

Sharing your research

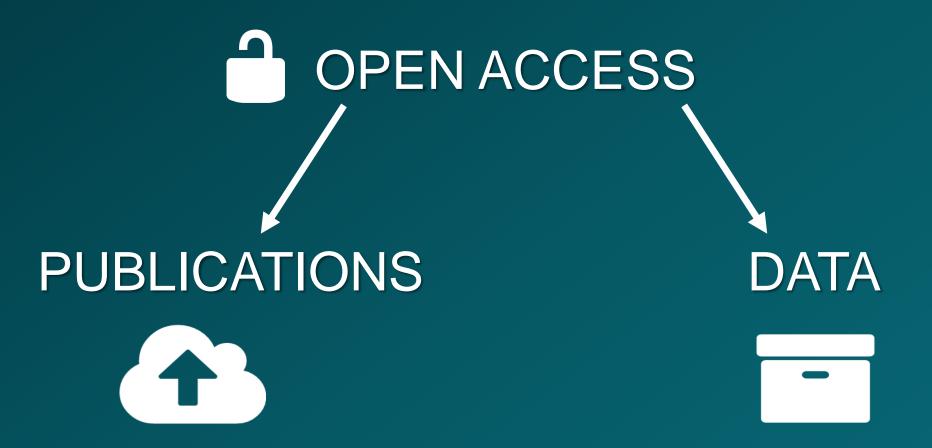
Lauren Cadwallader and Marta Teperek Office of Scholarly Communication Cambridge University Library

19/04/2016

You will receive these slides











Open Access to publications policies





welcometrust





CANCER RESEARCH UK



Established by the European Commission

To comply...

Publications must be freely available from a repository within a certain timeframe.

Gold open access

The version of record is open access at the time of publication.
 Usually costs money.

Green open access

 A version of the work, typically the author accepted manuscript (AAM), is made available in an open access repository. Often has to be embargoed. No charges are payable.



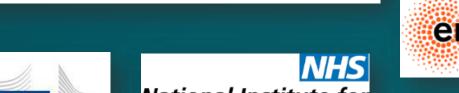
Research data policies

"Publicly funded research data are a public good (...), which should be made openly available with as few restrictions as possible..."

























Some funders actually check it...



Random checks on all publications from 1 May 2015 that acknowledge EPSRC <u>+</u> sanctions for not sharing



Some funders actually check it...





As long as we have your paper within 3 months of acceptance we can make it compliant.

If you paper is not compliant then it won't be eligible for the next REF.



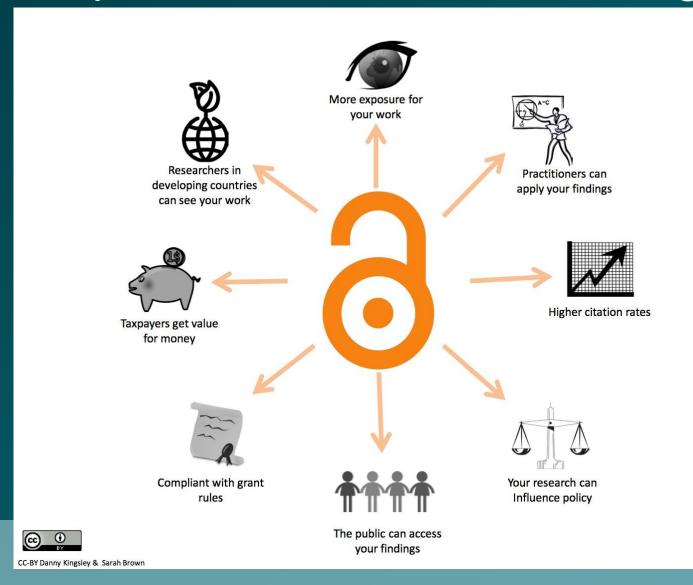
But...

... let's forget about the policies.

Why would you want to share?



