Omicron virus isolate (Erasmus MC)

- Two isolates obtained from swabs (RIVM, Chantal Reusken)
- Viruses grown on Calu 3 cells
- P3 batches titrated (5 x 10^5 PFU/ml)
- P3 sequenced (consensus sequence identical to OM, no other major variants by deep sequencing)
- Virus contains 346R in the spike protein
- Virus available through EVAg (https://www.european-virus-archive.com/ )
Neutralization of Omicron (B.1.1.529) by sera from vaccinees at day 28 after the second dose

37.5 fold reduction compared to 614G
13.2 fold reduction compared to delta

Pilot experiment on Calu 3 cells using sera from homologous boost with Pfizer, Moderna or Janssen
Ongoing studies

- Omicron specific immune responses after vaccination with either AZ, Janssen, Moderna and Pfizer, at different time points focusing on both antibody responses (virus neutralizing and ADCC responses) and T cell responses
- Comparative growth kinetics of different variants on organoid derived cells and cell lines (incl competition experiments)