

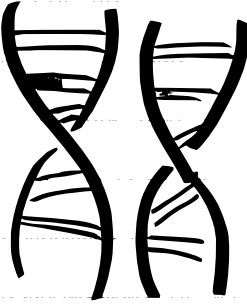


evolution →
~~##~~ Viral variants 

PAST

 Long
 compute-intense
Lineage categori-
zation 
 by hand
→ prone to error 

NOW

 fast
objective
 Single nucleotide polymorphisms
SNPs
Map changes genetic population over time
→ t

More accurate forecast of potential surges in disease incidence.



MR