

Better Research Through Better
Data Live with David Carr -
Wellcome Trust

#betterdata

ADVANCING
DISCOVERY



Maximising the value of research data – Wellcome's role as a funder

Better Science Through Better Data Live
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David Carr

Programme Manager - Open Research, The Wellcome Trust

d.carr@wellcome.ac.uk

ORCID: 0000-0003-1435-307X



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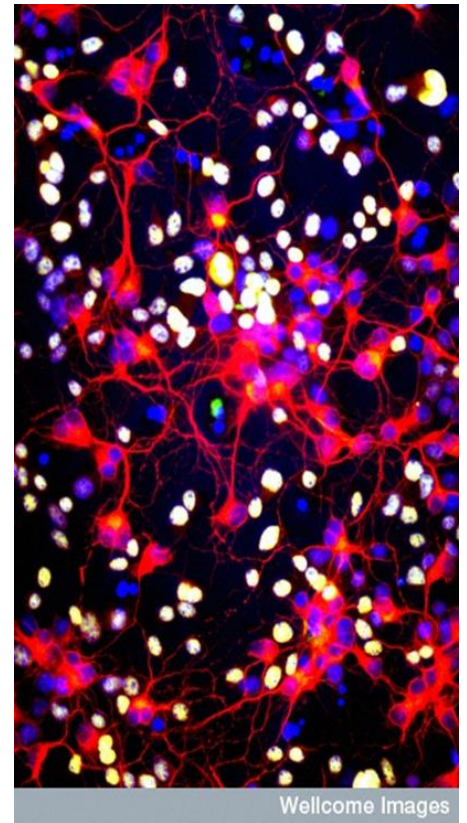
Wellcome's commitment to Open Research

- Wellcome is a global charitable foundation dedicated to improving health for everyone by helping great ideas to thrive
- we want research outputs (including publications, data, software and materials) to be accessed and used in ways that maximise benefit to health & society
- we are a passionate champion and advocate of open access and data sharing, with long-standing policies in place



Open Research – what do we want to achieve?

- enable outputs to be accessed, combined and used in ways that accelerate discovery and application
- help ensure research findings can be validated and reproduced
- increase efficiency in research - reducing duplication and waste
- make research outputs more readily accessible to full range of users – including public, policymakers, healthcare professionals, etc.



Our vision for Open Research

“A world where there are transformative improvements in human health because research outputs are managed, shared, and used in ways that unleash their full value”

Open Research team – our work



Developing major initiatives to support the community and drive change.



Supporting researchers to develop cutting edge approaches to openness.

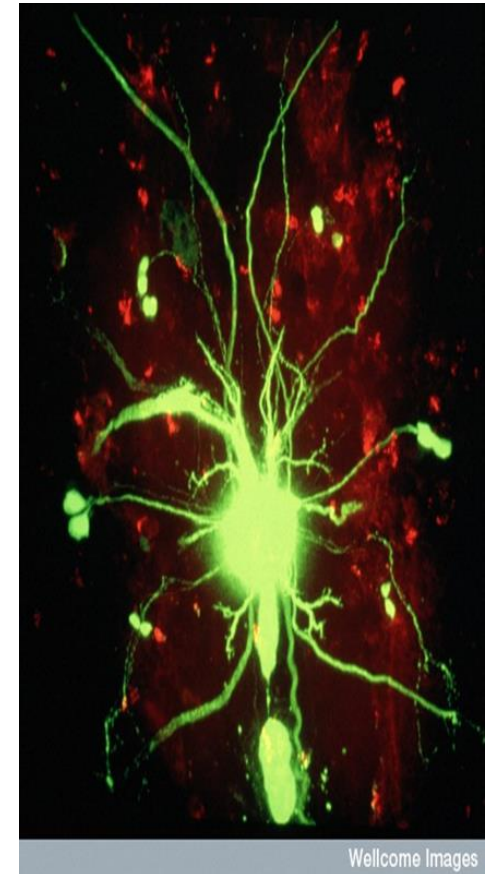


Leading in development of policies and practices to support, incentivize, and sustain open research.

