bulk-org figures (AB) V1.35

Raphael Kubler

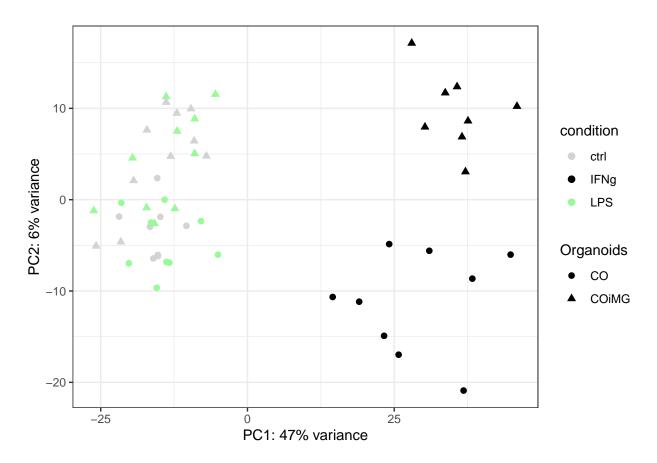
02/22/2024

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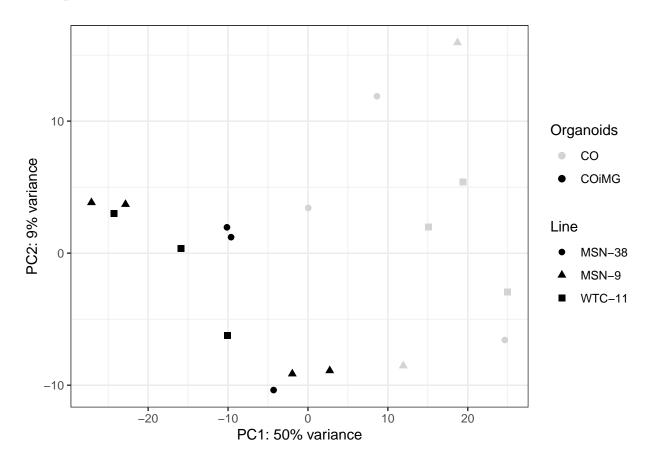
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PCA IFNy, LPS, ctr

