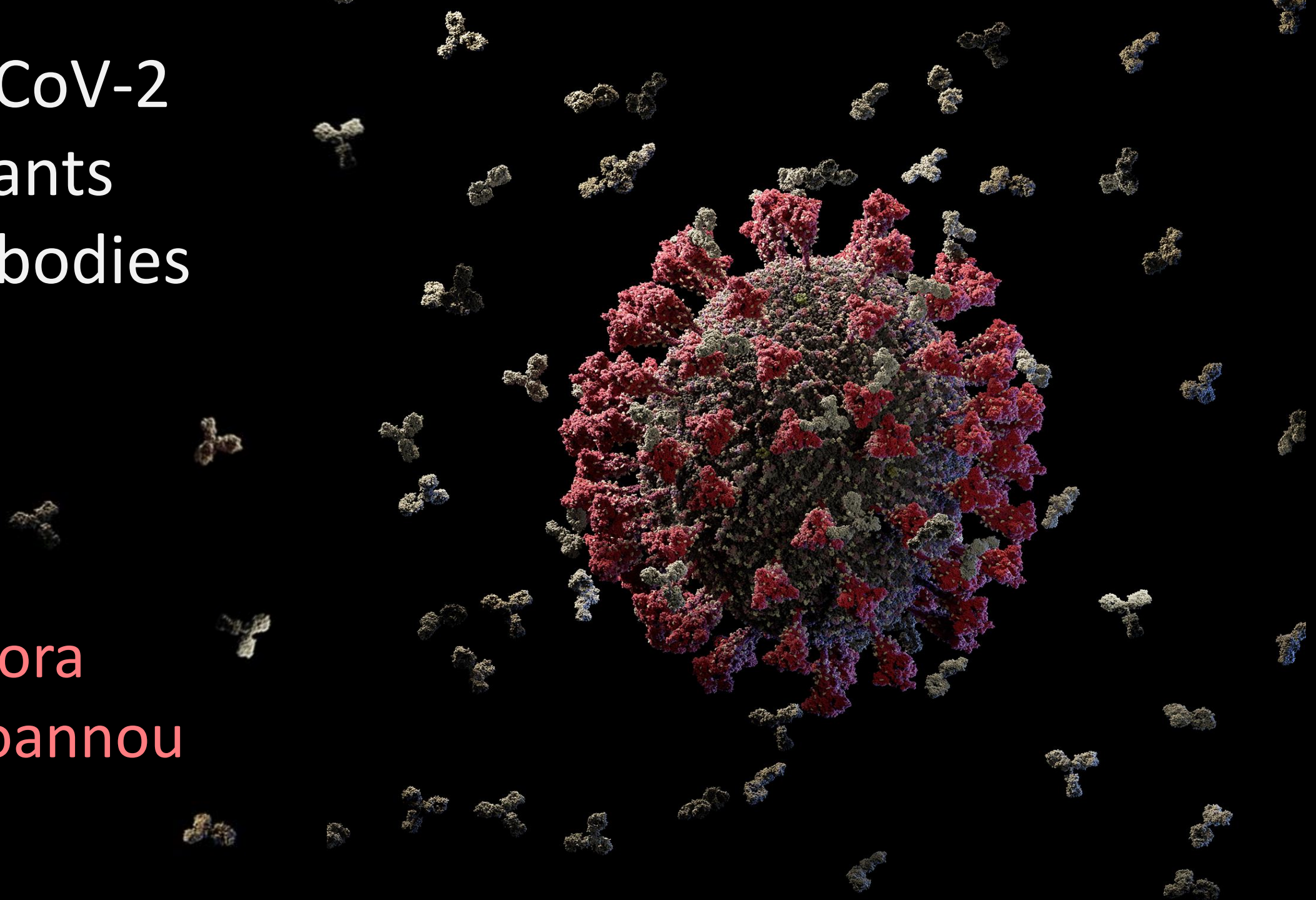
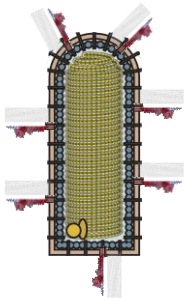


SARS-CoV-2 variants vs antibodies

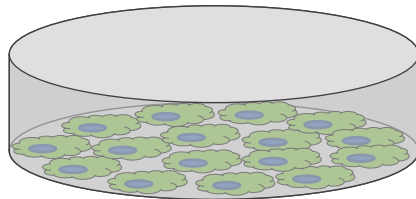
Theodora
Hatziioannou



Using engineered viruses to understand SARS-CoV-2 antibody resistance



VSV/SARS-CoV-2/GFP



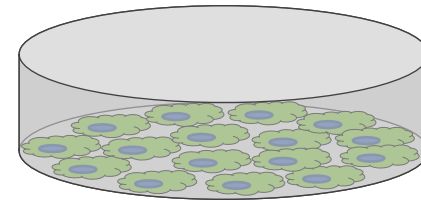
Cell culture

Polyclonal plasma dilution

RU27 (1.3m)