Open Access is 'A Good Thing'





JNIVERSITY OF

CAMBRIDGE

Science relies on the principle that we share our findings

Ideas and findings need to be shared to move science forward



Cambridge support for Open Access and data management







Research lifecycle

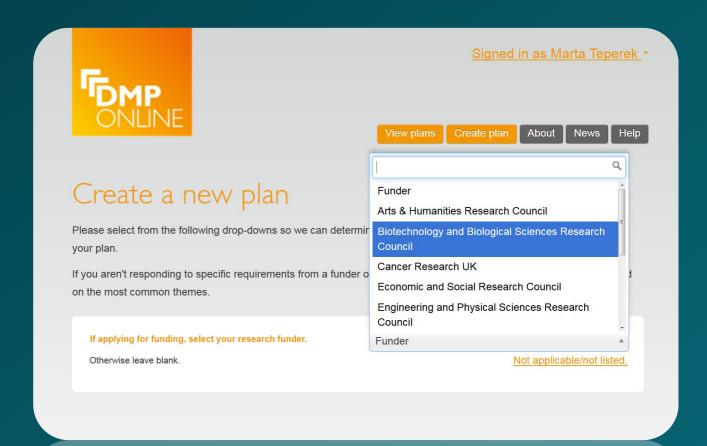








Data management plan



https://dmponline.dcc.ac.uk/



Guidance on data management plans

Advice on preparing a data management plan

Would you like to get advice on your data management plan? We are here to help. Please send us your data management plan by using the form below and we will get back to you within five working days.

Important notes:

By using this service you certify that you have read you funder's policies on research data management and prepared your data management plan in accordance with these policies.

Funders' guidance on data management plans:

Specific guidance on funders' requirements for data management plans is available below - you need to follow funders' guidance when preparing a data management plan.

- AHRC
 BBSRC
 EPSRC
 Funders' guidance
- ESRC
- MRC
- NERC
- Royal Society
- STFC
- Wellcome Trust

Sample plans

Example data management plans:

We also have some example data management plans which might be useful when preparing your first data management plan:

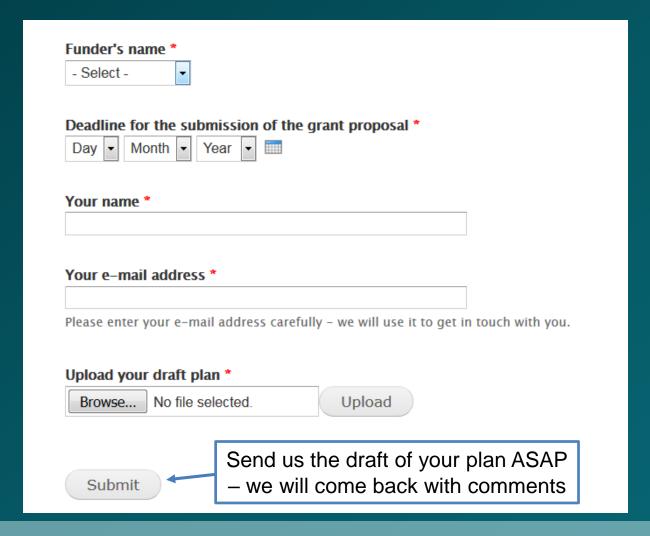
- AHRC from the University of Bristol
- ESRC (Social Sciences) from the University of Leeds
- · ESRC (Psychology) from the University of York
- . MRC from the University of Bristol
- · Wellcome Trust from London School of Hygiene and Tropical Medicine

www.data.cam.ac.uk/DMPsupport





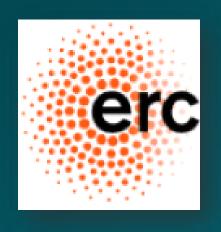
Guidance on data management plans



www.data.cam.ac.uk/DMPsupport



Budget for Open Access publication costs *if applicable*



NHS
National Institute for
Health Research

www.osc.cam.ac.uk/open-access

info@openaccess.cam.ac.uk



Research lifecycle







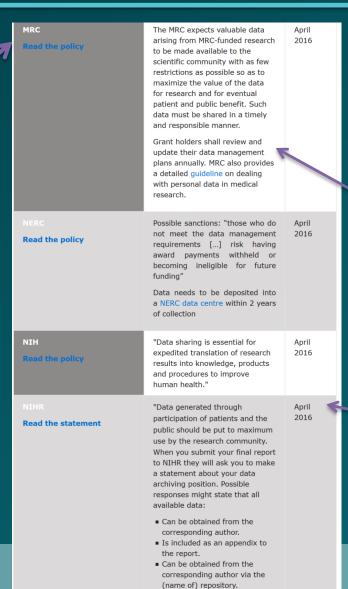


www.data.cam.ac.uk



www.data.cam.ac.uk/funders

Funder names arranged alphabetically. Click on the hyperlink below to see the full-length policy.



