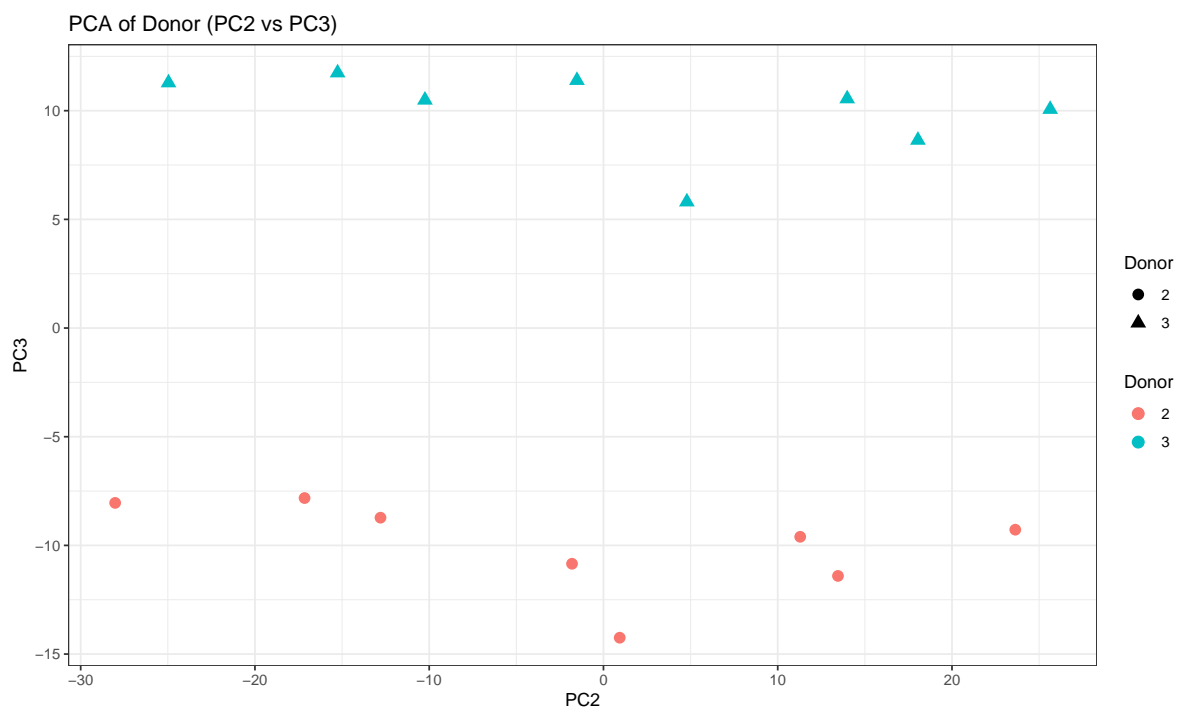


# Rapport - Batch 1

## General Overview Analysis: Global Expression Patterns

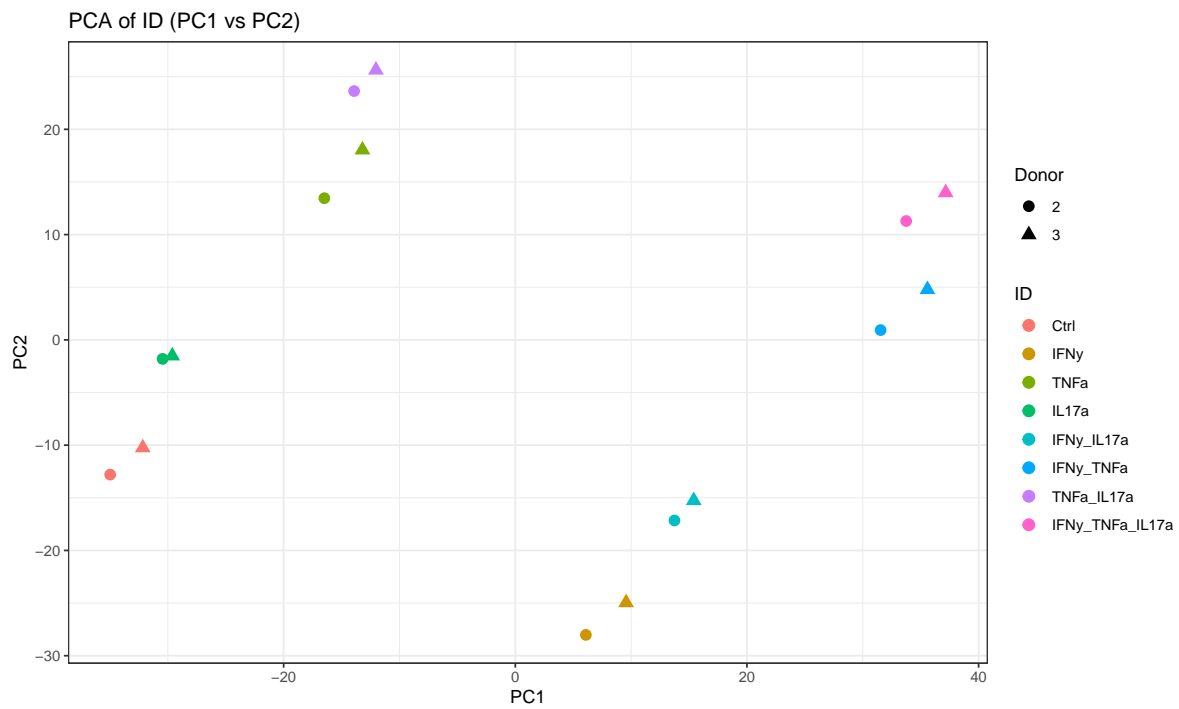
**PCA - Donor** Grouping of donors is seen in PC3.



