



DocMaps

A community-endorsed framework for representing research object-level review/editorial processes in an extensible, machine-readable, and discoverable format

One of tools we've been working on in collaboration with aggregators and preprint review communities in the community publishing sphere is DocMaps.



We're surfacing editorial workflows to grow the preprint ecosystem.

- **Informing readers** about research quality, verification, and contribution within the community
- **Capturing, sharing, and using** the full range of editorial practices and events
- **Working** amongst different technical and social processes

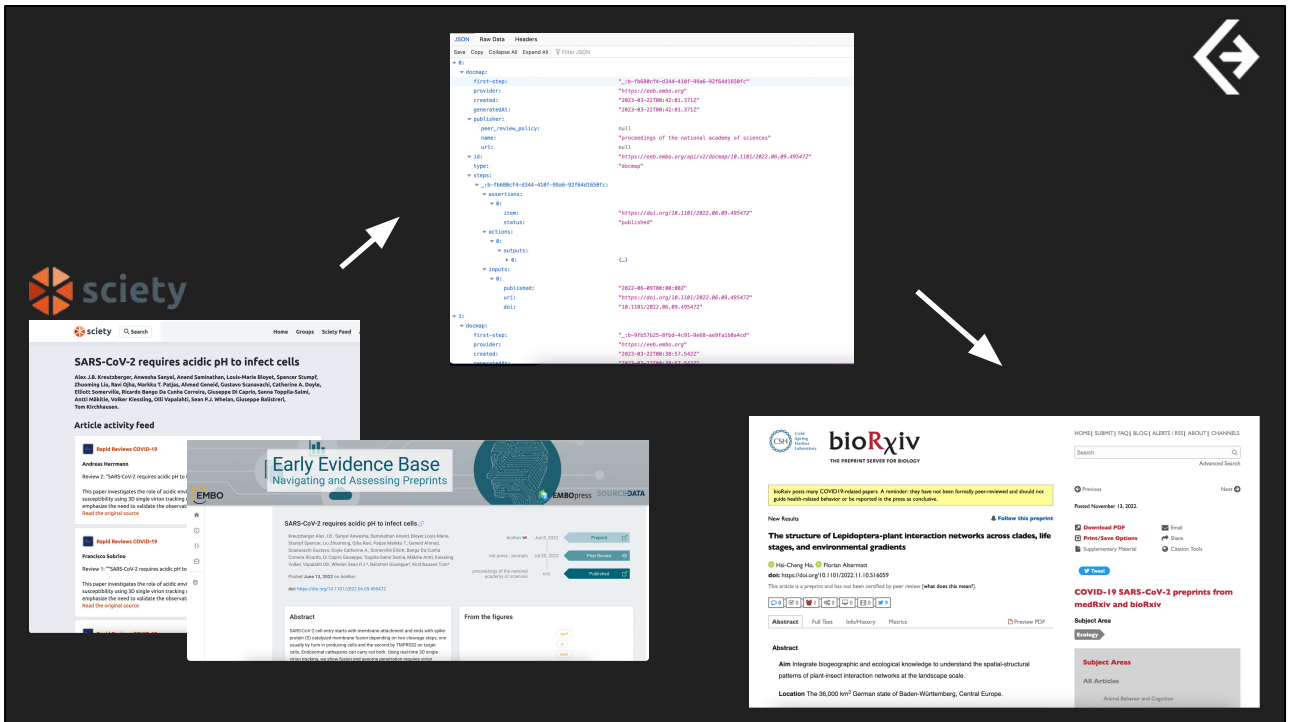
Preprint articles are rapidly becoming the first line of contact for cutting-edge science. The opportunity for researchers to move more quickly, by building on extremely recent discoveries that have not gone through journal processes, is debased by an equally fast rise in untrustworthy science generated by disreputable journals and artificial intelligence. DocMaps is a community-endorsed framework for capturing valuable context about the processes used to create documents in a machine-readable way. With DocMaps, we can improve the systemic clarity around preprint science and enable rapid, trustworthy discovery and reporting about these documents.