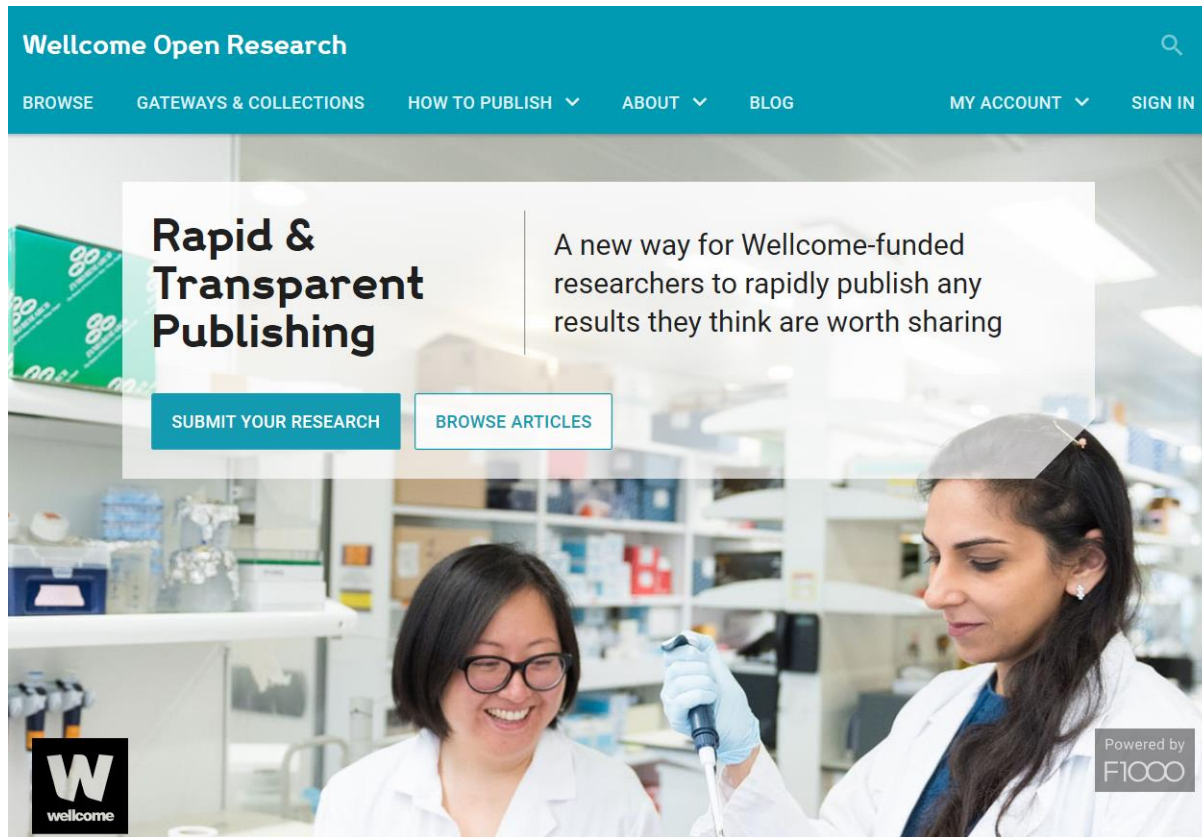
Supporting researchers: key activities

Implementing our outputs management policy

- policy on [data, software and materials management and sharing](#) since 2017 – extending our previous long-standing policy on data management and sharing
 - require applicants to provide an **outputs management plan** where anticipated outputs with hold significant value
 - data and original software underlying publications must be made available at the time of publication
 - OMPs and associated costs reviewed as integral part of funding decision
- ongoing work to update our guidance, provide exemplar OMPs, strengthen review of OMPs and develop checks at end-of-grant reporting