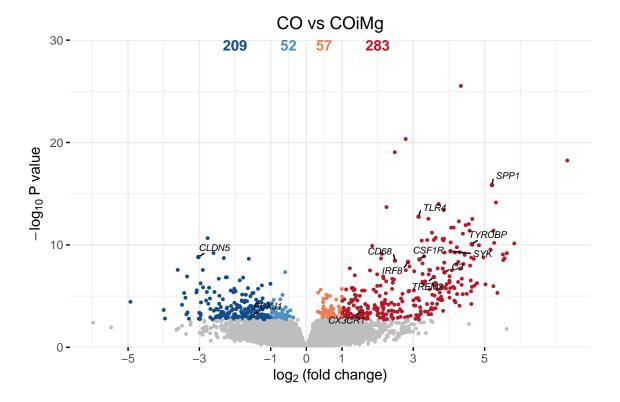


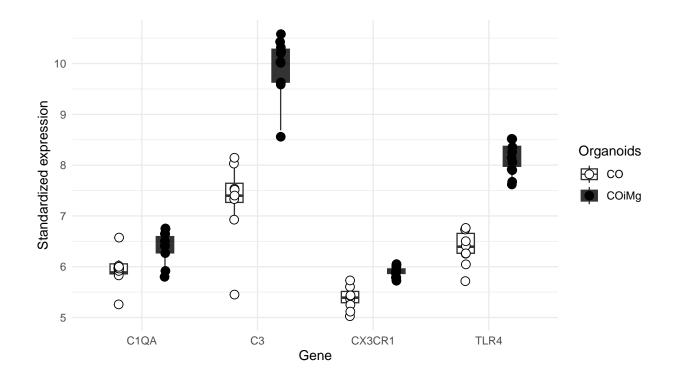
CO vs COiMG in control samples

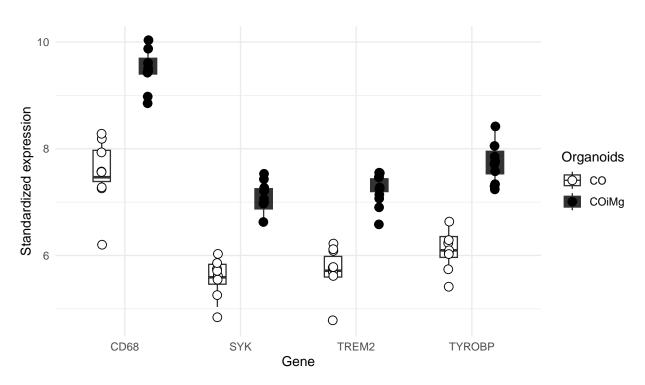
PCA plots

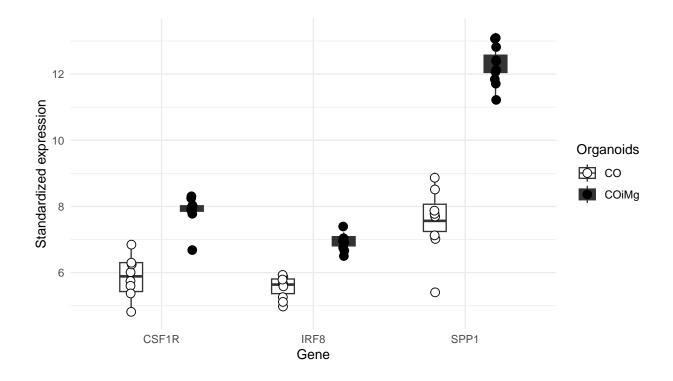


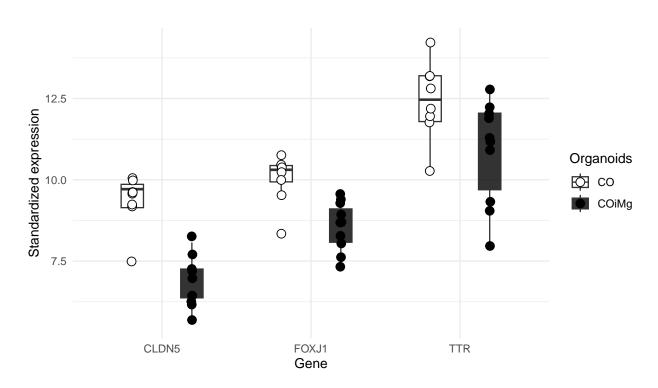
Volcano plot



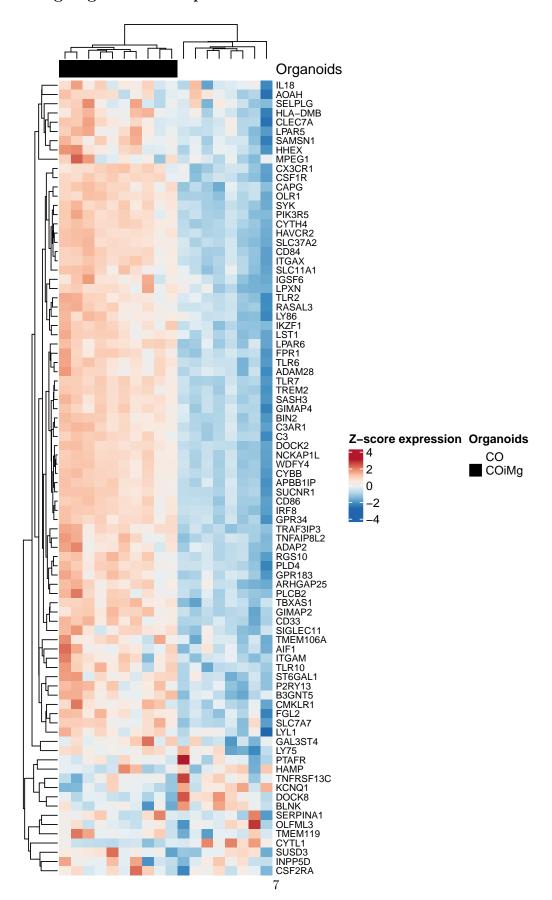




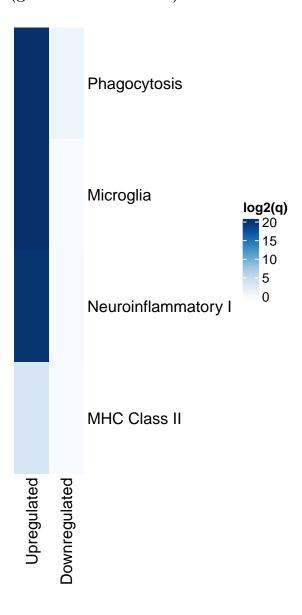




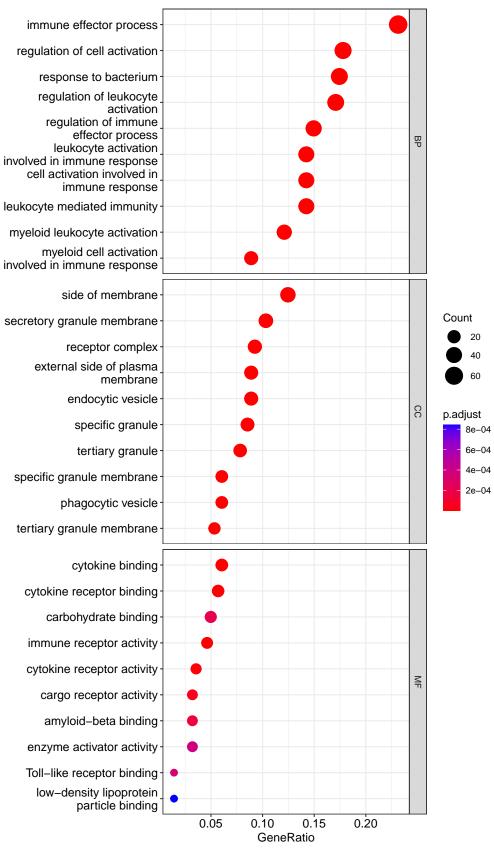
Patir microglia genes heatmap

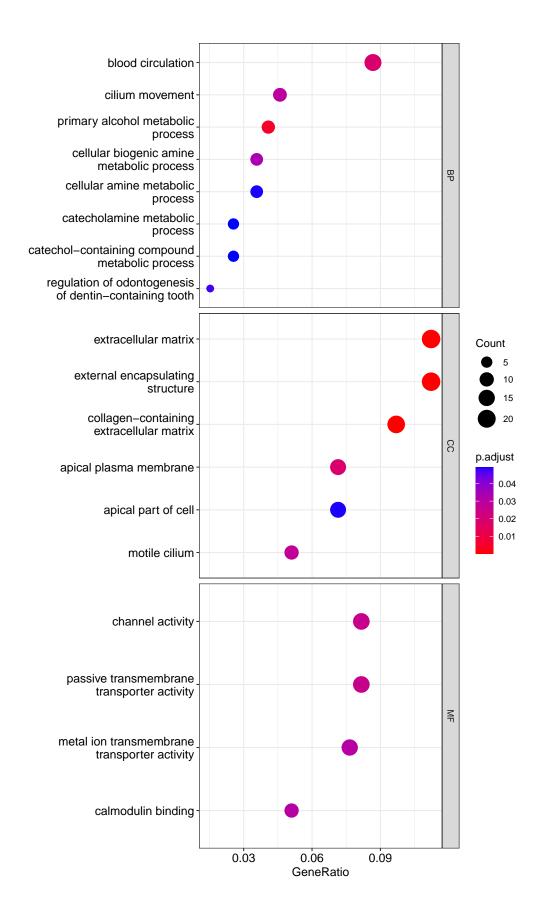


Enrichment heatmap (gene sets of interest)



