

## **UC Davis**

### **UC Davis Previously Published Works**

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Social priming: time to ditch a dubious term?

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Peer reviewed

# Correspondence

## Fast peer review for COVID-19 preprints

The public call for rapid sharing of research data relevant to the COVID-19 outbreak (see [go.nature.com/2t1lyp6](https://go.nature.com/2t1lyp6)) is driving an unprecedented surge in (unrefereed) preprints. To help pinpoint the most important research, we have launched Outbreak Science Rapid PREreview, with support from the London-based charity Wellcome. This is an open-source platform for rapid review of preprints related to emerging outbreaks (see <https://outbreaksci.prereview.org>).

These reviews comprise responses to short, yes-or-no questions, with optional commenting. The questions are designed to capture structured, high-level input on the importance and quality of the research, which can be aggregated across several reviews. Scientists who have ORCID IDs can submit their reviews as they read the preprints (currently limited to the medRxiv, bioRxiv and arXiv repositories). The reviews are open and can be submitted anonymously.

Outbreaks of pathogens such as the SARS-CoV-2 coronavirus that is responsible for COVID-19 move fast and can affect anyone. Research to support outbreak response needs to be fast and open, too, as do mechanisms to review outbreak-related research. Help other scientists, as well as the media, journals and public-health officials, to find the most important COVID-19 preprints now.

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**Daniela Saderi** PREreview, Portland, Oregon, USA.

## Ethics of editing human genomes

As leaders of the national ethics committees of France and Germany, and of the UK Nuffield Council on Bioethics, we consider that the moral and societal issues raised by developments in heritable human-genome editing demand a level of public ethical reflection that current initiatives fail to meet.

In a joint statement, we call on governments and stakeholders worldwide to ensure that heritable genome editing is brought within the control of relevant public authorities (see [go.nature.com/3ck1mc](https://go.nature.com/3ck1mc)). Furthermore, no clinical applications should be considered until there has been broad societal debate about their acceptability and until research has reduced the considerable risks of clinical use to an acceptable level. Measures must be in place to ensure that these risks can be properly assessed and monitored.

Moreover, any ethically permissible application of human genome editing should not increase disadvantage, discrimination or division in society. The large range of conceivable applications, as well as their implications for families, society and future generations, calls for cautious, responsible and transparent governance (see also [go.nature.com/3c9fe1](https://go.nature.com/3c9fe1)).

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**Jean-François Delfraissy** National Consultative Ethics Committee for Health and Life Sciences, Paris, France.

## Peru's research: CONCYTEC responds

As president of Peru's National Council of Science, Technology and Technological Innovation (CONCYTEC), I disagree that the government is not showing sufficient interest in the country's research (see *Nature* **576**, S65–S67; 2019).

The government's expenditure on research and development has increased over the past decade, and this year sees its highest budget ever, at 214 million soles (US\$63 million; see [go.nature.com/2ufux1k](https://go.nature.com/2ufux1k), in Spanish). And some public universities are investing their royalties from natural resources such as mining into research infrastructure and projects.

A 2018 report by Elsevier commissioned by CONCYTEC indicates that Peru's field-weighted citation impact in 2013–17 was above the world's average. And, according to SCImago rankings, Peru's research is becoming less dependent on international collaborations, with more than 40% of its publications in 2018 exclusively authored by Peruvian scientists.

Last May, the government passed a law to attract and retain more highly qualified scientists. CONCYTEC, with the support of a World Bank project, incorporated 181 local and foreign researchers into Peruvian institutions in 2019.

Notwithstanding these efforts, we recognize that we still have a long way to go in improving Peru's research.

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## Social priming: a dubious term

The great replicability mystery of 'social priming' in psychology (*Nature* **576**, 200–202; 2019) turns out to reflect a mundane fact: priming studies (social or non-social) that use reliable methods are highly replicable, whereas those that don't are not. In our view, it is time to dispense with the term once and for all.

Social priming occurs when exposure to a social concept or stimulus affects later behaviour. One problem is that there is no clear social component to much of what is defined as social priming (in priming with numbers or the idea of death, for example). And many studies that are obviously social (such as priming with stereotypes) are excluded.

Furthermore, those studies identified as social priming almost exclusively collect a single response to a single prime per subject, whereas others that collect hundreds of responses to multiple primes are excluded from analyses of social priming. Thus, social-priming studies have less power to detect real effects and are more prone to false positives.

Dozens of priming effects using social stimuli are designed to observe multiple behaviours and are highly replicable. But when a non-social priming study measures only a single response per subject, the effects are – unsurprisingly – weak and unreliable (see A. M. Rivers and J. W. Sherman Preprint at PsyArXiv <http://doi.org/dng4>; 2018).

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