If you have deposited (or intend to deposit) data from your study into a data sharing repository, please supply the URL to the data archive so that when your report

Key policy highlights

Date of the last update/policy check





Frequently Asked Questions

- They really are!
- From discussion with over 1450 researchers



Frequently Asked Questions

Thanks to all the people who have attended our open data sessions during the first half of 2015. We were able to collect all the questions we received from researchers and research students and have prepared a list of Frequently Asked Questions.

We would also like to thank **Ben Ryan from the EPSRC** for carefully checking our advice and for his comments that helped us improve the answers.

We have arranged the list of FAQ into eight categories, thematically grouped:

What needs to be shared and when?

Questions about exemptions from research data sharing

Questions about resources to support research data sharing

Questions about data repositories and linking to data

Questions about personal/sensitive/commercial data

Questions about source code sharing





Discussions with funders



In conversation with Ben Ryan from EPSRC





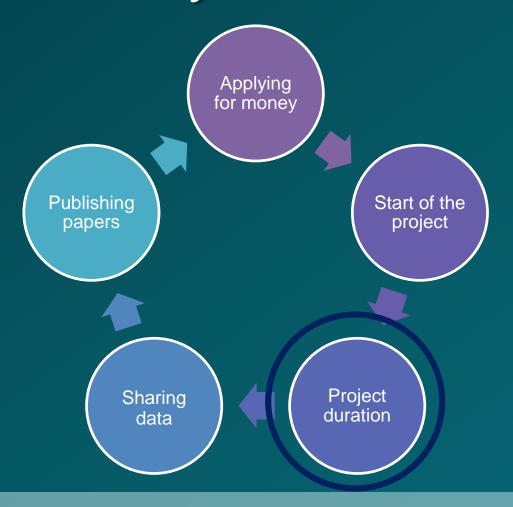


wellcometrust





Research lifecycle







Training and support

20 APR

Social Sciences Journal Publishing

Wednesday 20 April , 12:30-14:00 , Postdoc Centre, 16 Mill Lane, Cambridge

26 APR

Finding and accessing human genomic data for research

Tuesday 26 April , 10:00 - 12:00 , Clinical School, Seminar Room 3, Cambridge. CB2 OSP

11 MAY

Research Data Management Workshop

Wednesday 11 May , 10:30 - 12:30 , 8 Mill Lane, Lecture Room 5, Cambridge. CB2 1RX

16 MAY

Everything you need to know about Open Access and data sharing

Monday 16 May , 14:00 - 15:00 , Seminar Room G, 17 Mill Lane

18 MAY

What you most need to know about Open Access

Wednesday 18 May , 12:30-14:00 , Postdoc Centre, 16 Mill Lane, Cambridge

9 JUN How not to get instantly rejected

Thursday 9 June , 12:30-14:00 , Postdoc Centre, 16 Mill Lane, Cambridge

14 SEP

Research Data Management Workshop

Wednesday 14 September , 10:30 - 12:30 , 8 Mill Lane, Lecture Room 5, Cambridge. CB2 1RX

www.osc.cam.ac.uk/events



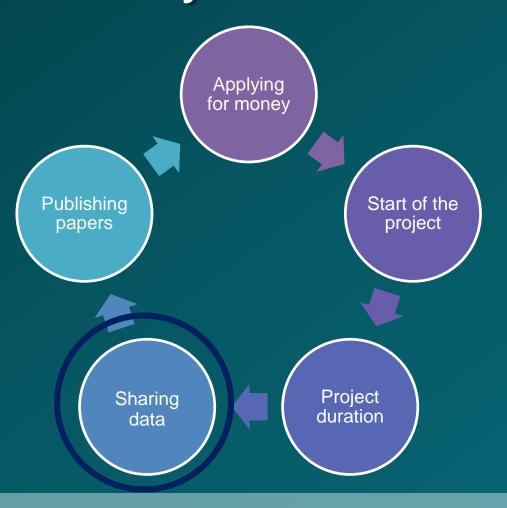


Other session we offer:

- Workshops on research data management
- Software management and sharing
- Data provenance
- Data licensing
- Introduction to Data Science
- How to publish useful data?
- Managing social media research data
- Research metrics
- Open Access and ECRs



Research lifecycle







How to share research data?



What shall I do to make my data available?

