

**A**

replicate 1

replicate 2

observed functional score

- Delta
- Omicron\_BA1
- Omicron\_BA2

2  
0  
-2  
-4-6 -4 -2 0 2  
predicted latent phenotype ( $\phi$ )2  
0  
-2  
-4-6 -4 -2 0 2  
predicted latent phenotype ( $\phi$ )**B**

observed functional score

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

3  
2  
1  
0  
-1  
-2  
-3  
-4-4 -2 0 2  
predicted functional score

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

-4 -2 0 2  
predicted functional score