

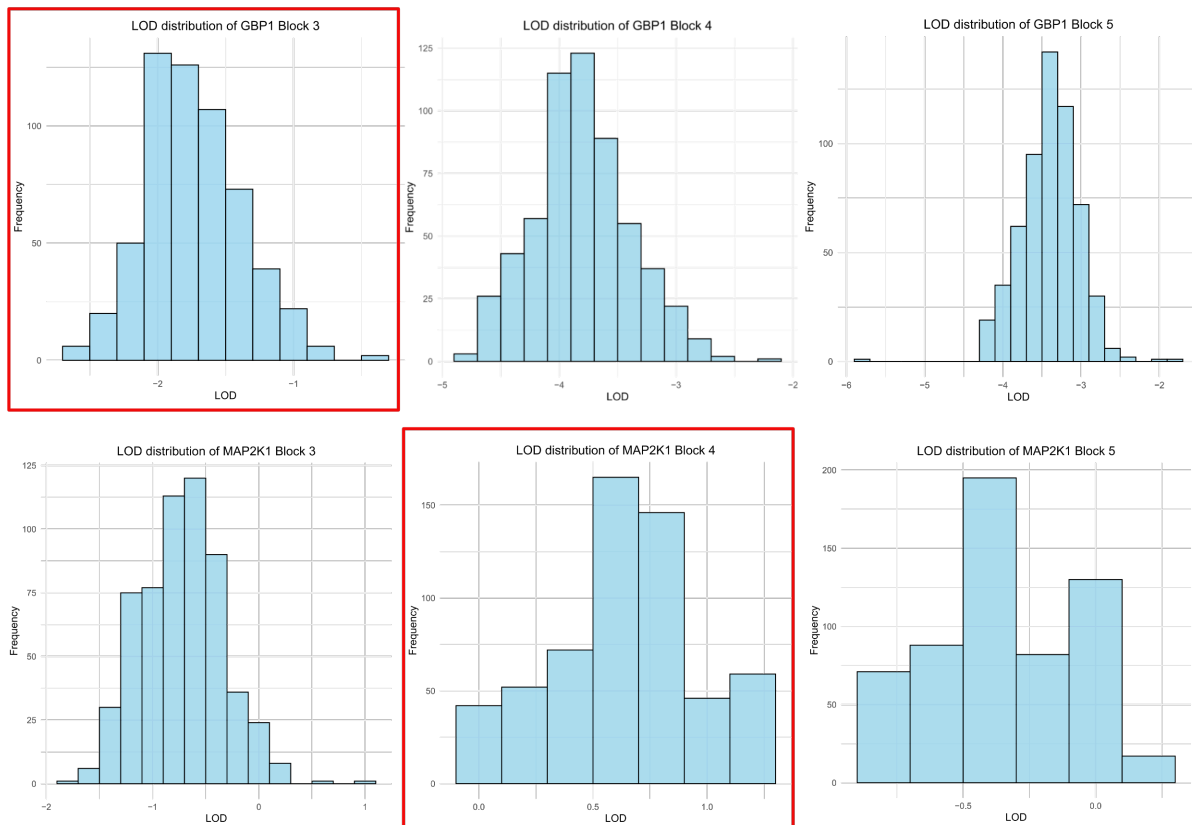
Project outline

Methods

- General QC for Olink HT:
 - Remove samples/proteins with > 50% warnings
 - Select 1 replicate of proteins with multiple measurements
 - Assess LOD distribution in general (how many proteins detected in 5400)
 - Compare each protein expression with LOD
- Outlier check:
 - Olink HT UMAP & PCA
 - Olink Target UMAP & PCA
- Consistency of plasma proteome across visits
 - Olink HT UMAP
 - Olink Target UMAP
- Platform comparison: correlation between Olink Target & HT
- ANOVA: how much variation explained by age, sex and visit

