

**A**

replicate 1

replicate 2

observed functional score

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

- Delta
- Omicron\_BA1
- Omicron\_BA2

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

observed functional score

2  
1  
0  
-1  
-2  
-3

-2 0 2 4 predicted functional score

$$r = 0.80$$

$$r = 0.86$$

$$r = 0.86$$

2  
1  
0  
-1  
-2  
-3

-2 0 2 4 predicted functional score

$$r = 0.81$$

$$r = 0.90$$

$$r = 0.88$$