**PCA - Treatment** Grouping of treatment (ID) is seen in PC1 and PC2.

PC1 seems to separate treatments (ID) with and without INFy.

PC2 seems to separate treatments (ID) with and without TNFa.





## General Overview Analysis: Differential Expression Analysis

Example of p-value histogram. They all show this pattern which shows that the model fits the data well.

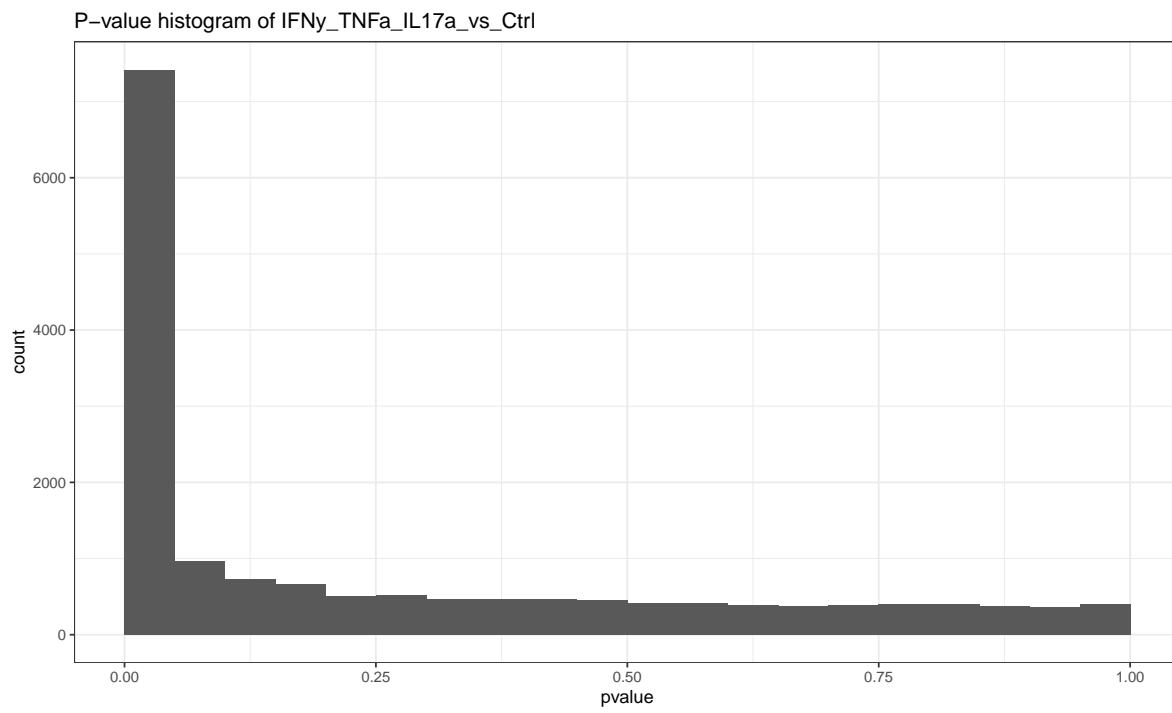
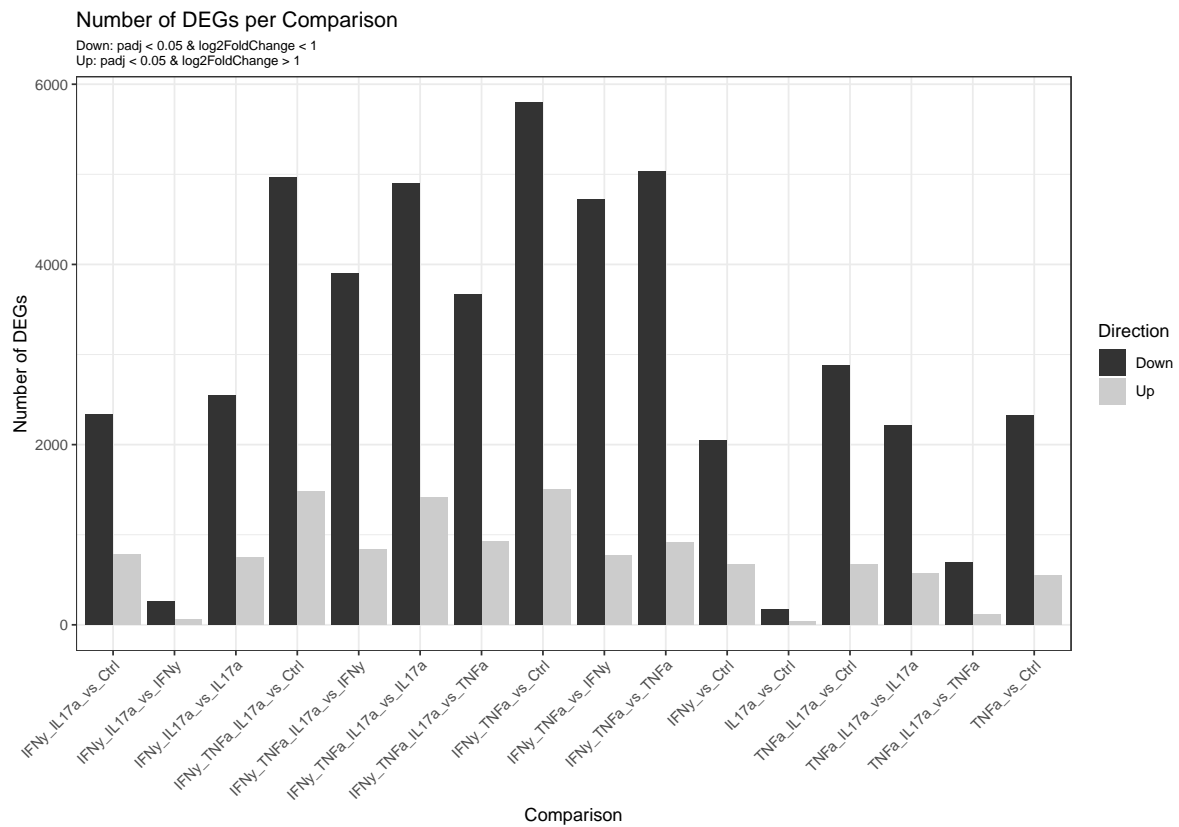


