

Open Science and Signals of Trust

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Chief Product Officer



— CENTER FOR —
OPEN SCIENCE



Open Science

Transparency and openness
across the research lifecycle

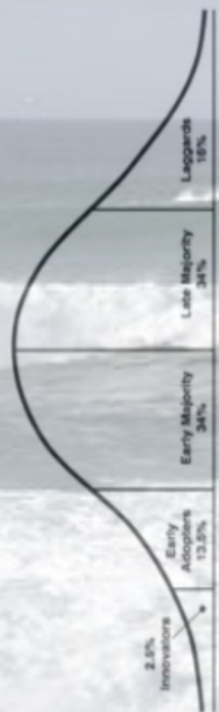


Trust

Verification, review, and
evaluation



Open Science Adoption and Culture Change



Make it required

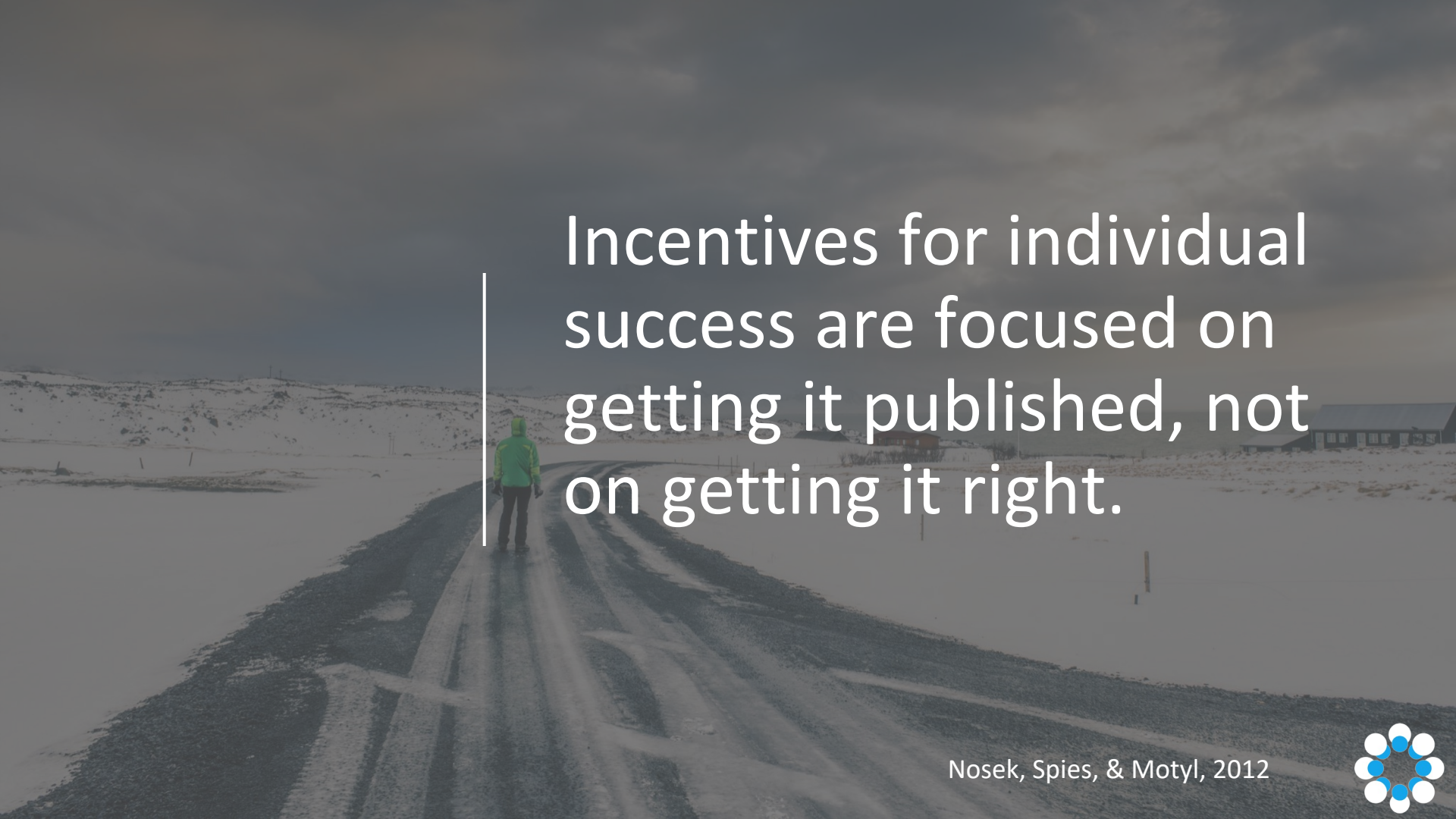
Make it rewarding

Make it normative

Make it easy

Make it possible



A person wearing a bright green jacket and dark pants is walking away from the camera on a wide, gravel-covered path. The path is flanked by snow-covered fields and hills under a cloudy sky. In the distance, a small building is visible on the right. The overall scene is a winter landscape.