GO enrichment

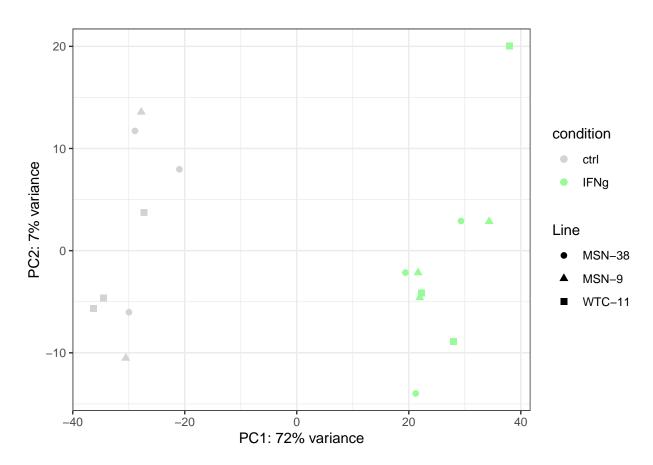




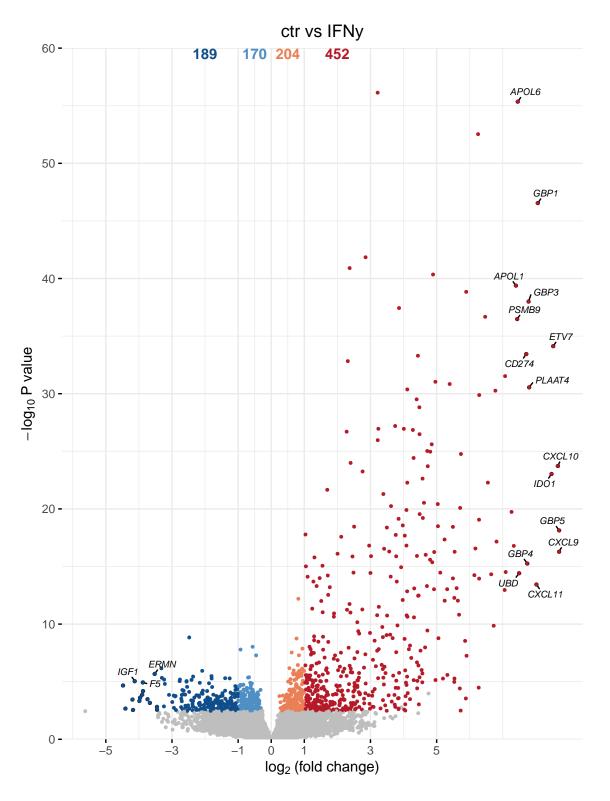
Stimulation (IFNy) samples

PCA plots

[1] TRUE

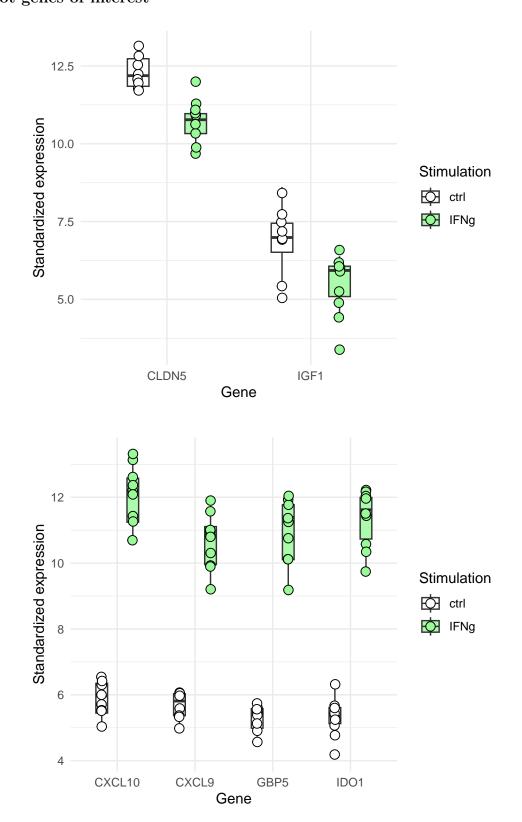


Volcano plot



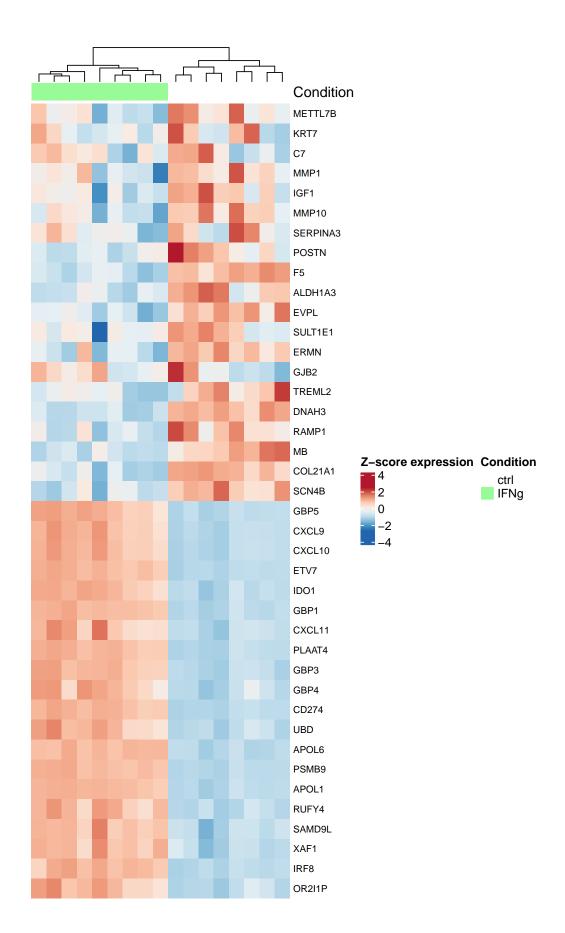
DEG table

Boxplot genes of interest

