

bulk-org figures (AB) V1.34

Raphael Kubler

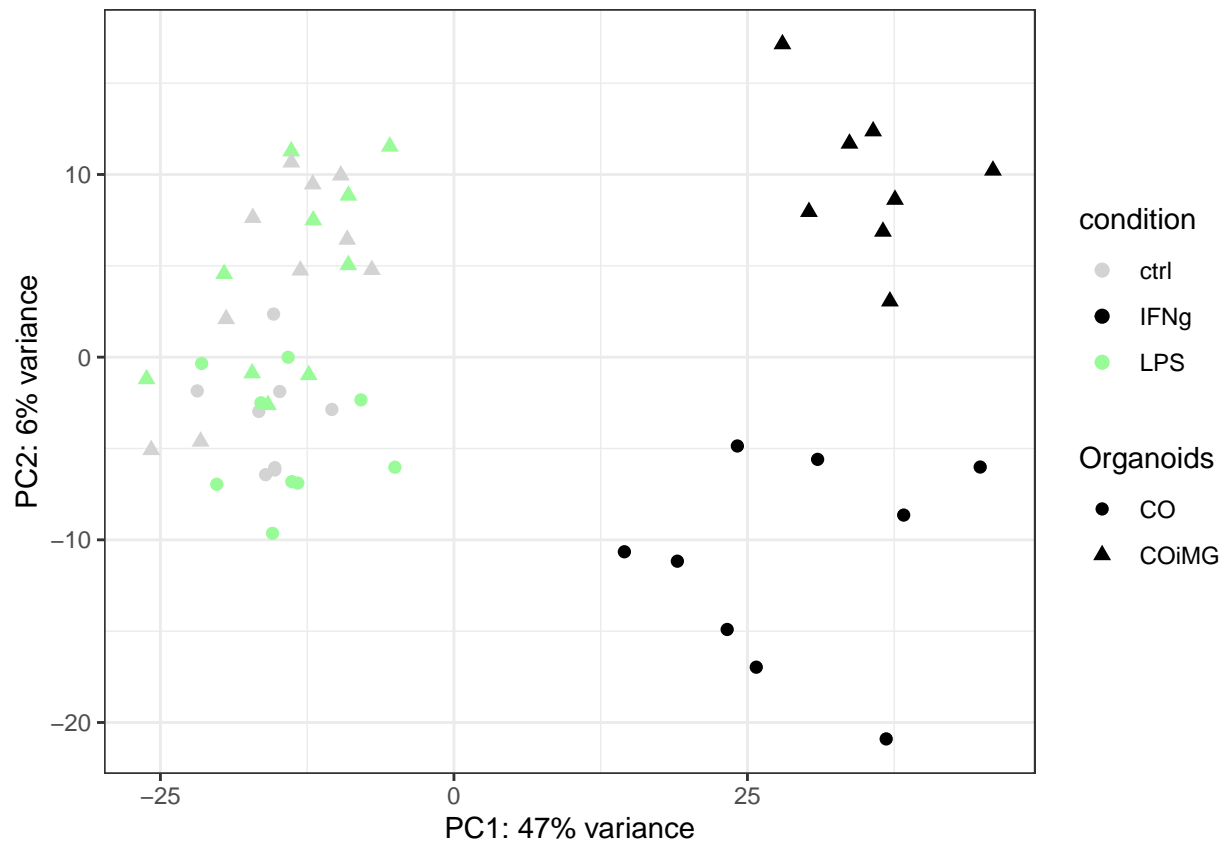
02/09/2024

Contents

PCA IFNγ, LPS, ctr	2
CO vs COiMG in control samples	3
PCA plots	3
Volcano plot	4
DEG table	5
Boxplot CO vs COiMG in CTR	5
Patir microglia genes heatmap	7
Enrichment heatmap (gene sets of interest)	8
GO enrichment	9
Stimulation (IFNγ) samples	11
PCA plots	11
Volcano plot	12
DEG table	13
Boxplot genes of interest	13
Top 40 DEGs heatmap	14
Enrichment heatmap (gene sets of interest)	15
GO enrichment	16
IFNγ in COiMG	18
PCA plots	18
Volcano plot	19
DEG table	20
Boxplot genes of interest	20
Top 40 DEGs heatmap	21
Enrichment heatmap (gene sets of interest)	22
GO enrichment	23