Incentives for individual
success are focused on
getting it published, not
on getting it right.

Nosek, Spies, & Motyl, 2012



The End.

Reproducibility

Start with the end in mind

Show your work, Share your work

ALL the work!



Scholarly publication and open science

New models to advance rigor, transparency, and rapid dissemination



**I post
preprints**
ASAPbio.org



Publication models that advance openness and rigor

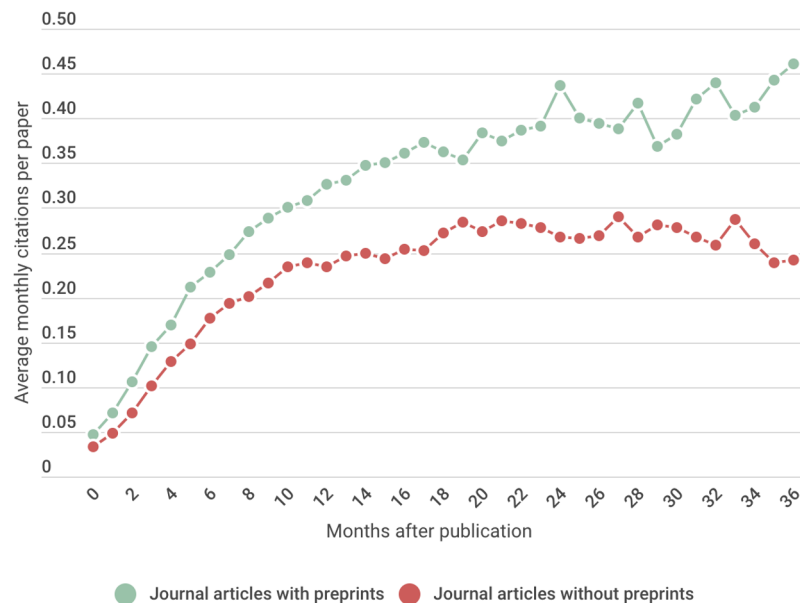
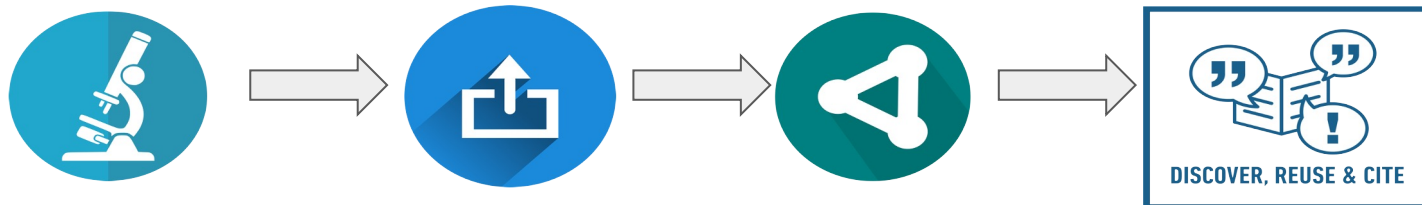
Registered Reports

- Improve research quality
- Peer review prior to data collection
- Over 200 journals use RR format
- Null findings get published



Preprints

Conduct research Simple upload Rapid sharing Discovery & reuse



[See the full preprint on bioRxiv](#)

