

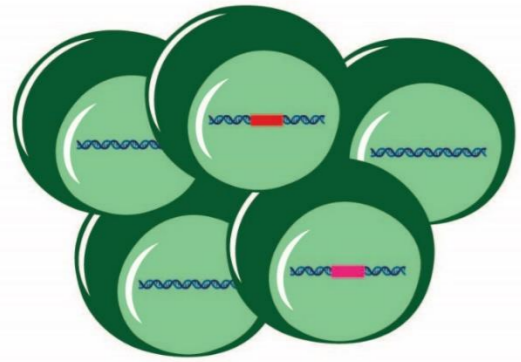


LONG-READ SEQUENCING ASSAY ALLOWS ACCURATE CHARACTERIZATION OF THE HIV-1 RESERVOIR

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30/11/2021

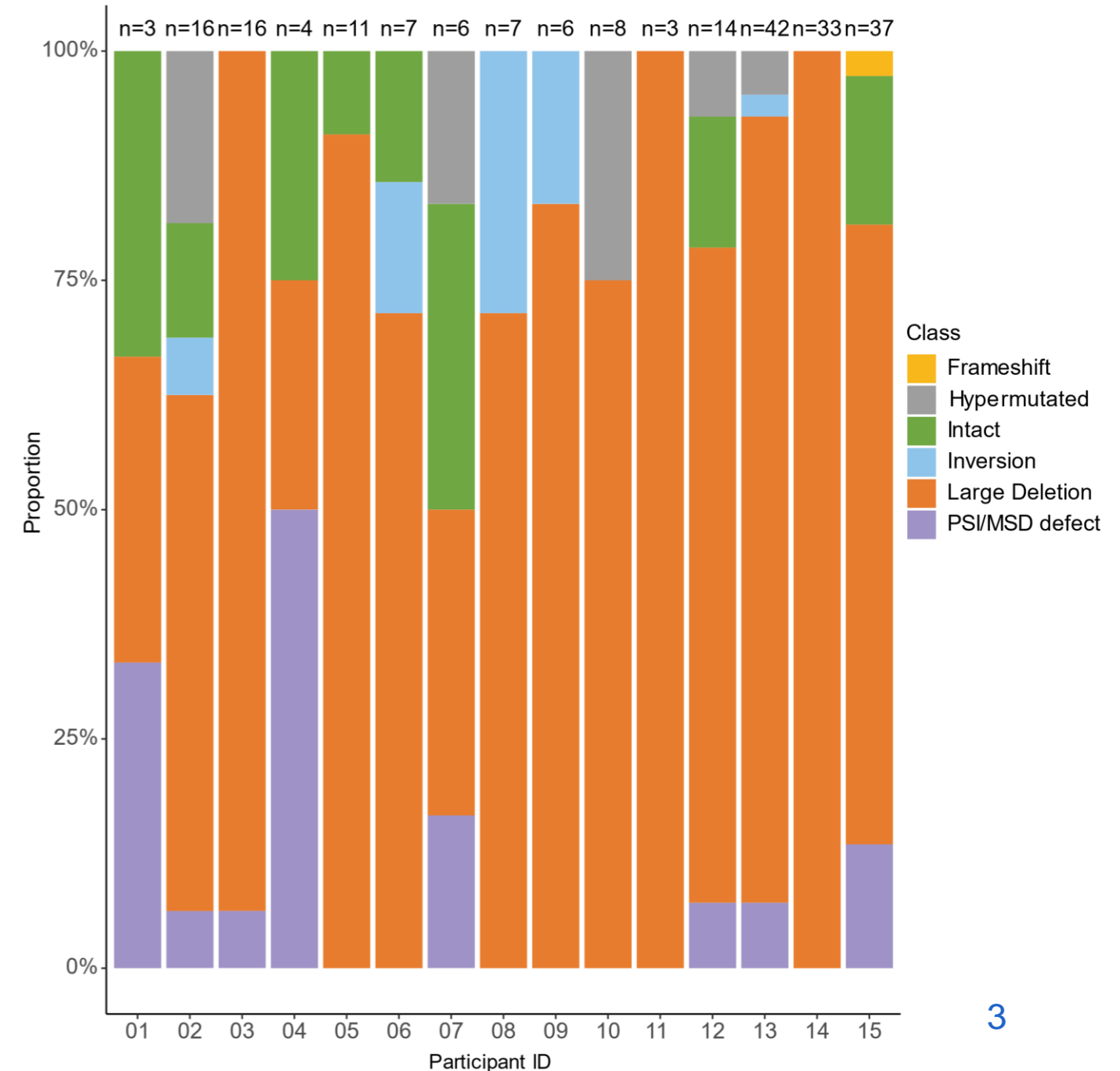
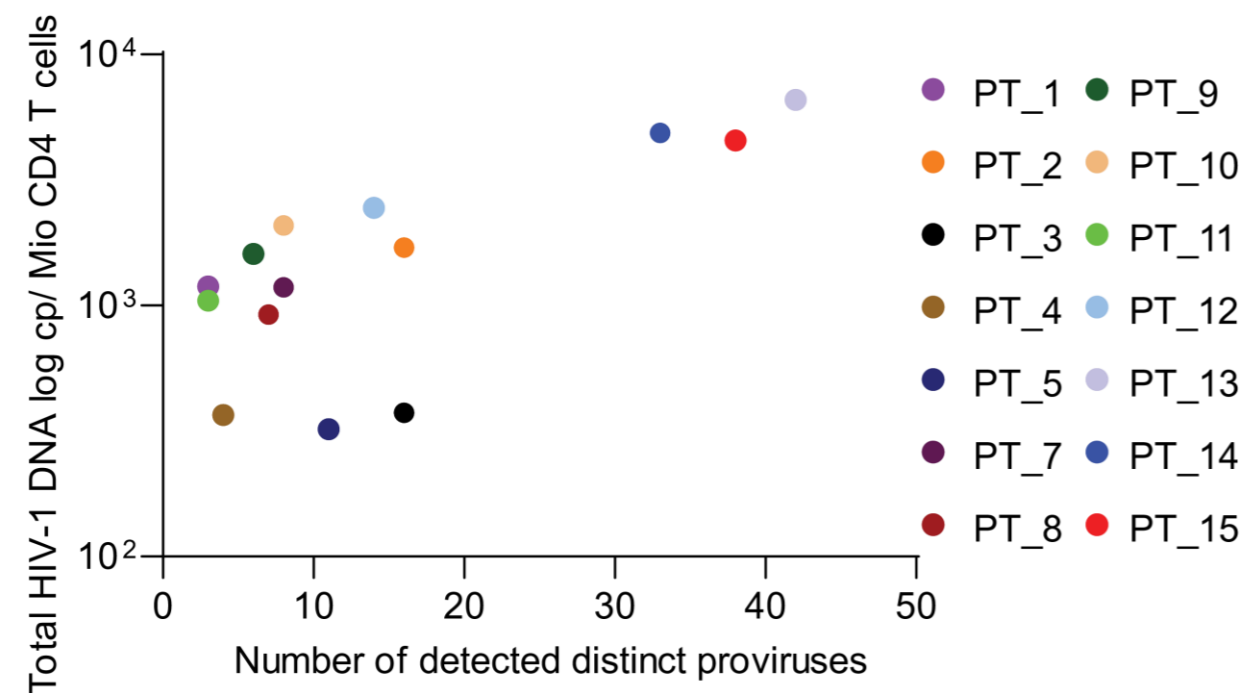
HIV-1 RESERVOIR CHARACTERIZATION