+

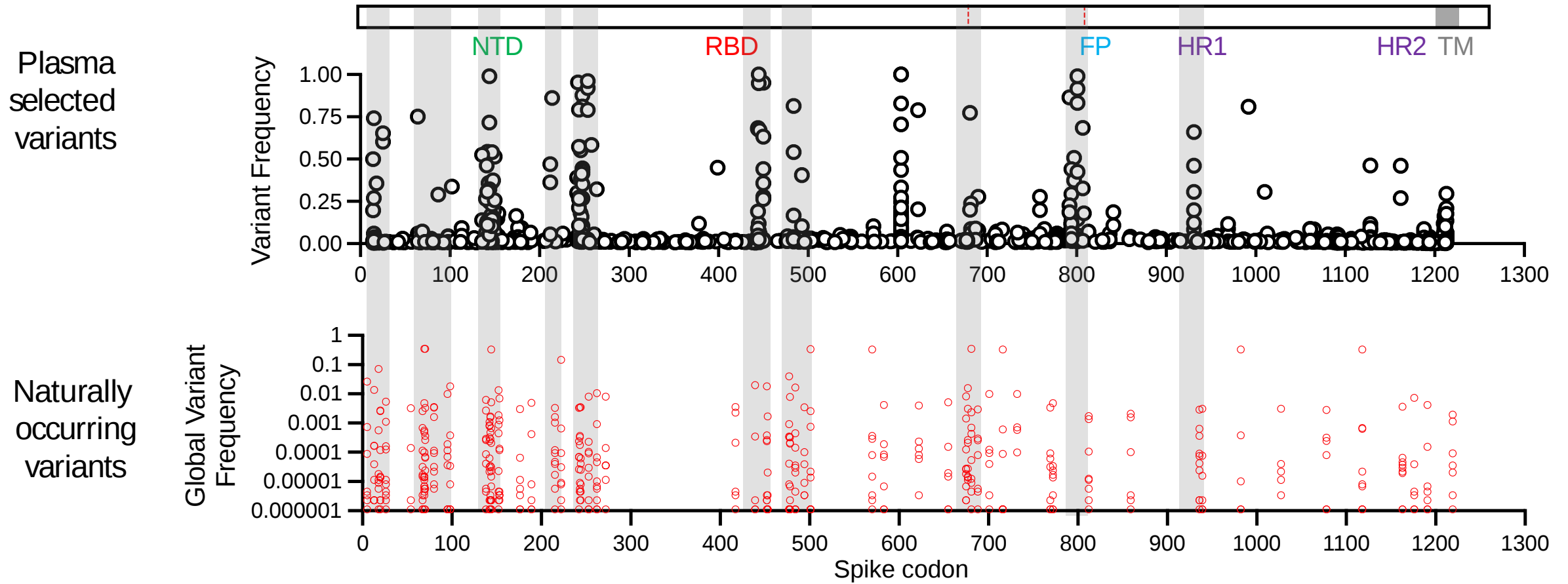
Diversified
viral population
(~1,000,000
variants)



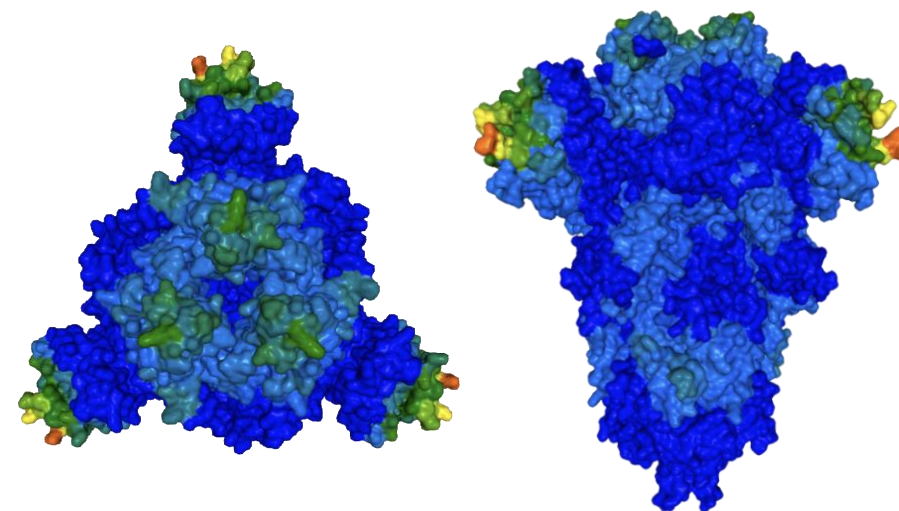
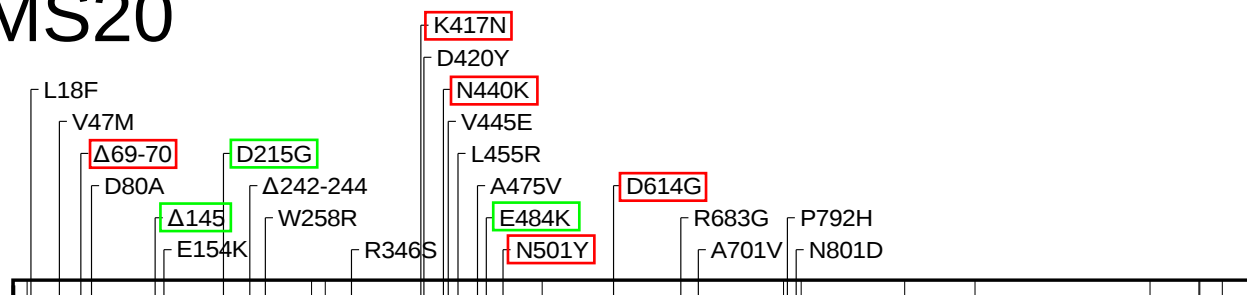
Cell culture

