

Preprints are a boon for research integrity!

Deborah Sweet

VP of Editorial, Cell

Press/Elsevier

Record of form that precedes peer review





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New Results

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Preview

Cytoplasmic import and processing of mRNA amplify transcriptional bursts accounting for the majority of cellular noise

Metrics

Maike M. K. Hansen, Ravi V. Desai, Michael L. Simpson, Leor S. Weinberger doi: https://doi.org/10.1101/222901

Now published in Cell Systems doi: 10.1016/j.cels.2018.08.002

Abstract

Full Text In

Info/History

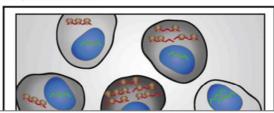
Received: April 18, 2018 Revised: June 14, 2018 Accepted: August 2, 2018 Published: September 19, 2018 **Cell Systems**

19 Sep 2018

Article

Cytoplasmic Amplification of Transcriptional Noise Generates Substantial Cell-to-Cell Variability

Graphical Abstract



Authors

Maike M.K. Hansen, Ravi V. Desai, Michael L. Simpson, Leor S. Weinberger

Correspondence

leor.weinberger@gladstone.ucsf.edu

In Brief

Peer Review

Evaluation of Hansen et al.: Nuance Is Crucial in Comparisons of Noise

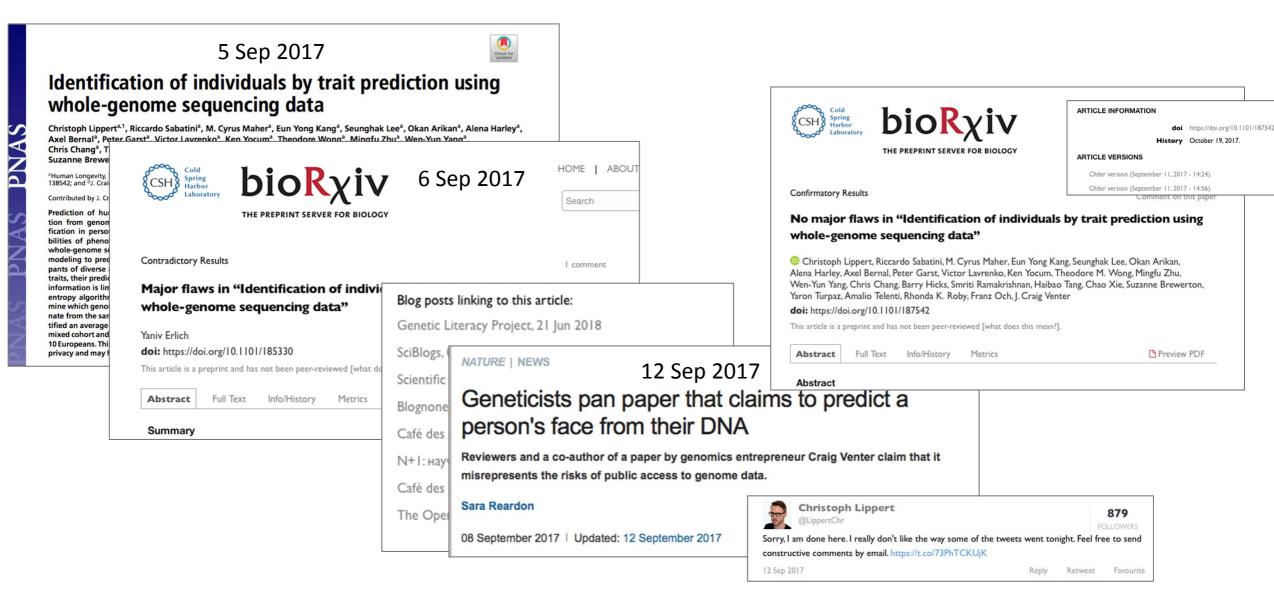
Noah Olsman, Fangzhou Xiao, and John Doyle 1,8

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https://doi.org/10.1016/j.cels.2018.10.003

One snapshot of the peer review process for "Cytoplasmic Amplification of Transcriptional Noise Generates Substantial Cell-to-Cell Variability" (Hansen et al., 2018).

Countering criticism & adjusting claims



Rapid communication of contradictory results

ARTICLE

2 Aug 201

doi: https://doi.org/10.1101/181255



Inter-homologue repair in fertilized human eggs?