Isolated CD4 T cells

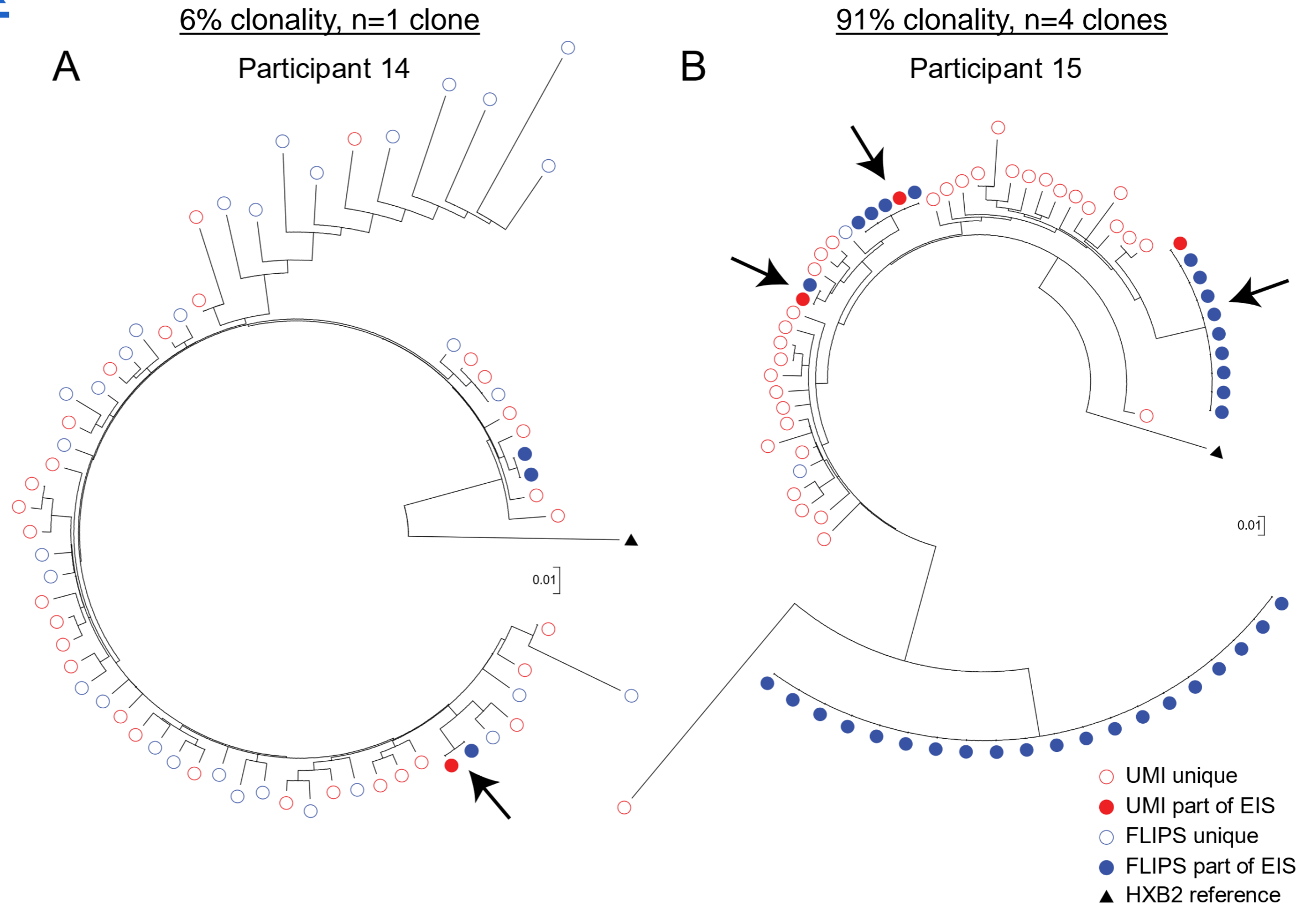
LONG-READ ASSAY PROOF OF CONCEPT

- 15 chronic ART-suppressed individuals
 - Performs on diverse range of reservoir sizes
 - Allows for HIV-1 genome classification



OVERALL AGREEMENT ON PROVIRAL RESERVOIR

Average sequence accuracy of 99,97%



CONCLUSIONS

- Long-read assay offers:
 - accurate characterization of the proviral landscape
 - sequencing accuracy comparable to current gold standard NFL assays
- Future applications:
 - High-throughput reservoir characterization
 - Penetration of HIV resistance mutations on proviral reservoir
 - Screening tool to allow for bNAb HIV-1 resistance prediction



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