Results

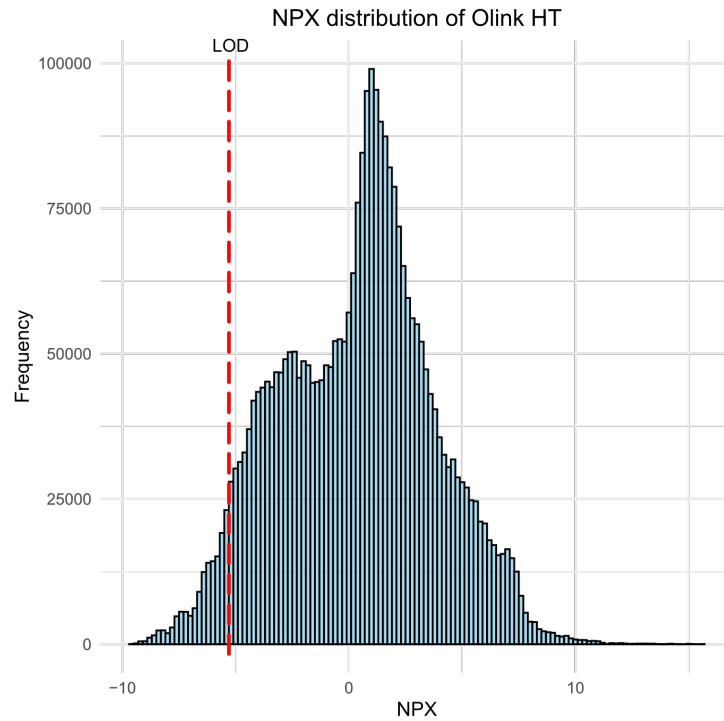
- General QC for Olink HT:
 - Remove warnings samples/proteins: 1 protein removed (no plot)
 - Replicates of GBP1 and MAP2K1; selected Block 3 and 4 (highest LOD)



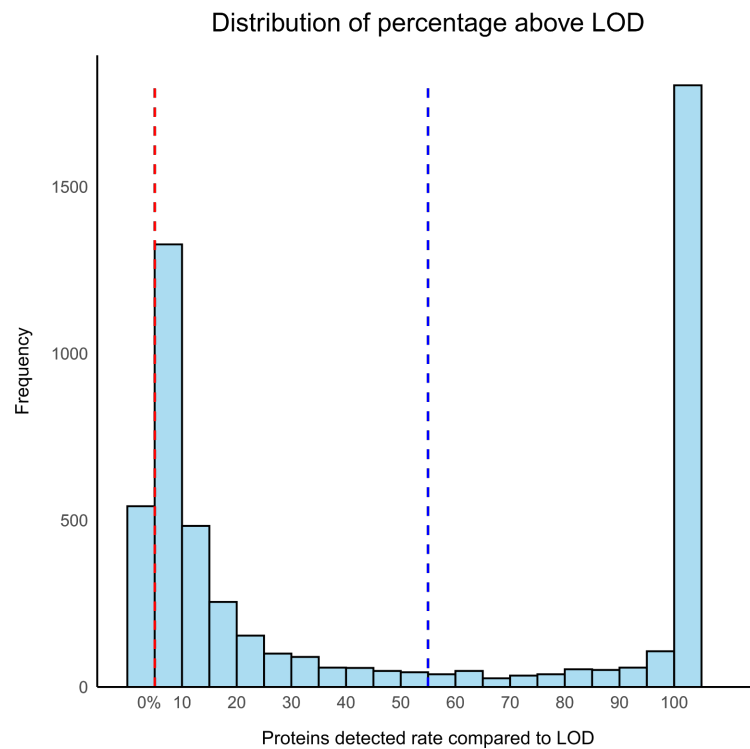
Project outline (cont.)