Sequence,
Isolate plaques
characterize

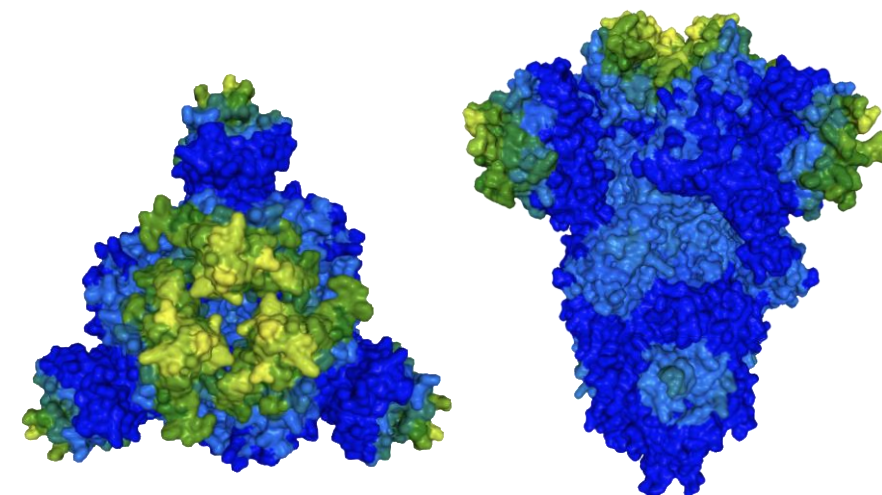
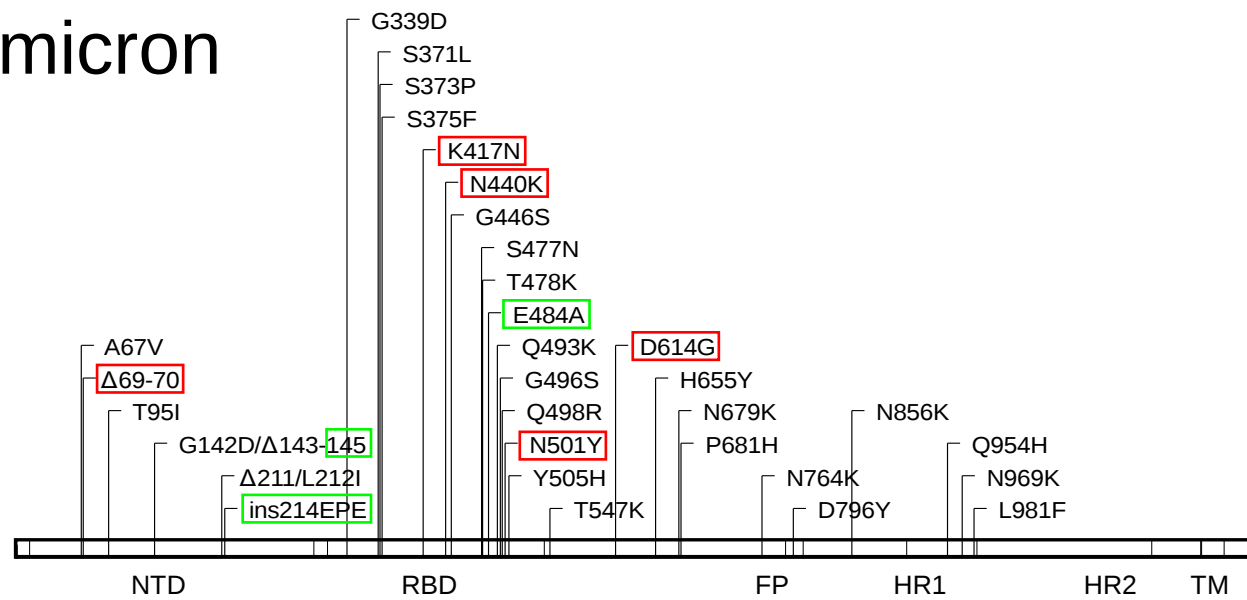
Antibody driven variation in cell culture and in natural populations



