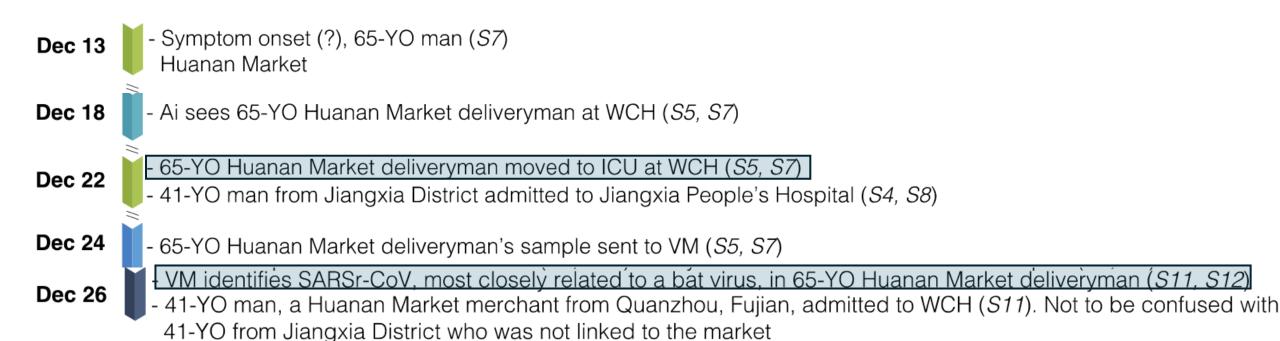
## Astory that should be better known:





Dissecting the early COVID-19 cases in Wuhan

Elucidating the origin of the pandemic requires understanding of the Wuhan outbreak

MICHAEL WOROBEY Authors Info & Affiliations

PERSPECTIVE | VIEWPOINT: COVID-19

**SCIENCE** • 18 Nov 2021 • Vol 374, Issue 6572 • pp. 1202-1204 • <u>DOI: 10.1126/science.abm4454</u>

### Astory that should be better known:

Dec 27

- Zhang at HPHICWM notes ground glass opacities in Cluster 1 couple and their son (S8, S9) Zhang at HPHICWM sees fourth case, Huanan worker (S8, S9)
- HPHICWM alerts Jianghan District CDC of new viral disease, likely infectious (S9, S10)
- Ai at WCH sees second case (S5, S7)
- VM phones WCH by noon to report that 65-YO deliveryman is SARSr-CoV-positive (S12)
- VM generates near-complete genome of SARS-CoV-2 (S12)

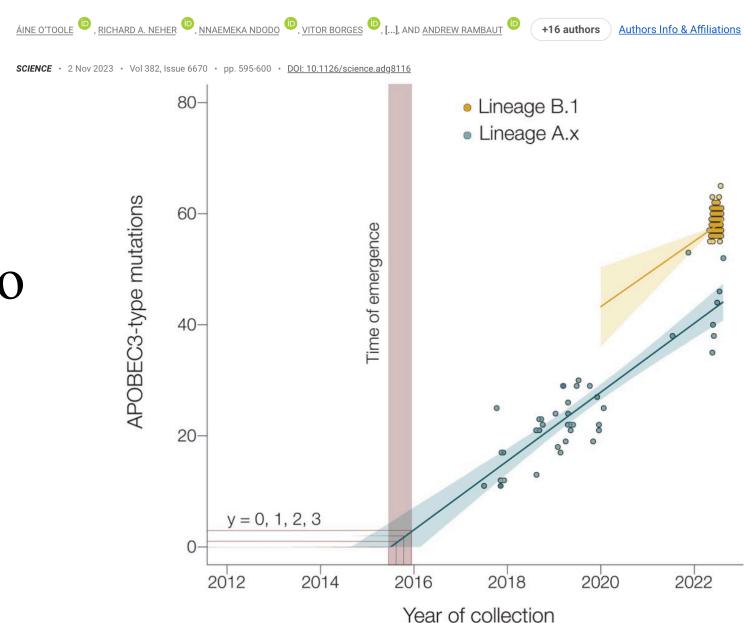
Jan 11

- Zhang Yongzhen breaks gag order, releases Wuhan-Hu-1 genome with help of Edward Holmes and Andrew Rambaut (S18)

