COMING SOON

GATES OPEN RESEARCH



CEGA May 26, 2017

Ashley Farley, Associate Officer, Knowledge & Research Services, Bill & Melinda Gates Foundation

Phil Dooner, Associate Publisher, F1000

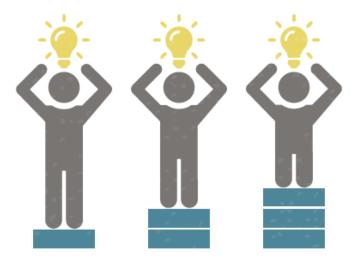
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GATES foundation



Gates Commitment to Open Access is Mission Driven

Barrier-free access to foundation-funded research advances innovation and helps create a world where everyone has the opportunity to lead a healthy and productive life.







Open Access Policy: Four requirements and a commitment

The Gates Foundation's Open Access Policy enables the unrestricted access and reuse of all its peer-reviewed published research funded, in whole or in part, by the foundation, including any underlying data sets.

REQUIREMENT #1: Publications are discoverable and accessible online

REQUIREMENT #2: Publications will be on Open Access terms, i.e., published under a CC-BY license

REQUIREMENT #3: Publication will be accessible and open immediately, i.e., no embargo

REQUIREMENT #4: Underlying data supporting the published research must also be accessible and open immediately

COMMITMENT: Foundation will pay reasonable fees to publish on the above requirements*

*Special Issues/Supplements – only the APC's will be covered

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What does this mean for Gates Foundation grantees?

• All grant agreements signed after January 1st, 2015 contain the following clause:

PUBLICATION IN PEER-REVIEWED JOURNALS

If You seek publication of Funded Developments in a peer-reviewed journal, such publication shall be under "open access" terms and conditions consistent with the Foundation's Open Access Policy available at: <u>http://www.gatesfoundation.org/How-We-Work/General-Information/Open-Access-Policy</u>, which may be modified from time to time.

- This clause is non-negotiable no exceptions will be made
- Grantee who have signed agreements prior to January 1, 2015, can opt-in to publish on open access terms and the foundation will pay the necessary fees to do so.
- Our goal is to reach 100% compliancy so that all Gates funded research is freely available without barrier or restriction.





Introducing Gates Open Research

An open access publishing platform where Gates-funded researchers can publish <u>any</u> results they think are worth sharing.

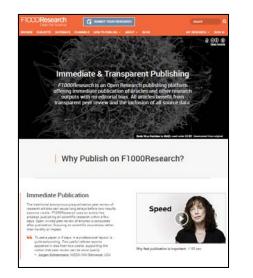
- Allow research to be disseminated without delay especially crucial during public health emergencies
- Increase transparency and make it easier for researchers to support reproducibility

https://gatesopenresearch.org/





Open Research publishing platforms



- F1000's own platform
- Launched 2013
- More than 1,600 open access articles published



- Controlled by Wellcome, operated by F1000
- Launched Nov 2016
- More than 60 articles published since launch



- Controlled by the Gates Foundation, operated by F1000
- To be launched in Q3 2017

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What is different about Gates Open Research?

- **Fast** articles published within a week
- Inclusive all Gates-funded research outputs are suitable: traditional research articles, methods, software, data sets, protocols, negative and confirmatory results etc.
- **Open** fulfils the foundation's OA and data sharing requirements
- Reproducible source data and code published alongside article
- **Transparent** open, author-led publishing

