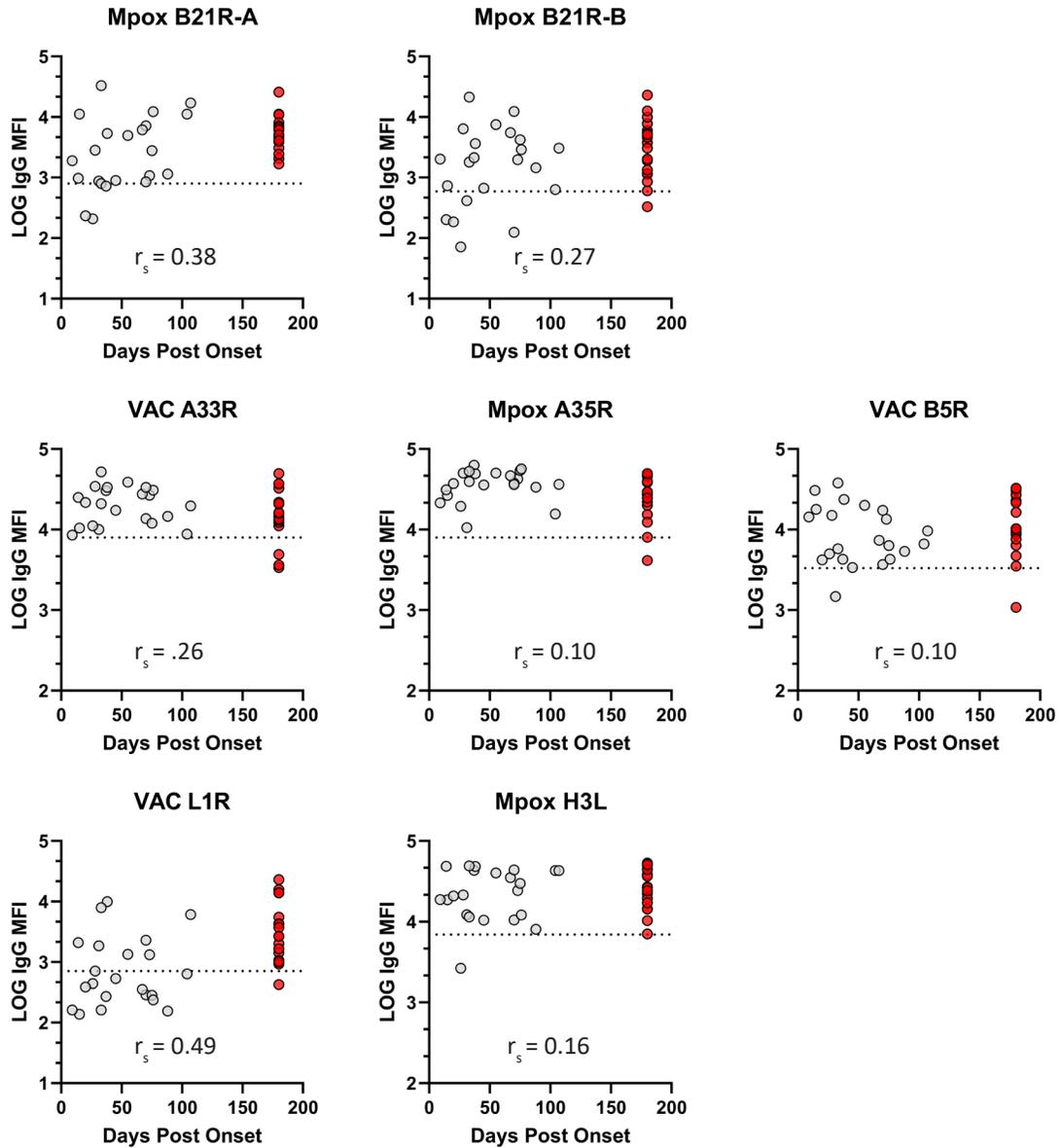


Supplemental Figure 1: Distribution of Days Post-Onset for Mpox-Confirmed Cohort

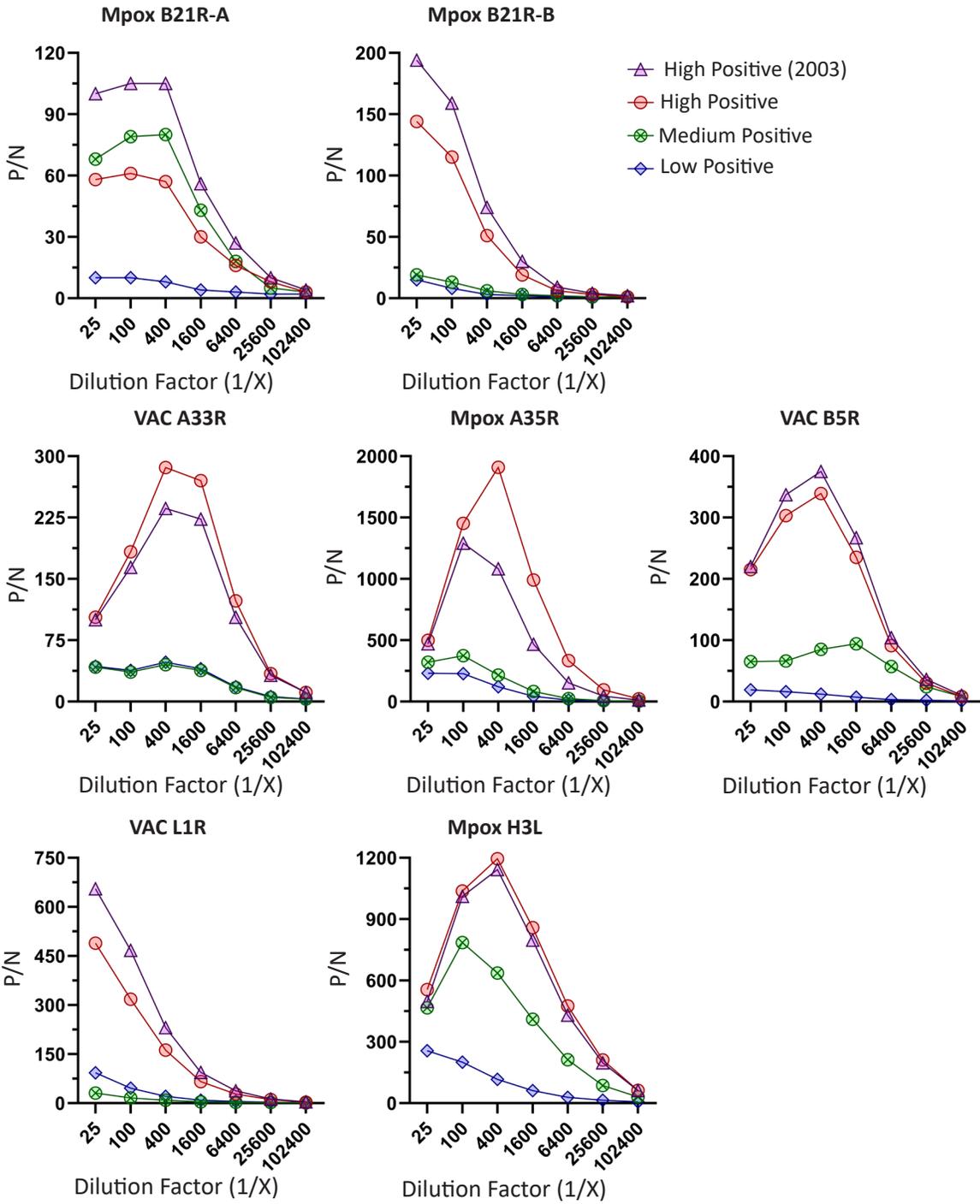
Histogram represents the number of specimens/donors at each day post-onset for the mpox-confirmed cohort. The 18 specimens at 180 days post-onset are from the 2003 group with the remainder of specimens from the 2022 outbreak.



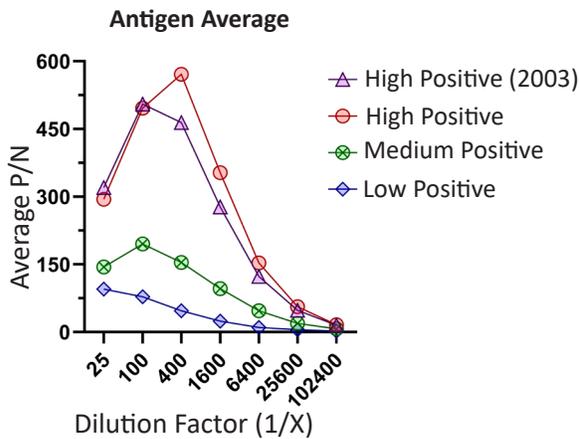
Supplemental Figure 2: Antigen Reactivity by Days-Post Onset of Mpox Infection

Graphs depict antigen reactivity (LOG IgG MFI) for each mpox-infected donor distributed by days post-onset from mpox infection. Grey circles represent mpox donors from the 2022 outbreak and red circles represent donors from the 2003 outbreak. Non-parametric spearman's correlation coefficient (r_s) is represented on each graph.

A.



B.



Supplemental Figure 3: Optimization of Serum Concentration for the New York State Non-Vaccinia Orthopoxvirus Microsphere Immunoassay

(A) High, medium, and low-intensity mpox-positive specimens and one mpox-negative specimen were titrated in 4-fold serial dilutions starting at 1:25. Graphs represent the MFI of the positive sample divided by the MFI of the negative sample (P/N) at the same dilution. Raw data can be found in Supplemental Table 4. **(B)** Graph represents the average P/N of each antigen (VAC A33R, Mpox A35R, VAC B5R, VAC L1R, Mpox H3L, Mpox B21R-A, and Mpox B21R-B) used in the New York State Non-Vaccinia Orthopoxvirus Microsphere Immunoassay over the same range of serum dilutions.