COMMUNITY SURVEY - FAIR Phytoliths: Increasing the FAIRness of phytolith data

Hello! This short survey is aimed at understanding current practices concerning open science within the phytolith community as part of the project FAIR Phytoliths: Increasing the FAIRness of phytolith data. The project strives to make phytolith data more FAIR (Findable, Accessible, Interoperable and Reusable). This initiative is supported by the International Phytolith Society. If you want to learn more about the project you can visit our website: https://open-phytoliths.github.io/FAIR-phytoliths/.

The survey is organised into two main sections, the first will be anonymous and it is aimed at analysing the current situation. The second, which you might decide not to respond to, concerns your availability to contribute (at different levels according to your inclination and time) to the widening of the open data community within phytolith research. Part 2 is actually a separate questionnaire that cannot be linked to Part 1 so your answers to these first questions will remain totally anonymous. For the second part you will need to give us specific consent to record and retain your personal data (you will find all the relevant information before starting Part 2).

Part 1 of the questionnaire will take less than 10 minutes to complete. Thank you for answering the Part 1 questions!

Block 1 - About you

Tell us a little about you. All the answers are very general so that we will not be able to identify you even by data crossing. None of the questions are compulsory but we hope you will answer all of them!

Gender :		
Female		
Male		
Binary option		
Prefer not to say		
Where are you based?		
Africa		
Americas		
Asia		
Australia and the Pacific		
Europe		

Where do you mainly conduct your research from)?	(i.e., where do you do fieldwork/get your samples
1. Africa	
2. Americas	
3. Asia	
4. Australia and the Pacific	
5. Europe	
What is your main field of research (please c	hoose maximum 2)? *
1. Agronomy	
2. Archaeology (and related disciplines:	Ethnoarchaeology, Archaeometry,
Bioarchaeology, etc.)	
3. Botany (and related disciplines: Plant	physiology,
Crop breeding, etc.)	
4. Forensics	
5. Geochemistry	
6. Palaeoenvironment	
7. Palaeontology	
What is your current position?	
1. PhD candidate	
2. Junior postdoc	_
(up to 7 years from PhD)	
3. Senior postdoc	
(7 to 12 years from PhD)	
4. Senior researcher (untenured)	
5. Senior researcher (tenured)	
6. Professional (non-academic)	

Block 2 - About open practices

Give us an idea on what you know about open practices in general, and how you make your work open. There is no right or wrong answer, we are just interested in knowing more about how the community of phytolith researchers works.

What software for data and statistical analysis	s do you use in your research (tick all applicable)?
CANOCO Google Sheet Microsoft Excel Open/Libre Office spreadsheet R SPSS None	
What software do you use for writing (tick all	applicable)?
Google Docs HackMD LaTex Microsoft Word Open/Libre Office Writer Others	
What software do you use for data visuali	sation (tick all applicable)?
C2 Grapher Illustrator "Office" graphics (e.g. Excel or PowerPoint R Tilia Others	

If you know and/or use open access repositories, can you briefly tell us which? Open access repositories are databases or virtual archives established to collect, disseminate and preserve scientific output like scientific articles and datasets and make them freely available.

Have you published any paper/s (not nece first author)?	essarily phytolith-related and not nec	essarily as
Yes No		
Future publications		
We would like to know your intentions for y do when you next publish a paper.	your future publications, what would	you like to
Would you like to publish gold open access	s?	
Gold open access = the article and all relative upon publication and licensed for sharing a similar. This option usually involves the pararticle Processing Charge (APC). Green of authors can upload their papers on a websinstitution that funded or hosted the work, where anyone can download the work with	and reuse via Creative Commons lic yment by the author or their host ins open access [also referred as self-arc site controlled by themselves, the res or to an independent central open re	ense or stitution of an chiving] = search
Yes No		
In what case would you consider publishin	g gold open access?	
Only if it is requested by the body that is fu Only if a co-author or one of the involved in I will try to find funding to pay the processin Others	nstitutions facilitates it	
Why do you think you will not publish gold	open access?	
I don't think I will publish gold but I intend to I would liked to but it will be hard to find me I would like to but I think that the fees are to (i.e., I would pay if fees were lower) The journal I intend to publish with does not I do not think it is worth paying for this option I do not think gold open access is an ethical I did not know this possibility existed Other	oney to pay for APCs too high ot offer this possibility on	

Will you consider publishing pre-prints of your work?

