

Data neophytes: first steps into the research data abyss

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What is a Data Librarian?

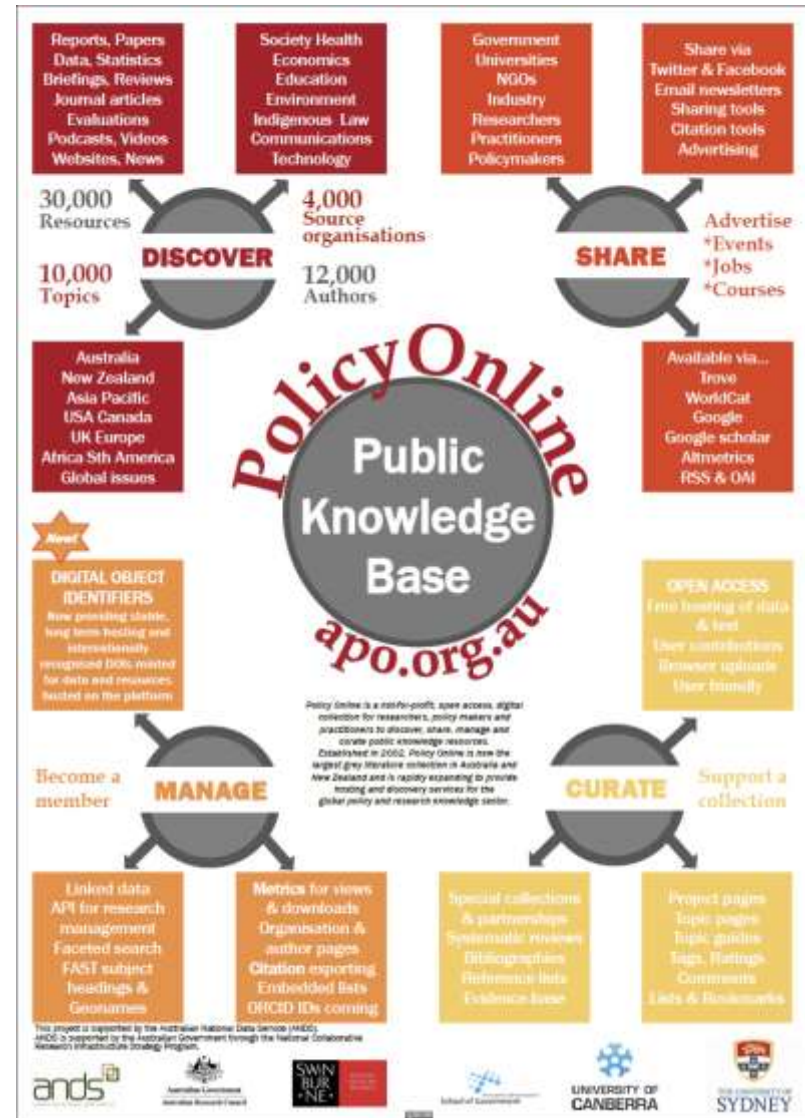


Skills of a Data Librarian

- Willingness to take on complex problems
- Ability to deal with ambiguity
- Understanding researchers' data management requirements
- Knowledge of current technologies and standards
- Willingness to deliver training and services
- Ability to collaborate in a team environment
- Ability to collaborate with stakeholders
- Excellent communication skills

Swinburne MODC

- Australian National Data Service (ANDS) grant
- Australian Policy Online (APO)



Request a DOI (Digital Object Identifier)