Dieter Egli, Michael V. Zuccaro, Michal Kosicki, George M. Church, Allan Bradley, Maria Jasin

doi:10.1

Contradictory Results

Hong Ma1*, Nuria Marti-Gutierr Tomonari Hayama¹, Riffat Ahme Sang-Tae Kim2, Jianhui Gong5,6 Don P. Wolf¹, Stephen B. Heitner Shoukhrat Mitalipov1,108

Genome editing has potenti the heterozygous MYBPC3 n accuracy and high homolog response. Induced double-s homologous wild-type mate the DSB was induced, we we embryos carrying the wild-t safety of the approach presen embryos by complementing applications, including the re

Correction of a pathogenic gene mutation in human embryos

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Inter-homologue repair in fertilized human eggs?

Dieter Egli 1,*, Michael V. Zuccaro2, Micha

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28 August 2017

Change history

conclusions of this paper are subject considered by editors. Some of these resolution of these issues.

August 2018



Brief Communications Arising Published: 08 August 2018

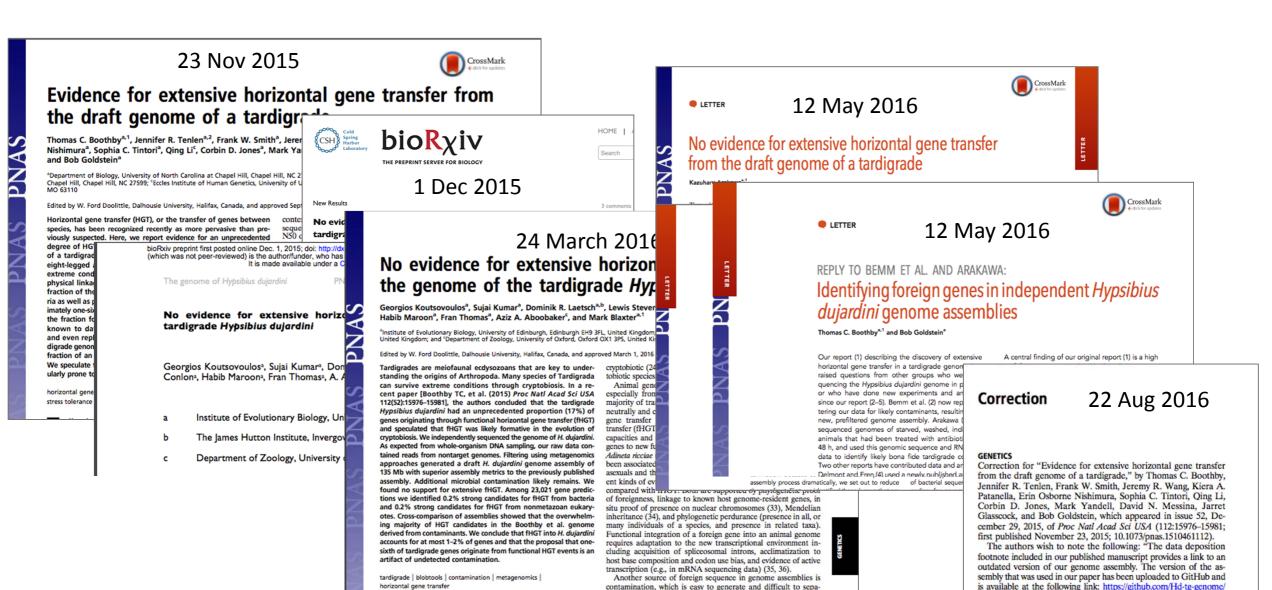
02 October 2017 Editorial Note: Reade Inter-homologue repair in fertilized human eggs?

deposited in preprint form. A further Dieter Egli M, Michael V. Zuccaro, Michael Kosicki, George M. Church, Allan Bradley & Maria Jasin M

Nature 560, E5–E7 (2018) Download Citation ±

ARISING FROM H. Ma et al. Nature **548**, 413–419 (2017); https://doi.org/10.1038/nature23305

Rapid highlighting of data problems



rate. Genomic sequencing of small target organisms requires the

PNAS response/tree/master/Postfiltered assembly."

www.pnas.org/cgi/doi/10.1073/pnas.1613046113

Think of all the things preprints can do....

- 1. Record what a paper was like before peer review
- 2. Allow authors to counter criticism/respond to discussion
- 3. Speedy communication of contradictory results
- 4. Highlighting problems with data/analysis
- 5. Helping authors refine their paper before they formally submit
- 6. Giving a home to negative results
- 7. Validation and confirmation of results

Think about a paper you know that turned out to be problematic.

Would that situation have been different if the paper had been put out as a preprint first?