Values

- **Extensible:** Can represent a wide range of editorial process events
- **Machine-Readable:** Represented in a format that can be interpreted computationally and translated into visual representations
- **Discoverable:** Can be publishable such that events are queryable and discoverable via a variety of well-supported mechanisms

Using DocMaps to store and transfer metadata makes for better informed readers and researchers regarding research quality, verification, and editorial history. Making this metadata discoverable and interoperable across publishers, reviewers, and aggregators enables platforms to work together in tracking research dissemination and discourse. DocMaps infrastructure allows preprint servers, review platforms, and aggregators to share and display connections among their respective contents, even going so far as to connect to later journal submission for researchers and publishers.



Information on how DocMaps integration operates can be found here: <https://docmaps.knowledgefutures.org/pub/iaynj3y>.

These are examples of what integration looks like on the front-end:

- [Article activity feed \(Society\)](#)
- [render-rev timeline \(EMBO\)](#)
- [Community Reviews tab on the Dashboard \(bioRxiv\)](#)

DocMaps can be viewed at the [Society](#) (batch) and [EEB API](#) (for specific DOIs).

Review 1

Review 1 [10.24072/pci.ecology.100425](https://doi.org/10.24072/pci.ecology.100425) Published on Feb 16, 2023

This study has been evaluated by Peer Community In.

Towards model-guided organic farming expansion for crop pest management

Read the evaluation (#0): <https://doi.org/10.24072/pci.ecology.100425>

PCI Ecology

Recommendation

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Towards model-guided organic farming expansion for crop pest management

Sandrine Charles based on reviews by *Julia Astejano, Lionel Hertzog and Sylvain Bart*

A recommendation of:

Best organic farming deployment scenarios for pest control: a modeling approach

Thomas Delattre, Mohamed-Mahmoud Memah, Pierre Franck, Pierre Valletta, Claire Laigne
 (2023, bioRxiv, ver. 1, peer-reviewed and recommended by PCI Ecology
<https://doi.org/10.1101/2023.02.16.528996>)

READ PREPRINT IN PREPRINT SERVER NOW PUBLISHED IN PEER COMMUNITY JOURNAL

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bioRxiv
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Best organic farming expansion scenarios for pest control: a modeling approach

Thomas Delatre, Mohamed-Mahmoud Memah, Pierre Franck, Pierre Valsesia, Claire Lavigne

doi: <https://doi.org/10.1101/2022.05.31.494006>

Now published in *Peer Community Journal* doi: [10.24072/pcjournal.251](https://doi.org/10.24072/pcjournal.251)