Pre-prints: a full draft research paper that is shared publicly before reviewed that is usually given a digital object identifier (DOI) so it c research papers.	•
Yes No	
Do you know which pre-print server you are most likely to use?	
Yes No	
Can you tell us which and why you think it is most appropriate?	
Can you tell us why?	
I do not think it is useful I think it is too much work I am afraid of plagiarism I do not know what pre-prints are and how to publish one	
Section 12. Yes, I have published	
Have you published your work using gold open access?	
Yes No	
Yes, I have published gold open access	
Why did you choose to publish gold open access?	
It was required to by the funding body I planned for it as part of the project (you budgeted for this) It was facilitated by one of the co-authors institution (an institution or deals with publishers, etc.)	nas open access funds

No, I have never published open access

Why have you never published gold open access?
I have not published gold so far but I did publish green open access I would have liked to but had no money to pay for APCs I would have liked to but I think that the fees are too high (i.e., I would pay if fees were lower) I did not know this possibility existed The journal did not offer this possibility I do not think it is worth paying for this option I do not think gold open access is an ethical choice
Preprints
Pre-prints: a full draft research paper that is shared publicly before it has been peer reviewed that is usually given a digital object identifier (DOI) so it can be cited in other research papers.
Have you published a pre-print version of your papers?
Yes No
Yes, I have published pre-prints
Give us an assessment (1= only once, 5= all my papers) 1 2 3 4 5
How did you choose which pre-print server you published with?
No, I have never published a pre-print
Can you tell us why?
I have not done it so far but I am planning to with my next papers I do not think it is useful I think it is too much work I am afraid of plagiarism My co-authors did not agree

I do not think non-peer-reviewed research should be treated as scientific evidence	
Block 3 - Methods and data sharing practices	
In this block we will ask questions about data sharing practices.	
How do you normally describe the methods in your papers? Please consider all your methods including sample collection, ext preparation and microscope practices (such as magnification and collections, etc.	
I only reference published methods I only describe things that deviate from published procedures I describe everything in detail I publish them in a methods repository (e.g., protocols.io)	
Do you generally consider that your methods are replicable?	
We know that things are not black or white, try to consider your por, if you want, use the "other" option to tell us a bit more.	ractice in general terms
Yes No Other	
How many papers that include new phytolith data have you published	shed?
None 1-5	R
More than 5	

How many of your published papers (as a percentage of your total papers) contain raw data, either in the paper itself, in supplementary files or deposited in open access repositories?
Note: for raw data we mean absolute counts of phytoliths. Summary data such as percentages, phytolith grouping, etc. do not count as raw data.
0 (0%) 1 (20%) 2 (40%) 3 (60%) 4 (80%) 5 (100%)
How many of your published papers (as a percentage of your total papers) contain raw data, either in the paper itself, in supplementary files or deposited in open access repositories?
Note: for raw data we mean absolute counts of phytoliths. Summary data such as percentages, phytolith grouping, etc. do not count as raw data.
0 (0%) 1 (20%) 2 (40%) 3 (60%) 4 (80%) 5 (100%)
I have published raw data
How did you publish your raw data (check all that apply)?
As table in the main text As supplementary file In an institutional repository In a subject-base online repository (e.g., Pangaea, Neotoma, etc.) In a general repository (e.g., Zenodo, Open Science Framework, etc.) In a personal repository (e.g., GitHub, personal webpage, etc.) Not applicable Other
I did not want to publish raw data
If you have never published raw data can you tell us why?
I did not know how or where I did not think it was useful/needed I did not want to Other

Incentives, training and updates

Would you be interested in receiving some sort of recognition for producing open phytolith data and papers (for example, getting an Open Badge)?

Open Badges are information-rich visual records of verifiable achievements earned by recipients and easily shared on the web and via social media. Open Badges embed information on who earned it, who issued it, the criteria required, and in many cases even the evidence and demonstrations of the relevant skill (https://en.wikipedia.org/wiki/Mozilla Open Badges).

Yes, but it will not make me change my present way of working (i.e., I will not produce more open work) Yes, and it will definitely be an incentive to be more open I am not sure, I should learn more about Open Badges No, I do not think it is something that interests me at all Other
Would you be interested in knowing more about open data possibilities for phytolith researchers?
This might include future offers of courses, webinars, training opportunities, etc.
Yes No Maybe
What would be your preferred method to be kept informed about phytolith open data (news, results, campaigns, etc.)?
Email Twitter Facebook Slack Instagram TikTok Other
Would you be willing to contribute to our community effort to improve data sharing in phytolith research?
No - Thank you for your time, the survey ends here! Yes - Follow-up questions (not fully anonymous)!

Thank you for your interest in widening the open phytolith community!