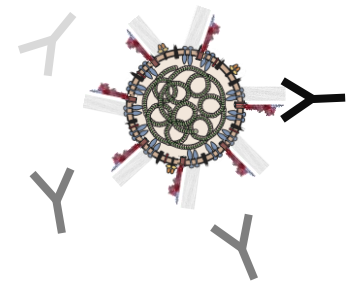
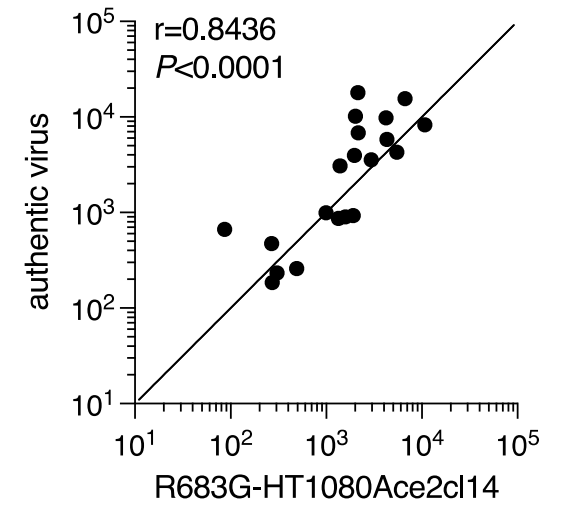
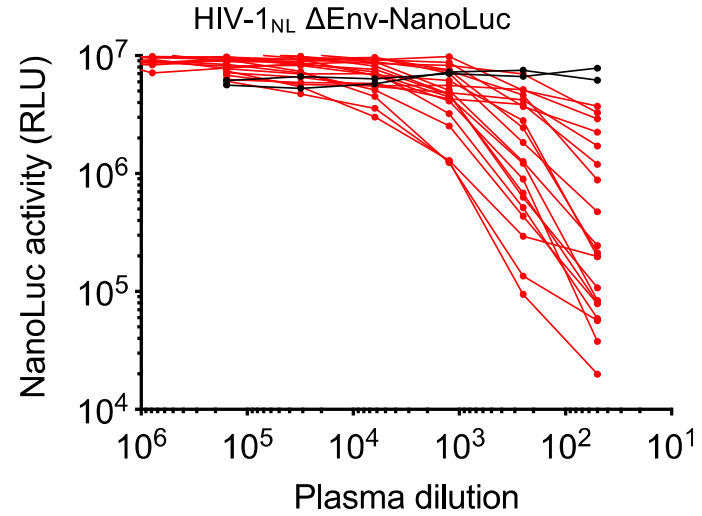
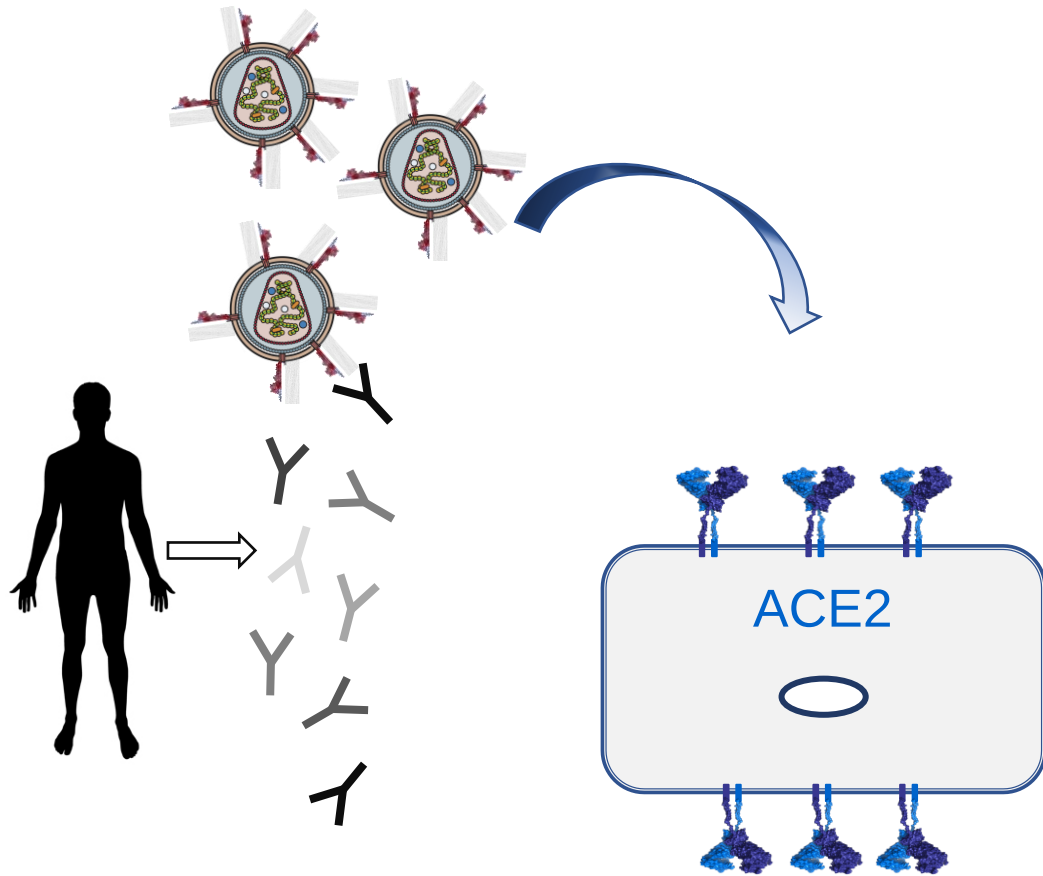
PMS20