To make your data available first make sure that it is properly organised and labelled, and then simply upload your data to a data repository. You can:

- upload your data to the University repository
- choose an alternative data repository
- sometimes your funder (e.g. ESRC or NERC) will require that you deposit your data into a specified data repository

www.data.cam.ac.uk/repository





Discipline-specific repositories preferred













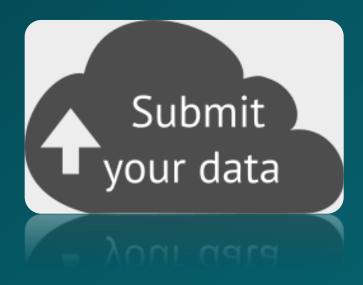


www.re3data.org





Cambridge data repository







www.data.cam.ac.uk/upload

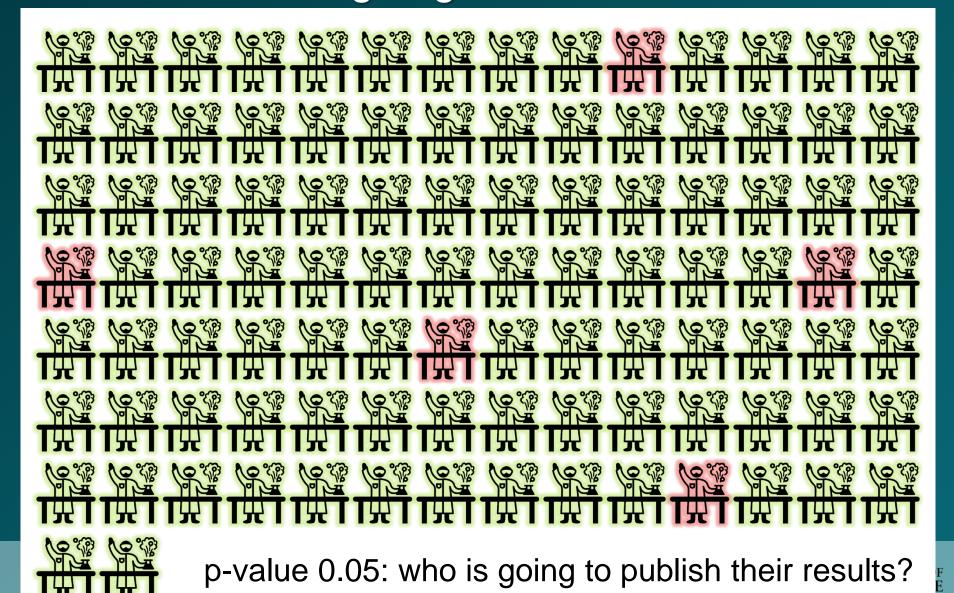
Create a new data submission o
Data submission form We accept depositions up to 20GB. If your dataset exceeds 20GB, please contact us. If you have
 I understand and agree to the terms and conditions * Please confirm if you have read and accepted the data deposition terms and conditions
Title *
List all authors of this dataset *

Submit

We will check your data, upload it into the repository and send you a link for your paper