Enabling rapid & open publication of outputs – Wellcome Open Research



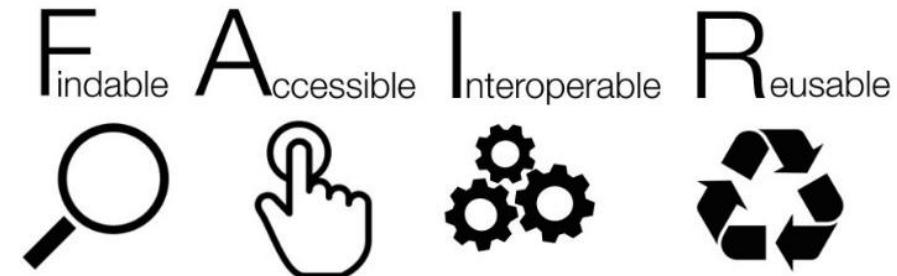
www.wellcomeopenresearch.org

A platform for Wellcome researchers to rapidly and openly publish their research outputs, providing a model that is:

- faster
- transparent
- reproducible
- inclusive
- cost-effective

Making research data FAIR

- we encourage our researchers to make data available in line with the FAIR principles (findable, accessible, interoperable and reusable)
- Wellcome Open Research platform has strong open data policy with [guidance for authors](#) built around the FAIR principles
- we are working with other funders to develop an automated approach to assess the FAIR status of research outputs (FAIRware)



Sungya Pundir, Wikimedia Commons, CC By-SA 4.0

Providing expert support – working with Springer Nature

- ongoing pilot with Springer-Nature to enable Wellcome researchers to use Research Data Support service
- helps researchers to make data underlying papers more discoverable and useable
- if you are Wellcome funded, please consider trying it out!



The screenshot shows the Springer Nature website header with the logo and a search bar. Below the header is a large blue banner with the text "Research Data Support for Wellcome researchers". Underneath the banner, a paragraph states: "All Wellcome-funded researchers can receive enhanced support from a data curation expert as part of the extended Research Data Support pilot." Below this text is the Wellcome logo (a black square with a white 'W' and the word 'wellcome' below it) and a paragraph explaining the service: "If you are a researcher who receives Wellcome funding, you can access support from one of our experienced data curation experts at no cost to you. Our research data curators will assess your scientific manuscript or publication and ensure the associated data is findable, accessible and reusable. We will also provide expert research data curation on data files you submit, saving you time and money organising your research data."

<https://www.springernature.com/gp/campaign/Wellcome-RDS-Pilot>

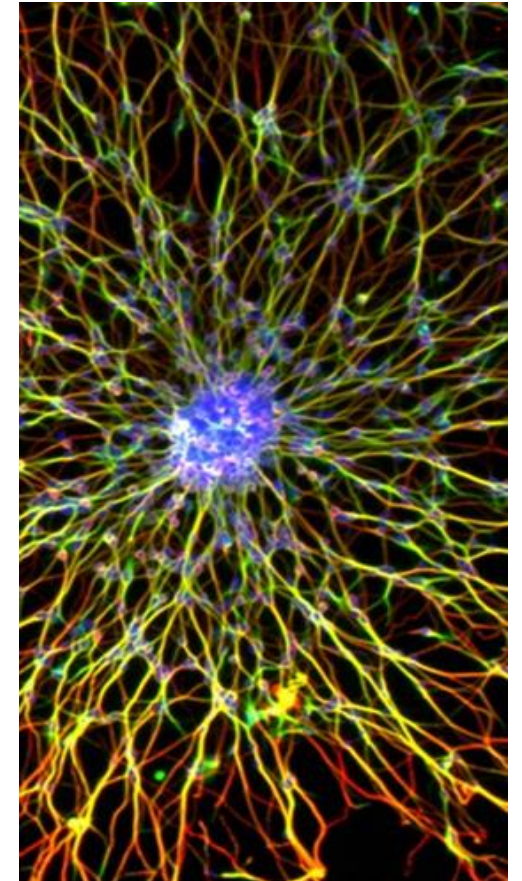
Supporting innovation in open research

- our [Open Research Fund](#) competition provides awards of up to £50k to develop, pilot and evaluate cutting-edge approaches to openness
- additional dedicated and flexible Open Research funding to support community-led initiatives, including ideas from our funded researchers
- we have developed [Data Re-use prizes](#) to stimulate and celebrate innovative re-use of data
- if you have an idea you wish to discuss, please contact us: openresearch@wellcome.ac.uk



