A

NFP

Polyclonal serum → Serum neutralization ≈ Component antibodies

Epitope *A*
Epitope *B*
Epitope *C*
Epitope *D*

B

Algorithm feature	Original NFP	Next-gen NFP
Prediction module for polyclonal neutralization	Linear combination of bNAb specificities	Linear combination of bNAb specificities
bNAb reference set	9 bNAb groups + CD4	Updated with newly discovered bNAbs
Virus neutralization panel	Fixed; 21 strains	Problem-specific optimization
Prediction of potentially novel bNAb specificities	✘	✓
Prediction confidence scores	✘	✓
Population-level analysis	✘	✓