

# International Perspective from Open Access Repositories

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IASSIST 2013



**Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world. Science is the highest personification of the nation because that nation will remain the first which carries the furthest the works of thought and intelligence.**

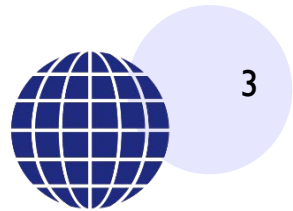
*Louis Pasteur, Free Lance of Science (1960) by René Jules Dubos, Ch. 3 "Pasteur in Action"*



# Introducing COAR

## **[Confederation of Open Access Repositories]**

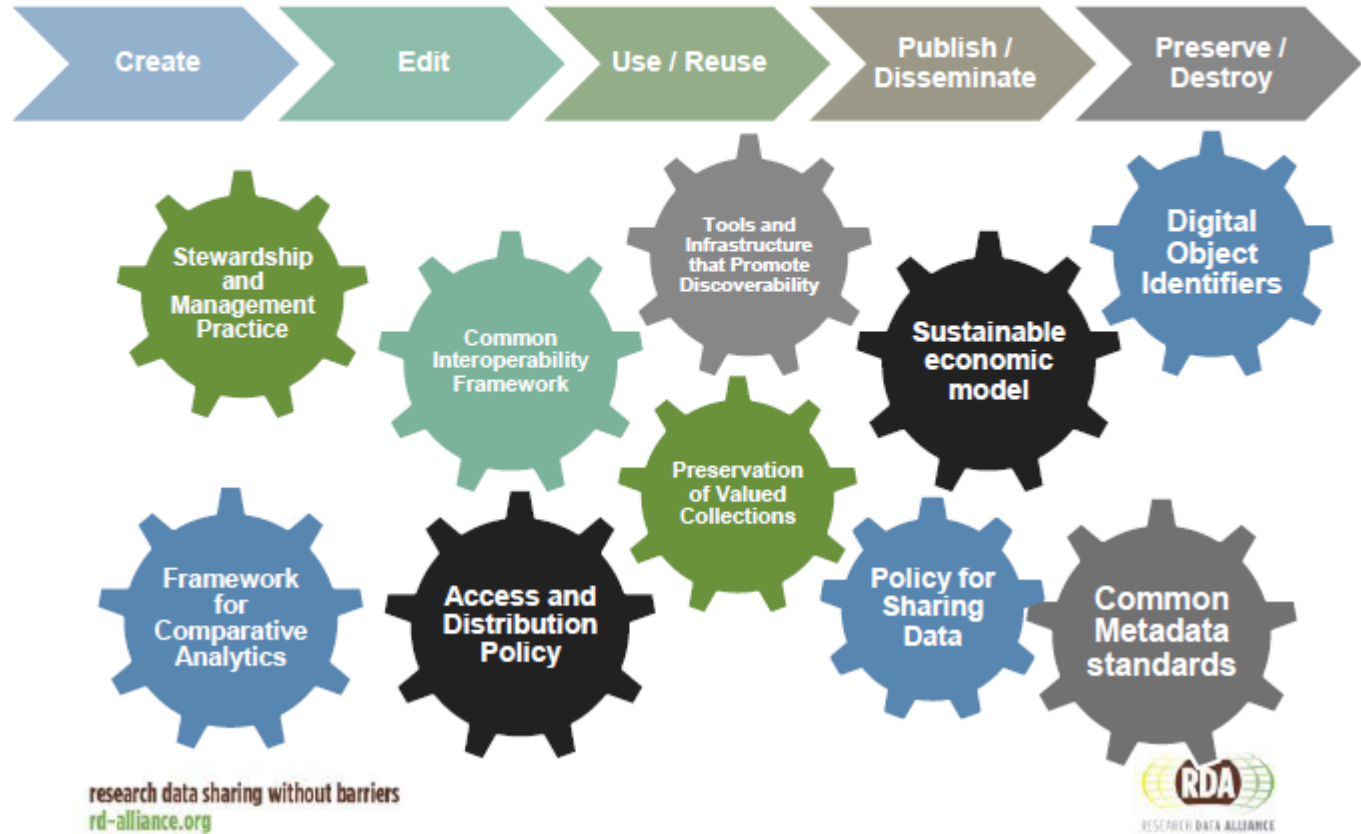
- **Mission: enhance greater visibility and application of research outputs**
- **Global network of OA repositories and Community of Practice**
- **Initiated in 10/2009, Ghent**
- **> 90 institutions from 24 countries**



# The Eco-System

**Common Infrastructure, Policy and Practice** Drives Data Sharing and Exchange throughout the Data Life Cycle

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**Francine Berman,**  
Chair of the Research Data Alliance / U.S



# COAR Governance & Activities

- Executive Board
- Working groups
  - Repository Content
  - Repository Interoperability
  - Support & Training
- Task forces & interest groups
  - Repository Observatory
  - OA agreements and Licenses, ...



