Subject: OLINK Replicate Targets

Hi Kayla (double check name),

My name is Sydney D’Amaddio, and I am the research assistant in the Walt Lab at the Wyss Institute responsible for analyzing the data generated by the OLINK 3072 target panel. During my analysis, I came across some targets that appear in multiple panels—UniProt IDs P01375, Q14160, P14902, P05231, P29536, and P10145 (excluding controls).

I looked at the CVs for each target across the four panels (Oncology II, Inflammation II, Neurology II, and Cardiometabolic II), and found that there was more variation than is acceptable given the 0.2 upper cutoff of CVs as deemed by the FDA for all immunoassays (see below chart). All measurements for four out of six of the replicate assays were below LOD, and one of the two remaining assays had a CV significantly above 0.2.

This raises concern for the reproducibility of our dataset. There are many targets that have not been run more than once but, if re-run, may produce differing results. As a result, I would like to explore the option of re-running our samples to confirm that the CV for P14902 is an outlier and that our results are reproducible. If you are able to re-run our samples, would it be possible to use the 5,000 panel assay?

Thanks,

Sydney

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| **UniProt ID** | **Coefficient of Variation** |
| **P14902** | **0.31916010920317095** |
| P29536 | 0.19937108325347694 |
| P10145 | 0.2855409573719119 |
| P01375 | 0.31713046284653196 |
| P05231 | 0.23188013186968637 |
| **Q14160** | **0.13090501274155825** |