Partnering with researchers to support scholarly communication and research data

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Agenda

- Repository Development 2011 - 2018
- Partnering with Faculty in establishing repository services
- Current Repository status
- Planning for Research Data Management
Repository Development 2011 - 2018

- May 2011: Establishment Phase
- Dec 2012: Theses/Dissertation policy and workflow
- June 2014: KAUST OA policy
- Jan 2015: ORCID implementation
- July 2016: Repository Evaluation and faculty consultation
- Dec 2017: RDM interest group
Establishment Phase

- System implementation and customization
- Find an early adaptor among faculty
- Promoting and marketing of Repository services
- Develop and streamline the submission workflow.
- Thesis and Dissertation archiving Policy
- Thesis and Dissertation dissemination policy
1. Purpose

This policy is intended to give the University a means through which to make published scholarly articles authored by the University’s researchers available publicly, to the extent allowed by copyright. The purpose of the public archive is to disseminate widely the results of research conducted by the faculty and other University researchers.

2. Scope

This policy applies to all University faculty, research scientists, post-doctoral fellows, students and employees who authored or co-authored published scholarly articles while working at or enrolled in the University.

3. Policy

University faculty members, research scientists, post-doctoral fellows, students and employees (“University Research Author”) grant to the University a non-exclusive, irrevocable, worldwide license to exercise any and all rights under copyright relating to each of his or her scholarly research articles, in any medium, provided that the articles are not sold for profit, and to authorize others to do the same.

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Each faculty member or researcher will provide an electronic copy of the author’s final version of each article no later than the date of its publication at no charge in accordance with the guidelines published from time to time by the Office of the Vice President for Academic Affairs.

The Office of the Vice President for Academic Affairs reserves the right to require authors to comply with this policy and with any copyright obligations in a manner consistent for the faculty as possible.

The Office of the Vice President for Academic Affairs or its delegate will be responsible for interpreting this policy, resolving disputes concerning its interpretation and application, and recommending changes to the Academic Council from time to time.

The KAUST Library will review this policy after three years.
ORCID implementation

- Resolve name ambiguity and affiliation information
- Maintain up-to-date publication lists in author profile, by pushing work information from the KAUST repository into their ORCID profiles.
- Track researcher publication through their ORCID ID.
Current Repository status
Current KAUST Repository Content
As of April 2018 – 18330 records

Journal Articles: 9846 (3670, 1127, 5048)
Conference Papers: 2098 (756, 24, 1318)
KAUST Funded: 3200 (707, 217)
Theses/Dissertations: 926 (707, 217)

Datasets: 668
Presentations/Posters: 547
Patents: 345
Book Chapters: 153
Technical Reports: 41

Legend:
- Total number of records
- Open Access Records
- Embargoed Records
- Metadata Records Only
Repository Connections

KAUST Website Recent Publication Lists

Search Engines (Google Scholar, BASE, etc.)

PlumX (Metrics Portal)

Publication Tracking

Publication Sources (Scopus, WOS, Google Scholar, etc.)

Metrics Sources (Citations, News Mentions, Social Media, etc.)

Research Repository

Faculty Annual Activity Reporting

OSR Research Evaluation (PURE)

KAUST Website Recent Publication Lists

KAUST-ORCID Integration

Dataset DOI Minter

ORCID

Datacite

Legend

External Systems

KAUST Sites

Public Repository Service

Internal Repository Service
Item Record in repository

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...security. Unfortunately, few resources are available to facilitate its genetic improvement. Here we report the assembly of a high-quality, chromosome-scale reference genome sequence for quinoa, which was produced using single-molecule real-time sequencing in combination with optical, chromosome-contact and genetic maps. We also report the sequencing of two diploids from the ancestral gene pools of quinoa, which enables the identification of wild progenitors in quinoa, and provides genome resources for 30 other crops.