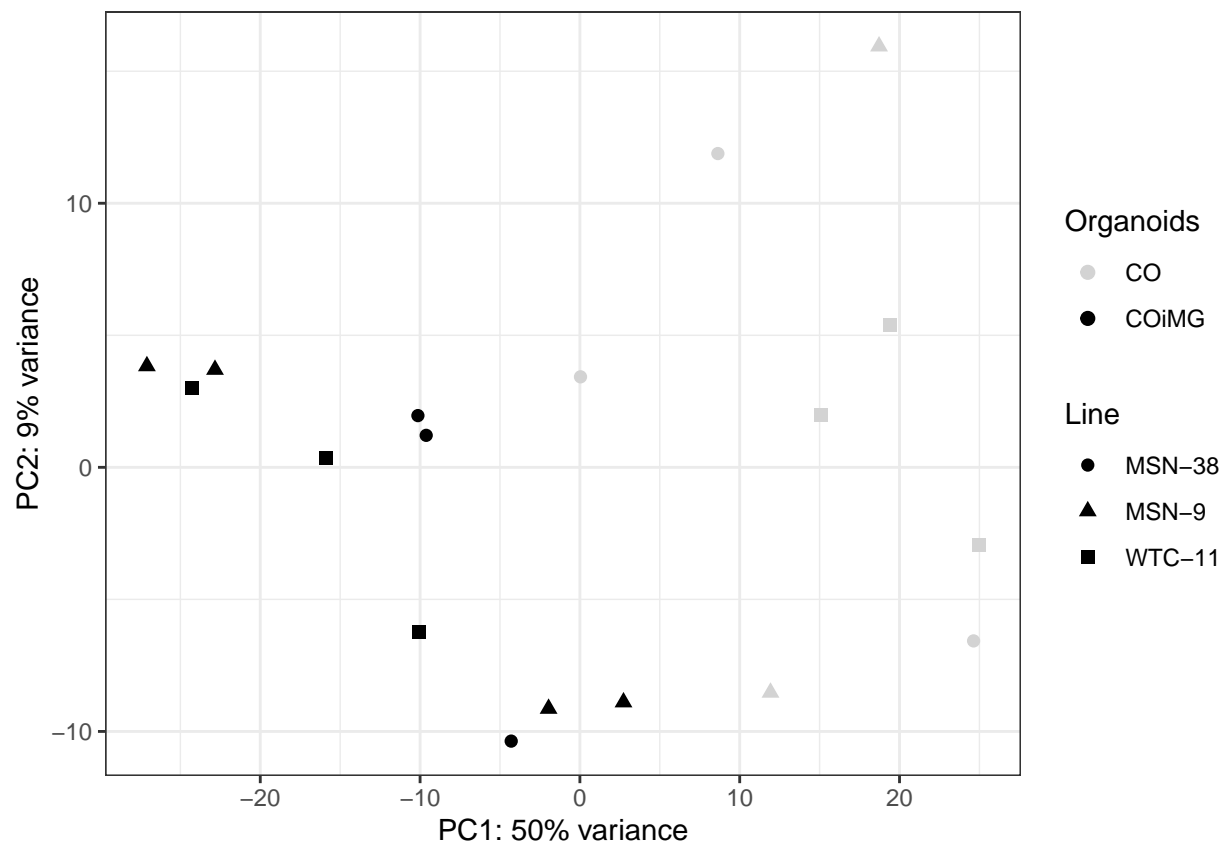
CO vs COiMG under IFNγ	25
Phagocytosis: CO vs COiMG under IFN γ	25
Gene set heatmap	26
IFN γ CO vs COiMG	27
CO vs COiMG lFC correlation plot	30
SFARI response to IFNγ	31
iMG vs ocMG	33

