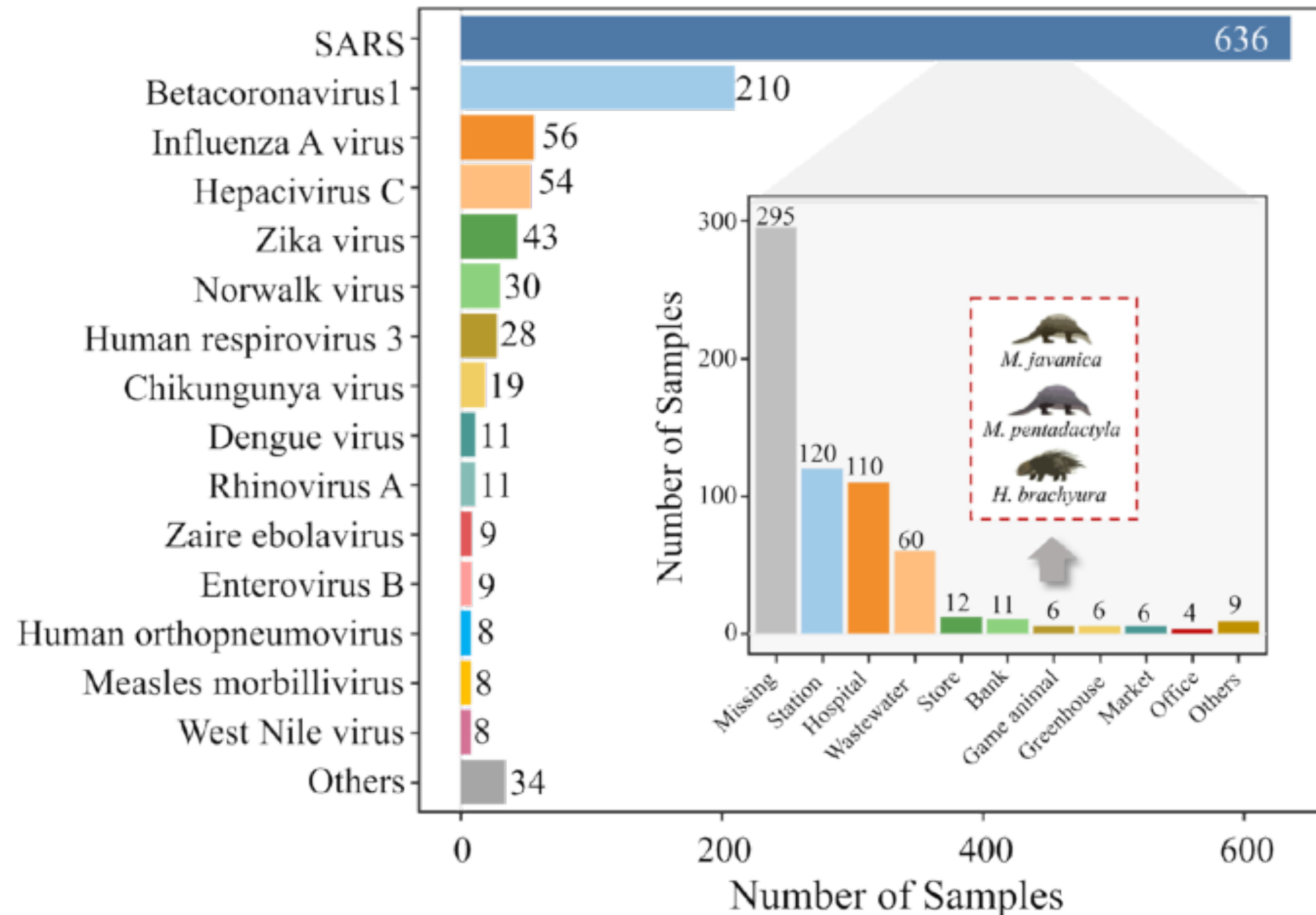


Prevalence of human pathogenic RNA viruses in various environments



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.