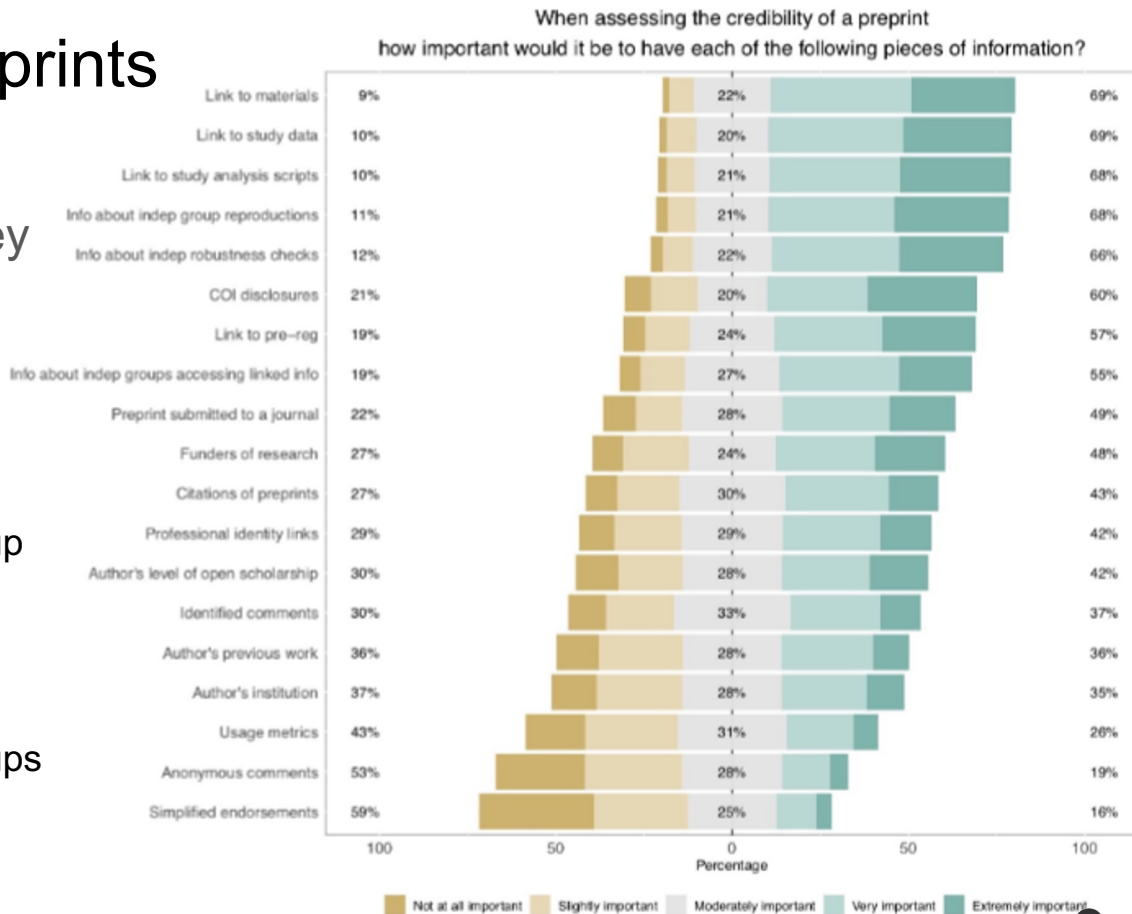


Signals of Trust on Preprints

Collaboratively developed Survey
of community (n=3755)

Extremely important to have this information:

- Link to materials
- Link to study data
- Link to analysis scripts
- Information about independent group reproductions
- Information about independent robustness checks
- Conflict of interest disclosures
- Link to pre-registration
- Information about independent groups accessing linked information



Author assertions toward badges to signal trust

Author Assertions

Public Data: (required)

☒ Available ☐ No ☐ Not applicable

Links to data: (required)

Data refers to raw and/or processed information (quantitative or qualitative) used for the analyses, case studies, and/or descriptive interpretation in the preprint. Public data could include data posted to open-access repositories, public archival library collection, or government archive. For data that is available under limited circumstances (e.g., after signing a data sharing agreement), choose the 'No' option and use the comment box to explain how others could access the data.

Preregistration: (required)

☒ Available ☐ No ☐ Not applicable

Links: (required)

Type: (required)

Choose one

Study Design

Analysis Plan

Both

The description should appear in a public registry (e.g., clinicaltrials.gov, OSF, AEA registry).

OSFPREPRINTS

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Neutrophils and Leukocytes on Shallot Spraying Farmers

AUTHORS
Rohmatul Mukharomah

AUTHOR ASSERTIONS
Conflict of Interest: No

Public Data: Available <https://ijosth.com/research/vol-1-no-1/13/>

Preregistration: Available <https://osf.io>

Download preprint

plaudit Be the first to review

Abstract

Brebes is one of the producer onion highest in the use of pesticides. Pesticide will can be toxic if entry the body. So can disturb blood profiles spray farmers onion, increase Leukocyte and neutrophil in case of infection. Knowing description leukocyte and neutrophil on onion spray farmers at village Karanganyar Larangan Brebes. Method of this research uses descriptive research with cross sectional type of study. sampel is 31 onion spray farmers at village Karanganyar Larangan Brebes. Research result for leukocyte 28 spray onion farmer have according to the reference value and 3 spray onion farmer have exceeds the reference value. Neutrophil on onion spray farmers 16 has according to the reference value, 12 farmer under to the reference, 2 farmer exceeds the reference, and 1 farmer has a critical value. Means of neutrophil is 51 % in spray farmers onion at village Karanganyar Larangan Brebes, means of leukocyte 8300/μl. Percentage of neutrophil 90,32% according of the reference, 9,68% exceed to the reference, 38,68% under to the reference.

Preprint DOI
10.31219/osf.io/wtb46

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