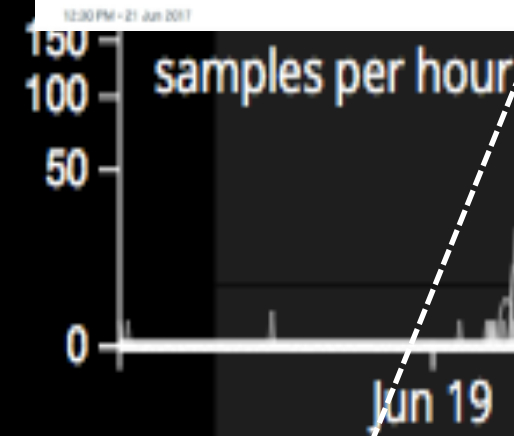
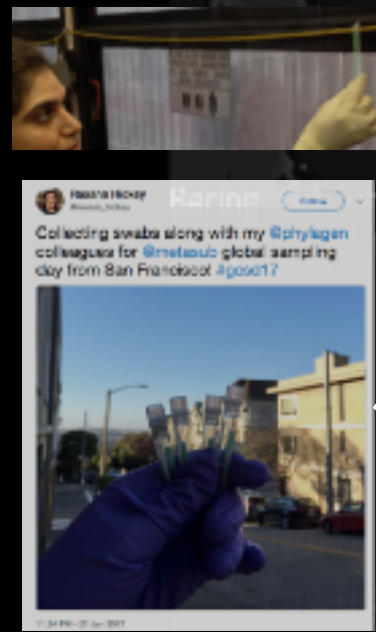


- Partition a pathogen tree into **terminal** and **internal** branches
- **Terminal branches** potentially include “dead-end” lineages, i.e. those which are maladaptive
- **Internal branches** include at least one “*transmission*” (intra-species) or “*replication*” (intra-host) events: stronger action of selection
- Focusing on a subset of branches can allow one to interpret dN/dS more precisely



Worldwide MetaSUB collection

2016 = 6,058 samples
 2017 = 7,309 samples
 2018 = 6,104 samples
 2019 = 9,320 samples
 2020 = 7,991 samples
 2021 = 6,242 samples
 2022 = 4,392 samples
 2023 = 2,830 samples



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