

Building a collaborative RDM community: tips and tricks

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6 September, RDN meeting

This session will cover:

- How **not** to start with RDM services
- The (forgotten?) benefits of data sharing
- Development of RDM services at Cambridge
- Democratic approach to RDM
- Researchers' reactions
- Reflections

How **not** to start with RDM



You must share to comply with funders' policies

OSC

You **must** do it

EPSRC do random checks to make sure data are shared in publications that acknowledge their funding

The logo for EPSRC (Engineering and Physical Sciences Research Council) features the acronym "EPSRC" in a bold, purple, sans-serif font. The text is centered and flanked by two horizontal teal lines, one above and one below the letters.

<https://www.epsrc.ac.uk/files/aboutus/standards/clarificationsofexpectationsresearchdatamanagement/>

Immediate reaction:

- This is not my priority
- Why would I do that?
- People will steal my results!
- Data management is a waste of time
- Nobody will understand my data
- It would take me 5 years to find all my data!



Let's re-think the approach...



- Benefits of sharing
- Support available
- Empowering researchers



Why would you want to share your research?

Sharing your data is 'A Good Thing'



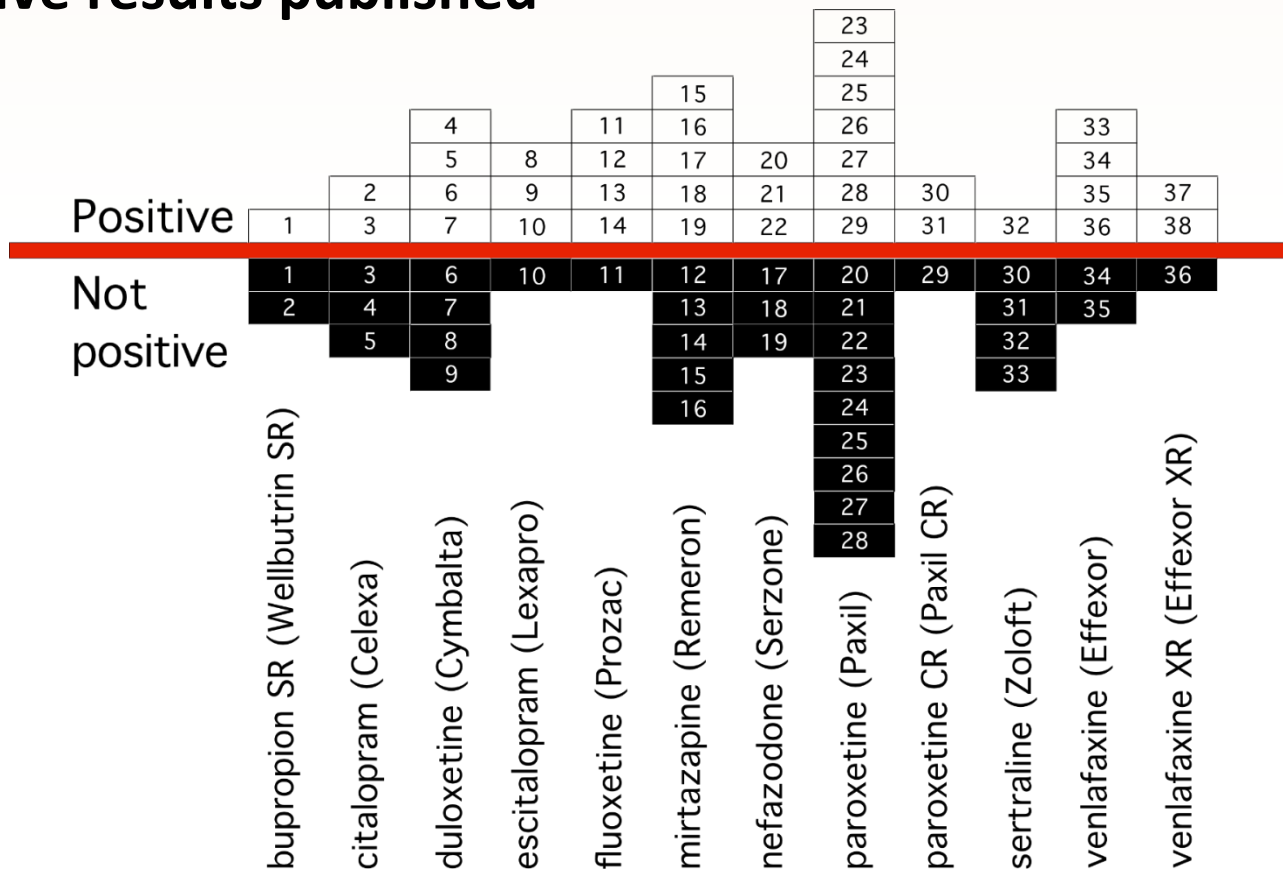
The forgotten benefits?