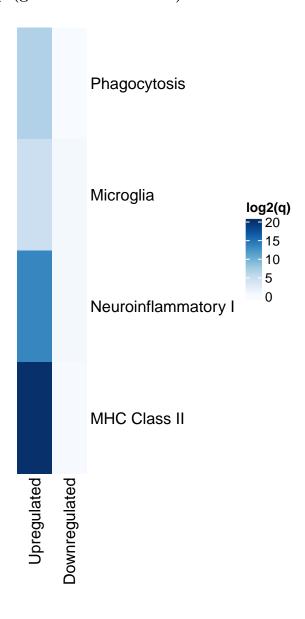


Top 40 DEGs heatmap

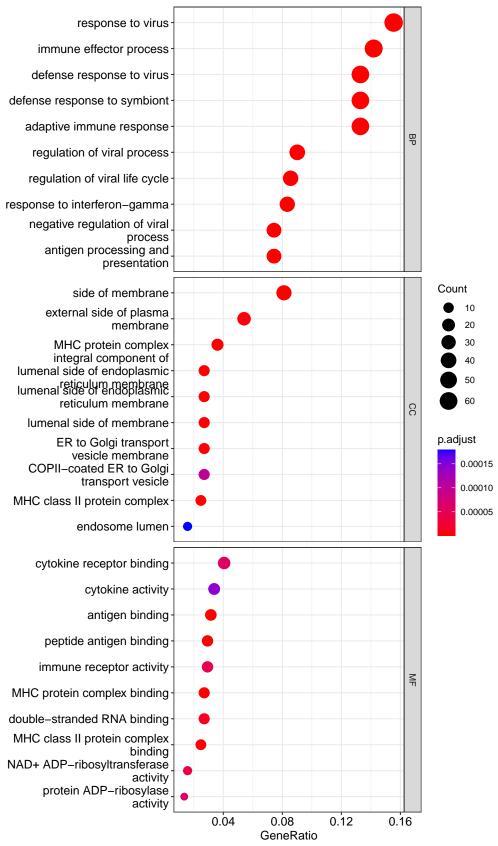
- ## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
- ## [13] FALSE FALSE FALSE FALSE

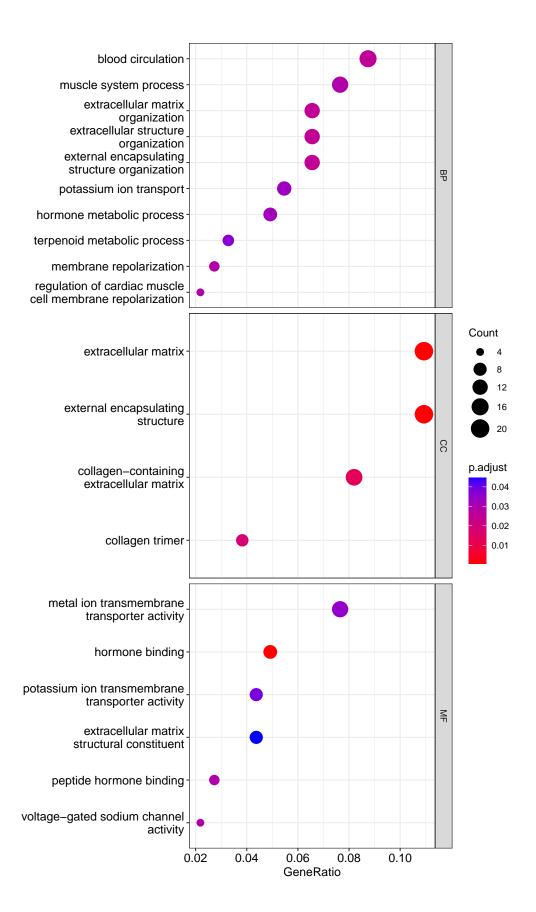


Enrichment heatmap (gene sets of interest)