Enabling Open Research - resources and culture change

- participate in international initiatives to reform research assessment practices and incentivise open research
 - support [San Francisco Declaration on Research Assessment \(DORA\)](#), with new requirement from 2021 that institutions in receipt of our funding commit to these principles (see [guidance on responsible and fair assessment](#))
 - Fund [NAS roundtable on aligning incentives for open science](#) with partners in the Open Research Funders Group
- support development of resources to enable data access
 - with clinical trial data being one key area of focus via [ClinicalStudyDataRequest.com](#) and [Vivli](#) platforms



POLL

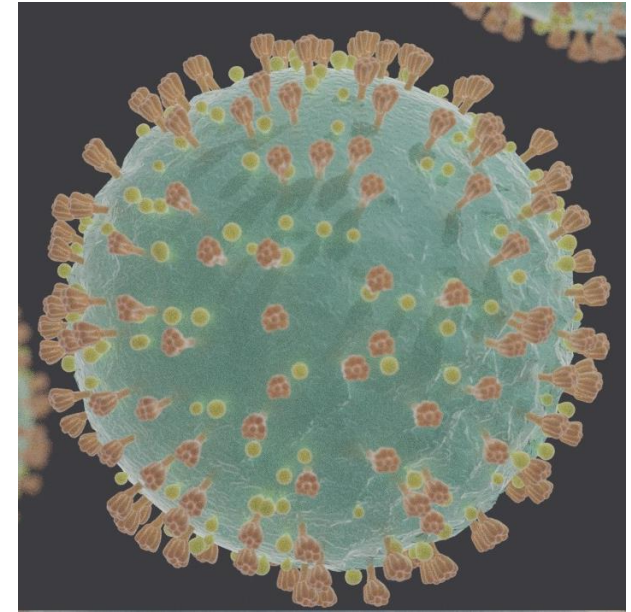
Which of these activities were you aware of before today's presentation?

- Wellcome Open Research
- FAIRware software development
- Springer Nature Research Data Support pilot
- Open Research Fund
- Data Re-use Prizes

Accelerating access to data and findings in public health emergencies

Ensuring rapid access to research relevant to COVID-19

- coordinated a [joint statement](#) on sharing research data and findings relevant to COVID-19 (Jan 2020)
- worked with OSTP and NLM on a follow up [statement from publishers](#) in March 2020, committed to make content relevant to COVID-19 freely accessible and reusable via PubMed Central
- implementing special conditions for grants funded via our emergency COVID-19 funding initiatives – building on existing provisions in our policies
- additional review of OMPs associated with these applications