Some other very important reasons to share

Research relies on the principle that we share
our findings

*Ideas and results need to be shared to move
human knowledge forward*

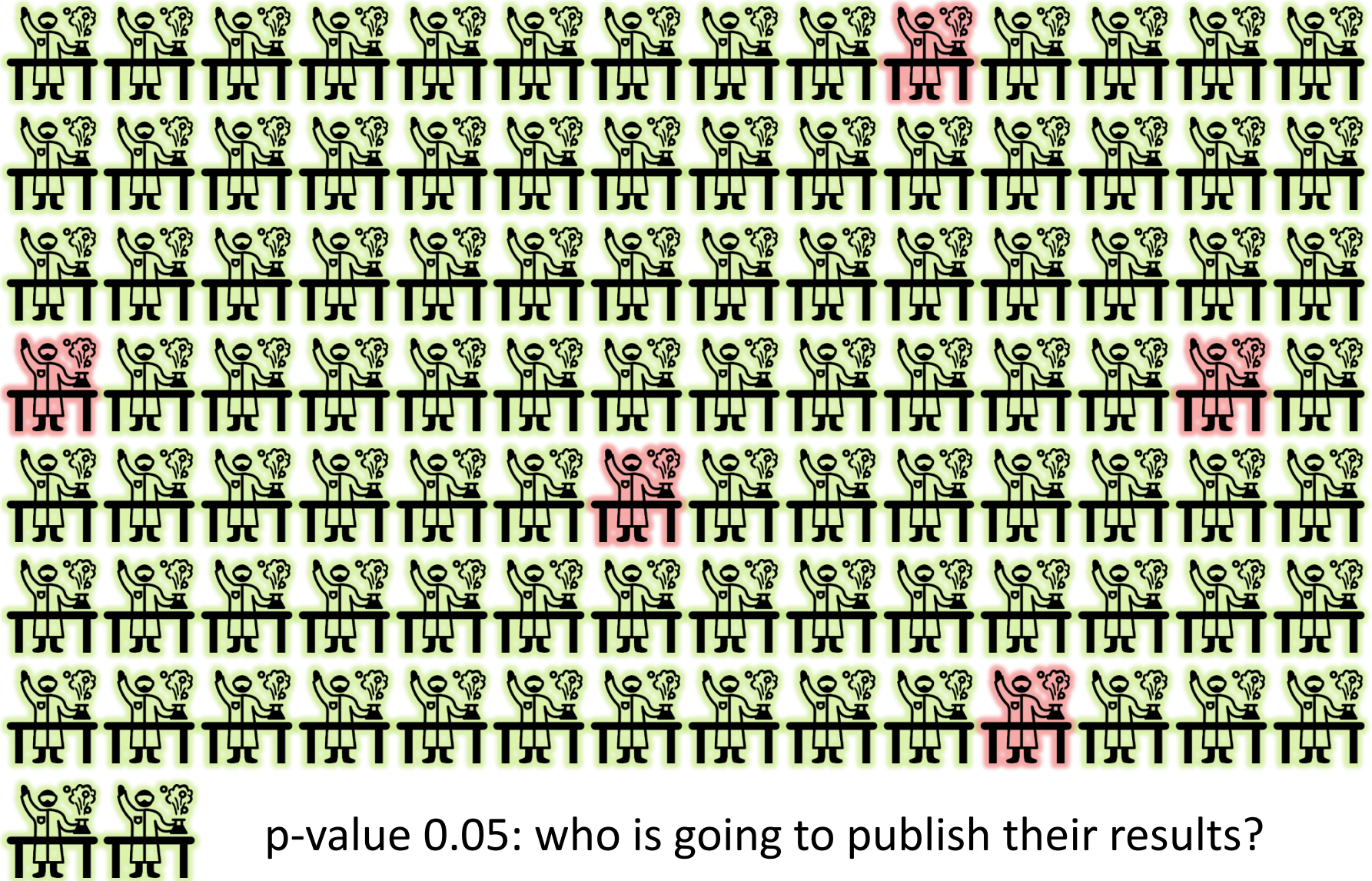
FDA record of clinical trials with 12 antidepressants: Only positive results published



From Dr Eric Turner:

[https://figshare.com/articles/Peer review After Results are Known Are we PARKing the Cart Before the Horse /3381379](https://figshare.com/articles/Peer_review_After_Results_are_Known_Are_we_PARKing_the_Cart_Before_the_Horse_/3381379)

Non-positive results need be shared not to waste time and resources



p-value 0.05: who is going to publish their results?



Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery

Ziyi Yu[†], Yu Zheng[§], Richard M. Parker[†], Yang Lan[§], Yuchao Wu[§], Roger J. Coulston[§], Jing Zhang[†], Oren A. Scherman^{*§}, and Chris Abell^{*†}

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Or





Additional data related to this publication is available at the University of Cambridge data repository (<https://www.repository.cam.ac.uk/handle/1810/248506>).

<http://dx.doi.org/10.1021/acsami.6b00661>

Data for article "Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery"



View / Open Files

-  [determination-critical-micelle-concentration-cmc-p1-micelles.zip](#) (application/zip, 227Kb)
-  [size-distribution-microdroplets.zip](#) (application/zip, 32Kb)
-  [tem-p1-micelles.zip](#) (application/zip, 11Mb)
-  [description-data.docx](#) (Microsoft Word, 18Kb)

Authors

Yu, Ziyi
Zheng, Yu

Citation

Yu, Z., Zheng, Y., Parker, R. M., Lan, Y., Wu, Y., Coulston, R. J., Zhang, J., et al. (2015). *Data for article "Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery"* [dataset]. <http://www.repository.cam.ac.uk/handle/1810/248506>

Description

Original or unprocessed data is provided in support of the article "Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery". The data is structured into three folders named: (1) Determination of Critical Micelle Concentration (CMC) of P1 micelles; (2) TEM of P1 micelles; and (3) Size distribution of microdroplets.

File formats and software

.pdf; .jpg; .xls; .png; .zip

Relationships

Publication Reference:

<http://dx.doi.org/10.1021/acsami.6b00661>

Sponsorship

<https://www.repository.cam.ac.uk/handle/1810/248506>

Two questions asked when discussing data sharing with researchers:

1. It would be useful if research data underpinning publications was available
2. I (/my group) regularly share research data underpinning publications



Adequate provisions need to be in place for researchers to do the right thing.



The screenshot shows the homepage of the Research Data Management website. At the top, the title "Research Data Management" is displayed in white text on a dark grey background. Below the title is a navigation menu with the following items: "Home", "Data Management Guide" (with a dropdown arrow), "Support" (with a dropdown arrow), "Data Repository" (with a dropdown arrow), "Research Data Policies" (with a dropdown arrow), "FAQ" (with a dropdown arrow), "News", and "Ev". The main content area has a teal background with a central white icon of a cloud and an upward-pointing arrow, with the text "UPLOAD YOUR DATA" below it. Surrounding this central icon are several smaller white icons representing different data types: a camera, a musical note, a video camera, a picture, a calendar, a pie chart, a bar chart, and a speaker. At the bottom of the page, a dark grey banner contains the text "Have a question? E-mail info@data.cam.ac.uk".

Data Management Consultancy Request Form



Please fill in the form below and we will get back to you as soon as possible to arrange a meeting.

www.data.cam.ac.uk/consultancy

+ guidance
+ example
plans

Funder's name *

Deadline for the submission of the grant proposal *

Your name *

Your e-mail address *

Please enter your e-mail address carefully – we will use it to get in touch with you.

Upload your draft plan *

Events

06

SEP

Research Data Management for Historians

Tuesday, 6 September, 2016 - 10:30
Loughborough Univeristy

14

SEP

Research Data Management Workshop

Wednesday, 14 September, 2016 - 10:30

21

SEP

Copyright: A Survival Guide for Librarians

Wednesday, 21 September, 2016 - 14:30
Room 142, Raised Faculty Building, Sidgwick Site, Cambridge, CB3 9EF

29

SEP

Data Dialogue: When Research Crosses Borders

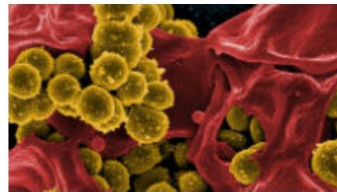
Thursday, 29 September, 2016 - 09:00
University of Oxford

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.



