Project log – week 47

Analysis of new Olink proteomics data from S3WP: toward multi-omics integration

Overview

The QC for both Olink Explore and Olink HT data sets has been done, with the platform comparison ongoing. These will be the initial results for the half-time presentation.

Summary of activities and deliverables reached

- No meeting with my supervisor this week due to me catching a cold, we text via Slacks
    o Discuss QC results and suggest additional assessments to secure good data quality
    o Combine both data sets to perform comparison and correlation
- Project activities: mostly R programming

Summary of results

No results are available yet.

Reflection task

The project planning mostly remains the same as the initial version. The only factor that affected the project plan was the late access to the data, which was expected with the literature review session on the first week. Besides, catching a cold was also unexpected, but I was able to catch up pretty well. Since the project plan stays unchanged, my work can be considered on time. I think the project plan plays an important role in keeping me strict with timing to achieve reasonable results on time.

Updated project plan

The project plan remains unchanged with corresponding deliverable results per step (table 1).

Table 1. Project plan

Tasks	Deliverables	Week										
		44	45	46	47	48	49	50	51	52	01	02
Literature search	Understand the research topic via prior publications	░	░					░	░			
Method exploration	Discover and test essential R packages for the analysis	░	░									
QC & pre-processing	QC and normalization for batch/technical bias			░								
Platform comparison	Compare data from Olink Explorer (3) and (new) Olink HT		░	░	░							
New proteomics analyses	Multivariate analyses, protein correlation across longitudinal samples, pathway enrichment			░	░	░	░	░	░			
Result interpretation	Visualization of the analysis result						░	░	░	░		
Presentation	Half-time and final presentation				░						░	░
Report	Project report									░	░	░