


Metagenomics based discovery...

3X increase in size of the tree of life, including 10,928 new viruses
(vs. JGI/NCVBI)

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Recovery of nearly 8,000 metagenome-assembled genomes substantially expands the tree of life

 Cell

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A global metagenomic map of urban microbiomes and antimicrobial resistance

[David Danko](#) ⁶⁸ • [Daniela Bezdan](#) ⁶⁸ • [Evan E. Afshin](#) • ... [Sibo Zhu](#) • [Christopher E. Mason](#) ⁶⁹  • [The International MetaSUB Consortium](#) • [Show all authors](#) • [Show footnotes](#)

[Open Access](#) • Published: May 26, 2021 • DOI: <https://doi.org/10.1016/j.cell.2021.05.002>

<https://www.nature.com/articles/s41564-017-0012-7>
[https://www.cell.com/cell/fulltext/S0092-8674\(21\)00585-7](https://www.cell.com/cell/fulltext/S0092-8674(21)00585-7)

and >800K new CRISPR arrays