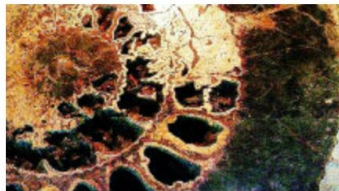
School of Arts and Humanities



School of Clinical Medicine



School of Technology



School of the Biological Sciences



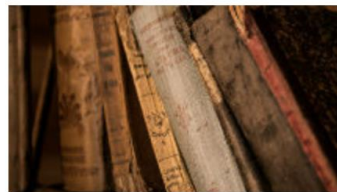
School of the Humanities and Social Sciences



School of the Physical Sciences



Colleges



Other Communities

Share your
research

Huge engagement programme:

- We have spoken with over 1,800 academics
- 75 individual information sessions about data sharing
- 37 different training events and workshops

Since January 2015

Various communication channels



January 2016 Research Data Management Newsletter

1. [Wellcome Trust and Cancer Research UK coming to Cambridge sharing](#)
2. [Workshop: Strategies for managing social media research data](#)
3. [Call for abstracts - are you using social media data in your research?](#)
4. [Call for access to the RCUK Research Data Facility](#)
5. [Summer School of Research Data Science - applications open](#)
6. [Advances in Data Modelling and Knowledge Representation - call for papers](#)
7. [Ethics of Big Data in Practice - Lent Term workshop series](#)
8. [Call for researchers working with data](#)




*Twitter: @CamOpenData
Over 900 followers*

Newsletter: over 1,700 subscribers

<http://www.data.cam.ac.uk/datanews>

Various communication channels



Share your data





✉ info@data.cam.ac.uk
🌐 www.data.cam.ac.uk
🐦 @CamOpenData

Research Data Services:

- ↳ Data repository
- ↳ Funding policy information
- ↳ Data management plan assistance



 OPEN DATA
www.data.cam.ac.uk



UNIVERSITY OF
CAMBRIDGE

www.lib.cam.ac.uk/librarians/oa/oa_promo.html

DEMOCRATIC approach to RDM

Empowering researchers and staff members



1. What should research data management support look like at the University of Cambridge?

[Quick questionnaire](#)

Please help us shape research data management support available at the University of Cambridge. We have prepared a short questionnaire, and we would greatly appreciate your feedback. The questionnaire takes 1 min to fill in.

Never dismiss questions – be open for discussion

OSC

“Open Data – moving science forward or a waste of money & time?”



Video:

<https://upload.sms.cam.ac.uk/media/2113537>

<https://storify.com/CamOpenData/odpd15>



Open Data – moving science forward or a waste of money & time?

© November 27, 2015 Uncategorized Blog posts, CERN, compliance, data, funders, Medical Research Council, open data, policy, publishing, research, research data management, reward, social media

On the 4 November the Research Data Facility at Cambridge University invited some

<https://unlockingresearch.blog.lib.cam.ac.uk/?p=392>

As seen on [#scoop.it](#)

Open Data Panel Discussion

Open discussion on new funders' requirements for sharing research data, whether Open Science and sharing research data can benefit society, and help move science forward? and if Open Data is a waste of time and money?

by [Open Data Cambridge](#) a month ago 512 Views.

Getting excited for the event.

[Jenny Molloy](#) [@jenny_molloy](#) [Follow](#)

Looking forward to #odpd15 despite risking open data overload after #ODISummit yesterday! Already some great points [twitter.com/CamOpenData/st...](#)
7:45 PM - 4 Nov 2015

[Stephanie O](#) [@stefdoesphy...](#) [Follow](#)

@CamOpenData #odpd15
9:01 PM - 4 Nov 2015

The day is finally here. Peter Murray-Rust gets us started about What [#opendata](#) should be.

[Open Data Ca...](#) [@CamOpenData](#) [Follow](#)

What #opendata should be? @petermurrayrust started the discussion at #odpd15 @CamOpenData
7:41 PM - 4 Nov 2015

Could Open Research benefit Cambridge University researchers?

🕒 August 3, 2016 📁 Uncategorized 🔖 open access, Open Research, pre-prints, reproducibility, research data management

This blog is part of the recent [series about Open Research](#) and reports on a discussion with Cambridge researchers held on 8 June 2016 in the Department of Engineering. Extended notes from the meeting and slides [are available at the Cambridge University Research Repository](#). This report is written by Lauren Cadwallader, Joanna Jasiewicz and Marta Teperek (listed alphabetically by surname).