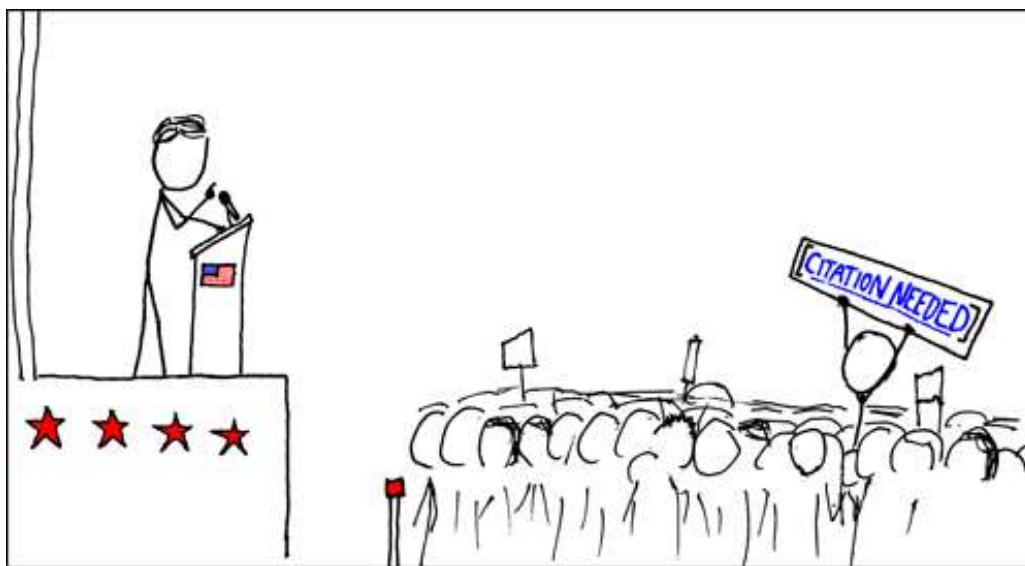
Established users

New users

apo.org.au/content/get-doi

Learnings

- Seek out the research champions
- Policies and procedures are essential
- Embrace lifelong learning



Wikipedian Protester | [CC-BY-NC](https://creativecommons.org/licenses/by-nc/4.0/) | xkcd.com/285/

Monash University MODC project

- Collaborate to make datasets freely available online
- Cooperate with the owners of Monash imaging instruments and platforms to implement open data policies
- Create a sustainable operational environment to enable improved capture, storage and enhanced discoverability

Researcher engagement

GOOD 😊

disseminate

promote

collaborate

citation

legacy

back-up

profile

benefit

opportunity

BAD 😞

share

compliance

policy

governance

must

legislation

form

metadata

should



Monash Technology Research Platforms Guidelines – Data Management

Researchers are encouraged to make research datasets publicly available . . .

EXCEPTIONS

- requirements of legislation
- ethical, contractual, or confidentiality obligations or
- the potential for further research or publications.