PCA IFN γ , LPS, ctr

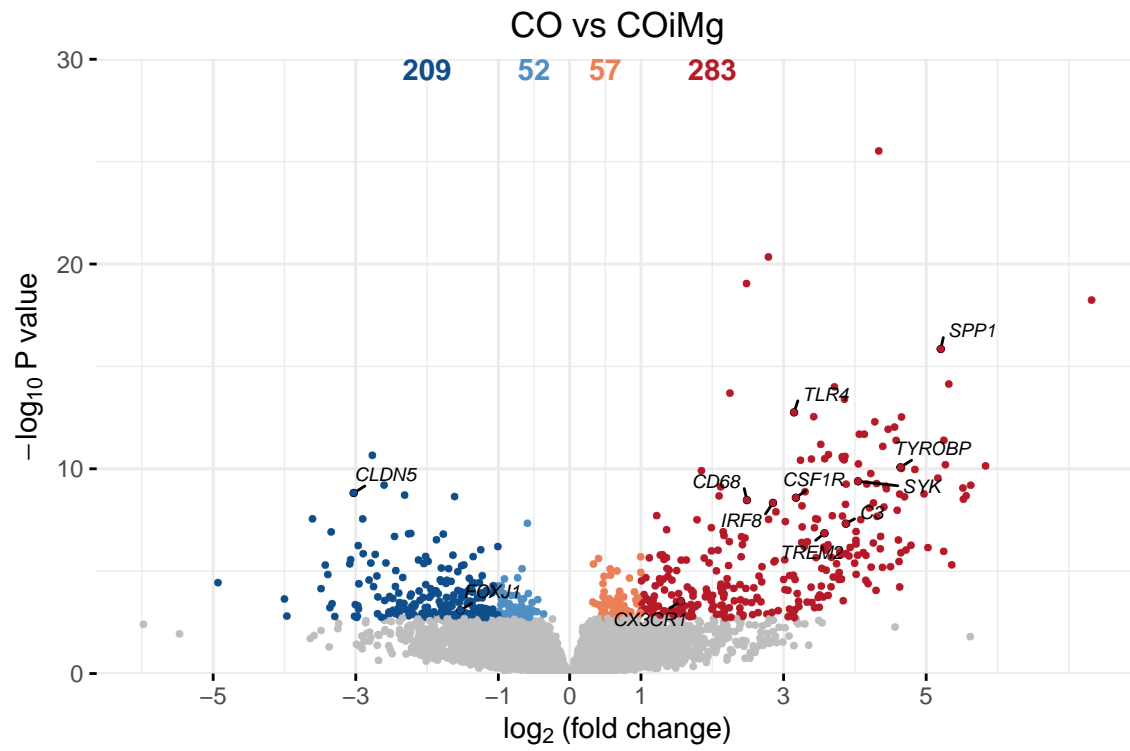


CO vs COiMG in control samples

