookup
  - During new item submission
  - In the edit item metadata interface for administrators
- Add ORCID to existing items via batch CSV import
- See: <https://wiki.lyrasis.org/display/DSDOC6x/ORCID+Integration>

## ➤ DSpace 7

- Currently in development (7.0)
- No major ORCID related improvements planned
- See: <https://wiki.lyrasis.org/display/DSPACE/DSpace+Release+7.0+Status>

# ORCID Support in DSpace-CRIS



- Authentication
  - Profile claiming
  - Creation of a local researcher profile
- Submission lookup
- Synchronization
  - from ORCID to DSpace-CRIS
  - from DSpace-CRIS to ORCID
    - Mapping local properties to ORCID
- ORCID as a local profile URL

See: <https://wiki.lyrasis.org/display/DSPACECRIS/ORCID+Integration>

# ORCID in the KAUST Repository

## – Customizations to DSpace



- Display of the ORCID iD icon on the item page
- Advanced search on ORCID iD
- View and edit ORCID iDs in the REST API
- Update name connected to authority record through the REST API
- Developed by Atmire
- Released as expanded-ORCID-support patch for DSpace 5 and 6
- See: <https://atmire.github.io/expanded-ORCID-support>

# The KAUST Institutional ORCID Integration (IOI)

## – Separate local application



- Intermediate service connected to DSpace and ORCID APIs
- Written in PHP
- Runs on a LAMP server
- Uses LDAP authentication for local users
- Released at: <https://github.com/kaust-library/ioi>

# IOI Functionality



- Students and researchers can:

- identify their ORCID iD to the institution
- grant permissions to the application
- select works, employment and education information to be transferred to their ORCID record
- update or remove permissions granted to the application
- remove information previously transferred to their ORCID record
- delink their ORCID from previously linked works in DSpace

# IOI Functionality



## - Library staff can:

- upload student and researcher information
- send invitation emails to select groups of people
- track response rates and send reminders
- correct name errors linked to authority keys in DSpace
- view a dashboard showing permissions granted and information transferred

## ● Other university systems can:

- retrieve an ORCID iD or a list of works based on a person's institutional ID number

# IOI Usage Scenarios



	Scenario 1: ORCID Member Institution with DSpace Repository	Scenario 2: Non-ORCID Member Institution with DSpace Repository	Scenario 3: ORCID Member Institution without DSpace Repository
Collect authenticated ORCID iDs?	Yes	Yes	Yes
Add ORCID iDs to item records in DSpace?	Yes	Yes	No
Add works to ORCID records?	Yes	No	No
Add institutional affiliation to ORCID records?	Yes	No	Yes

# IOI – Scenario 2 Setup



## 1. Get Public API credentials from ORCID

### Developer tools

NOTE: This section is intended for software developers who plan to incorporate ORCID IDs into their systems. If you arrive here, you can go back to [your ORCID record](#).

**You have enabled the public API**

See the [Public client terms of service](#).

#### Name of your application (Shown to users)

#### Your website URL

#### Description of your application

Add a description of your application, and explain why users should connect their ORCID identifier to your system. Note that the message you enter here is displayed to users when asking for their access permission. (Maximum 1000 characters)

#### Redirect URIs

[+ Add another redirect URI](#)

See: <https://orcid.org/developer-tools>, but first use <https://sandbox.orcid.org/developer-tools>

# IOI – Scenario 2 Setup



## 2. Configure IOI in config/constants.php file

```
//ORCID connection details
define('ORCID_MEMBER', false); // change to false if ORCID client credentials are for the public API only

define('ORCID_PRODUCTION', false); // change to true when ready to leave the sandbox
```

```
//sandbox credentials
define('OAUTH_CLIENT_ID', '');
define('OAUTH_CLIENT_SECRET', '');

//sandbox endpoints
define('OAUTH_REDIRECT_URI', ''); // URL of the main user script, public/orcid.php
define('OAUTH_AUTHORIZATION_URL', 'https://sandbox.orcid.org/oauth/authorize');
define('OAUTH_TOKEN_URL', 'https://sandbox.orcid.org/oauth/token');
define('ORCID_API_URL', 'https://api.sandbox.orcid.org/v3.0/');
define('PUBLIC_API_URL', 'https://pub.sandbox.orcid.org/v3.0/');
define('ORCID_LINK_BASE_URL', 'https://sandbox.orcid.org/');
```

See: <https://orcid.org/developer-tools>, but first use <https://sandbox.orcid.org/developer-tools>

# IOI User Interface – Scenario 2 Example



## ORCID at IOITU - Create or Identify your ORCID ID

### Manage Permissions

Please select the permissions you would like to grant to the IOITU Repository from the list below before connecting to the ORCID system.