Results

- NPX distribution



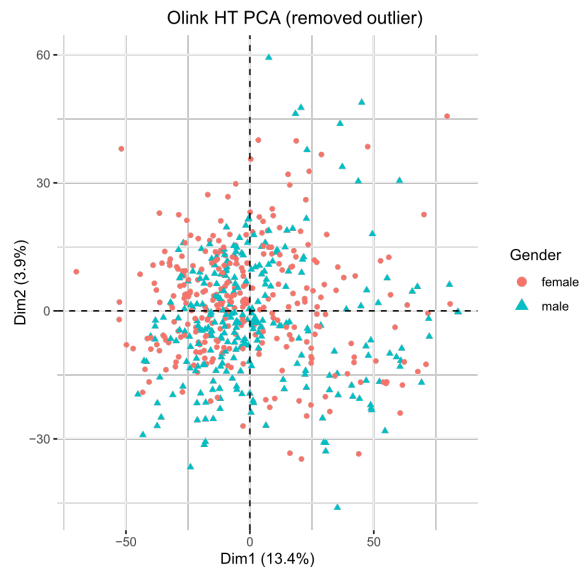
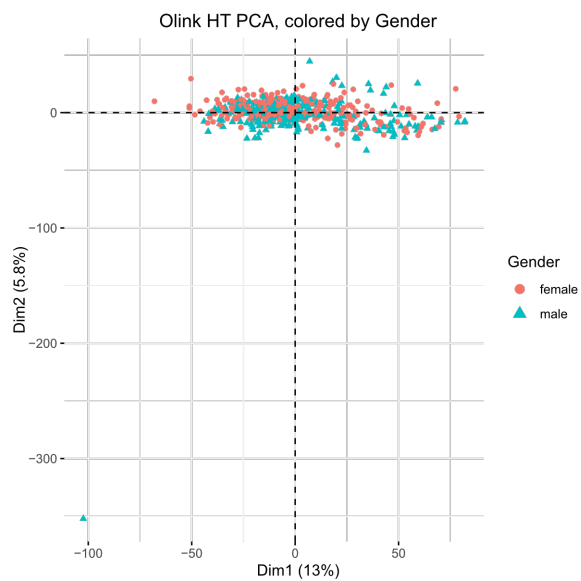
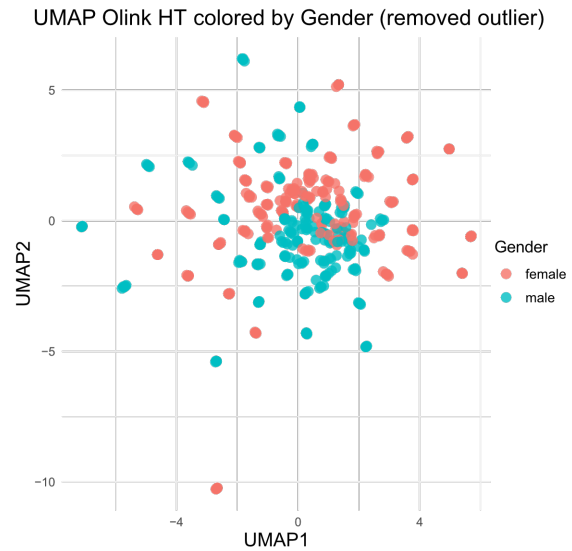
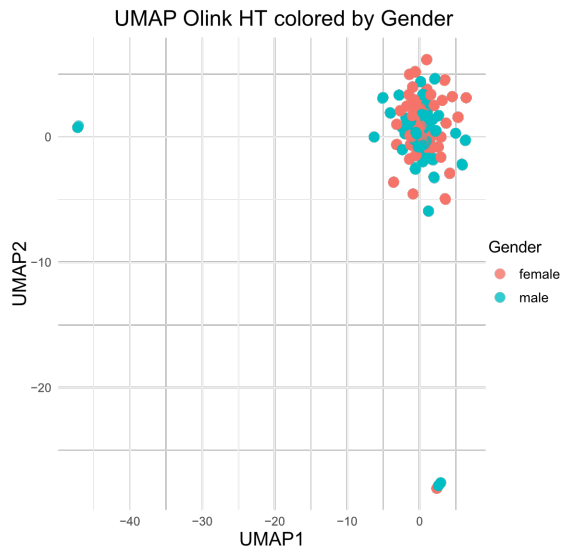
- Distribution percentage over LOD



Project outline (cont.)