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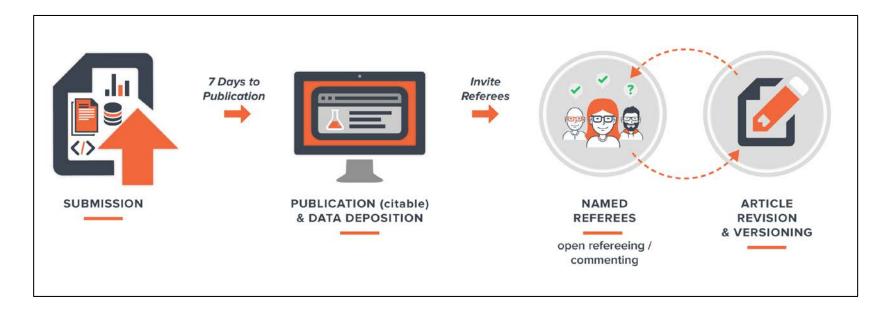
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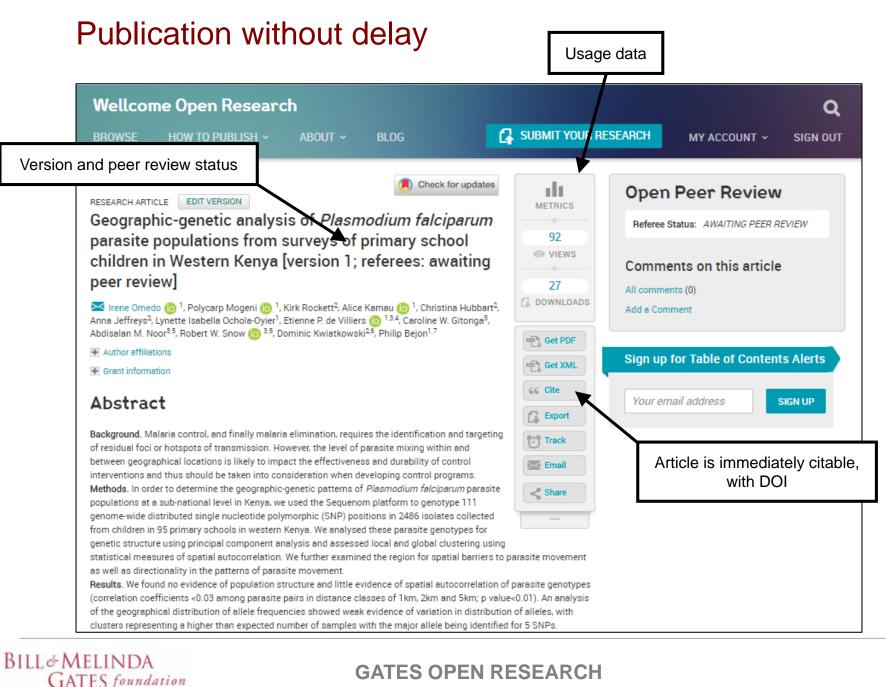
• Easy – all costs are directly covered by the Gates Foundation



How does it work?