PCA plots

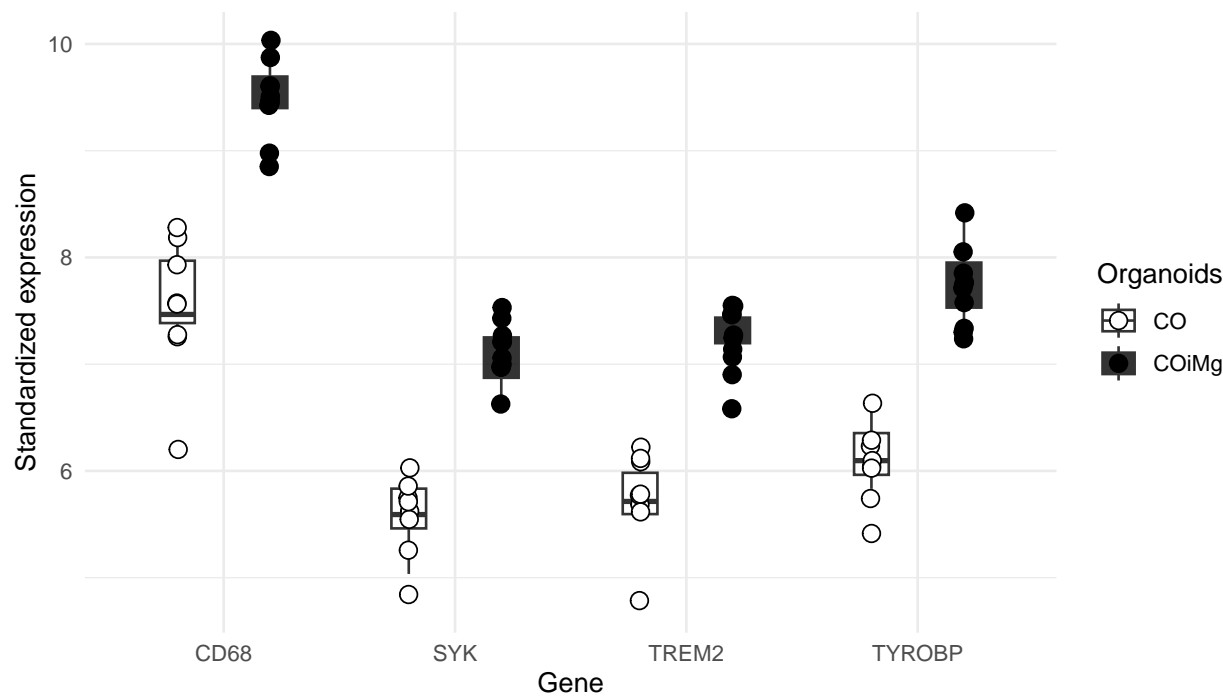
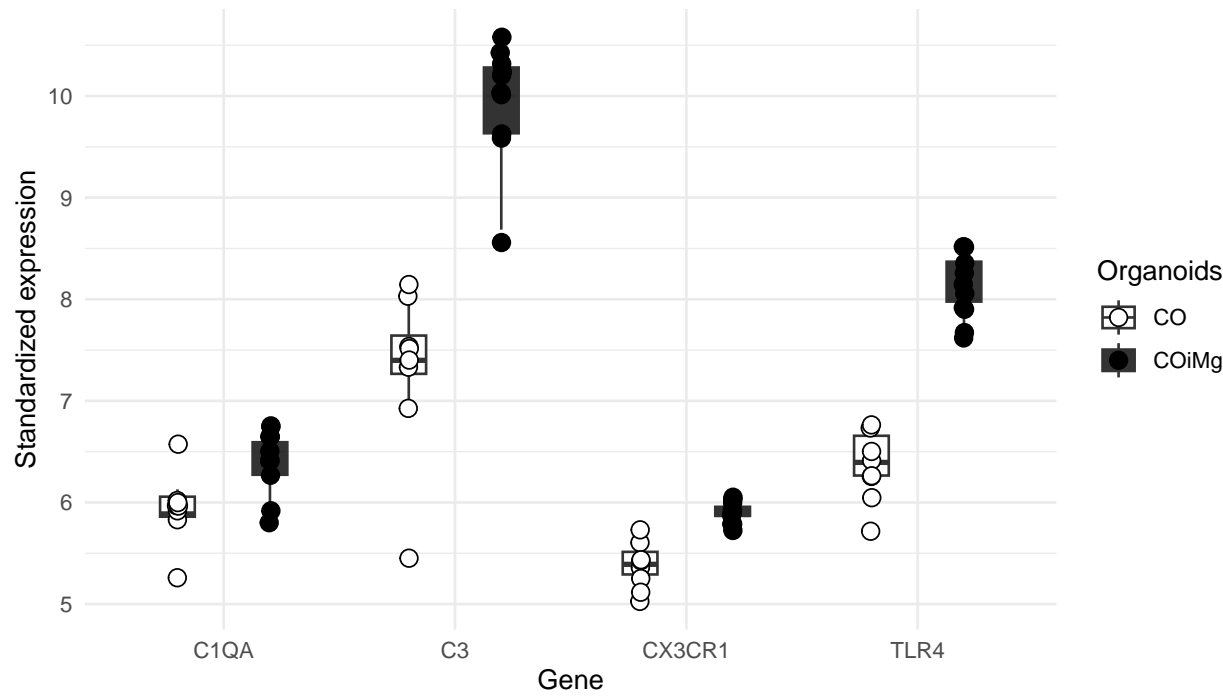