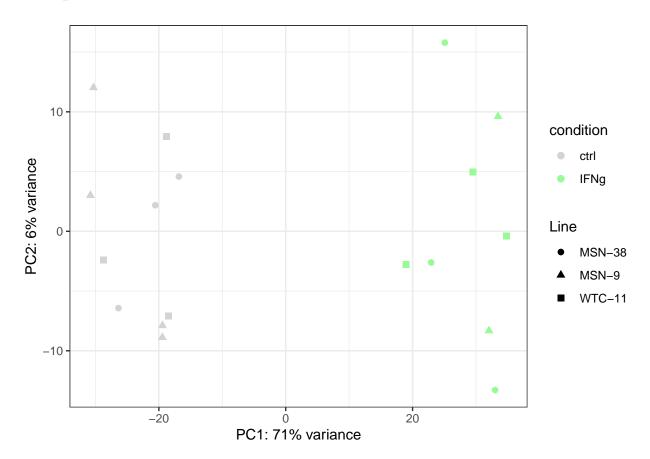
GO enrichment



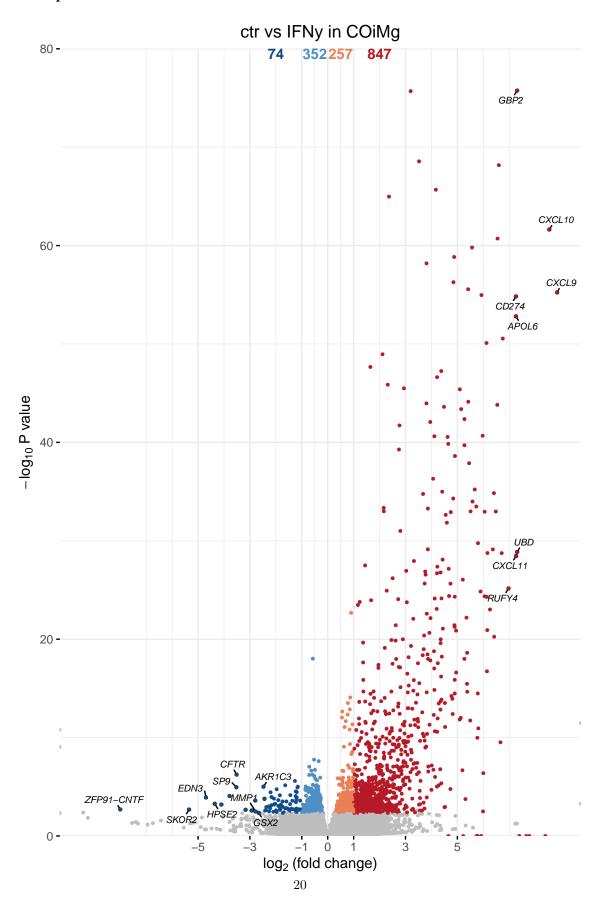


IFNy in COiMG

PCA plots

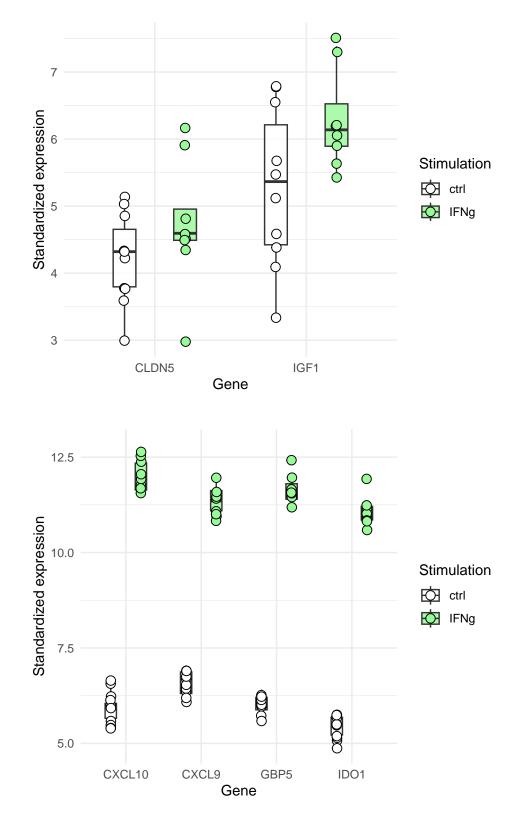


Volcano plot

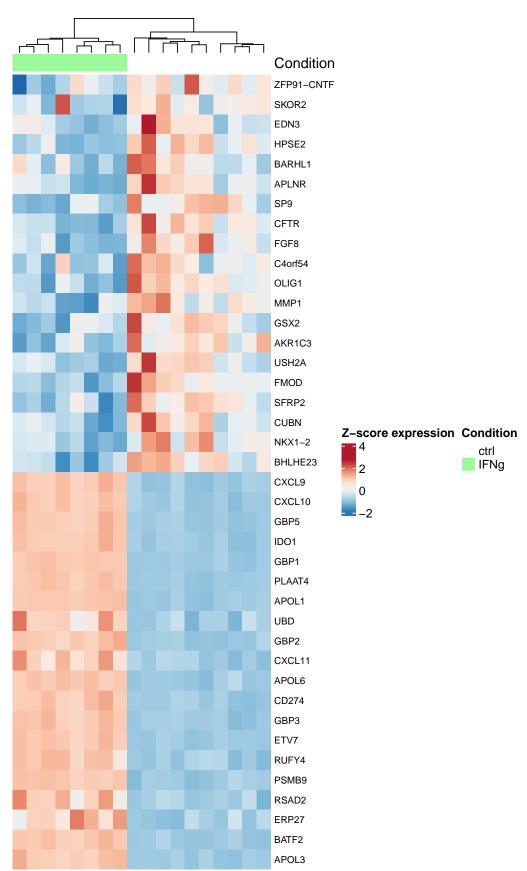


DEG table

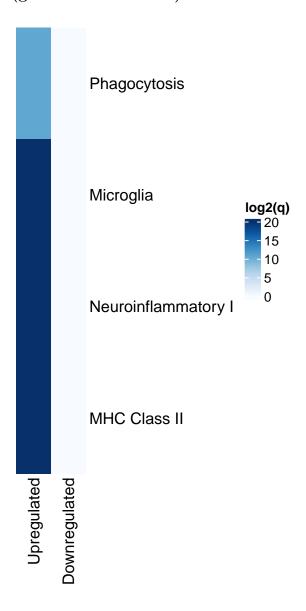
Boxplot genes of interest



Top 40 DEGs heatmap

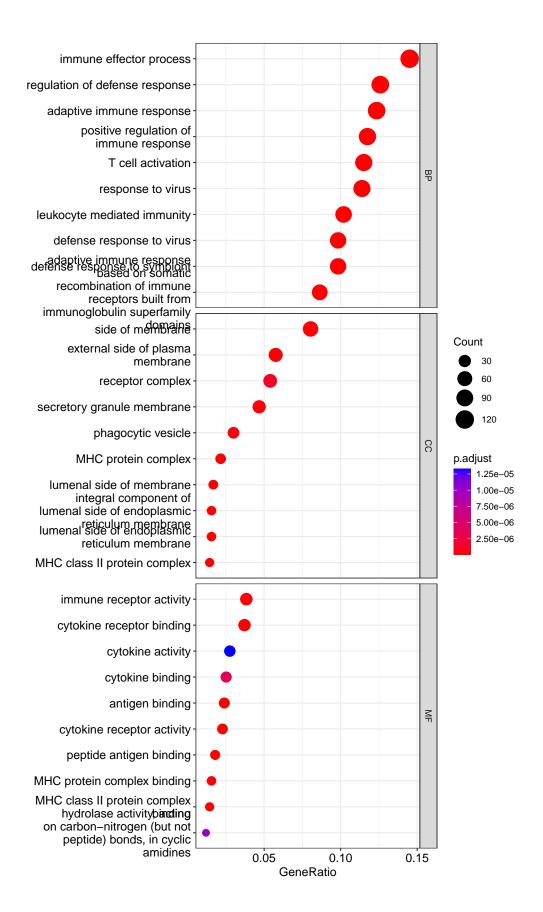


Enrichment heatmap (gene sets of interest)

