

CHORUS Forum: What Article Version Best Supports Research Integrity?

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What makes a *Science* paper?

- **Significantly advance scientific understanding**
- **Present novel and important data, syntheses or concepts**
- **Have broad interest to the scientific community and beyond**
- **High technical quality**

Standards of peer review at *Science*

- **Assessment by Ph.D.-level staff editors**
- **Consultation with external scientists on Board of Reviewing Editors**
- **In-depth review & evaluation by two or more experts**
- ***Science* accept rate: 6.4%**

Types of changes to the Version of Record (“VOR”)

- **Editorial Expression of Concern**
- **Correction (a, b, c)**
- **Retraction**
- **Name change policy**

How often does *Science* publish changes to the VOR?

	Expression of Concern	Retraction
2015	2	5
2016	2	3
2017	1	3
2018	1	
2019	2	3
2020	1	5
2021	2	
Grand Total	11	19

How does *Science* publicize changes to the VOR?

Notify	Notify authors & affiliated press officers before publication; they help disseminate the update
Notify	Notify 6,000+ journalists during the embargoed period
Publish	Publish changes on Science's site with clear notations

How do reporters cover changes to the VOR, like retractions?

Los Angeles Times



Study linking police violence and black infants' health is retracted



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What COVID-time
Science authors
are saying about
visibility at
preprint versus
publication stage

“We had an associated preprint and received some press interest from that, but the visibility **expanded massively** with publication in *Science*.”

“Publishing in *Science* helped our article gain visibility within the field and gave it a stamp of approval that increased its profile substantially over the preprint. Publishing in *Science* also helped our work **enter into policy** and mainstream conversation almost immediately.”

Preprints at peer review: How do they change?

- Two studies in PLOS recently suggested COVID preprints don't change much at peer review. **What is the reality at Science, though?**



Preprints 'largely unchanged' by peer review, even during Covid

Two separate studies, including one that looked at early Covid papers, suggest majority of alterations are minimal

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