

Apollo, Cambridge's Institutional Repository – ORCID integration

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'Unlocking the power of ORCID integrations',
31st October 2018



Outline

- Overview of systems at Cambridge
- ORCID integration
- Benefits & Issues
- Next steps

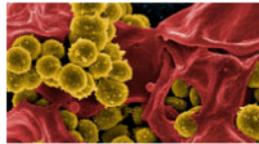
Background: Apollo

Apollo - University of Cambridge Repository

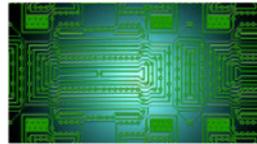
This repository holds the research output of members of the University of Cambridge. It is delivered and managed by the University Library's [Office of Scholarly Communication](#) team.



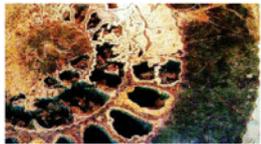
School of Arts and Humanities



School of Clinical Medicine



School of Technology



School of the Biological Sciences



School of the Humanities and Social Sciences



School of the Physical Sciences



Colleges



Other Communities

Share your
research

- Apollo holds the University's research outputs
- Available since 2003
- Runs on the DSpace repository platform (open source)

<https://www.repository.cam.ac.uk>

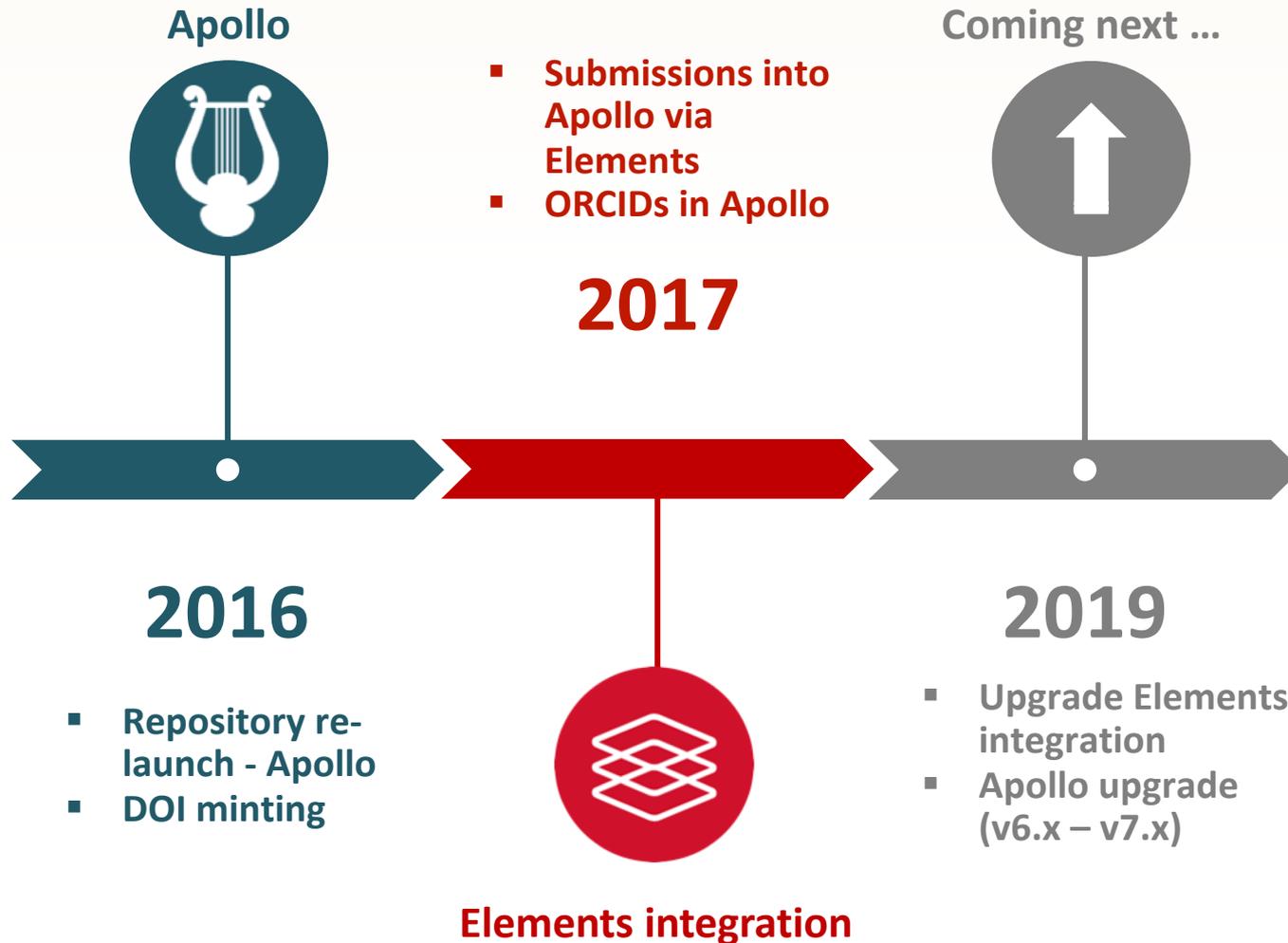
Background: Symplectic Elements

The screenshot displays the Elements v5.10 interface for a journal article. The article title is "Circulating concentrations of vitamin D in relation to pancreatic cancer risk in European populations." The authors listed are van Duijnhoven FJB, Jenab M, Hveem K, Siersema PD, Fedirko V, Duell EJ, Kampman E, Halfweg A, van Kranen HJ, and van den Ouweland JMW. The article is from the International Journal of Cancer, volume 142(6), pages 1189-1201, dated 15 Mar 2018. The interface shows various metrics: Altmetrics (2), RCR (0), Dimensions (0), EPMC (0), Scopus (0), WoS (0), SNIP (1.86), and SJR (2.85). The article is deposited in the Apollo repository, with the first deposit on 27 Mar 2018. The history section shows four actions: 1. Removed relationship of type "Funded by" from CORE GRANT_AETIOLOGY OF TYPE 2 DIABETES AND RELATED METABOLIC DISORDERS (Grant) by Hannah Dingwall on 08/06/2018; 2. Created OA policy exception Deposits by Hannah Dingwall on 31/05/2018; 3. Manual source added. Manual source set as preferred for Phillipa Grimstone. Reporting date(s) updated by Phillipa Grimstone on 29/03/2018; 4. Deposit to repository completed by Hannah Dingwall on 27/03/2018.

- Elements (v5.10)
- Internal system in use since 2010
- Linked data
 - ~ 6K active users
 - ~250K publications
 - ~14K grants
 - ~14K professional activities

<https://elements.admin.cam.ac.uk>

Repository upgrade/integration projects



Soft integration

Populating ORCID records with repository content via DataCite's 'auto-update' feature