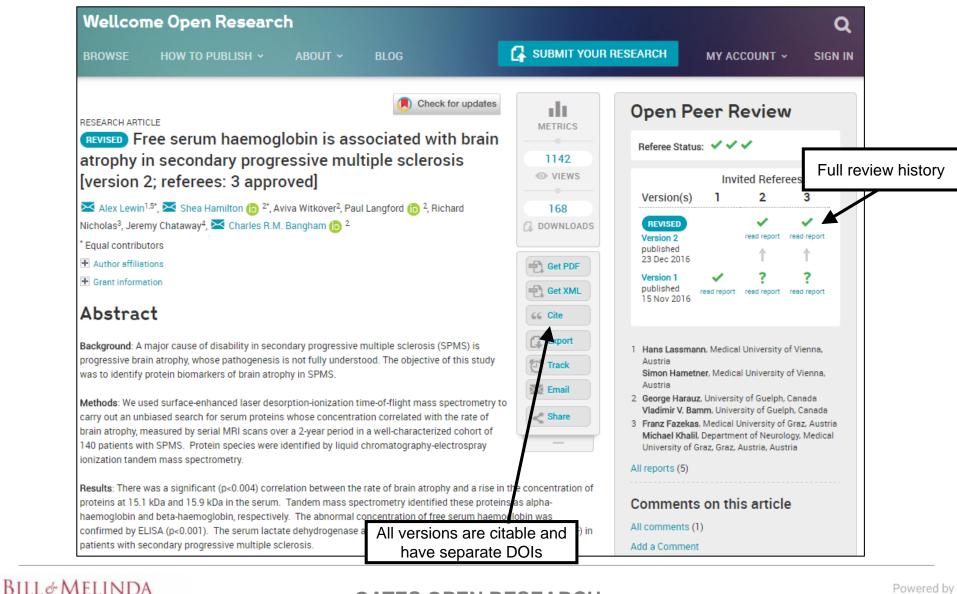


- **Peer review** *after* **publication** (no 'Editor', but in-house pre-pub checks)
- Fully transparent peer review (referee names, report and rating)
- Access to source data
- "living articles": Versioning (also in PubMed) for revisions, corrections, updates



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Post-publication peer review and revisions



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Open peer review

Referee Report 21 Nov 2016

George Harauz, Department of Molecular and Cellular Biology, University of Guelph, Guelph, ON, Canada

Vladimir V. Bamm, Department of Molecular and Cellular Biology, University of Guelph, Guelph, ON, Canada

? Approved with Reservations

Summary - This article describes a proteomics analysis of serum proteins derived from 140 patients with secondary progressive multiple sclerosis (MS), 20 healthy adult volunteers, 20 patients with human T-lymphotropic virus (HTLV-1) causing symptoms resembling spinal MS, and 20 asymptomatic HTLV-1 carriers. Half of the MS patients were undergoing treatment with simvastatin, a drug used to lower blood cholesterol and shown to have immunomodulatory and anti-inflammatory properties. Protein profiling of sera was achieved by mass spectrometry of 475 serum samples collected at 0, 12, and 24 months. (A 6-month time point is mentioned in some places and is gueried below). The MS patients had concurrent MRI scans at 0, 12, and 25 months to measure whole brain volume (BBSI - brain boundary shift integral), presumably amongst other measures. Serum samples were "enriched" and analysed by 1D SDS-PAGE followed by LC-MS/MS of in gel digested protein. Free haemoglobin (Hb) levels were assessed by ELISA, and activity of lactate dehydrogenase (LDH), an indicator of general tissue damage, and particularly of haemolysis was measured. The proteomics analysis suggested that a 15.1-kDa protein peak correlated with the rate of brain atrophy in seemingly all MS patients, regardless of treatment regime. Following protein enrichment, 15.1-kDa and 15.9-kDa peaks were observed and confirmed to represent the α- and β-chains of haemoglobin, respectively. In all MS patients, levels of both free Hb chains and of LDH activity were elevated compared to all controls. The results are consistent with the idea that Hb is released into serum by chronic and low-grade intravascular haemolysis, with subsequent translocation into the CNS where it has great potential to cause oxidative damage.

Comments on title and abstract -

1. We suggest that the word "associated" needs to be substituted by "correlated"

2. Conclusions in the abstract must be linked to the objectives of the study rather than be a speculative claim.

Comments on study design and data interpretation - Several points require clarification, in our view.

1. There were 140 patents, and 60 controls (3 groups of 20). So the total number is supposed to be 200 serum samples per time point. What are the other 275 samples? The question of sample numbers, both of patients and controls, arises again later when 138 patients are mentioned. Additionally, a valuable control could be a group of

Author Response 23 Dec 2016

Charles Bangham, Department of Immunology, Imperial College London, UK

Lewin et al. - response to reviewers

We thank the three pairs of reviewers of our article, each of whom made helpful suggestions and raised salient points for clarification or further discussion. We have revised the article in the light of these comments, and cite further relevant literature (8 references have been added). The response to individual points is given below.