Results

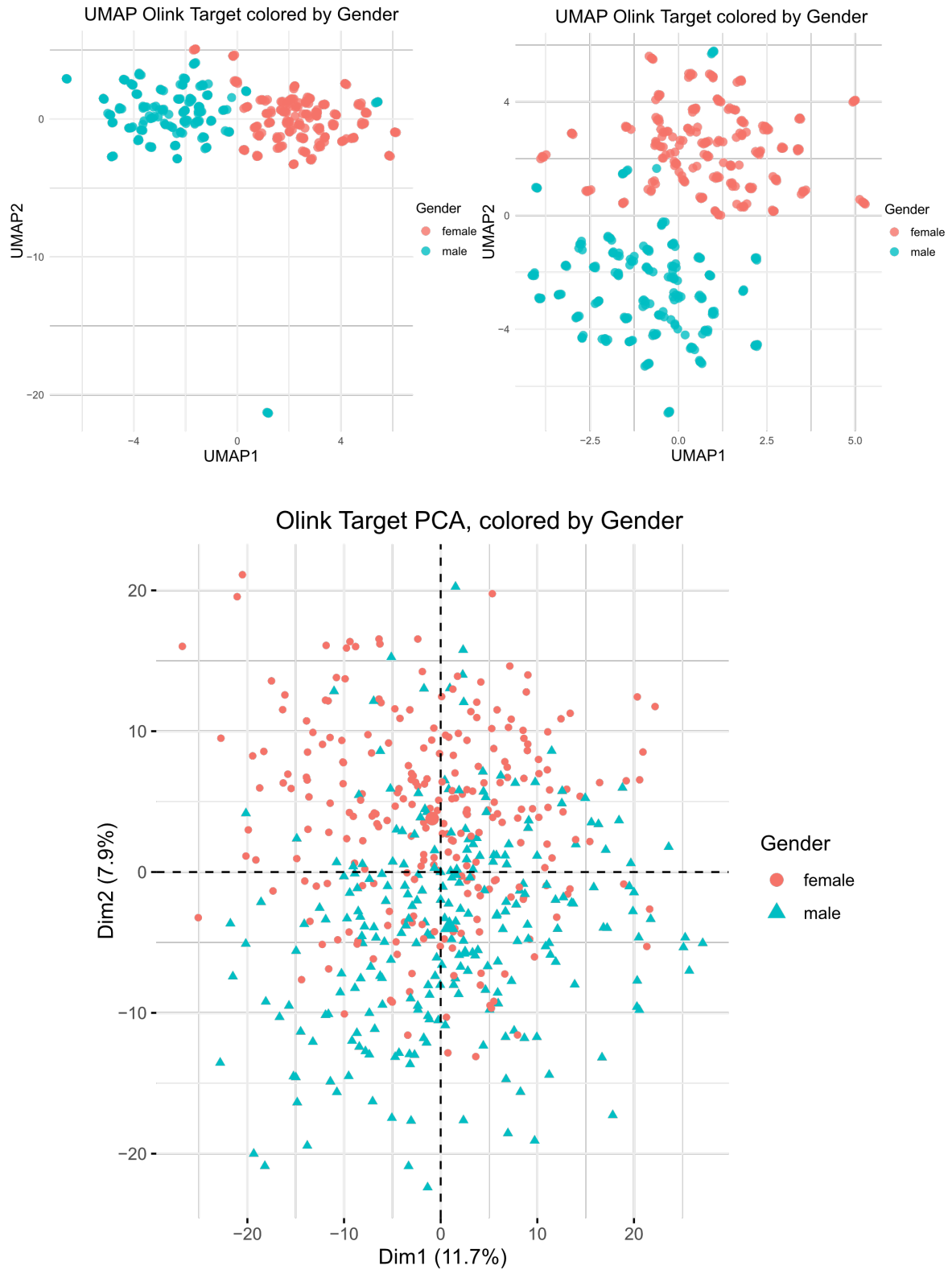
- Outlier check: Olink HT



Project outline (cont.)