Omicron

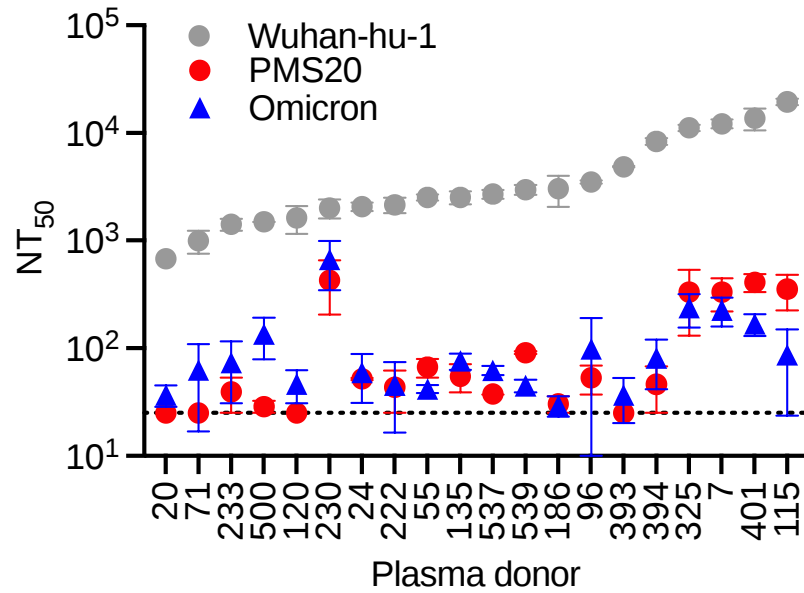


Neutralization assays

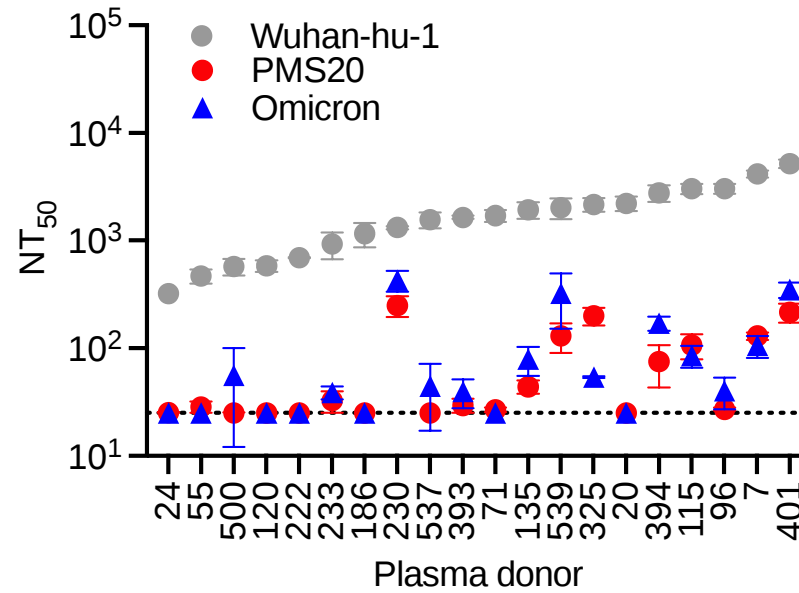


Neutralization in convalescent, non-vaccinated individuals

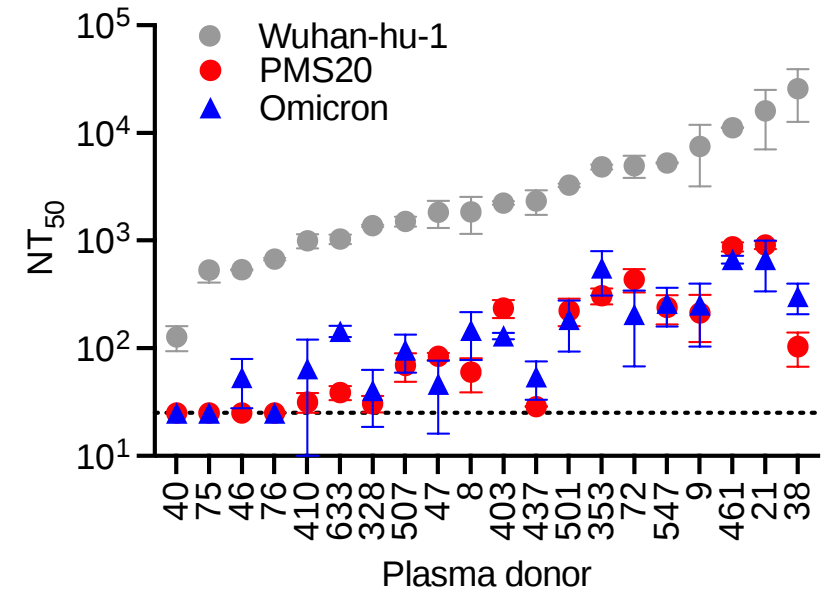