- 4. The Top 12 Protein Depletion Spin Columns are a good way to partially fractionate the serum or to enrich the protein of interest. However, several very important proteins (haptoglobin, transferrin, and Apo Al) related to iron homeostasis will be removed by this procedure. In the context of this study, it is important to see the specific expression patterns of haptoglobin, hemopexin, and HO-1 since they represent different levels of defence mechanisms against extracellular Hb. Also, it could be beneficial to try and correlate different haptoglobin phenotypes with BBSI.
- 5. In the same vein, the ELISA kit will detect extracellular Hb from two sources: free Hb and haptoglobin-bound Hb. The latter form could have been removed by the spin column that was used for protein enrichment.
- 6. Why and how were only 20 patients selected for ELISA?

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Referee ratings:





Views

66 Cite

Approved with reservations



🔀 Not approved

Minimal requirements for indexing:

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Referees can update the status:



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Comments on discussion - We believe that the Discussion can be augmented to give a broader picture as follows.

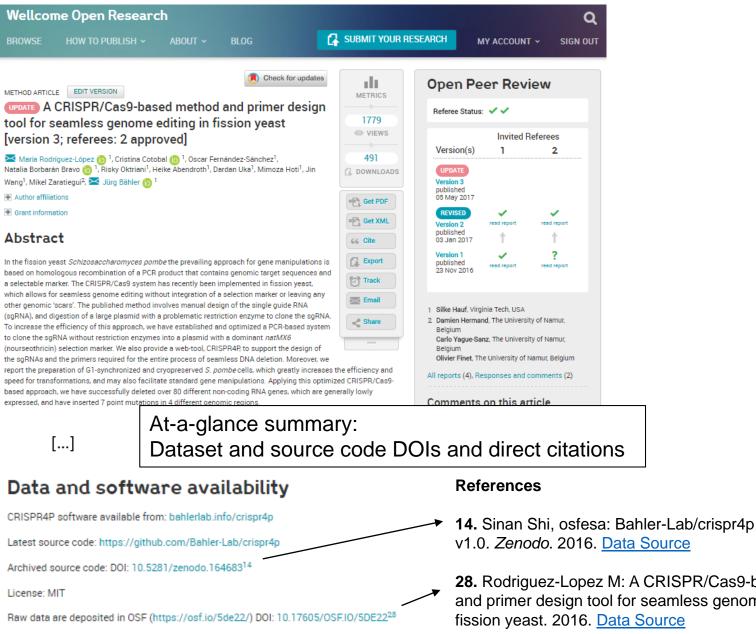
Reproducibility

Data and software policy:

- Access to source data underlying results
- Data must be hosted in a stable open repository (e.g. Open Science Framework, Dataverse, Zenodo)
- Data must be clearly described and formatted
- Data must be openly available (with some exceptions)
- Source code for new software must be provided (Software tool articles)



Data and software availability section



28. Rodriguez-Lopez M: A CRISPR/Cas9-based method and primer design tool for seamless genome editing in fission yeast. 2016. Data Source

Data visualization

Wellcome Open Research Q							
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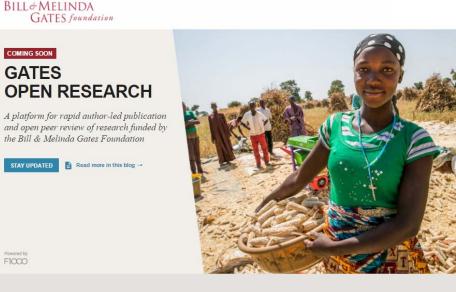
When will Gates Open Research launch?

Instructions for authors published in July

Submission system launch planned for August

 First articles published in late September

https://gatesopenresearch.org/

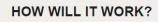


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WHAT IS IT?

Gates Open Research is a scholarly publishing platform that makes research funded by the Bill & Melinda Gates Foundation available quickly and in a format supporting research integrity, reproducibility and transparency. Its open access model enables immediate publication followed by open, invited peer review, combined with an open data policy.



Questions?



Get in touch:

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