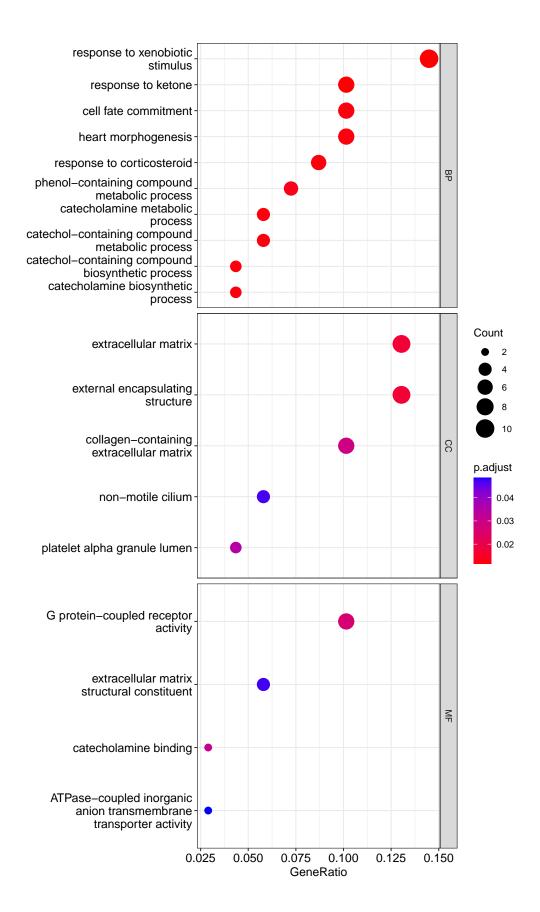


GO enrichment

[1] "Upregulated"

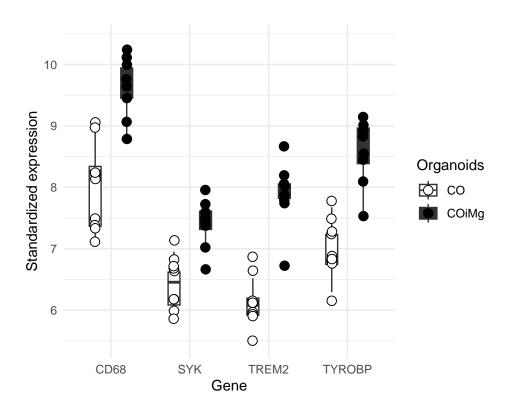


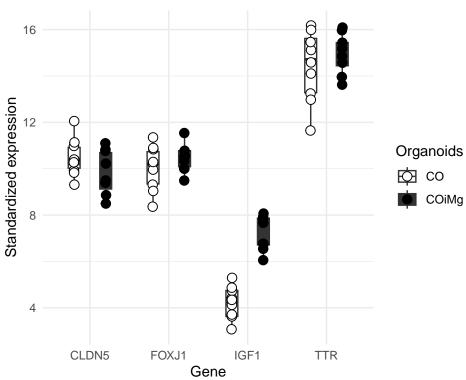
[1] "Downregulated"



CO vs COiMg under IFNy

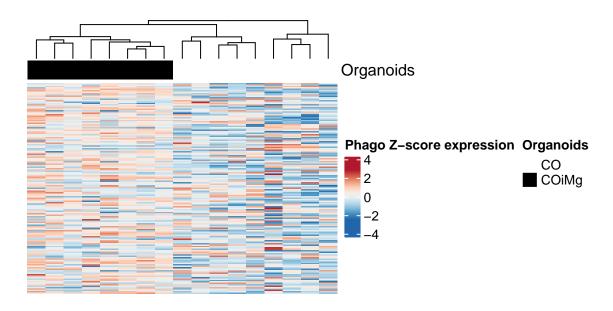
Phagocytosis: CO vs COiMg under IFNy



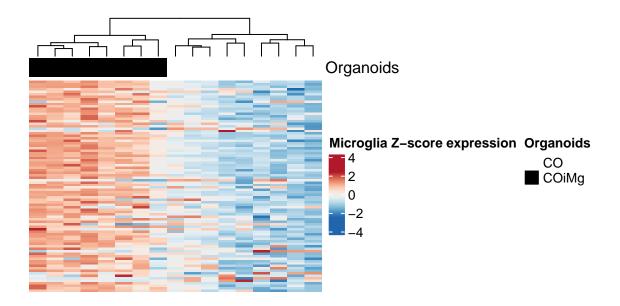


Gene set heatmap

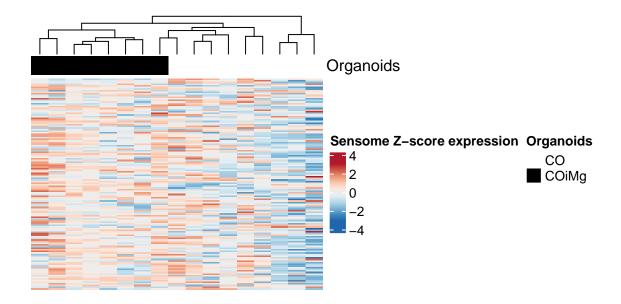
[1] "Phagocytic heatmap"