Results

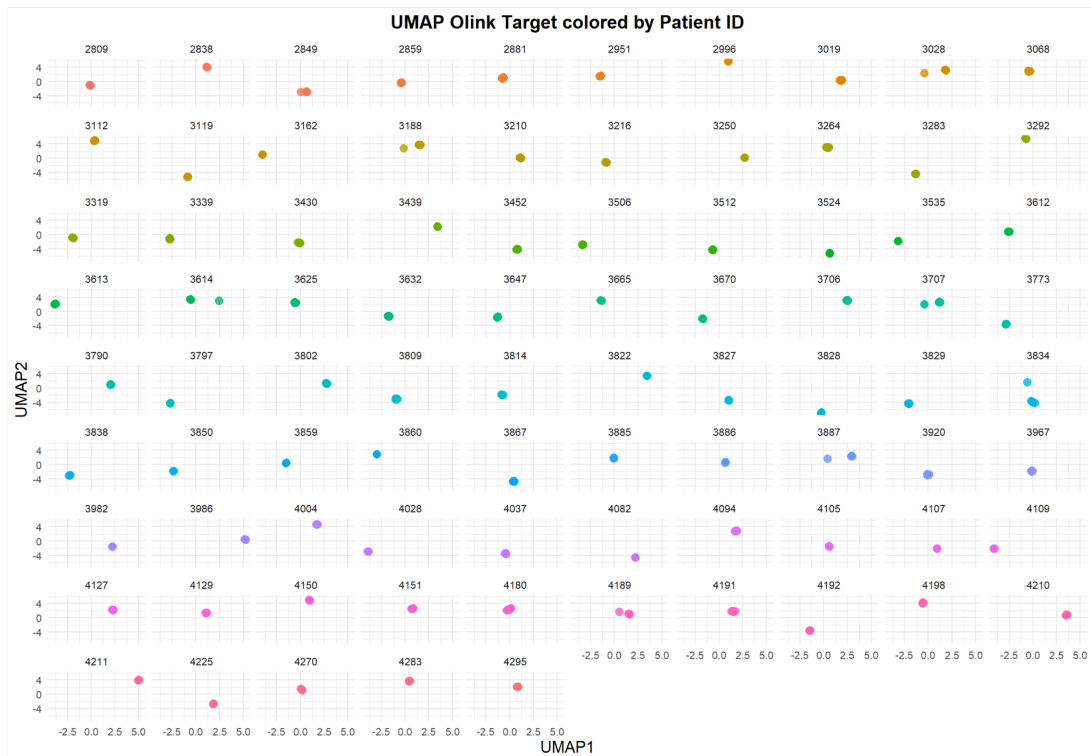
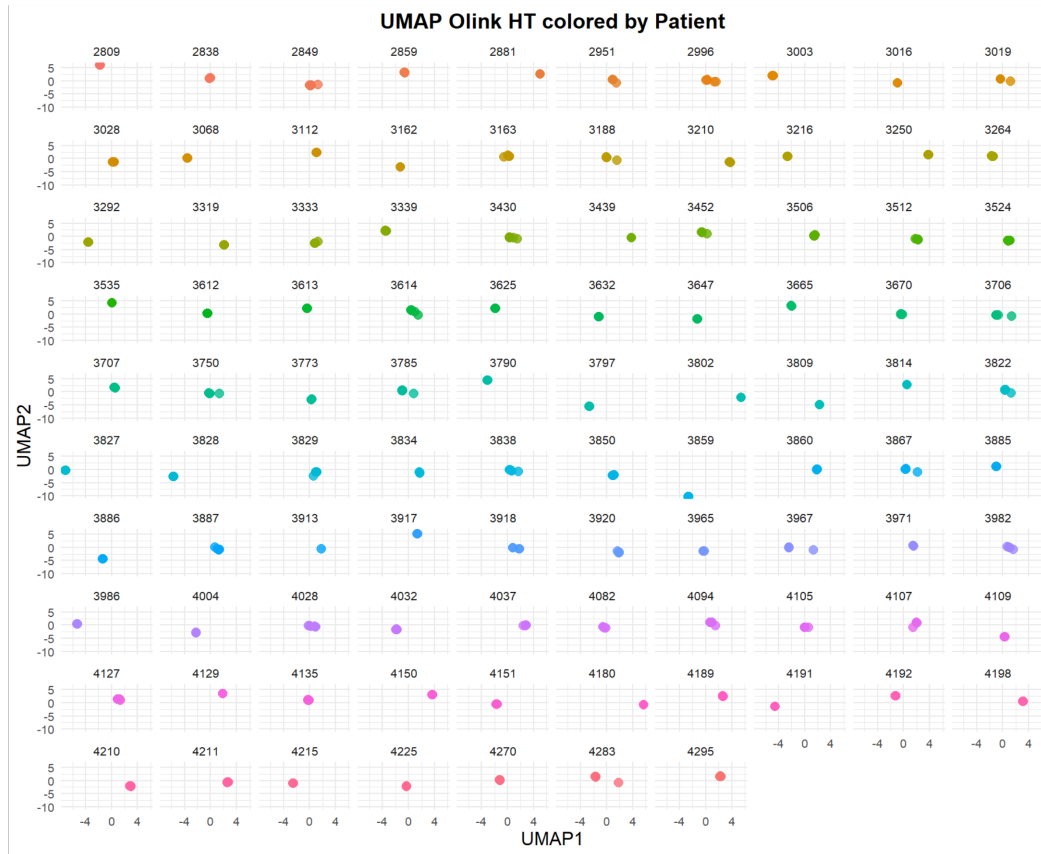
- Outlier check: Olink Target