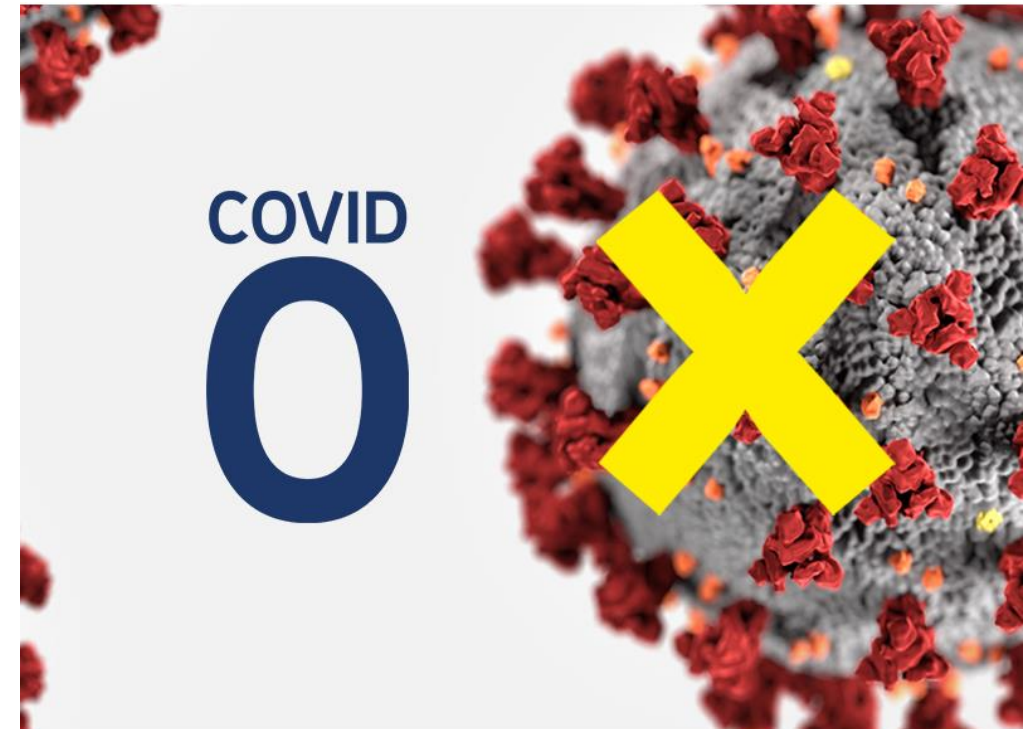
By Felipe Esquivel Reed - Own work,
CC BY-SA 4.0,
<https://commons.wikimedia.org/w/index.php?curid=87846813>

Provisions for COVID-19 awards

1. Research findings made available on platforms that make articles openly accessible before peer review and where peer review is conducted on the platform (such as Wellcome Open Research); or published on a preprint server prior to submission to a journal.
2. Research findings that are submitted to journals are made openly available at the time of publication with a Creative Commons Attribution licence (CC-BY)
3. All submissions (to platforms, preprint servers and journals) must include clear statements regarding the availability of underlying data and/or software/code
4. Interim and final data is shared as rapidly and openly as possible – as soon as it is appropriately quality assured, in line with any ethics requirements and irrespective of the timing of journal publication

Going further

- Considering more specific requirements on timing and manner of data sharing in terms of standards, repositories
- Working with others to ensure required infrastructure for global data sharing is in place
- Developing opportunities to pilot new approaches for supporting data sharing that could be applied more widely



Credit: Alissa Eckert, Dan Higgins / CDC

Looking Ahead...

Emerging priorities for Wellcome

- **COVID-19** – learning lessons and exploring potential to apply approaches to accelerate data sharing & open research more broadly
- **Policy support** – strengthening review of OMPs and maximising their value
- **FAIR implementation** - working with other funders to develop consistent approaches to implementing and assessing FAIR
- **Embedding incentives** – in partnership with partner funders and our funded institutions
- **Supporting innovation** - maximising the impact of our Open Research funding



Image: [Moheen Reeyad \(moheenreeyad.xyz\)](https://moheenreeyad.xyz)

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POLL

Which area would have greatest effect in enhancing research data sharing

Choices

- A. Strengthening funder policies
- B. Developing infrastructure and tools
- C. Enhancing incentives for researchers

Any Questions?

d.carr@wellcome.ac.uk

Research Data Support for Wellcome-funded Researchers

If you are a researcher who receives Wellcome funding, you can access support from our data curation experts at no cost to you.

Get started at:
<https://go.nature.com/2Cw7YOo>

The State of Open Data 2020

Have your say on the future of open data.

Take the 2020 State of Open Data survey at:
<https://bit.ly/2AVixK9>

In partnership with:



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Join us at the next #BetterData Live event

Better Research Through Better Data Live with
the National Institutes of Health (NIH)

Thursday 9th July 2020

10.30- 11.30 EDT / BST 15.30-16.30

Register now: <https://bit.ly/2YtyS21>

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