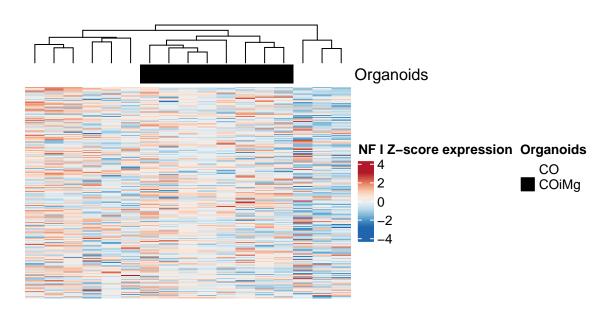
[1] "Microglia heatmap"



[1] "Sensome heatmap"



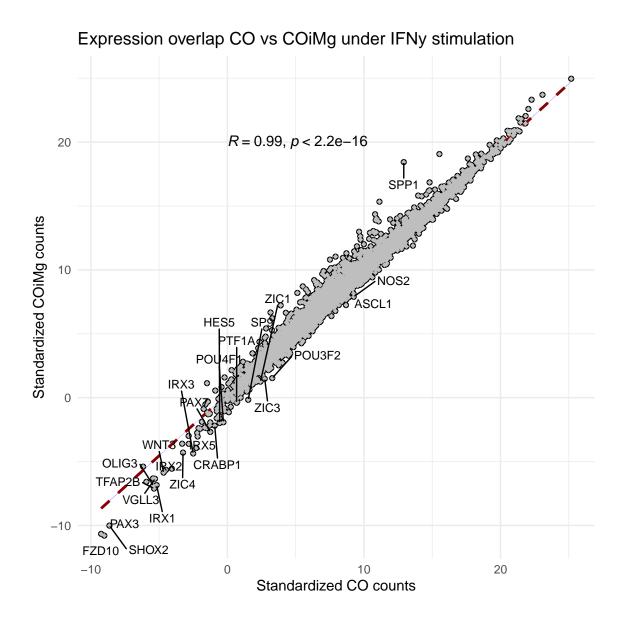
[1] "Neuroinflammatory I heatmap"



IFNy CO vs COiMG

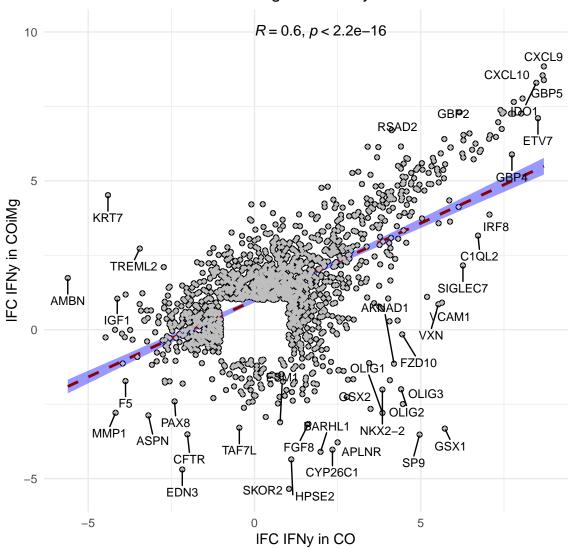
```
## M16 0.988853 0.9750494 0.9854099 0.9860980 0.9844882 0.9665080 0.9772695
## M17 0.9882932 0.9689689 0.9821487 0.9803589 0.9830655 0.9582293 0.9703453
## M18 0.9853977 0.9796923 0.9773084 0.9801409 0.9848437 0.9628487 0.9773172
## M24 0.9893057 0.9799679 0.9870001 0.9855227 0.9831987 0.9708646 0.9793361
## M30 0.9839439 0.9849775 0.9782459 0.9812581 0.9760353 0.9881220 0.9857833
## M36 0.9808666 0.9739084 0.9819043 0.9848451 0.9726188 0.9723869 0.9735683
## F15 0.9896431 0.9848594 0.9858859 0.9880105 0.9875725 0.9839841 0.9898616
## F16 0.9736695 0.9781072 0.9730415 0.9772165 0.9707696 0.9863550 0.9842931
## F17 0.9837642 0.9760274 0.9815035 0.9841363 0.9823853 0.9590486 0.9744931
```

```
F10
## M16 0.9820133
## M17 0.9788688
## M18 0.9814824
## M24 0.9853527
## M30 0.9823925
## M36 0.9794674
## F15 0.9870064
## F16 0.9753547
## F17 0.9794916
##
                                                75%
                                                            100%
            0%
                        25%
                                    50%
## -5.52300947 -0.16864063 0.01132637 0.16271150 1.86109744
   [1] "DLX6"
                  "NOS2"
                             "TFAP2B"
                                       "MGST1"
                                                  "PAX7"
                                                            "KITLG"
                                                                       "ASIC4"
##
   [8] "NAALAD2" "MOXD1"
                             "LRP2"
                                       "SLC32A1" "TOX3"
                                                            "WNT3"
                                                                       "FZD10"
##
## [15] "SPP1"
                             "PAX3"
                                       "GAD2"
                                                            "ZFHX3"
                                                                       "GREB1L"
                   "ONECUT2"
                                                  "ASCL1"
## [22] "C1QL2"
                   "DLX1"
                             "SFRP2"
                                       "TENM2"
                                                  "CDH8"
                                                            "POU4F1"
                                                                       "ZIC1"
## [29] "ROBO3"
                  "WNT7A"
                             "ZIC3"
                                       "H4C8"
                                                  "VCAM1"
                                                            "NDST3"
                                                                       "CRABP1"
                                       "IRX1"
                                                                       "LRRN3"
## [36] "PTF1A"
                  "GBX2"
                             "SHOX2"
                                                  "IRX2"
                                                            "HSPA6"
## [43] "WFIKKN2" "ZIC4"
                                       "IRX5"
                                                 "OLIG3"
                                                            "IRX3"
                                                                       "GSX2"
                             "PRIMA1"
## [50] "FIGN"
                             "SOX1"
                                       "POU3F2"
                                                  "PCDH18"
                                                            "GREB1"
                                                                       "P0U3F4"
                   "BGN"
                  "XOT"
                                                                      "UBD"
## [57] "HES5"
                             "HSPA1B"
                                       "HSPA1A"
                                                 "VGLL3"
                                                            "TRIM71"
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                  "OR2I1P"
                             "H4C14"
                                       "H2BC8"
```

