

Drinking From The Firehose

Preprints, Chinese Scientists, and the Diffusion of Research on
COVID-19

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November 20th 2020

COVID-19 and Preprints

medRxiv
THE PREPRINT SERVER FOR HEALTH SCIENCES



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medRxiv is receiving many new papers on coronavirus SARS-CoV-2. A reminder: these are preliminary reports that have not been peer-reviewed. They should not be regarded as conclusive, guide clinical practice/health-related behavior, or be reported in news media as established information.

COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

9076 Articles (7145 medRxiv, 1931 bioRxiv)

Most recent first

Page 1: Articles 1-10 | Next

Sequence Analysis for SNP Detection and Phylogenetic Reconstruction of SARS-CoV-2 Isolated from Nigerian COVID-19 Cases

Taiwo, I. A., Adeleye, N., Anwoju, F. O., Adeyinka, A., Uzoma, I. C., Bankole, T. T.
10.1101/2020.09.25.3110078 — Posted: 2020-09-25

A high-affinity RBD-targeting nanobody improves fusion partner's potency against SARS-CoV-2

Yao, H., Cai, H., Li, T., Zhou, B., Qin, W., Lavillette, D., Li, D.
10.1101/2020.09.24.312595 — Posted: 2020-09-25

Reinfection with SARS-CoV-2 and Failure of Humoral

Subject Areas

All Articles

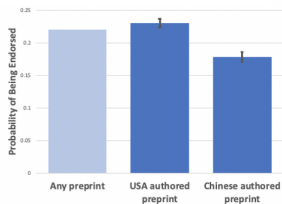
- Addiction Medicine
- Allergy and Immunology
- Anesthesia
- Cardiovascular Medicine
- Dentistry and Oral Medicine
- Dermatology
- Emergency Medicine
- Endocrinology (including Diabetes Mellitus and Metabolic Disease)
- Epidemiology

'Eleven o'clock, 12 o'clock comes and you have 25 of these things to read... You can't ignore them... [but] it gets a little confusing what you can really believe..'
Anthony Fauci - NIAID Director 2020

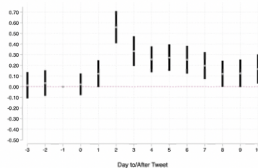
Chinese Preprints Receive Less Attention

| | (1) | (2) | (3) | (4) | (5) |
|---|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Dependent variable | PDF downloads | | | Tweets | |
| USA author | 0.30*** (0.046) | 0.15*** (0.051) | 0.16*** (0.051) | 0.15*** (0.050) | 0.14*** (0.036) |
| Chinese author | -0.12* (0.063) | -0.17*** (0.063) | -0.21*** (0.063) | -0.19*** (0.062) | -0.27*** (0.387) |
| Author in top 50 ranked institution | | X | X | X | X |
| Author location % of global COVID-19 cases | | | X | X | X |
| Source Normalized Impact Factor (SNIP) of publication outcome | | | | X | X |
| Field FE, posted month FE, month after posting FE | X | X | X | X | X |
| Nb preprint-month observations | 22,235 | 22,235 | 22,235 | 22,235 | 22,235 |
| Nb preprints | 4,447 | 4,447 | 4,447 | 4,447 | 4,447 |

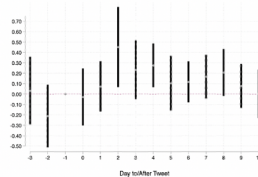
Twitter Endorsements Drive Attention...



PDF downloads

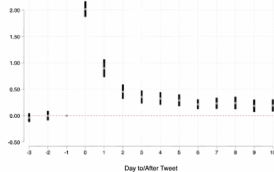


Panel A. All preprints

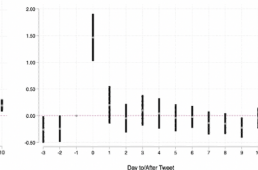


Panel B. Chinese authored preprints

Tweets



Panel A. All preprints



Panel D. Chinese authored preprints

... for some preprints more than others

- Chinese authors struggle to get attention to their work.
- Bias in attention could lead to under-recognition of important breakthroughs.
- The attention gap presents a central barrier to participation in global science.