Figure 1: H

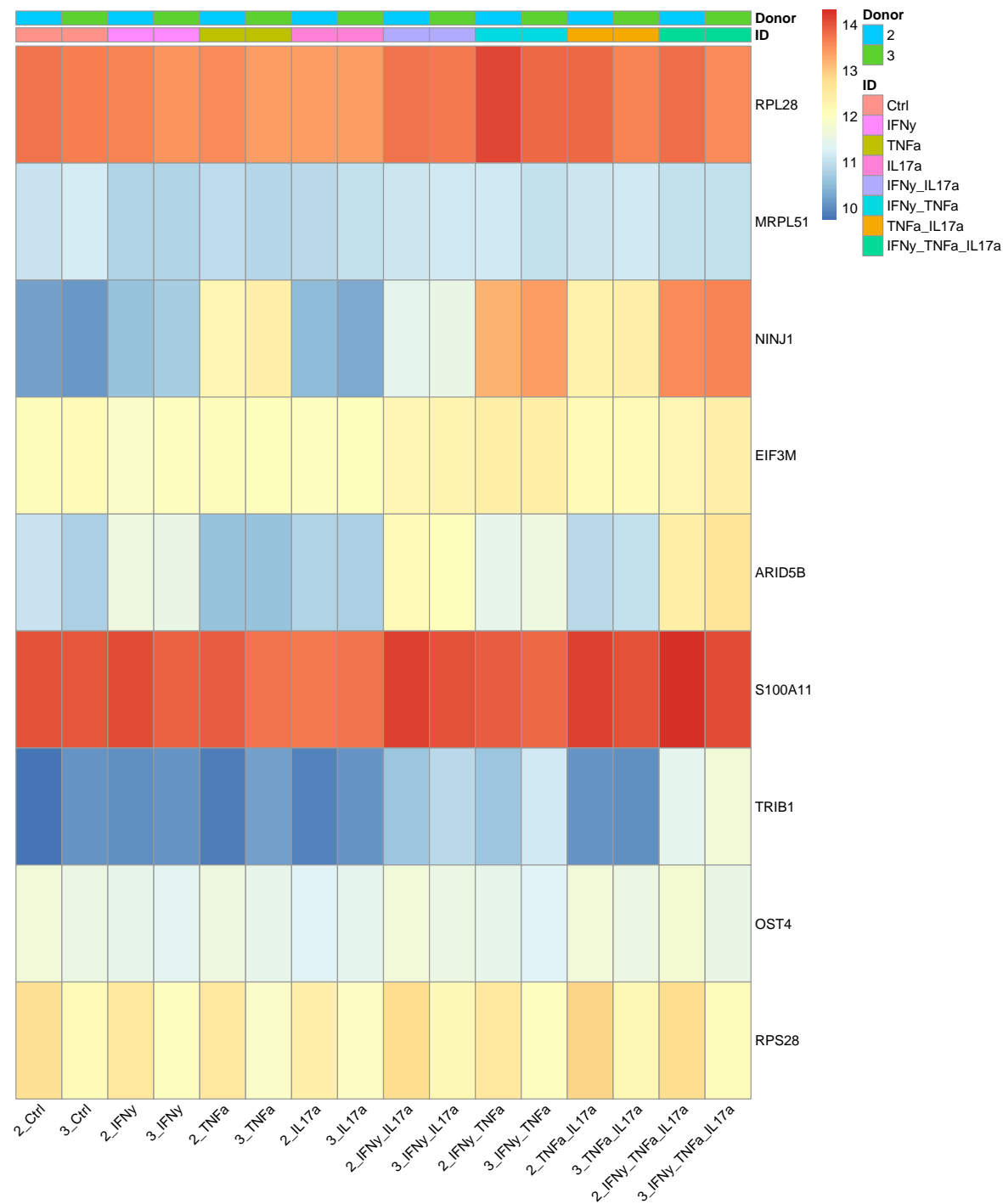
## General Overview Analysis: Top Differential Expressed Genes

Number of DEGs in each comparison. Notice the thresholds in the subtitle of the plot.