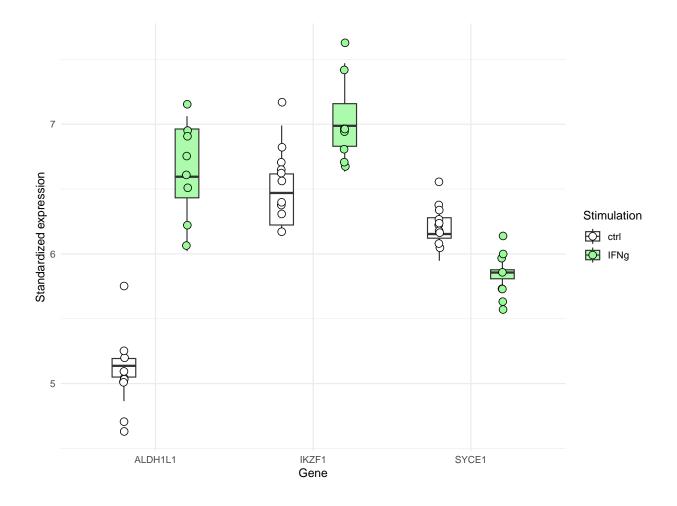


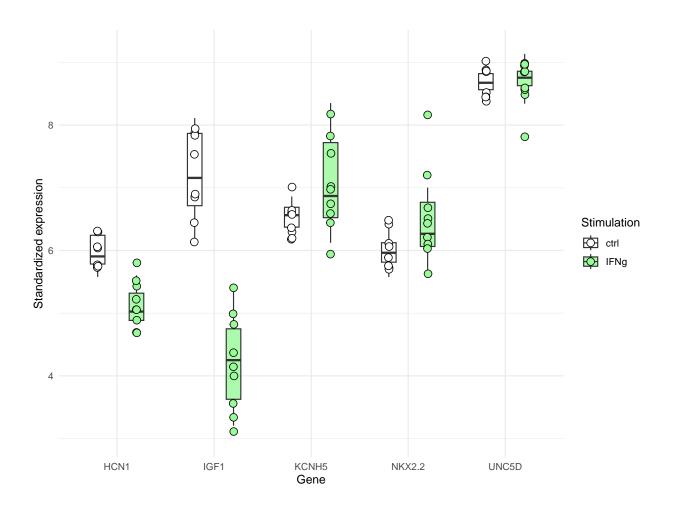
CO vs COiMg lFC correlation plot

IFC correlation in CO & COiMg under IFNy stimulation



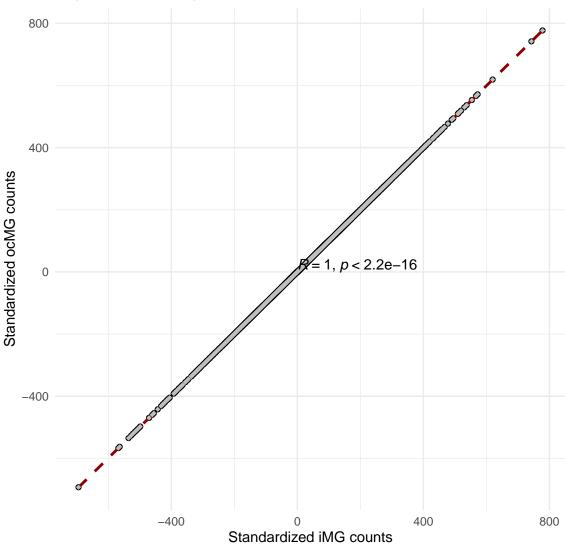
SFARI response to IFNy



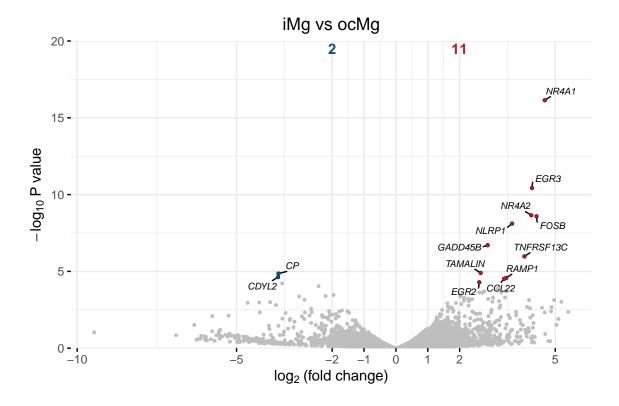


iMG vs ocMG





Volcano



Interaction boxplots