- Why this approach?
 - ORCID repository module limitations
 - Using ORCID API v1
 - No write to / read from ORCID registry
 - Simply used to disambiguate author names using ORCID's public API

Integration points



Elements → Repository

- Read from ORCID via API v2
- Via Repository Tools 1 (RT1) connector
- Repository – CRIS metadata crosswalks

Repository → DataCite

- DOI registration module
- Custom DataCite crosswalks
 - Submit nameIdentifiers

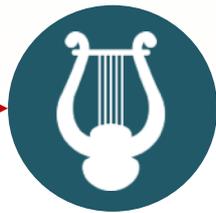
Populating ORCID records via DataCite

1. Authors' ORCID IDs

Via the repository feed



Elements



Apollo



3. ORCID Profiles

Works pushed by DataCite

2. DOI registration

name identifiers sent to DataCite
i.e. ORCID information



Read your ORCID record

- 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](#).



Trusted organizations

You can allow permission for your ORCID Record to be updated by
[Find out more](#)

Trusted organization	Approval date	Access type
DataCite https://www.datacite.org	2017-04-12	Add works

Some examples

The screenshot displays the Apollo digital repository interface. At the top left is the Apollo logo, featuring a lyre and the word 'Apollo'. To the right is a search bar with the text 'Search Apollo' and a magnifying glass icon, with a link to 'Advanced search' below it. The main content area is titled 'Effective strategies for managing your research data (advanced session)'. On the left side, there is a navigation menu with sections: 'Browse' (containing 'All of Apollo' with sub-items like 'Communities & Collections', 'Authors', 'Titles', 'Keywords', 'Type'), 'This Collection' (containing 'Authors', 'Titles', 'Keywords', 'Type'), and 'My Account' (containing 'My Exports', 'Logout', 'Profile', 'Submissions'). The main record details include: 'Effective strategies for managing your research data (advanced session)' with a small thumbnail image; 'View / Open Files' with a link to 'Published version (PDF, 10Mb)'; 'Authors' listing 'Cadwallader, Lauren' with an ORCID icon; 'Publication Date' as '2018-09-05'; 'Type' as 'Presentation'; 'Metadata' with a link to 'Show full item record'; 'Citation' as 'Cadwallader, L. (2018). *Effective strategies for managing your research data (advanced session)* [Presentation file]. <https://www.repository.cam.ac.uk/handle/1810/279682>'; 'Abstract' describing the course content; 'Keywords' as 'research data management'; 'Identifiers' with 'This record's DOI: <https://doi.org/10.17863/CAM.27050>'; and 'Rights' as 'Attribution 4.0 International' with a 'Licence URL: <http://creativecommons.org/licenses/by/4.0/>'.