Revision Summary

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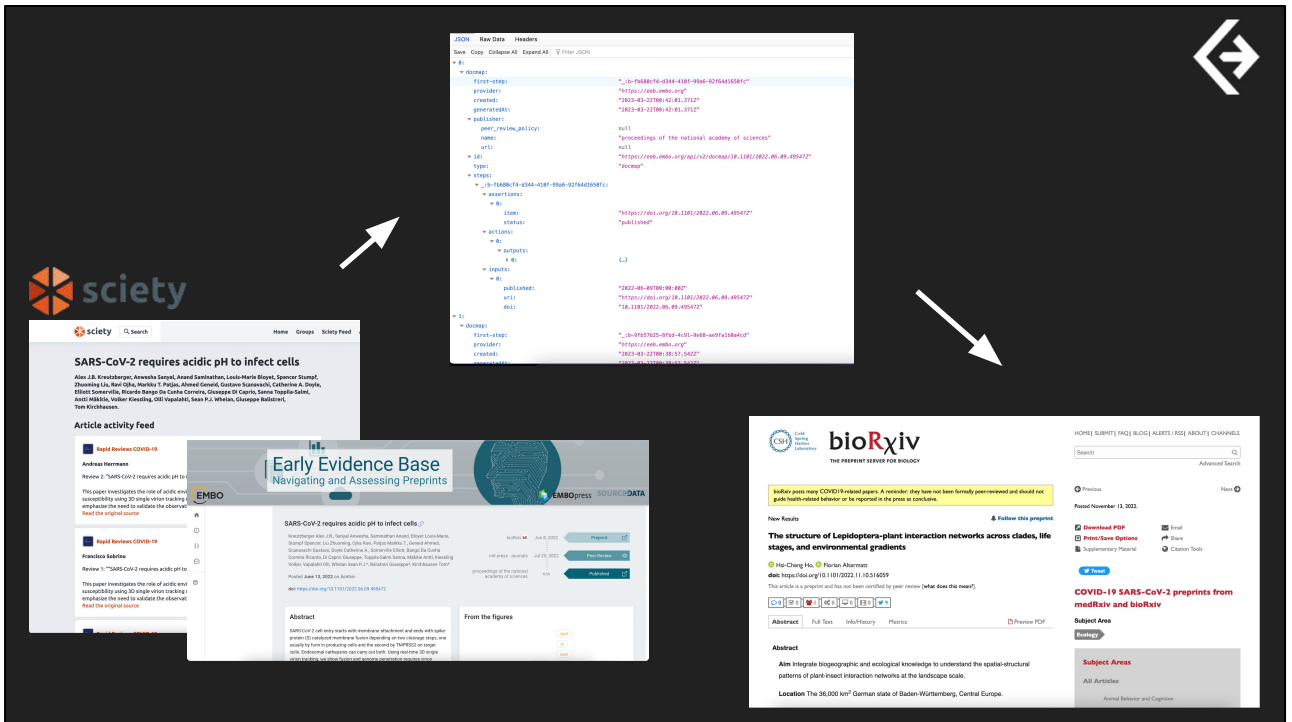
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Ecology 

Best organic farming expansion scenarios for pest control: a modeling approach

Delatre, Thomas¹; Memah, Mohamed-Mahmoud¹; Franck, Pierre¹; Valsesia, Pierre¹; Lavigne, Claire¹

10.24072/pcjournal.251 - Peer Community Journal, Volume 3 (2023), article no. 406.



In this year of DocMaps, we developed a [software development kit](#) for producing and consuming Docmaps, reached out to preprint servers and review communities to assess integration needs, and worked on [specifications for APIs](#) and display purposes. We participated in [conversations](#) and [presentations](#) about preprint review metadata, and found the community invested in its open-source development and community governance. Following the success of the implementation group, we were able to expand the number and variety of groups with whom they interact, and learn about key needs for metadata transfer pathways among stakeholders.

Over 12,000 docmaps are created and/or consumed via platforms from five organizations (Cold Spring Harbor Laboratory, eLife, Europe PMC, Kotahi, and EMBO), relating to thousands of community reviews, publications, and other preprint artifacts. In addition to the technical outputs of this year, we are proud of three major achievements in preprint review:

- **Increase in preprint review adoption as evidenced by docmaps created for 14 preprint review communities, ingested by bioRxiv, medRxiv, and Europe PMC.**
- **Increase in preprint reviews created as a result of integrations with preprint review management tools like Kotahi**
- **Over 9,000 preprint reviews are visible as a result of integration with aggregators and preprint servers: Over 9,000 preprints are labeled as “reviewed” within ePMC’s discovery portal, with links to external reviews &**

- evaluations sourced from a variety of different community groups, peer review platforms and publishers.

Get In Touch

Visit github.com/Docmaps-Project to view code

Visit docmaps.knowledgefutures.org to read more about the project + updates

Reach out to discuss adopting DocMaps at

docmaps@knowledgefutures.org



society



THE PREPRINT SERVER FOR BIOLOGY



Europe PMC