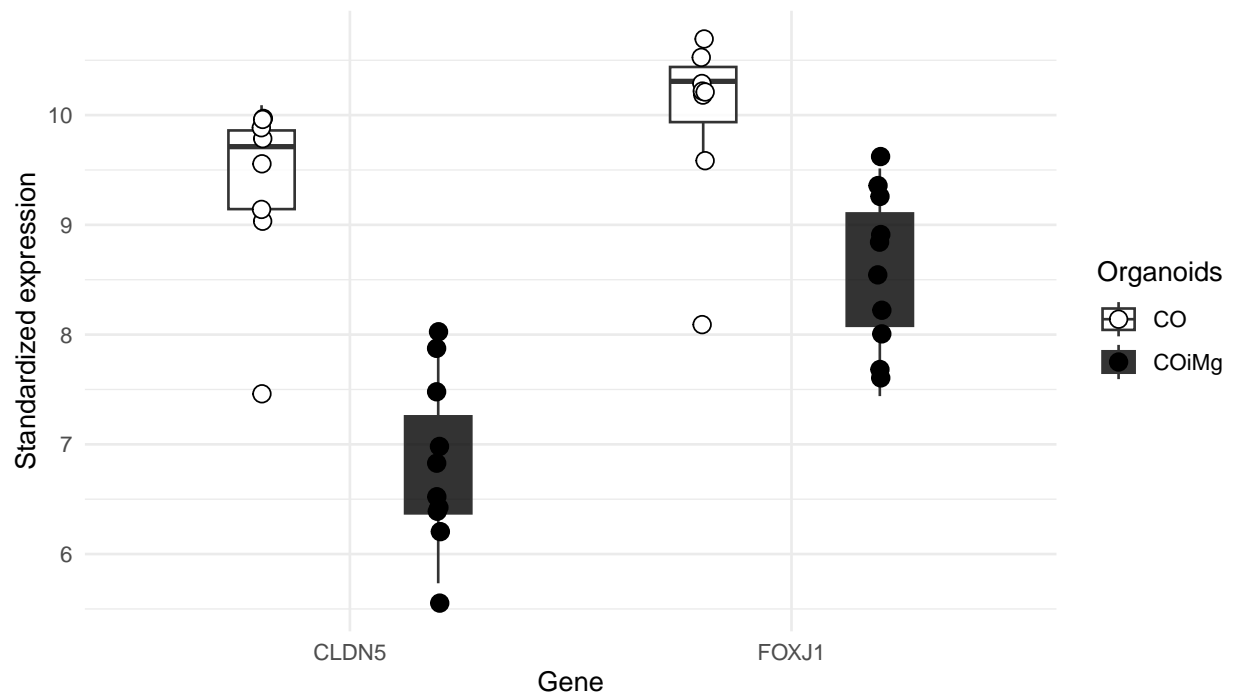
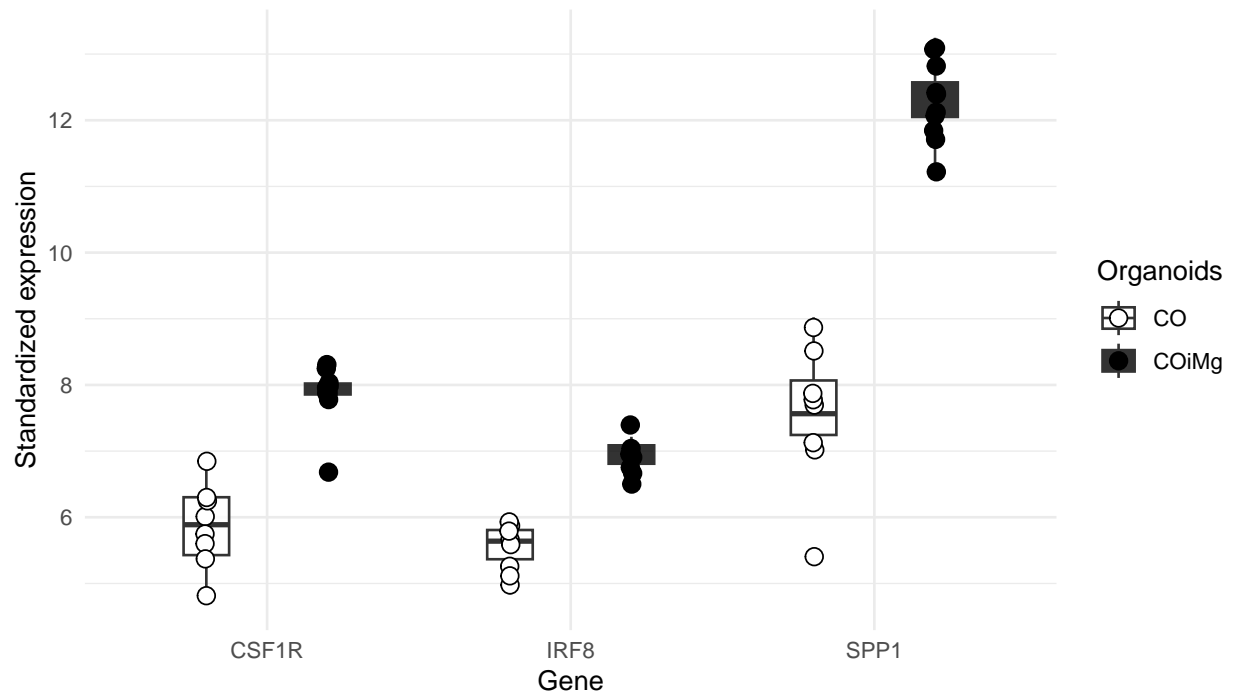
Volcano plot



