A

### Controllers vs. Non-Controllers

**p < 0.0001**

Viral load (copies/ml) for Controllers and Non-controllers. The graph shows a significant difference in viral load between the two groups.

Number of responses per individual to OLP with PR > 1 and q < 0.2

B

### Controllers vs. Non-Controllers

**p < 0.0001**

Viral load (copies/ml) for Controllers and Non-controllers. The graph shows a significant difference in viral load between the two groups.

Number of responses to OLP with PR > 1 and q < 0.2 in individuals without HLA-B27,-57,-5801,-B63,-B81

C

### Controllers vs. Non-Controllers

**p = 0.0011**

Fraction (%) of all detected responses targeting beneficial OLP for Controllers and Non-controllers. The graph shows a significant difference in the fraction of beneficial OLP responses between the two groups.

Controllers vs. Non-controllers