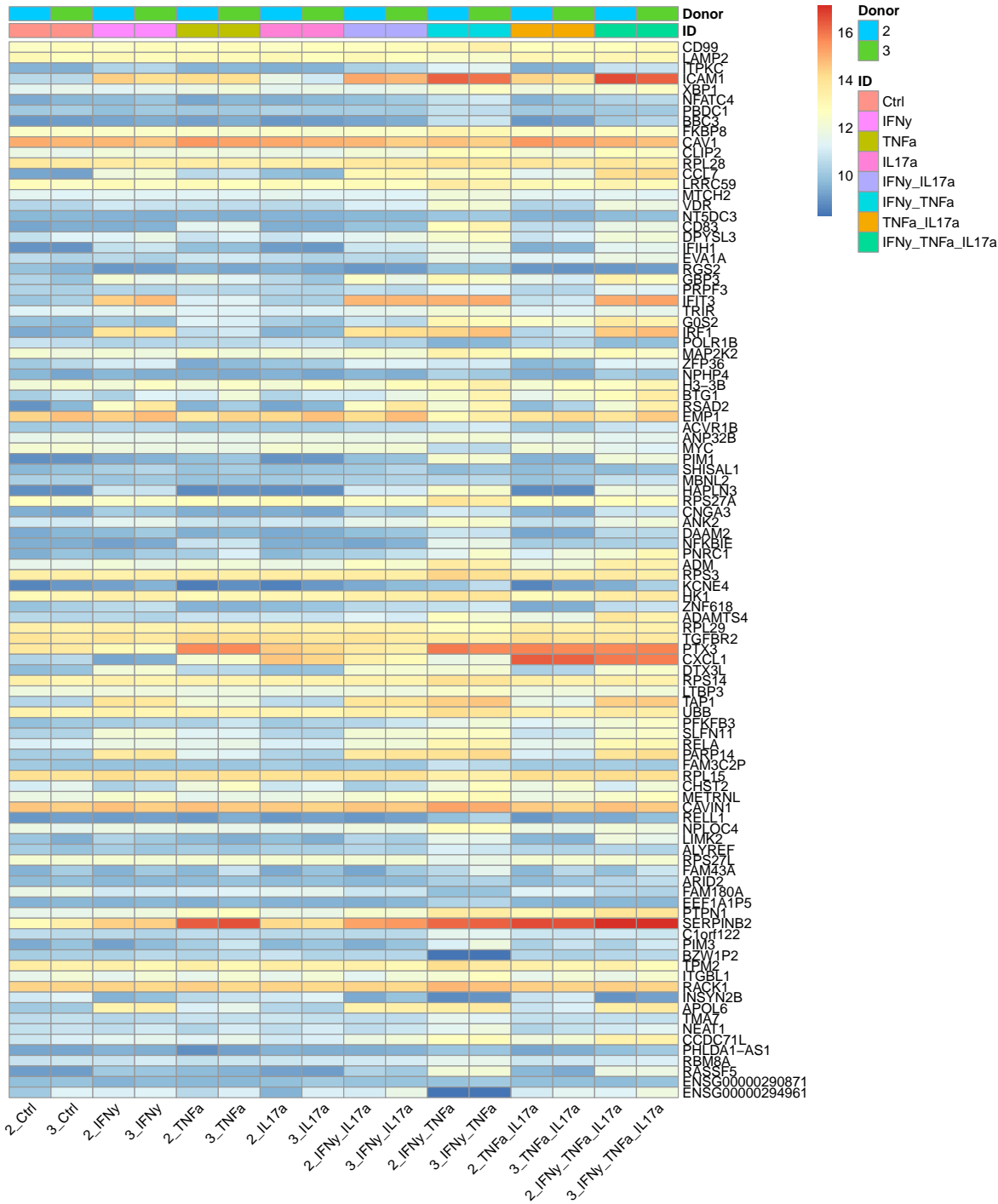


## Synergy analysis

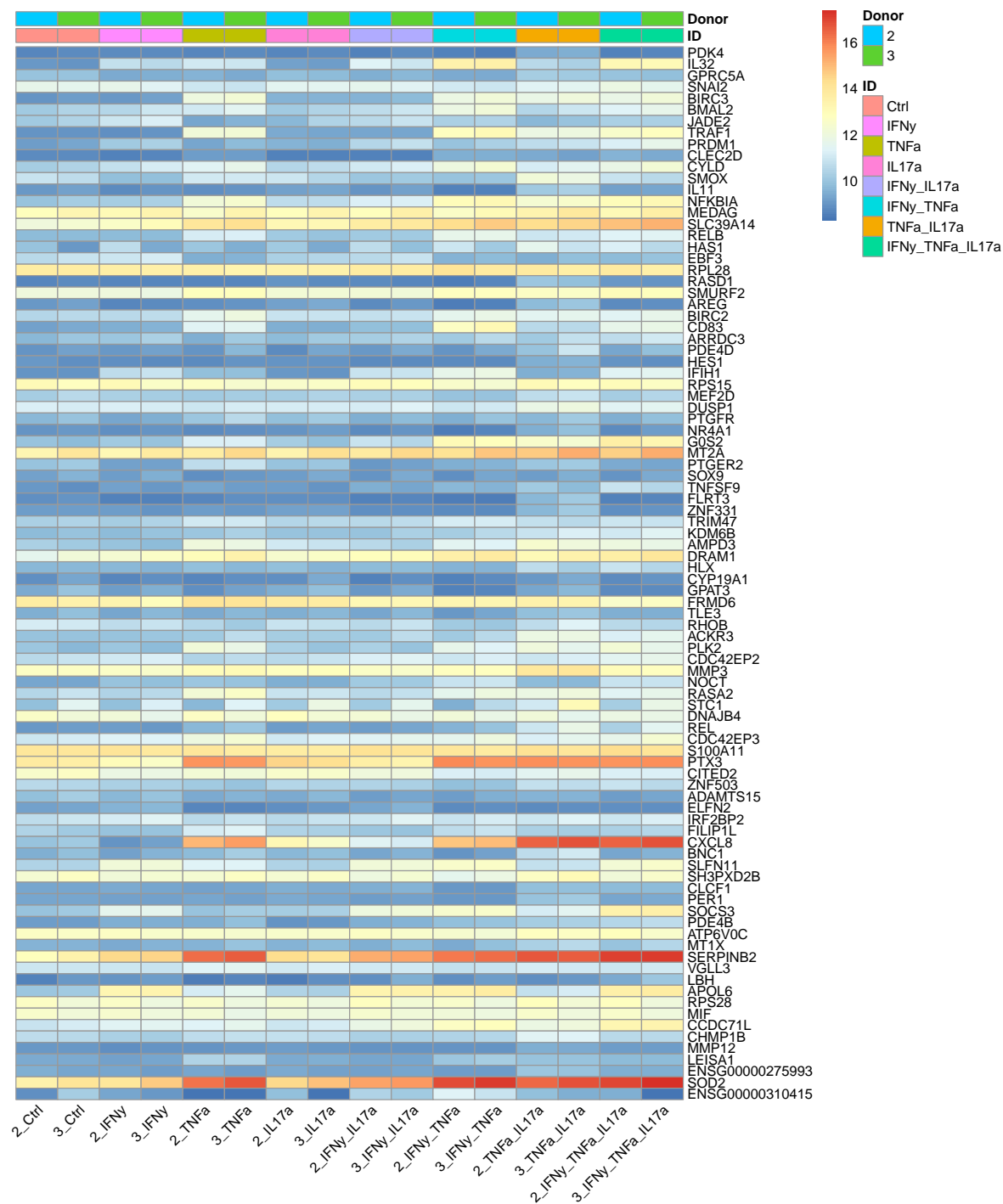