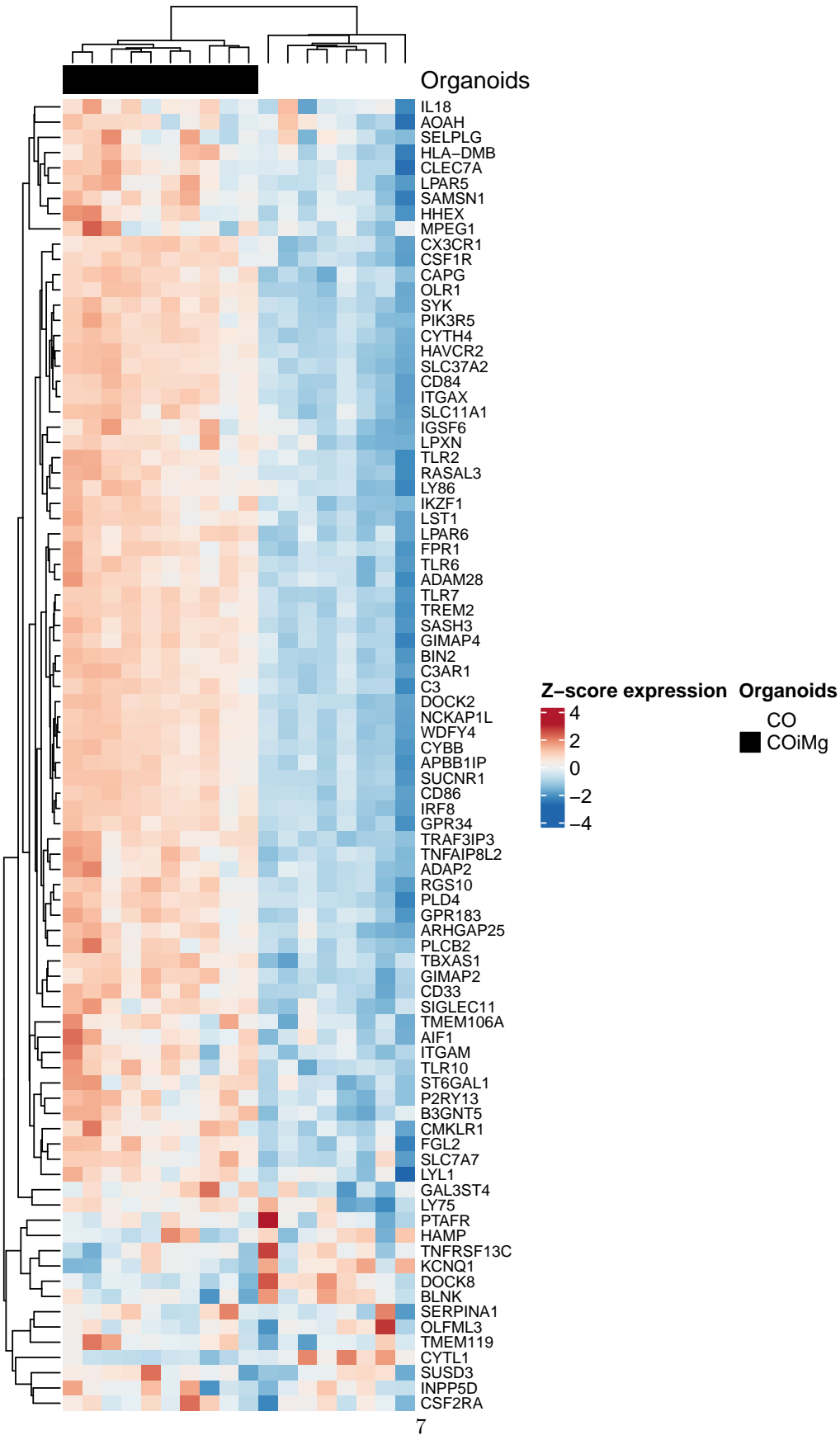
DEG table

Boxplot CO vs COiMg in CTR

