

VRC01 Neutralization Report

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Descriptive Analysis

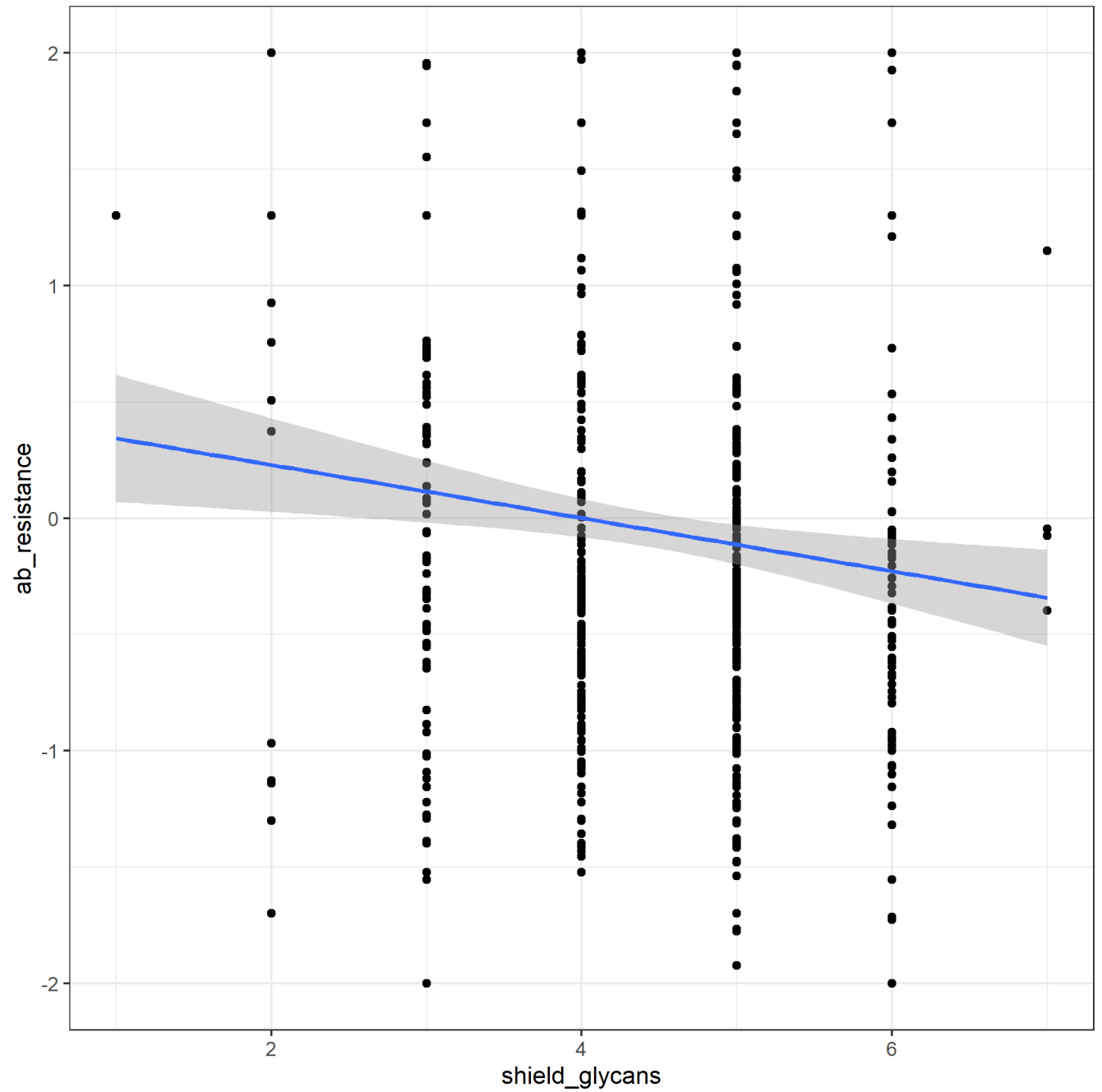
Tabular analysis

Characteristics of the 611 viruses from the CATNAP database are displayed in the table below.

Characteristic	Overall, N = 611	< 4, N = 101	>= 4, N = 510	p-value
Region				0.003
Asia	126 (21%)	29 (29%)	97 (19%)	
Europe.Americas	96 (16%)	5 (5.0%)	91 (18%)	
N.Africa	170 (28%)	26 (26%)	144 (28%)	
S.Africa	219 (36%)	41 (41%)	178 (35%)	
Length of Env protein	857 (850, 863)	852 (849, 859)	857 (851, 864)	<0.001
Antibody resistance	-0.27 (-0.76, 0.54)	0.24 (-0.62, 0.73)	-0.29 (-0.76, 0.36)	0.030

Graphical analysis

Below we report a scatter plot of antibody resistance as a function of number of PNGs in the glycan shield.



Regression Analysis

Primary model

Characteristic	Beta	95% CI	p-value
Shield glycans	-0.11	-0.19, -0.04	0.003
Region			<0.001
Asia	—	—	

Characteristic	Beta	95% CI	p-value
Europe.Americas	-0.33	-0.57, -0.09	
N.Africa	-0.38	-0.59, -0.17	
S.Africa	-0.03	-0.23, 0.17	
Length of Env protein	0.02	0.01, 0.02	<0.001

Secondary model

In this analysis, we generated a binary outcome where level 1 of the outcome means the antibody resistance score was greater than 1.

Characteristic	OR	95% CI	p-value
Shield glycans	0.82	0.66, 1.03	0.082
Region			0.036
Asia	—	—	
Europe.Americas	0.76	0.34, 1.60	
N.Africa	0.84	0.44, 1.59	
S.Africa	1.63	0.93, 2.92	
Length of Env protein	1.06	1.04, 1.08	<0.001