

**A**

replicate 1

replicate 2

observed functional score

- Delta
- Omicron\_BA1
- Omicron\_BA2

2  
0  
-2  
-4-5.0 -2.5 0.0 2.5  
predicted latent phenotype ( $\phi$ )-7.5 -5.0 -2.5 0.0 2.5  
predicted latent phenotype ( $\phi$ )**B**

observed functional score

$$\begin{aligned}r &= 0.80 \\r &= 0.86 \\r &= 0.86\end{aligned}$$

$$\begin{aligned}r &= 0.81 \\r &= 0.89 \\r &= 0.88\end{aligned}$$

2  
0  
-2  
-3-2 0 2  
predicted functional score-2 0 2  
predicted functional score