IFN $\gamma$ \_IL17a synergy



IFN $\gamma$ \_TNF $\alpha$  synergy



# TNFa\_IL17a synergy

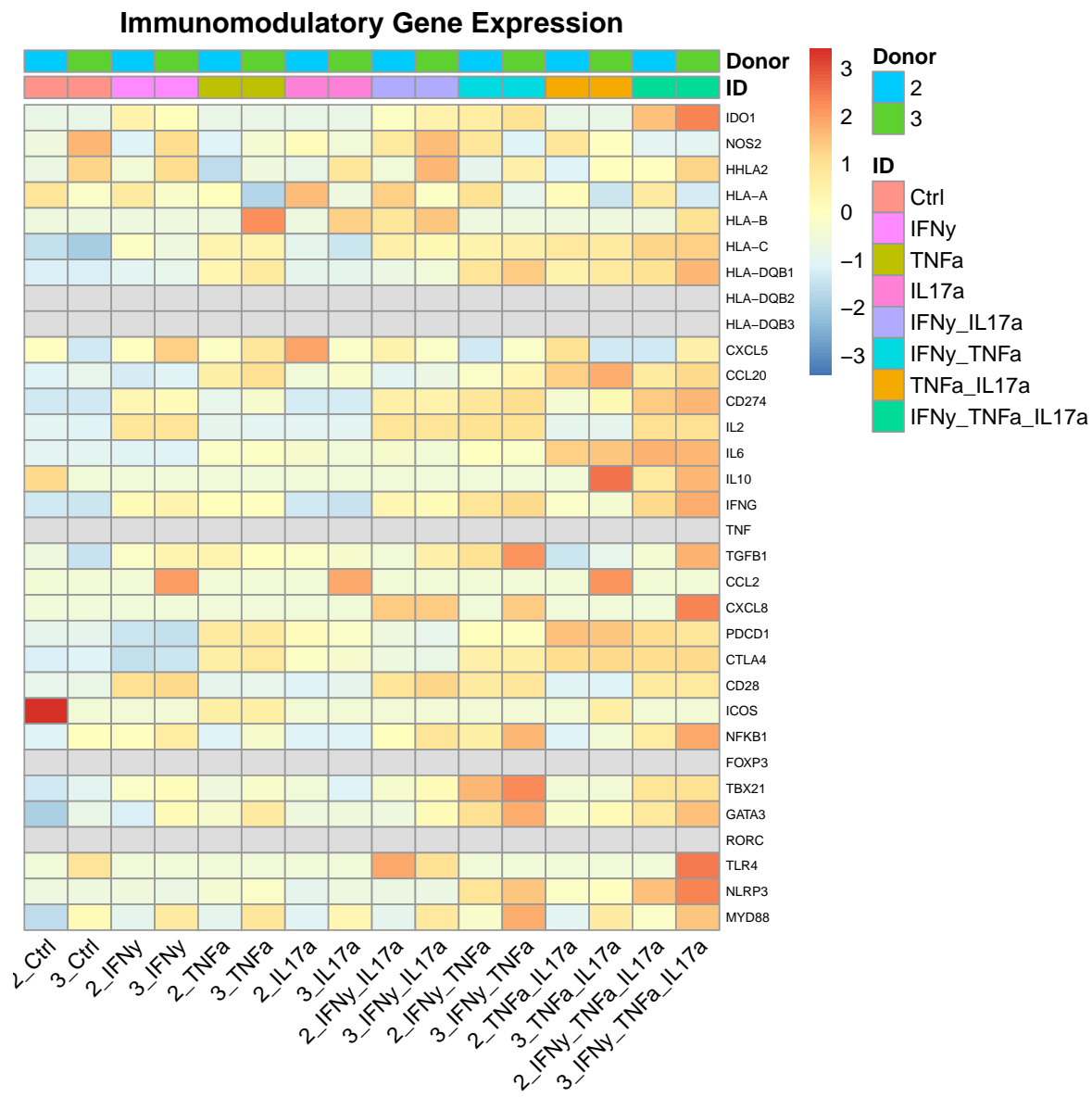




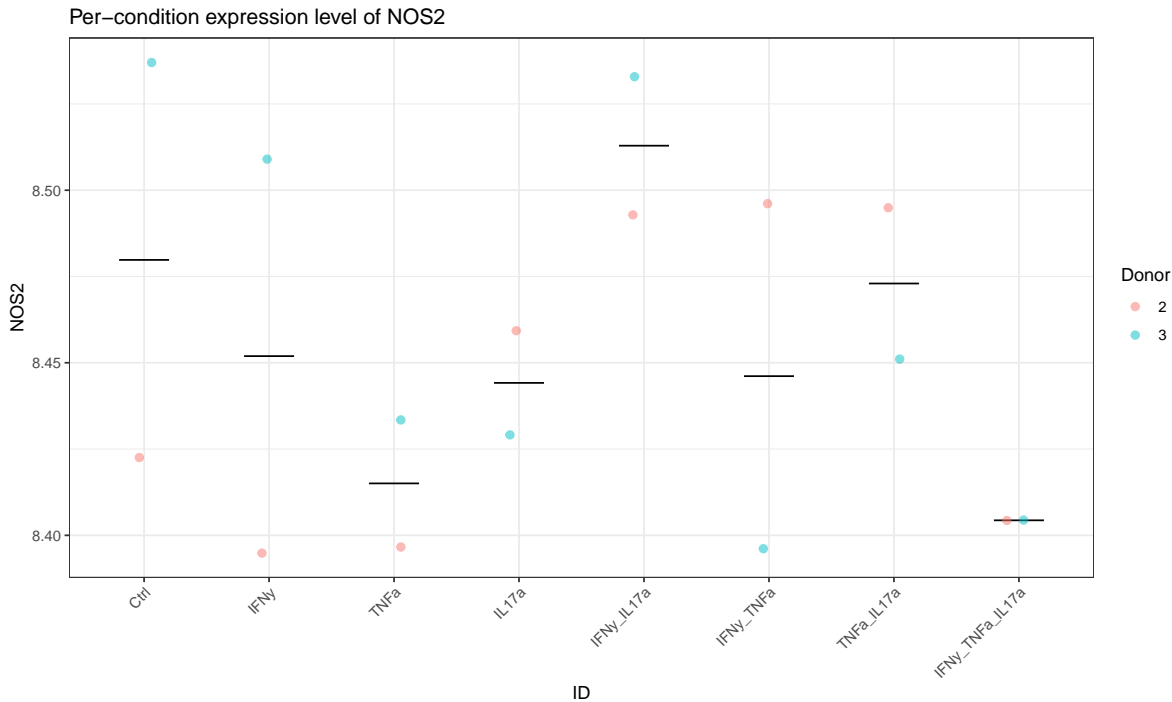
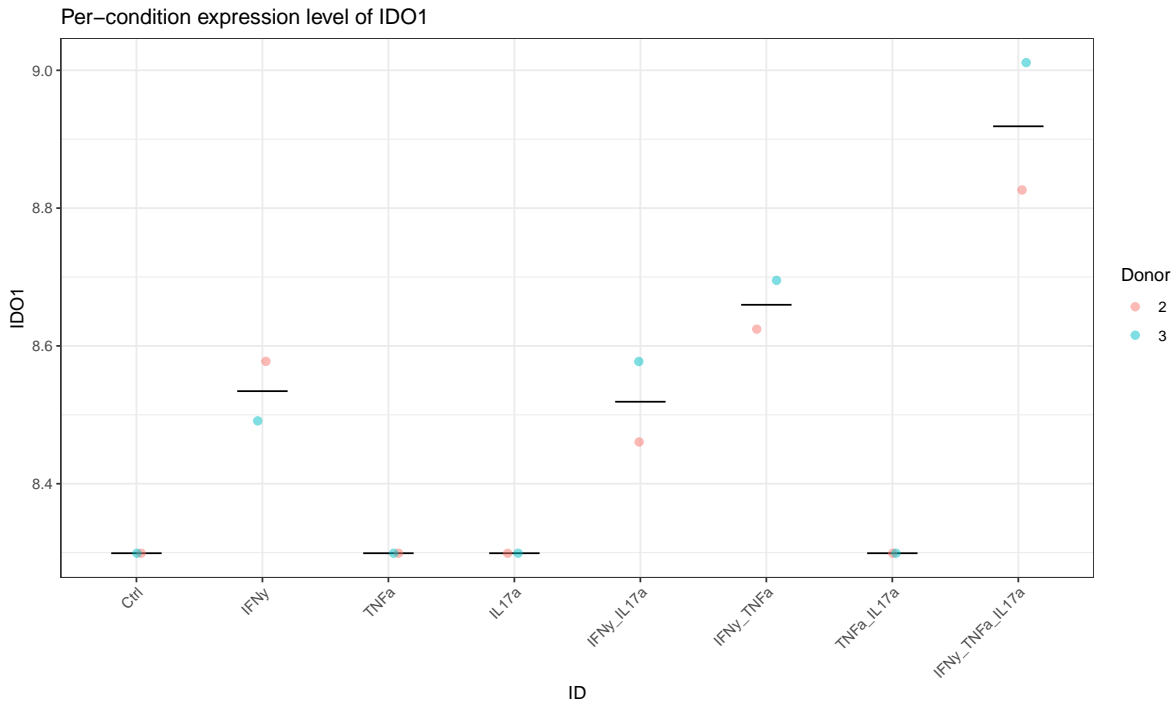