KAUST DEPARTMENT:
Biological and Environmental Sciences and Engineering (BESE) Division; Computational Biosciences Research Center (CBRC); Computer, Electrical and Mathematical Sciences and Engineering (CEMSE) Division; Red Sea Research Center (RSRC); Analytical Core Lab
• Includes the 5 categories of metrics
• Circles dynamically change size based on metrics in each category
ORCID implementation

1115 ORCID authors for KAUST Authors

- Autoupdate by Repository: 927
- Autoupdate Not Enabled: 188

CURRENT FACULTY

- With ORCID: 89%
- Without ORCID: 11%

554 Theses or Dissertations with ORCID for Student Author
59% of all articles published since start of policy now have full text.

Compare: MIT has had a similar policy since 2009 and has deposited 46% of all papers. See: https://libraries.mit.edu/news/milestones-access/38641

Compare: Of 20 institutions with similar policies, only 3 have deposit rates over 70%. See: https://arxiv.org/abs/1504.07261
Total Visits (All Time)

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Research Data services
Initial efforts to develop RDM

- Proposal for research Data Management – 2012
  Recommend
  - Policy and Guidelines
  - Project-focused Planning Process
  - Integrated Support and Infrastructure

- An overview of Research Data Management (RDM) services – 2016
  Recommend, to create two working groups:
  - First working group: the higher level tasks.
  - Second Working Group: Assessing the current status of RDM needs at KAUST and implement pilot projects
Define needs relevant to preserving and providing access to KAUST’s intellectual outputs

Identify improvements in repository services needed to meet these needs

Recommend changes in underlying repository platform needed as a basis for improved and expanded services
Faculty consultation

Part A
Researchers' perception of current repository services

- KAUST Open Access policy
- KAUST Repository
- Theses and Dissertations
- ORCID
- PlumX

Part B
Approach to managing and sharing research

- Planning research
- Active research / collaboration:
- Dissemination of research outputs
- Other types of research output they share / archive
- Incentives for data sharing
Library RDM interest group Framework

- Administration
- Technology
- Research Domain
- Education/training

Research Data Management
Activities and Outcomes

I. Exploring institutional models for RDM service delivery

II. Exploring institutional models for engaging researchers in RDM.

III. Exploring RDA (Research Data Alliance) recommendations relevant to KAUST research

IV. KAUST research community needs
Recommendations

- Develop an education resource

- Embedded within research activities, aiming towards building data management expertise for library as service providers, and for researchers through consultation on library expertise

- Recommendations related to Curation
Beginnings:

• KAUST publish article highlighting the work carried out in the CSIM lab – Jan 2018

• First contact made with Prof. Schuster offering curation of the “Cradle of Humankind” project as a collection – Feb 2018

• Meetings arranged with key stakeholders in the academic group established a wish to curate all their materials as collections – Feb 2018
The project:
• Create a collection for work carried out in the Qademah Fault
• Create a collection for work carried out in the Olduvai Gorge
• Create a collection for the lab to hold all other materials

Why now?:
• Both key professors leaving the university within the year – fear of loss of research
• Belief by both in the importance of the work and sharing it openly
The collection content:

- Articles
- Presentations
- Datasets – upwards of 8GB
- Images – photographs taken on site
- Videos – drone footage taken on site, lecture capture, and explanatory videos
- Field notes – scanned versions or handwritten notes taken on site
Why move from their website to the repository?

- Simplify structure
- Combine items
- Video streaming
- Papers, presentations, and data linked
- Potential for DOI registration
Roadmaps:

- Explore already existing repository material
- Map existing material to newly created collections
- Download of all materials sat on group website
- Upload datasets for Qademah Fault grouped as ‘Trips’
- Upload datasets for Olduvai Gorge grouped as ‘Trips’
- Upload any additional files found for records already in the repository
- Supplementary information added as PDF created based on website content
- Upload of remaining datasets as CSIM content
- Video and presentation files uploaded to corresponding collections

Finished collections
Benefits of working directly with the Academics

- Better understanding of what is of the most interest
- Contextual knowledge to aid metadata creation
- Discovery of items previously not considered valuable
- Direct access to original files
- Building of relationships for future projects and collaborations
- Ability to communicate new services directly with the department
Collaboration opportunities

- ORCID Consortia (ORCID)
- DOI minting services (Datacite)
- IRUS-MENA (JISC)
THANK YOU