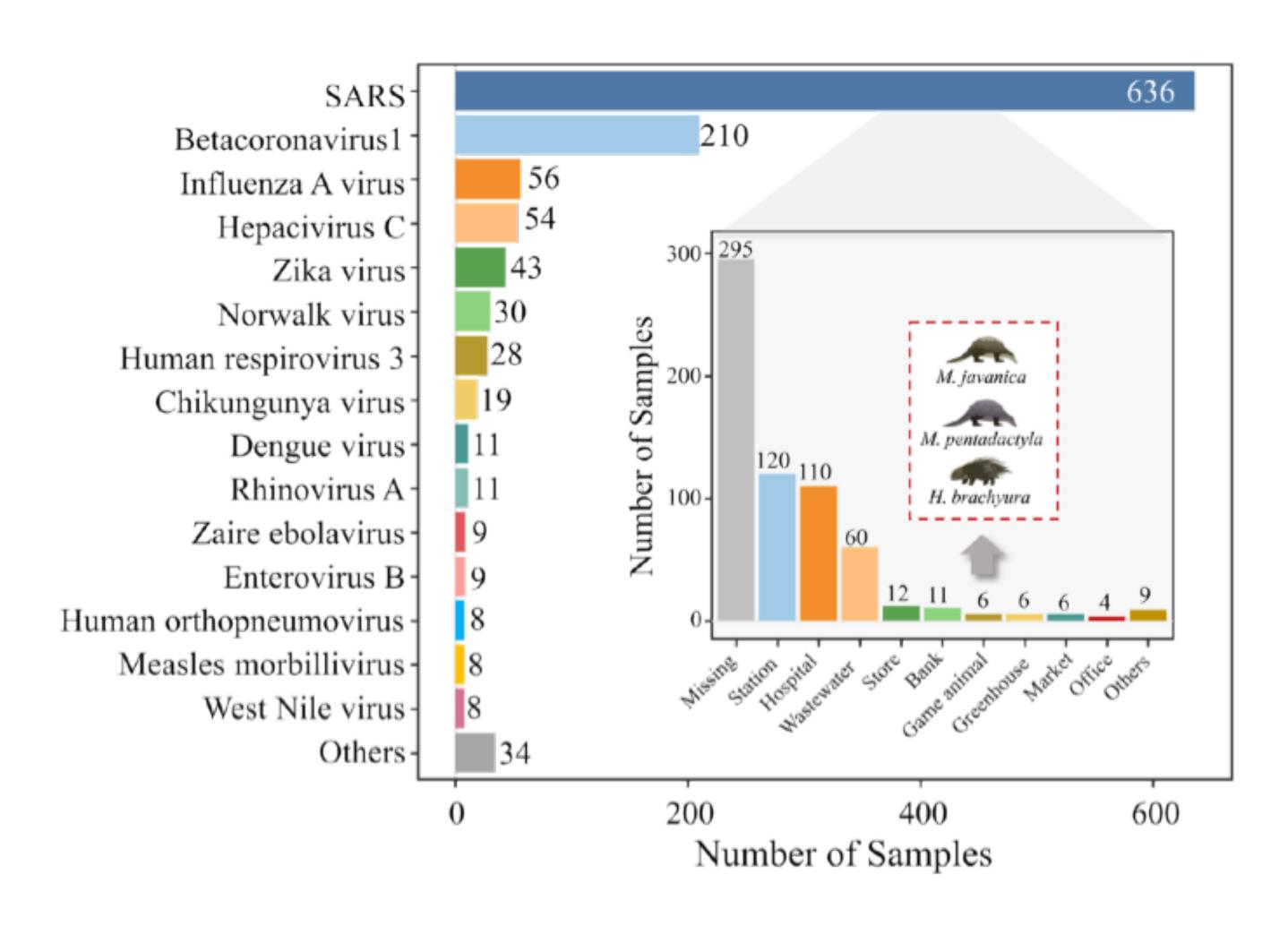
Prevalence of human pathogenic RNA viruses in various environments



Highlights of the MetaCov project

- Deepest metatranscriptomic profiling of global cities to date.
 - We examined >3.3K samples (collected 1H2020), containing >100B reads to study RNA virus biology in urban environments, hosts, and pathogenicity.
- Our analysis uncovered two novel *Duplornaviricota* phyla supporting the polyphyletic nature of this clade, with support from the published literature (Neri *et al.*, 2022, Zayed *et al.*, 2022).
- Selection analyses of RdRp identified amino acid sites with directional selective pressures, this may describe local adaption of viral groups.