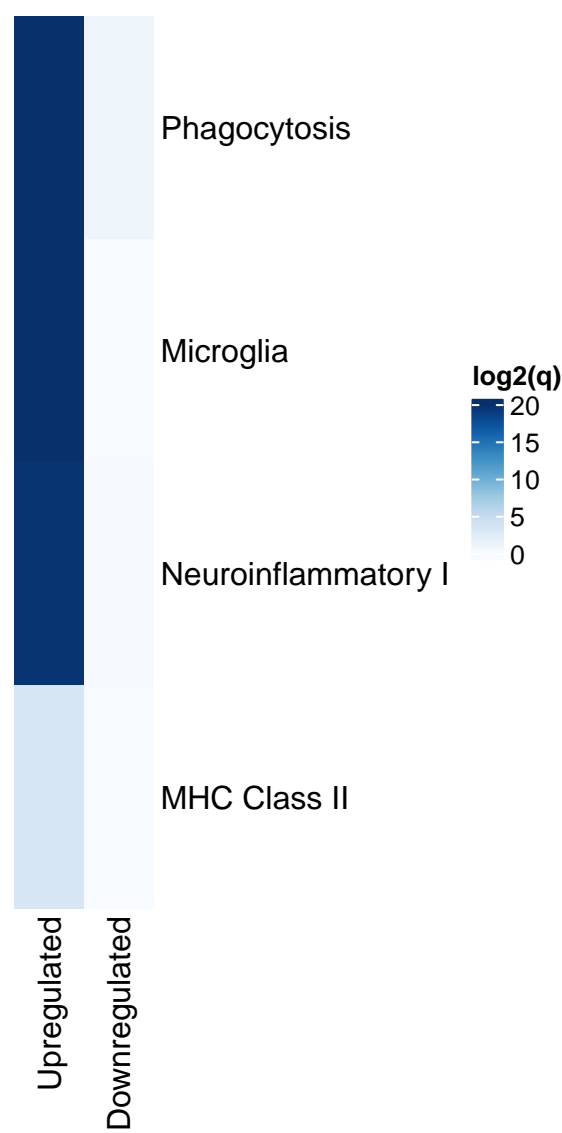




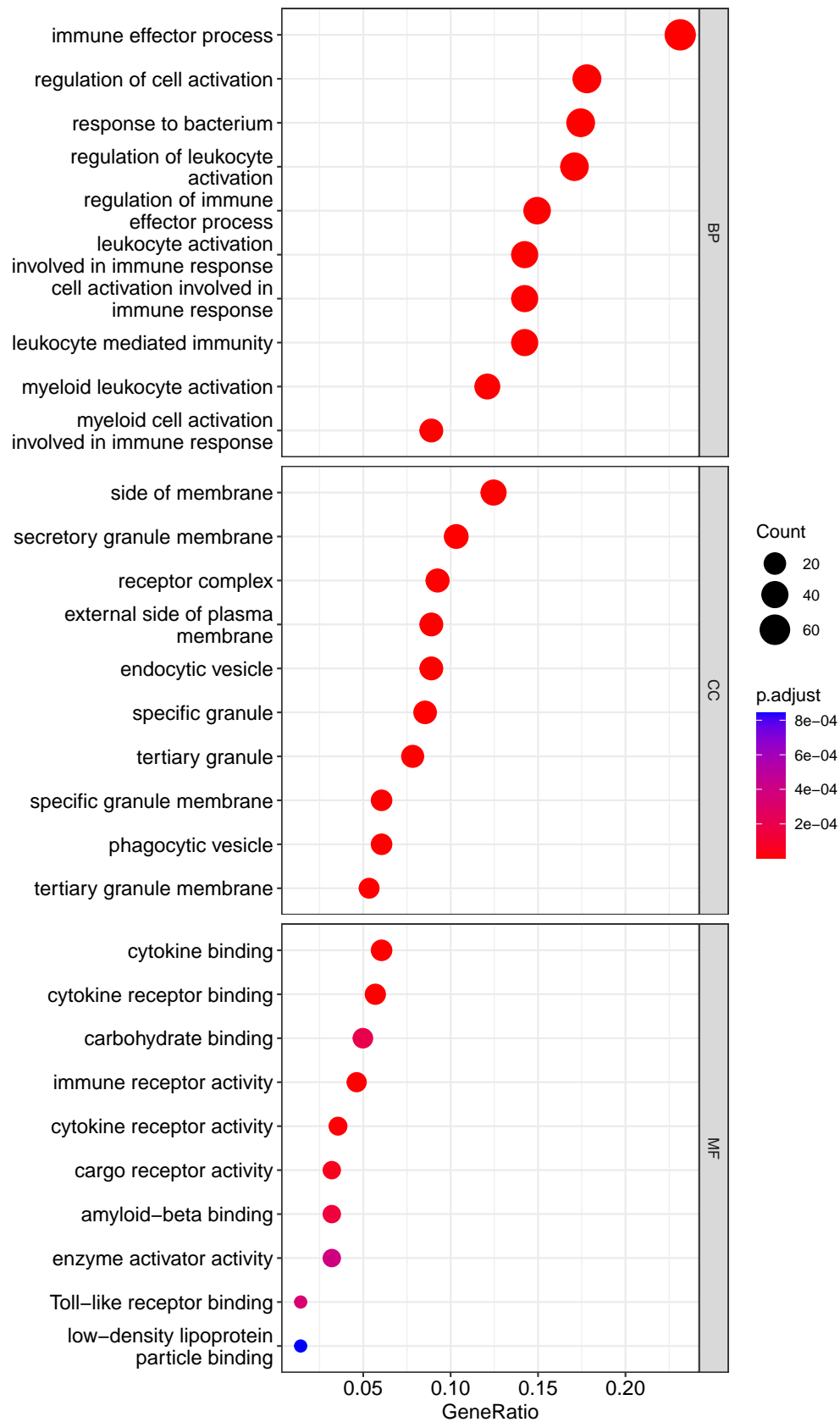
Patir microglia genes heatmap