Project outline (cont.)

Results

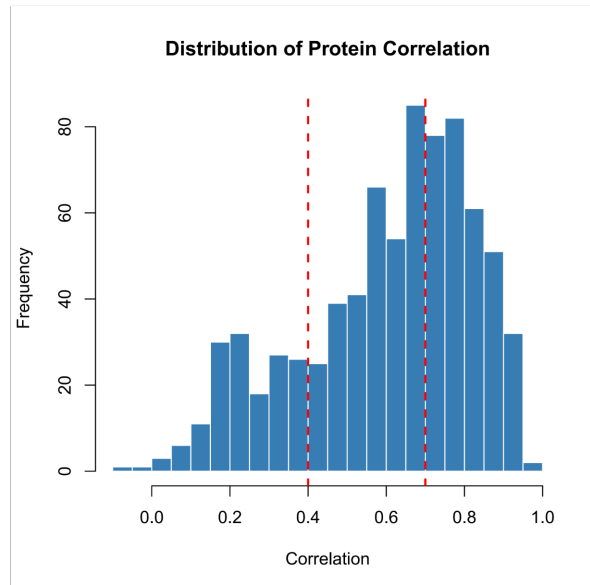
- Consistency of plasma proteome across visits



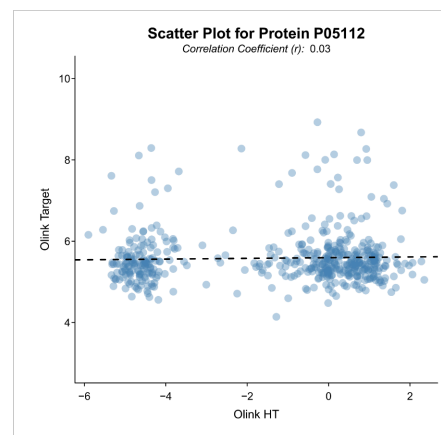
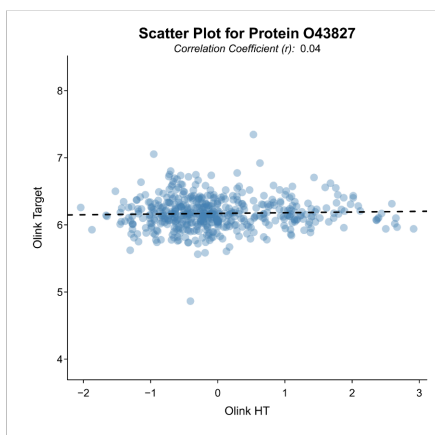
Project outline (cont.)

Results

- Platform comparison
 - Distribution of correlation score



- Examples of high correlation



- Examples of high and low correlation