## Immunomodulatory Gene Signatures

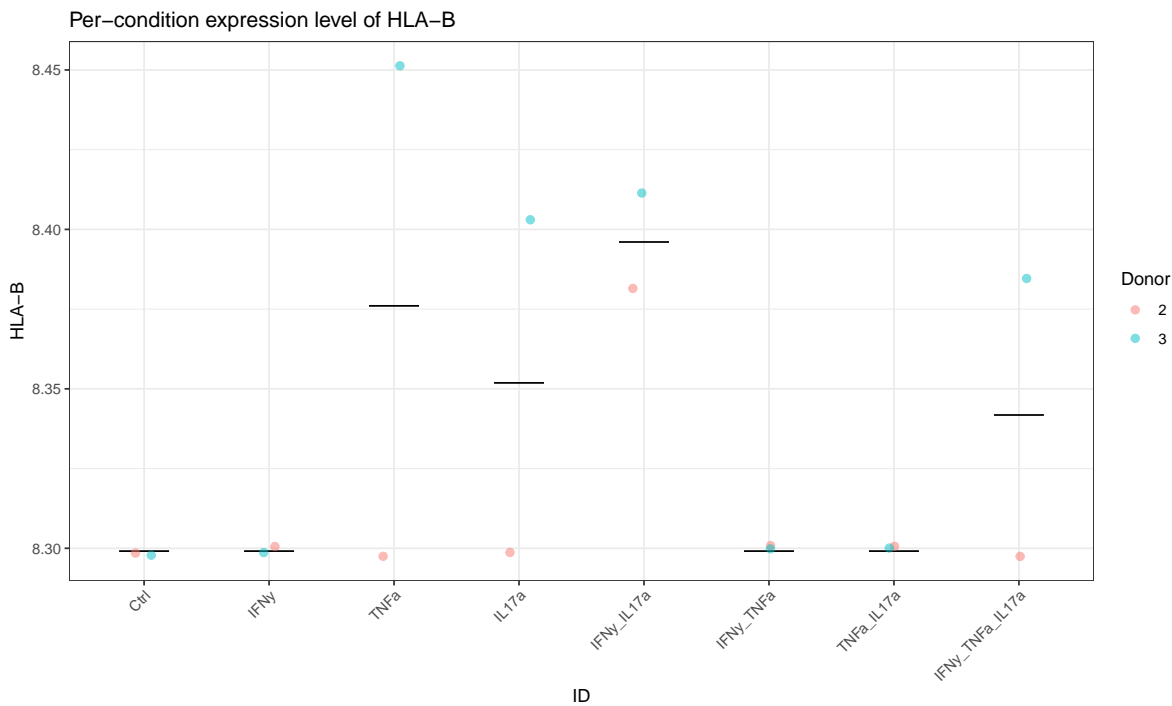
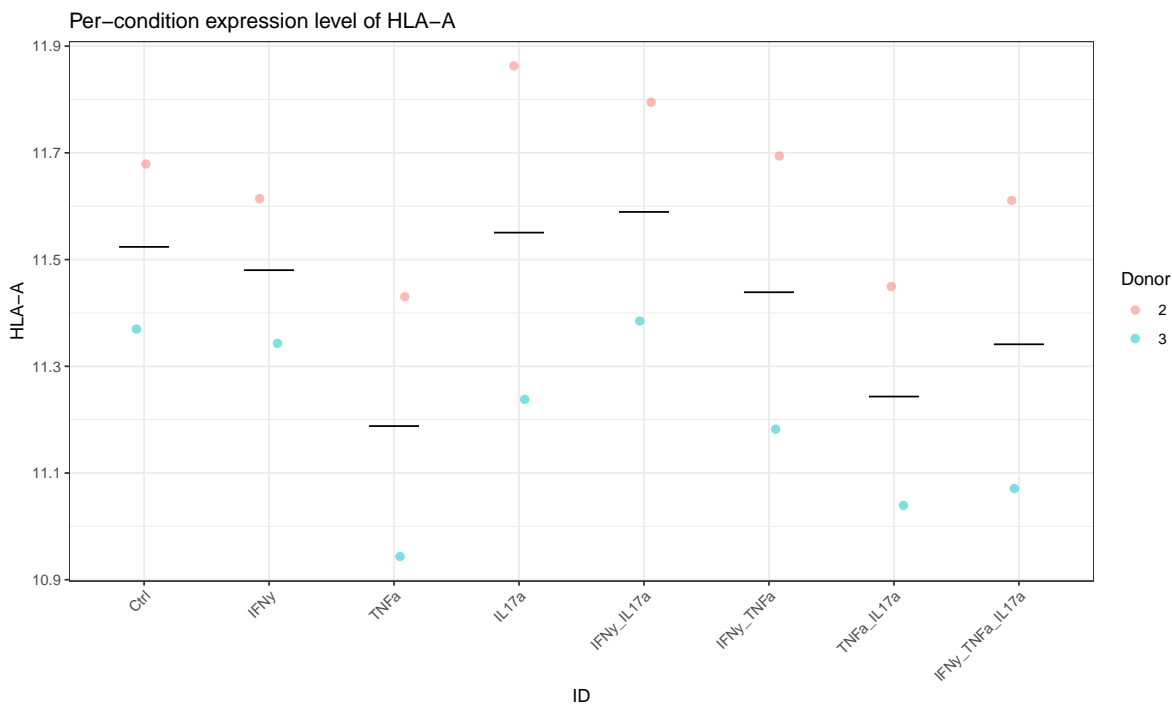
Heatmap of expression of some immunomodulatory genes.