Convalescent 1.3m



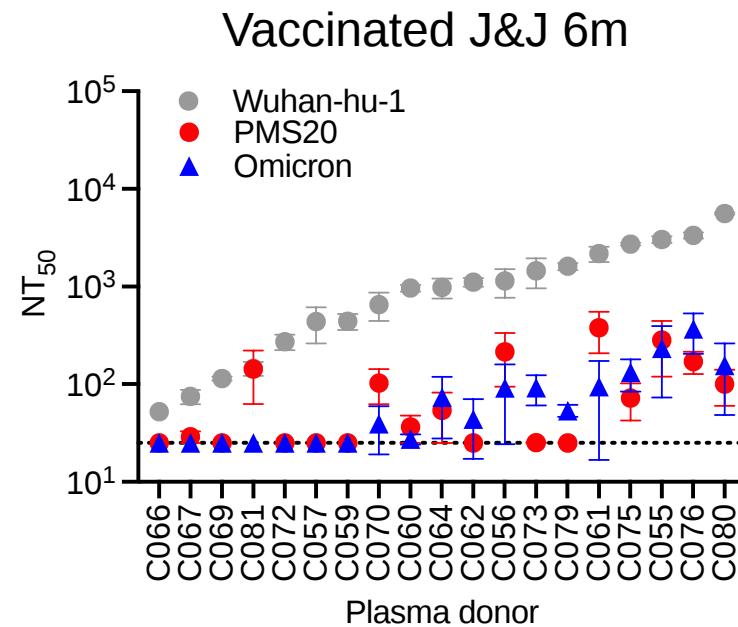
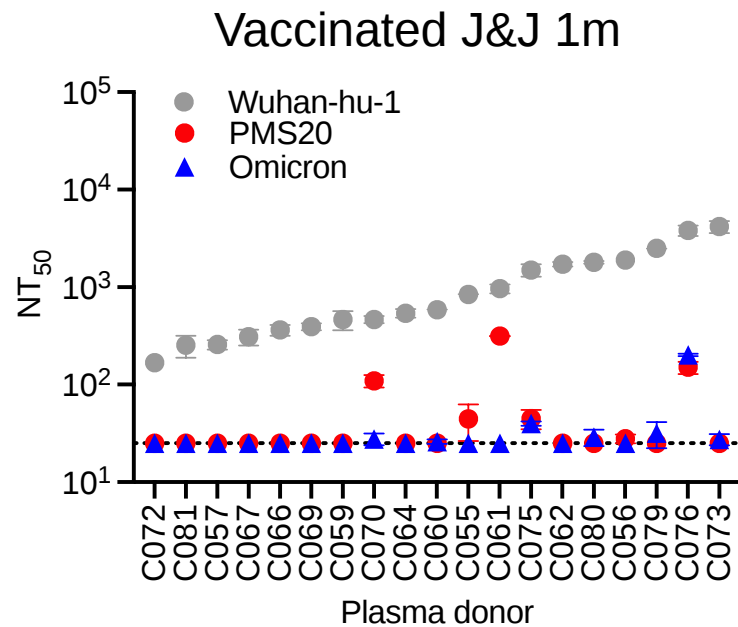
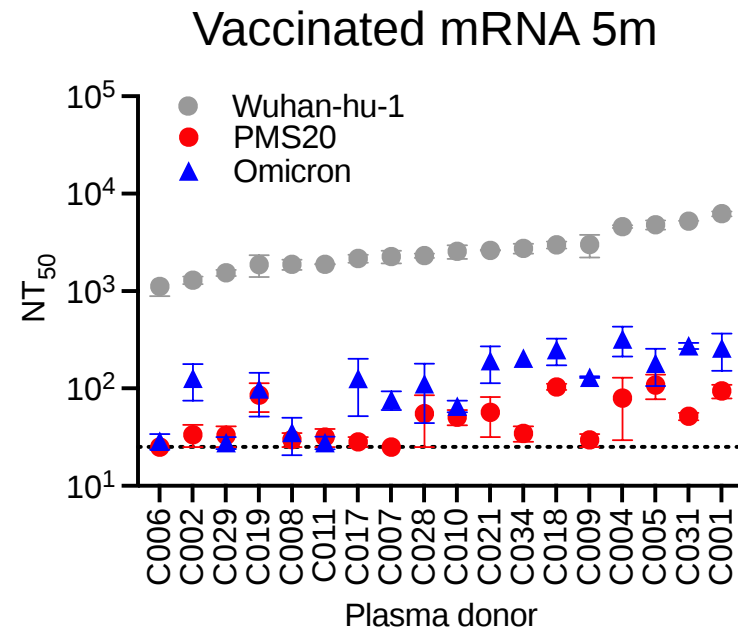
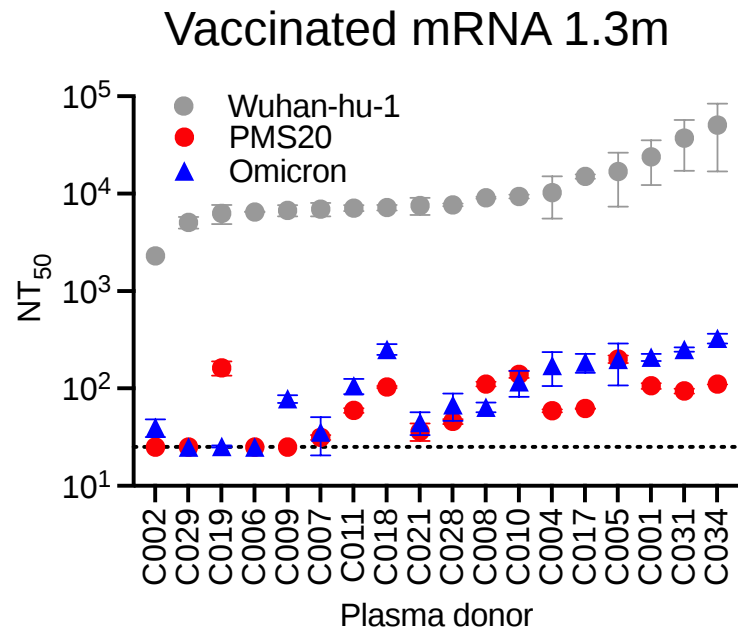
Convalescent 6.2m