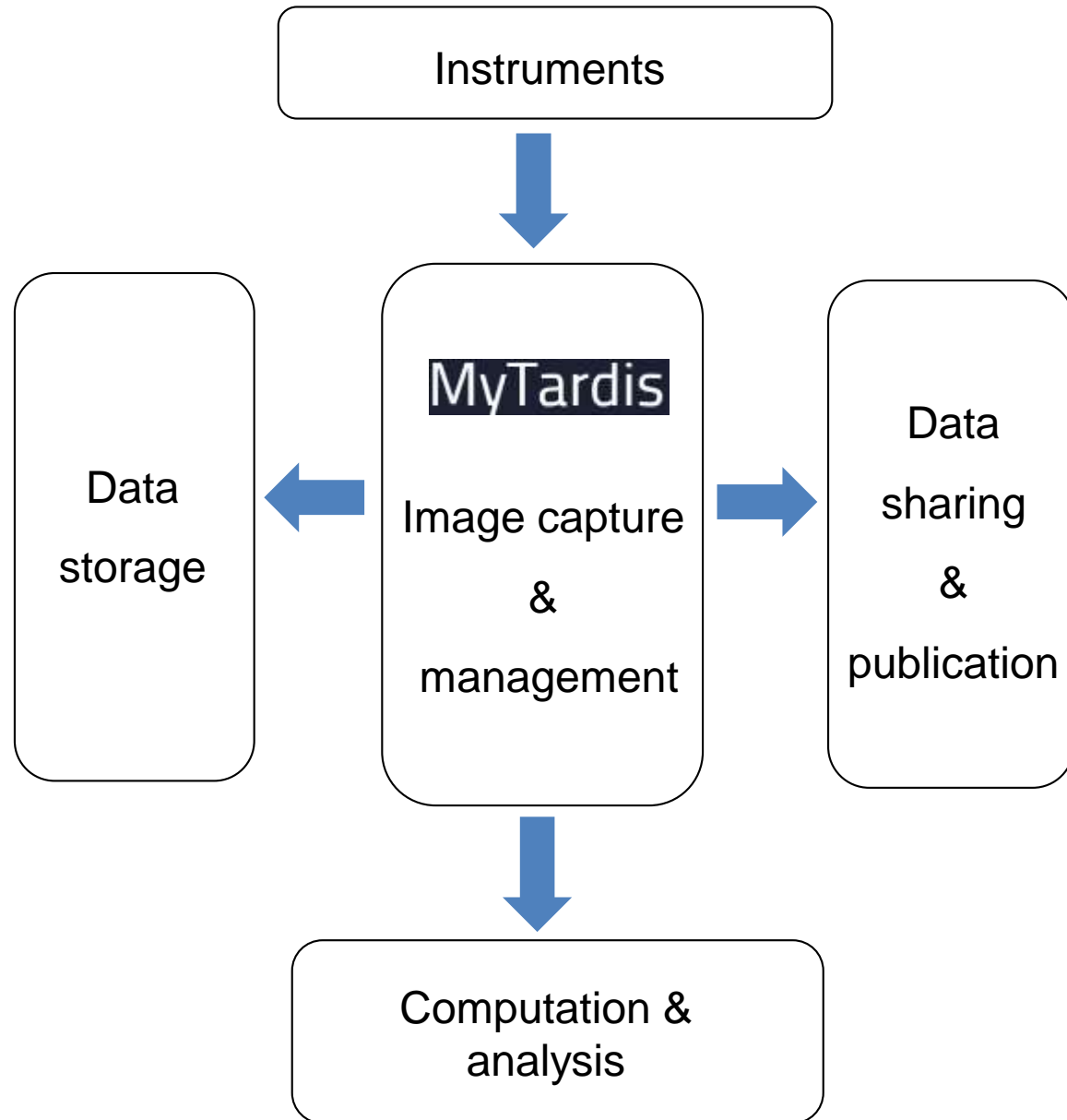
MyTardis

Researchers' concerns:

- data storage
- data management
- data publication

MODC project:

- safeguard diligently
- collaborate safely
- disseminate widely



Experiment

Defining the interaction of perforin with calcium and the phospholipid membrane

Daouda A.K. Traore, James C Whisstock

1 220 3.9 GB 25th March 2014 Public

Show Description

Following its secretion from cytotoxic lymphocytes into the immune synapse, perforin binds to target cell membranes through its Ca²⁺ -dependent C2 domain. Membrane-bound perforin then

Description Metadata

Institution Monash University, Australian Synchrotron

Licensing This experiment data is licensed under [Creative Commons Attribution 3.0 Australia \(CC BY 3.0\)](#).



Administrators [Steve Androulakis](#)

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1 Dataset

Download Selected

Just start typing to filter datasets based on descriptions

 [smax_mg_D4_3](#) **220**
Synchrotron MX Data **3.9 GB**



Imaging Locus



Jorbasa Februar 2012



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Technology research platforms

Monash partnered national research infrastructure

Monash technology capabilities

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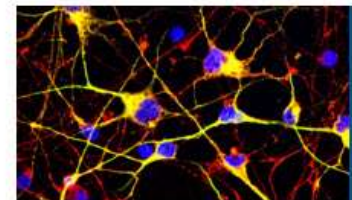
The Imaging Locus allows Monash research to be discoverable, and to display the research data, expertise, platforms and projects available through Monash University.

By combining the unique set of imaging instruments, world-leading capability in research data infrastructure and its existing world-class research strength, Monash University will become one of the most cited institutions in the world in imaging.

This locus of activities will result in critical research breakthroughs through the layering and superimposing of the various imaging modalities. It will also attract the best researchers and doctoral students to conduct research at Monash.

Imaging data search

Search



Purified neurons differentiated from human IPS cells generated from MS patient skin.

Dr Guizhi Sun, Australian Regenerative Medicine Institute (ARMI)

Monash University | Research | Research Infrastructure

Imaging Locus

Basic search | Advanced search | Help

protein

Refine results

Author/Creator
 Buckle AM (7)
 McGowan S (6)
 Law RHP (2)
 Ruby H.P. Law (1)
 Schmidberger MCJ (1)
 More options ▾

Date

From To
 Refine



Suggested new searches

Results 1 - 10 of 26 for Imaging Locus

Sorted by: Relevance ▾

1 2 3 ➔



research datasets

The Crystal Structure of the Transthyretin-like Protein from Salmonella dublin, a Prokaryote 5-Hydroxyisourate Hydrolase

2010

● Full text available

View It Details

Actions ▾

Title:	The Crystal Structure of the Transthyretin-like Protein from Salmonella dublin, a Prokaryote 5-Hydroxyisourate Hydrolase
Author:	Buckle AM; Law RHP; Whisstock JC
Subjects:	Biochemistry and Cell Biology ; Biological Sciences ; Diffraction ; Macromolecular Crystallography ; Medical Biochemistry and Metabolomics ; Medical and Health Sciences ; Protein Structure ;
Description:	Number of Datasets:2
Publisher:	Synchrotron Data Store (Tardis)
Language:	English
Notes:	Mode of access: Internet
Collection date:	26/02/2010
PDB Link:	http://www.rcsb.org/pdb/explore/explore.do?structureId=2GPZ

Links
 > [Link to Resource](#)
 > [Abstract](#)

Monash MODC learnings

- Learn the job as quickly as possible
- Learn the research culture
- Expect hurdles
- Presumed expertise . . . but
- You don't have to know everything!



Questions + resources

Case studies

- <http://www.dlib.org/dlib/november15/searle/11searle.html>

Self-directed learning programs

- <http://ands.org.au/23-things/index.html>

Networking

- <https://datamanagementgroup.wordpress.com/>

Reading

- <http://www.caul.edu.au/caul-programs/research/data-Management>
- <http://istl.org/15-fall/internet2.html>

Image references

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Image references

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