Consider sharing negative results as well





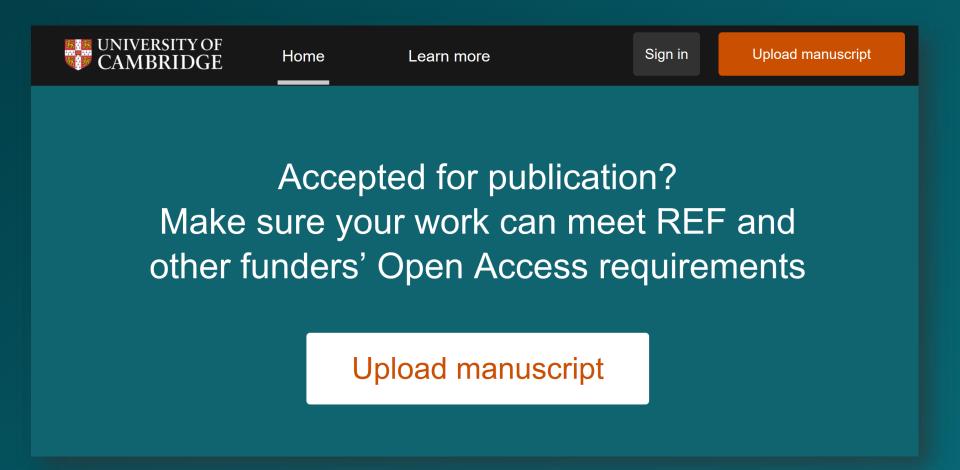
Research lifecycle





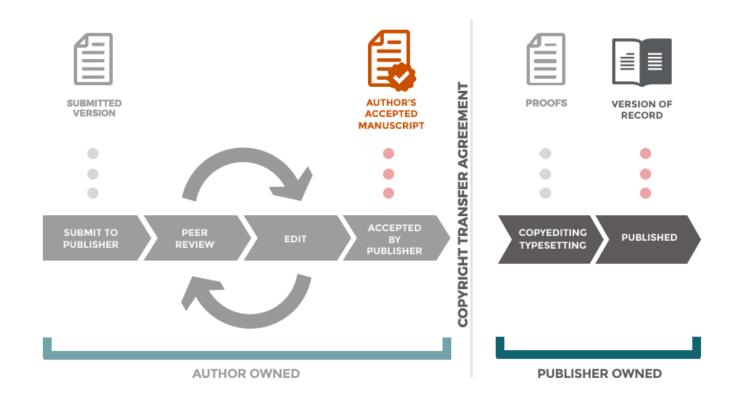


Send us your paper within 3 months of acceptance.





Simply send us your Author-Accepted Manuscript on acceptance or when asked to choose an Open Access option and we'll guide you through what you need to do.







We will work out which policies you need to comply with and how you can do this.

RCUK and COAF have provided us with block grants to cover eligible open access costs.



We'll give you details of these if they apply to you.



Where an article can be made open access without paying a fee to the publisher, this is preferred in the current University policy.





High-throughput detection of ethanol-producing cyanobacteria in a microdroplet platform

Abalde-Cela, Sara; Gould, Anna; Liu, Xin; Kazamia, Elena; Smith, Alison G.; Abell, Chris

URI: http://dx.doi.org/10.1098/rsif.2015.0216

http://www.repository.cam.ac.uk/handle/1810/247930

Date: 2015-03-17

Abstract:

Ethanol production by microorganisms is an important renewable energy source. Most processes involve fermentation of sugars from plant feedstock, but there is increasing interest in direct ethanol production by photosynthetic organisms. To facilitate this, a high-throughput screening technique for the detection of ethanol is required. Here, a method for the quantitative detection of ethanol in a microdroplet-based platform is described that can be used for screening cyanobacterial strains to identify those with the highest ethanol productivity levels. The detection of ethanol by enzymatic assay was optimized both in bulk and in microdroplets. In parallel, the encapsulation of engineered ethanol-producing cyanobacteria in microdroplets and their growth dynamics in microdroplet reservoirs were demonstrated. The combination of modular microdroplet operations including droplet generation for cyanobacteria encapsulation, droplet re-injection and pico-injection, and laser-induced fluorescence, were used to create this new platform to screen genetically engineered strains of cyanobacteria with different levels of ethanol production.

Description:

This is the final published version. It first appeared at http://rsif.royalsocietypublishing.org/content/12/106 /20150216#ack-1.

Show full item record

Find Full text

Files in this item



Name: Abalde-Cela 2015 ... Size: 624.8Kb

Format: PDF

View/Open

Help Help Pages

Browse support pages support@repository.cam.ac.uk

Contact Contact Us

Search the Repository

 Search the Repository This Collection

Browse

All of the Repository Communities & Collections <u>Authors</u> Titles Subjects Type This Collection <u>Authors</u> Titles

My Account

Type

Subjects

Login







Search Apollo

Q

Browse

All of Apollo

- > Communities & Collections
- > Authors
- > Titles
- > Subjects
- > Type

This Collection

- Authors
- > Titles
- > Subjects
- > Type

My Account

> Login

High-throughput detection of ethanol-producing cyanobacteria in a microdroplet platform



View/Open

Abalde-Cela 2015 Interface.pdf (624.8Kb)

Date

2015-03-17

Author

Abalde-Cela, Sara Gould, Anna Liu, Xin Kazamia, Elena Smith, Alison G. Abell, Chris

Metadata

Show full item record

Ethanol production by microorganisms is an important renewable energy source. Most processes involve fermentation of sugars from plant feedstock, but there is increasing interest in direct ethanol production by photosynthetic organisms. To facilitate this, a high-throughput screening technique for the detection of ethanol is required. Here, a method for the quantitative detection of ethanol in a microdroplet-based platform is described that can be used for screening cyanobacterial strains to identify those with the highest ethanol productivity levels. The detection of ethanol by enzymatic assay was optimized both in bulk and in microdroplets. In parallel, the encapsulation of engineered ethanol-producing cyanobacteria in microdroplets and their growth dynamics in microdroplet reservoirs were demonstrated. The combination of modular microdroplet operations including droplet generation for cyanobacteria encapsulation, droplet re-injection and pico-injection, and laser-induced fluorescence, were used to create this new platform to screen genetically engineered strains of cyanobacteria with different levels of ethanol production.

