



- whole blood assay; deep phenotyping of subsets CD4 Th/Treg/CD8 T cells, B cells and plasmablasts will be performed and some general monocyte/NK markers on fresh whole blood.
- Antigen-specific B cell deep phenotyping or Antigen-specific B cell ELISPOTs (depending on subcohort and most urgent research question for that cohort)
- Antigen-specific CD4/CD8 cell analyses; peptide pool stimulations and deep phenotyping (also cytokines). Possibly MHC I tetramer analyses for CD8.

#### 4. Harmonisation cellular assays:

A large difference is that VOICE, RECOVAC, COVALENT VACOVID will analyse cells at day 28 after boost and Target to B at day 7-12 after boost. We can't help that we will analyse at different time points, but see it as an opportunity to will learn when we compare the first data of all trials. We then can use this comparison to optimise future analyses (i.e. choose best performing ones in terms of COP or biomarker of dynamics of immune response) and further integrate our concerted actions. For instance, we can optimise our combined assays for immune monitoring when reboosting with variant vaccine needs to be implemented.

Items/topics that we identified that we can compare now for the planned cellular assays;

- Antigens to be used for the antigen-specific B cell assays (assess where we get antigens from and assess if we can analyse if antigens from different companies yield different results).
- Method for Ag-specific B cell analysis and basic marker panel.
- Peptide pools for CD4 T cell stimulations.
- Peptide pools for CD8 T cell stimulations.
- Method for Ag-specific T cell analysis and basic marker panel. Pro memori; discuss signals due to crossreactivity.
- Compare Qiagen Whole Blood IFN-g data with and cytokine stain of peptide-stimulated T cells assays of frozen cells. IFNg should be more or less similar 7-12 days or 28 days after boost.
- Compare IL-21 ELISPOT Rotterdam 28 days after boost to CD4 T cells to IL-21 cytokines TtB 7-12 days after boost.

#### 4. Wvttk

Sometimes it helps to team up with different groups when placing orders for materials in for instance China. So, we agree to inform each other about logistic problems and/or opportunities.

Tips:

- Sometimes within each institute plastics have also been prioritized within the institute. Make sure that you get high on that list.
- 50 ml tubes are becoming a problem, as several consortia found out. Sepmate tubes from stemcell seem to be a good solution and are still available:

<https://www.stemcell.com/products/brands/sepmate-pbmc-isolation.html>

#### 6. Update

5.1.2e from RIVM will take over coordination of 5.1.2e efforts from now on. 5.1.2e  
5.1.2e, 5.1.2e from ZonMw has been informed and she has gladly approved.  
Welcome, 5.1.2e

Next meeting Tuesday March 2, 16.00. 5.1.2e has sent invite.

After this meeting we will meet on Thursdays at 16.00, as we all can make it for that time.