# International Collaborative Support Structure

- COAR as an example of a globally acting organisation
  - Outreaching to research inst., universities, funding organizations
- Cornerstone to enable global research and information infrastructure
  - Partnerships with other initiatives, community networks, infrastructure providers



# Collaboration Examples

- OpenAIRE
- Research Data Alliance
- euroCRIS
- RedCLARA & CoLaBoRa
  - Reaching out to Latin America



# Involvement of COAR Members in related Research Data Initiatives

- E.g. re3data
  - Registry of Research Data Repositories
  - DFG funded, recently launched
- E.g. Databib
  - Catalogue of Research Data Repositories
  - For more information visit IASSIST session “Data Citation: In Principle and Practice”
- E.g. EDINA – national data centre at  
 University of Edinburgh





# COAR International Action

- RDA Interest Group:  
**“The Long Tail of Research Data”**
  - being launched by  
COAR, OpenAIRE and LIBER
  - improving the global interoperability of  
smaller datasets



# EC Research Data e-Infrastructures Framework

- Framework for Action in Horizon 2020
  - Domains of action for open, digital-driven science by global, interoperable data e-infrastructures
- Joint response from LIBER/COAR/OpenAIRE (03/2013)
  - Agrees on relevance of framework
  - Opportunities for libraries and repositories to support open science in more structured way.



# Driving Future Directions of Repositories

- Changing role of “the repository”
  - From *a store* to *a service*
  - Integrated within research infrastructures
  - Managing any kinds of digital assets
  - Support of RDM and long-term curation
  - Interoperability cornerstones are on
    - Organizational level
    - Legal level
    - Technical level



# COAR Interoperability Roadmap

Consultation stage about Data Issues:

- Metadata formats & granularity
- Metadata quality & data documentation
- Enhancing and contextualizing publications
- Data Citation
- De-Duplication & Versioning



# Target Scenario

- foster service integration between institutional repositories and data repositories / data archives
  - Location of appropriate data repositories
  - Registration of data-sets
    - e.g. as an institutional service
  - Contextualize research results
    - Data-publication linking



# Promotion of Guidelines for Data Provider Interoperation

- E.g. OpenAIRE guidelines
  - <http://guidelines.openaire.eu>
  - describing metadata, semantics, transfer protocols



**Research Publication  
Repositories**

**Data  
Repositories**

**CRIS**

# Linking Data and Publications



PUB

University | International | Information for

University from A-Z

[Back to previous page](#)

## Crystal structure of the Yersinia enterocolitica type III secretion chaperone SycD in complex with a peptide of the minor translocator YopD

Schreiner M, Niemann H (2012)

BMC Structural Biology 12(13).

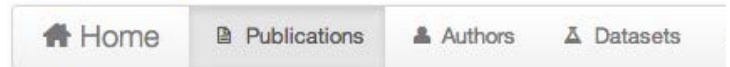
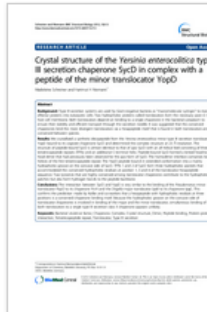
Download [1472-6807-12-13.niemann.pdf](#)

DOI [10.1186/1472-6807-12-13](#)

URN [urn:nbn:de:0070-pub-25200786](#)

*Journal Article | Published | Quality Controlled | English*

Mark



## Publications



[Prototypical Components of Honeybee Homing Flight Behavior Depend on](#)  
Elke Braun<sup>UNIBI</sup>, Laura Dittmar<sup>UNIBI</sup>, Norbert Bölddeker<sup>UNIBI</sup>, et al.

[Diversity of a complex centromeric satellite and molecular characterization of dispersed sequence families in sugar beet \(Beta vulgaris\)](#)  
Gerhard Menzel, Daryna Dechyeva, Torsten Wenke, et al.

MeSH Database Links Text-mined terms References 7 Citations Full text available

[Web2.0 paves new ways for collaborative and exploratory analysis of Chemical Compounds in Spectrometry Data](#)  
Christian Loyek, A. Bunkowski, W. Vautz, et al.

MeSH 1 Citation

Details

Research Data



Data provided by the [European Bioinformatics Institute \(EBI\)](#).

UniProt

[Yersinia enterocolitica Chaperone SycD](#)  
[Yersinia enterocolitica Protein YopD](#)

RCSB PDB

[crystal structure of the yersinia enterocolitica type iii secretion chaperone sycd in complex with a peptide of the translocator yopd](#)

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# Some Challenges to master

- Contextualization of
  - Project information
  - Publication
  - Dataset(s)
  - Author(s) and organisations
- Heterogeneity of researcher's practices
  - Data granularity
  - Data identifier and citation
  - Data documentation





# More Information

( <http://www.coar-repositories.org> )

- Does our institution operates a literature or data repository?
  - Find out how to become a COAR member:
    - <http://www.coar-repositories.org/about/join/become-a-member/>
- Thank you for your attention!