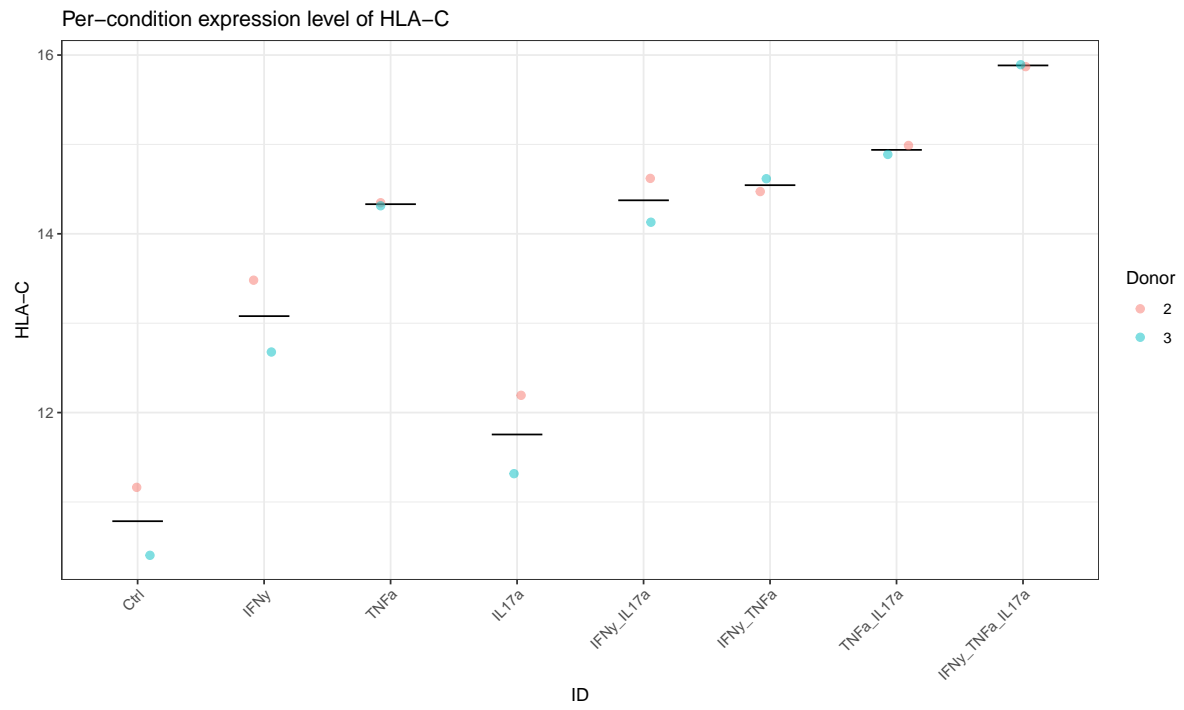


Zooming in on expression of specific immunomodulatory genes. Horizontal line is the mean.



Human Leukocyte Antigens (HLAs)





HLA-DQB1