At the Office of Scholarly Communication we have been thinking for a while about **Open Research ideas** and about moving beyond mere compliance with funders' policies on Open Access and research data sharing. We thought that the time has come to ask our researchers what they thought about opening up the research process and sharing more: not only publications and research data, but also protocols, methods, source code, theses and all the other elements of research. Would they consider this beneficial?

Working together with researchers – democratic approach to problem-solving

<https://unlockingresearch.blog.lib.cam.ac.uk/?p=817>

Become a member of the Research Data Management Project Group

Who can apply to be a member of the Group?

- Any member of the University of Cambridge with interest in research data management and sharing who is willing to work together towards improving RDM practices at the University



Action plan development: Working Group Report

Working Group name:

Members of the Group:

Leader of the Group:

Description of issue(s)

Quick win(s)

Possible quick win(s)

The quick win(s) will achieve...

In order to deliver this quick win(s) we will require...

Long term solution

What is the long term solution?

In order to...

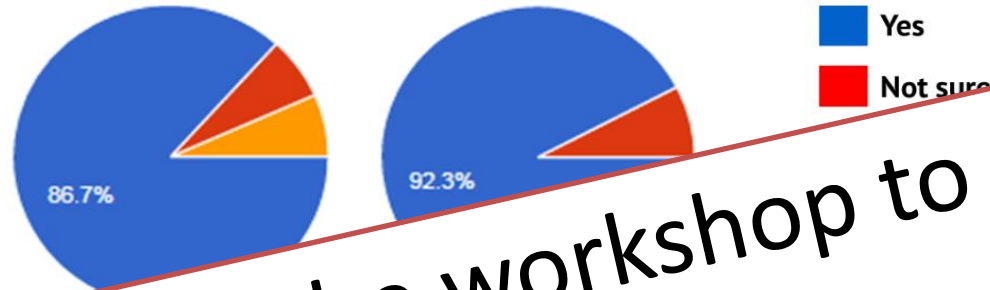
Did it work?

Researchers' feedback on our services



- Researchers used to panic and share their data at the last minute (compliance requirements)
- More and more frequently:
 - Data shared before publication – access for peer-reviewers
 - Placeholder requests for data in preparation
 - Richer metadata (new fields needed!)
- Data sharing seems to be more and more embedded in the publication process

Do you think this Research Data Management workshop is essential for first year PhD students?



Requests for the workshop to be compulsory

An

“I thought this was **the best workshop I've attended so far**. Very professional delivery, good balance of participant interaction.”

“**Course should be mandatory** and done at the beginning of the year. It was excellent - thank you. **I wish I did it at the beginning.**”

Informed discussions about barriers to sharing

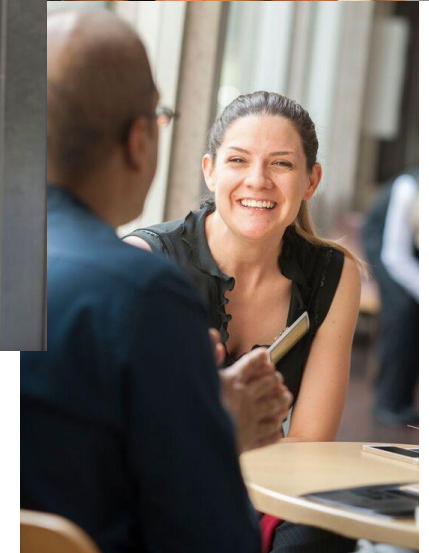
OSC



The Data Dialogue. Time to Share: Navigating Boundaries & Benefits

July 28 @ 9:30 am - 4:30 pm

- 20 case study abstracts from researchers
- 80 attendees: researchers and data managers



<http://www.ses.ac.uk/2016/08/31/guest-post-power-open-data/>

Call for RDM Champions

Would you like to become a Research Data Management Champion?

Are you interested in becoming a Research Data Management Champion for your local research community at the University of Cambridge?

If so, please in the form below.

<http://bit.ly/RDMChampions>

Collaboration and open communication:
key to succeed with RDM provisions



Thank you

Questions: mt446@cam.ac.uk

www.data.cam.ac.uk



@martateperek

@CamOpenData

<https://unlockingresearch.blog.lib.cam.ac.uk/>