A Crowdfunding Mechanism for Replication Studies

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Introduction:

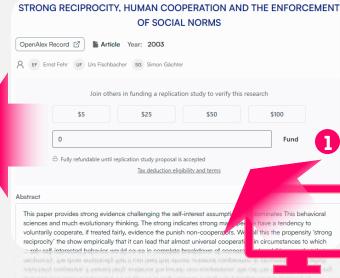
Independent replication studies are essential to the scientific method. Yet, they are difficult to publish, often underfunded, and there is no effective, public system to prioritize which studies should be replicated.

We will launch a public crowdfunding mechanism for replication studies on DeSci Publish. Thanks to our search engine and full integration with OpenAlex, people will be able to start replication pools for >250m publications.

\$5,000 in replication fund reached



DeSci Publish Application



Method:

- DeSci Publish enables users to fund replications for >250m publications.
- All studies that received replication funds will be displayed on a website, along with total funds contributed, number of funders, and project status.
- Once a \$5000 threshold is met, a call for proposals for a replication study is issued.
- Independent experts will review the proposals and select the most costeffective and viable analysis plan.
- Based on their selection, the funding goal and deadline for the replication study are announced on the platform.
- If the funding goal is reached within the deadline, the selected proposal receives 80% of the funds upfront, with the remaining 20% disbursed after the results are published and evaluated on the platform.
- If the goal is not reached, the collected funds are converted into a prize. This prize can be claimed by anyone who completes a high-quality replication of the study, as validated by independent experts.

Call for Proposals with deadline is issued **DeSci Foundation** Post replication proposal with budget Scientists on DeSci Publish Proposals are openly reviewed by a new Editors and referees Journal for Replication Studies of the Journal of on DeSci Publish Replication Studies Extend deadline Independent reviewers No Viable proposal? and advisors of **DeSci Foundation** Yes Independent reviewers Cheapest viable proposal is selected and advisors of **DeSci Foundation** Funding target and funding deadline DeSci Publish Application for study are announced Funding target Yes No reached before deadline? Fund replication study Collected funds are ex-post 80% upfront prize for those who conduct a 20% ex-post replication of this study Replication study is openly reviewed by the

Replication Community on DeSci Publish

What can you do?

1. Apply to become an editor/referee for the 2. new Journal of Replication Studies! The DeSci Foundation will pay \$100 for evaluating an analysis plan or a replication study in less than 3 weeks. QR code below.

Play a part in developing better open science tools: Try out DeSci Publish and give feedback! QR code below.

■ Supporter Sign-up Form



https://nodes.desci.com DeSci Publish App

Conclusion:

The crowdfunding mechanism for replication studies on DeSci Publish addresses gaps in the current system, fostering rigor and transparency. The decentralized, scalable design encourages broad participation, paving the way for more reliable and reproducible science.



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