Some examples

5,494,159 ORCID IDs and counting. [See more...](#)

Lauren Cadwallader

ORCID ID
<https://orcid.org/0000-0002-7571-3502>

Print view

> Employment (2)

> Education and qualifications (1)

Works (16 of 16) Sort

Effective strategies for managing your research data (advanced session)

Apollo - University of Cambridge Repository
2018-09-06 | other
DOI: [10.17863/CAM.27050](https://doi.org/10.17863/CAM.27050)

Source: DataCite Preferred source

Building a Research Data Management Training Community

Apollo - University of Cambridge Repository
2018-09-05 | other
DOI: [10.17863/CAM.26517](https://doi.org/10.17863/CAM.26517)

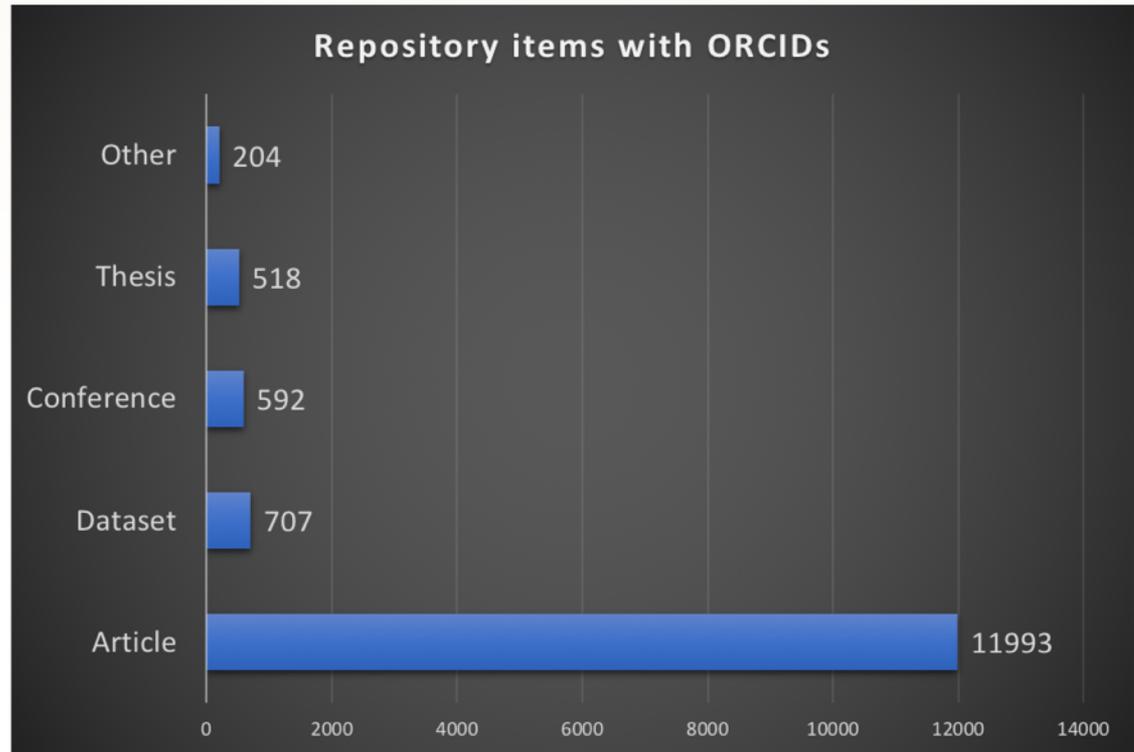
Source: DataCite Preferred source

Research data supporting "Doubts about How the Middle Horizon Collapsed (ca. A.D. 1000) and Other Insights from the Looted Cemeteries of the Lower Ica Valley, South Coast of Peru"

Apollo - University of Cambridge Repository
2018-05-10 | data-set
DOI: [10.17863/CAM.22272](https://doi.org/10.17863/CAM.22272)

Source: DataCite Preferred source

ORCID in Apollo – some numbers



- Top 3 records

[10.17863/CAM.25228](https://doi.org/10.17863/CAM.25228) (444 ORCIDs)

[10.17863/CAM.27831](https://doi.org/10.17863/CAM.27831) (377 ORCIDs)

[10.17863/CAM.17973](https://doi.org/10.17863/CAM.17973) (110 ORCIDs)

Benefits after integration

For researchers

- 'One-stop shop' – interact with a single system
- 'Auto-claim' publications via ORCID

Technical resources

- Soft integration
- Only custom metadata crosswalks required

Enhanced visibility of outputs in Apollo

- Richer publications metadata
- Populated ORCID records

Remaining challenges

- Duplicated entries in ORCID profiles
 - Publisher DOI versus Repository DOI
 - Potential fix for this: upgrade repository's DataCite crosswalks to correctly use 'alternate identifiers'
- Non-intuitive, multi-step process for researchers
 - Authorise their ORCID in the CRIS system (pull records)
 - Authorise DataCite in ORCID profile (push records)

What we would like to see next

- Full integration in the CRIS system
 - Easier process for granting rights
 - Ability to assert researchers affiliation within the ORCID registry
 - Write to / read from the ORCID registry

Thanks!