Convalescent 12m

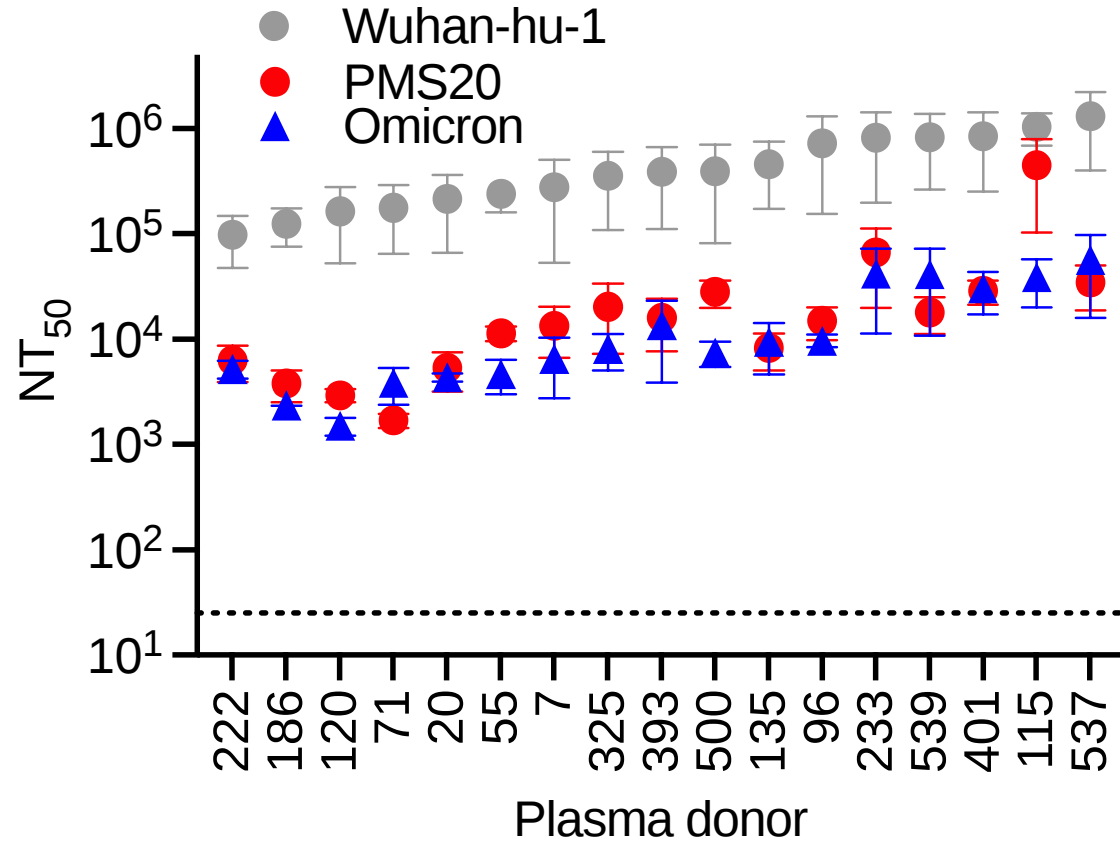


Neutralization in vaccinated

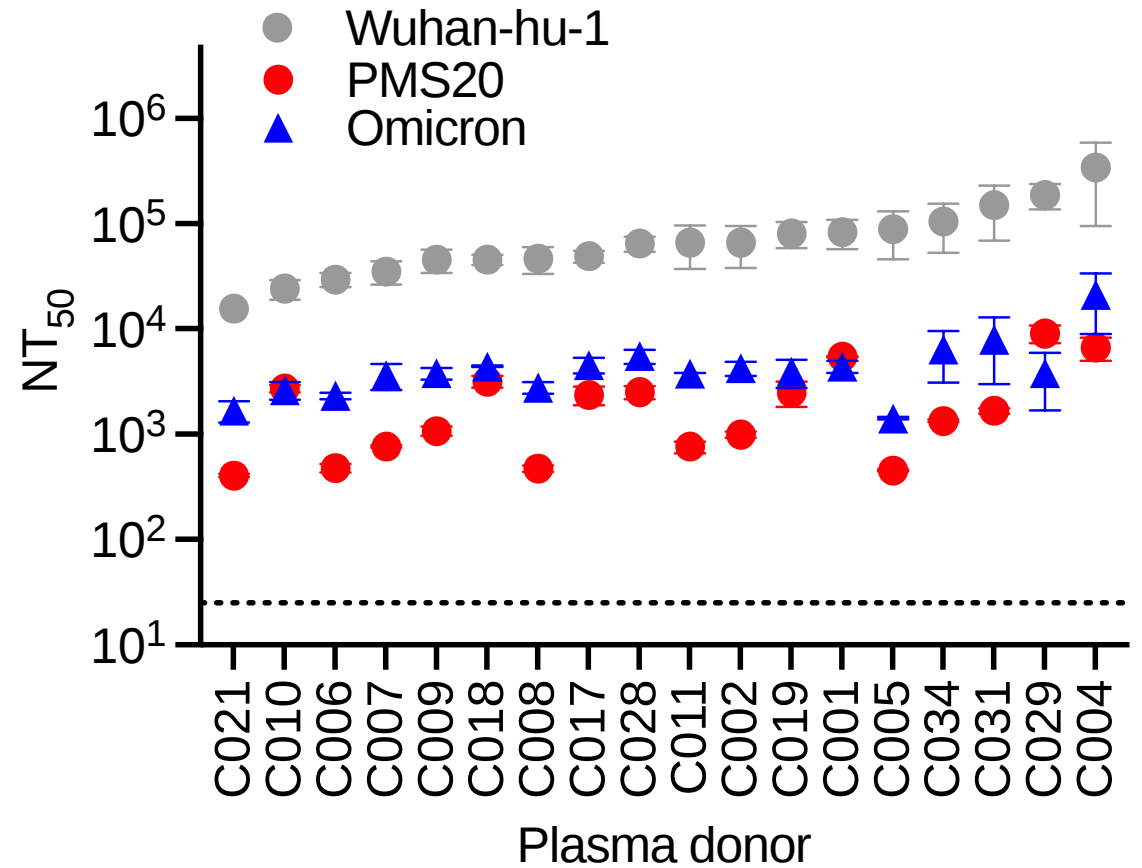


Neutralization in convalescent-then vaccinated & vaccinated with 3 doses individuals

Infected then vaccinated (mRNA)