- Chinese government announces human-to-human transmission (S23)

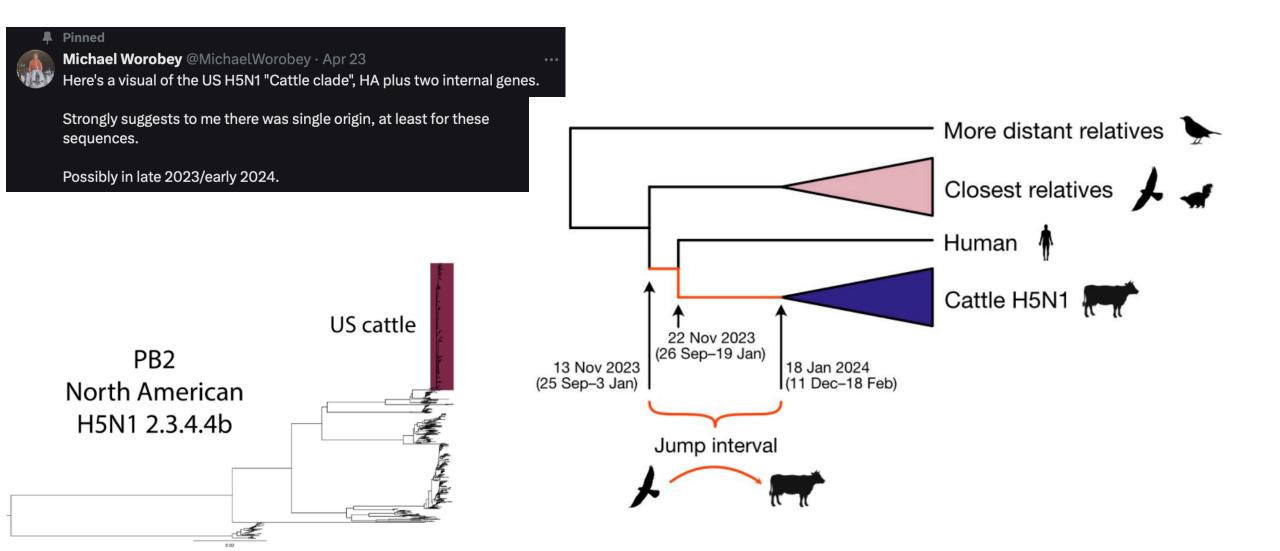
Science

# APOBEC3 deaminase editing in mpox virus as evidence for sustained human transmission since at least 2016



How did we do with mpox:?

#### How did we do with H5N1 in cattle?



# One simple point: unleash the power of metagenomic sequencing for early detection

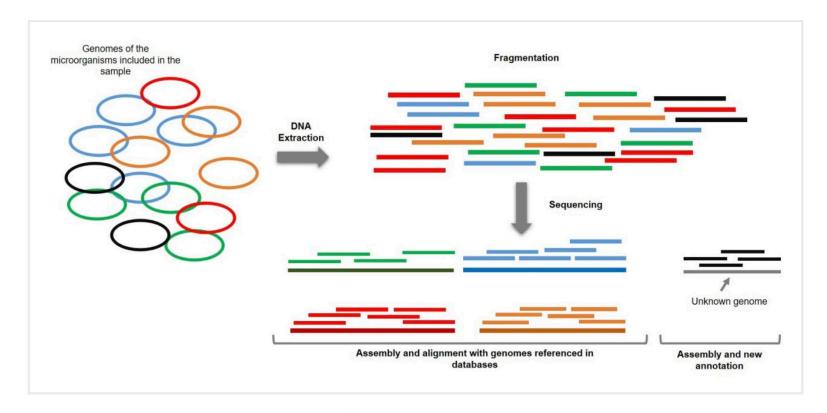


Fig1. Shotgun metagenomics

Dec 26

- 41-YO man, a Huanan Market merchant from Quanzhou, Fujian, admitted to WCH (S11). Not to be confused with 41-YO from Jiangxia District who was not linked to the market