**Create a new ORCID ID or identify an existing one (required).**

You can change these permissions at any time in the Accounts Settings section of your ORCID record or by returning to this page.

 Register or connect your ORCID iD

# IOI User Interface – Scenario 2 Example



## ORCID at KAUST - Manage Permissions

### Publications

	Title	Journal	Type	Publication Date	URL
<input checked="" type="checkbox"/>	Curating Local Bird Observation Records while Leveraging Global Citizen Science Platforms for Biodiversity		Presentation	2020-02-18	<a href="http://hdl.handle.net/10754/669145">http://hdl.handle.net/10754/669145</a>
<input checked="" type="checkbox"/>	kaust-library/DoiMinter: This release includes a license and metadata for authors		Software	2020-02-26	<a href="http://hdl.handle.net/10754/665083">http://hdl.handle.net/10754/665083</a>

# IOI User Interface – Scenario 2 Example



## ORCID at KAUST - Manage Permissions

Thank you!

 Your ORCID is <https://orcid.org/0000-0002-2373-2007>.

Want to do more with your ORCID ID? Bringing your publication history from other systems, such as [Europe PMC](#), [Scopus](#), [CrossRef](#) and [ResearcherID](#), into your ORCID record is a good start. By including your ORCID ID in your submissions to publishers in the future your new publications can then also directly flow into your ORCID record.

Other systems can help bring together other pieces of your research. For example, [ÜberResearch](#) provides a useful tool for connecting your grant funding history to your ORCID ID, and [The Lens](#) allows you to record your inventor relationship to patents.

[Main Page](#)

# IOI User Interface – Scenario 2 Example



## ORCID at IOITU - Manage Permissions

Your ORCID ID has been identified as:

 <https://sandbox.orcid.org/0000-0002-8742-664X>

### [Manage Permissions](#)

You have already established the connection between the IOITU Repository and your ORCID record.

The permissions you have granted to the IOITU Repository are checked below.

**Create a new ORCID ID or identify an existing one (required).**

You can change these permissions at any time in the Accounts Settings section of your ORCID record or by returning to this page.

 [Register or connect your ORCID iD](#)

### [History](#)

# IOI User Interface – Scenario 2 Example



## ORCID at IOITU - Manage Permissions

Your ORCID ID has been identified as:

 <https://sandbox.orcid.org/0000-0002-8742-664X>

[Manage Permissions](#)

[History](#)

### Publications

- 2 total work(s) in the IOITU repository matching your name as an author. [See the full search results »](#)
- 2 work(s) in the IOITU repository linked to your ORCID iD. [See the full search results »](#)
- 0 work(s) in the IOITU repository matching your name as an author were ignored (you chose not to link them to your ORCID iD).

 [Review and edit publications linked to your ORCID iD in the IOITU repository](#)

# IOI User Interface – Scenario 2 Example



[DSpace Home](#) → [Search](#)

## Search

Search:

### Filters

Use filters to refine the search results.

#### Current Filters:

#### New Filters:

Showing 2 out of a total of 2 results. (0.044 seconds)

1



### [Test Item - plain name match](#)

Test, Test (with Test ORCID); Test, Test (without an ORCID); Grenz, Daryl M. (2021)

### Browse

[All of DSpace](#)  
[Communities & Collections](#)  
[By Issue Date](#)  
[Authors](#)  
[Titles](#)  
[Subjects](#)

### My Account

[Login](#)  
[Register](#)

### Discover

**Author**  
[Grenz, Daryl M. \(2\)](#)  
[Test, Test \(with Test ORCID\) \(1\)](#)  
[Test, Test \(without an ORCID\) \(1\)](#)

**Date Issued**  
[2019 \(1\)](#)  
[2021 \(1\)](#)

**Has File(s)**  
[No \(2\)](#)

# IOI User Interface – Scenario 2 Example



## DSpace Repository

[DSpace Home](#) → [Test Community](#) → [Test Collection](#) → [View Item](#)

### Test Item - plain name match

[Test, Test \(with Test ORCID\)](#)  ; [Test, Test \(without an ORCID\)](#); [Grenz, Daryl M.](#) 

**URI:** <http://...:8080/xmlui/handle/123456789/3>

**Date:** 2021

[Show full item record](#)

### Files in this item

Files	Size	Format	View
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There are no files associated with this item.

### Search DSpace

- Search DSpace  
 This Collection

[Advanced Search](#)

### Browse

All of DSpace  
[Communities & Collections](#)  
[By Issue Date](#)  
[Authors](#)  
[Titles](#)  
[Subjects](#)



# Questions?

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