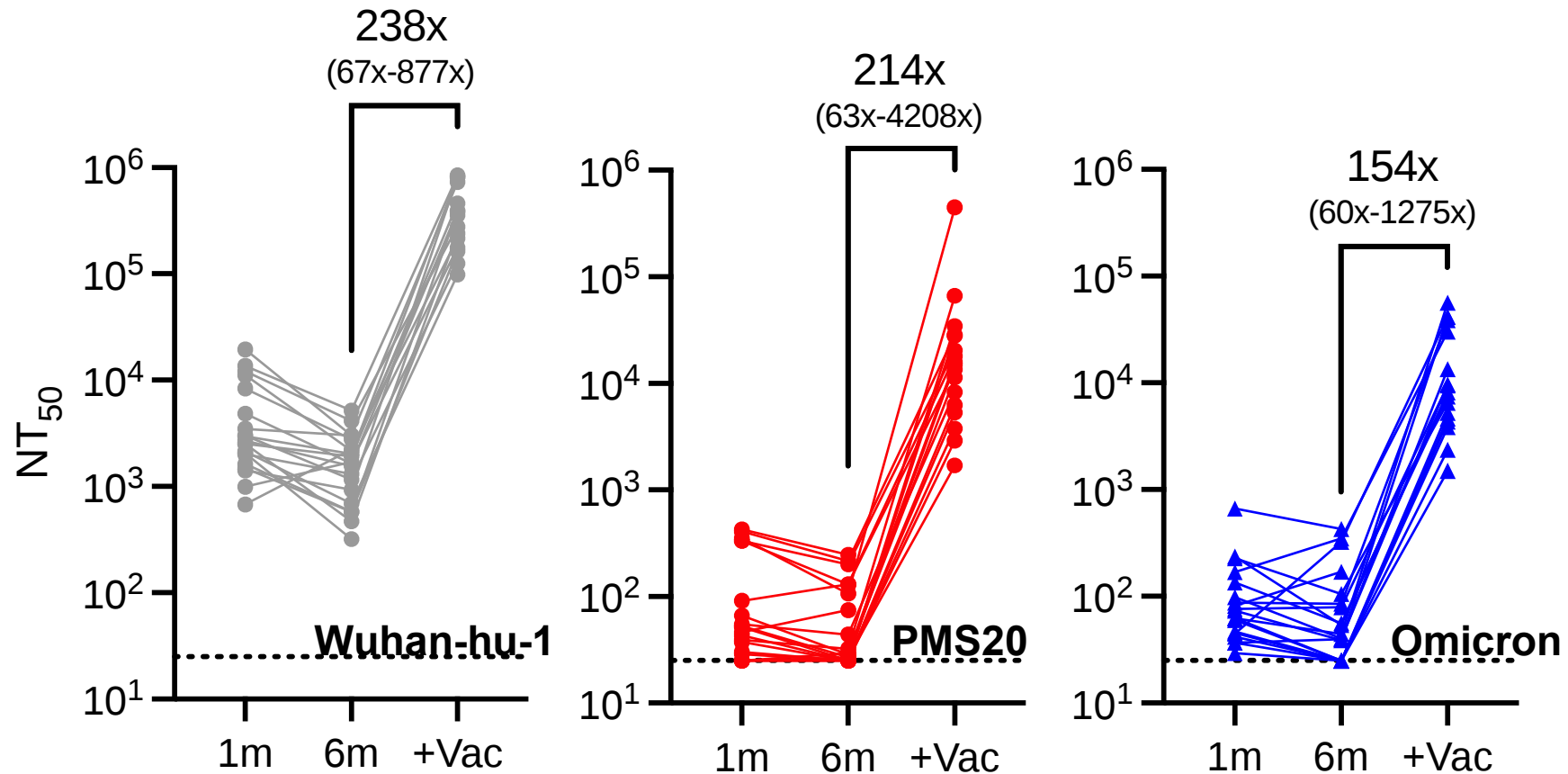


Vaccinated (mRNA) 3rd dose (Pfizer)

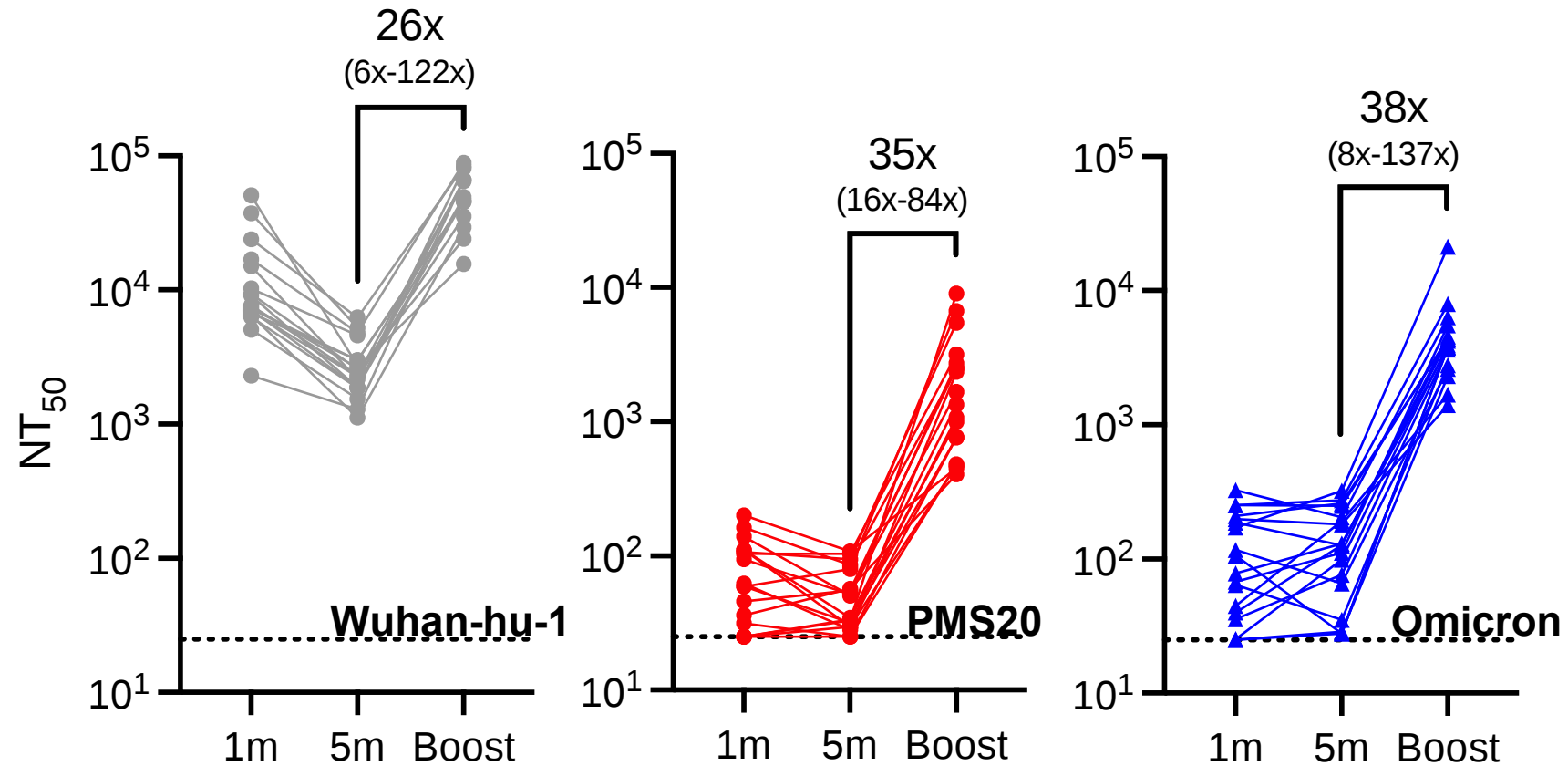


Neutralization in convalescent-then vaccinated & vaccinated with 3 doses individuals

Infected then vaccinated (mRNA)



Neutralization in convalescent-then vaccinated & vaccinated with 3 doses individuals



Laboratory of Retrovirology

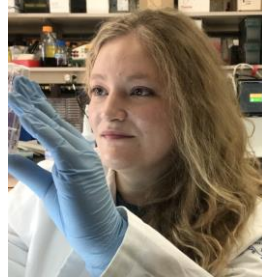


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Fengwen Zang



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**Frauke
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Magdalena
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SCIENCE FOR THE BENEFIT OF HUMANITY

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