URI

http://dx.doi.org/10.1098/rsif.2015.0216 http://www.repository.cam.ac.uk/handle/1810/247930

Collections

Scholarly Works - Chemistry

The following license files are associated with this item:

Creative Commons



Except where otherwise noted, this item's license is described as Attribution 2.0 UK: England & Wales







AII

Images

Videos

News

Shopping

More ▼

Search tools

About 17,200 results (0.59 seconds)

Scholarly articles for high-throughput detection of ethanolproducing cyanobacteria in a microdroplet platform

... -producing cyanobacteria in a microdroplet platform - Abalde-Cela - Cited by 5

High-throughput detection of ethanol-producing ...

rsif.royalsocietypublishing.org/content/12/106/20150216

by S Abalde-Cela - 2015 - Cited by 5 - Related articles

16 Feb 2015 - **High-throughput detection of ethanol-producing cyanobacteria in a** ... the quantitative **detection of ethanol** in a microdroplet-based platform is ...

^[PDF] High-throughput detection of ethanol- producing ...

https://www.repository.cam.ac.uk/.../Abalde-Cela%202015%20Interface.... ▼

by S Abalde-Cela - 2015 - Cited by 5 - Related articles

22 May 2015 - producing cyanobacteria in a microdroplet platform. J. R. Soc. Interface ... platform for high-throughput ethanol detection and quantification.

High-throughput detection of ethanol-producing ...

www.phyconet.org.uk/.../high-throughput-detection-of-ethanol-produci... •

28 Sep 2015 - Home; **High-throughput detection of ethanol-producing cyanobacteria in a microdroplet platform**. High-throughput detection of ...

High-throughput analysis of cyanobacteria ethanol ...

https://selectbiosciences.com/conferences/agendaAbstracts.aspx?conf... ▼

20 Nov 2014 - **Ethanol production** by microorganisms is increasingly an important ... for the quantitative **detection of ethanol** in a **microdroplets**-based **platform** ...

Single cell scientific papers - Sphere Fluidics

www.spherefluidics.com/resources/scientific-papers/ •

Scientific Papers Available for Download. Abalde-Cela et al. 2015. **High-throughput** detection of ethanol-producing cyanobacteria in a microdroplet platform.



Research lifecycle

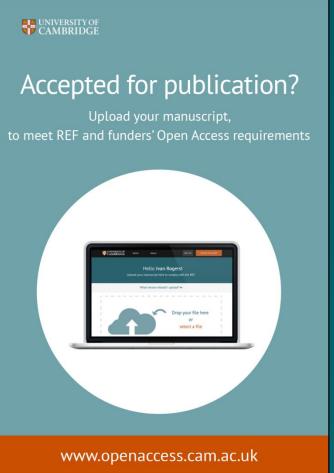






Take-home messages:









THANK YOU

Enquiries about research data: info@data.cam.ac.uk

Enquiries about Open Access to publications: info@openaccess.cam.ac.uk

www.data.cam.ac.uk

www.osc.cam.ac.uk/open-access





Resources for working with personal/sensitive data

University Ethics website:

- www.research-integrity.admin.cam.ac.uk/research-ethics/
- Dr Rhys Morgan, Research Governance and Integrity Officer:
 <u>rhys.morgan@admin.cam.ac.uk</u>

MRC guidelines:

- http://www.mrc.ac.uk/documents/pdf/personal-information-in-medical-research/
- ESRC consent form, anonymisation guide, and access control:
 - http://www.data-archive.ac.uk/create-manage/consent-ethics/consent?index=3
 - http://ukdataservice.ac.uk/manage-data/legal-ethical/anonymisation
 - http://ukdataservice.ac.uk/manage-data/legal-ethical/access-control
- Our website (University resources):
 - http://www.data.cam.ac.uk/sensitive-data