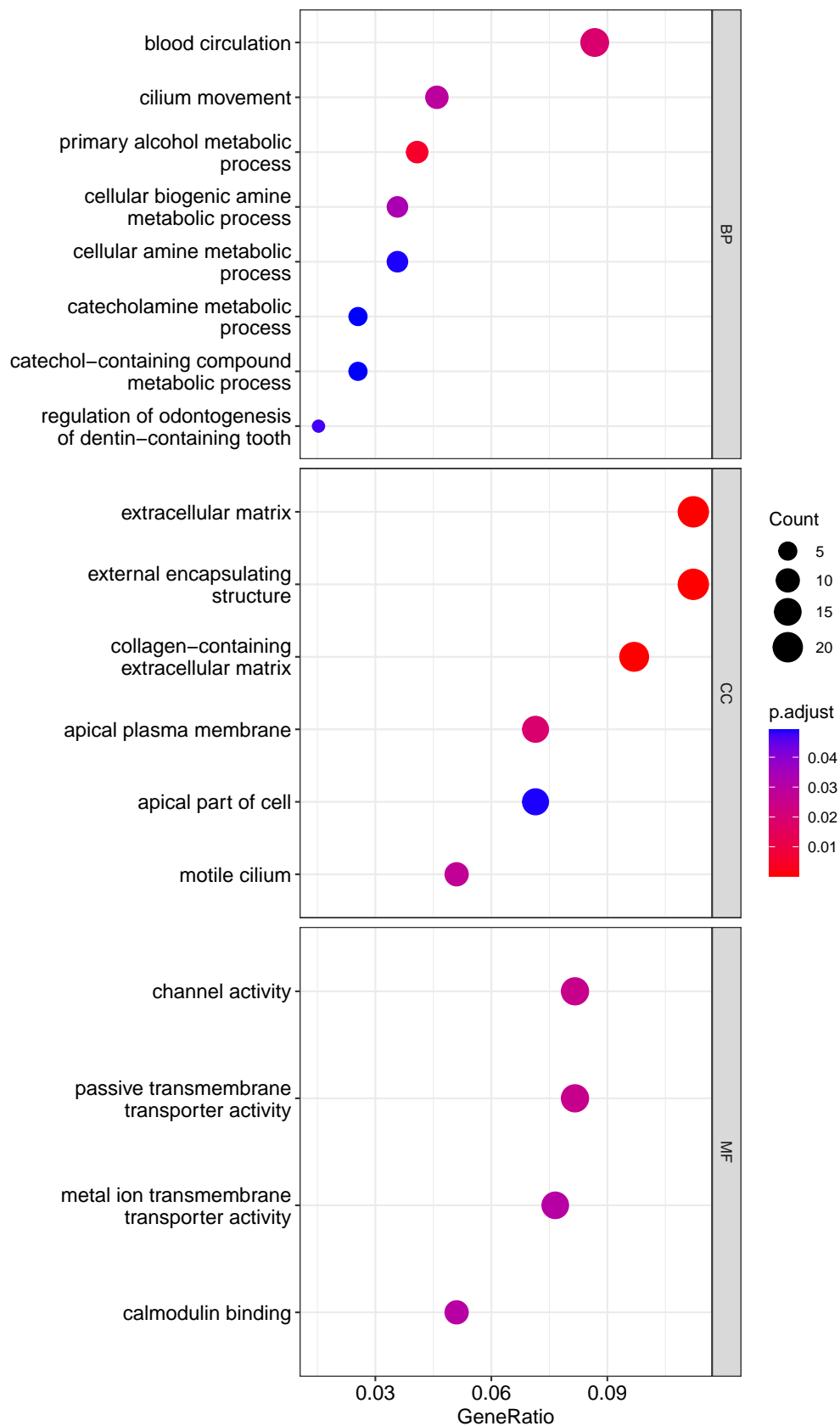


Enrichment heatmap (gene sets of interest)



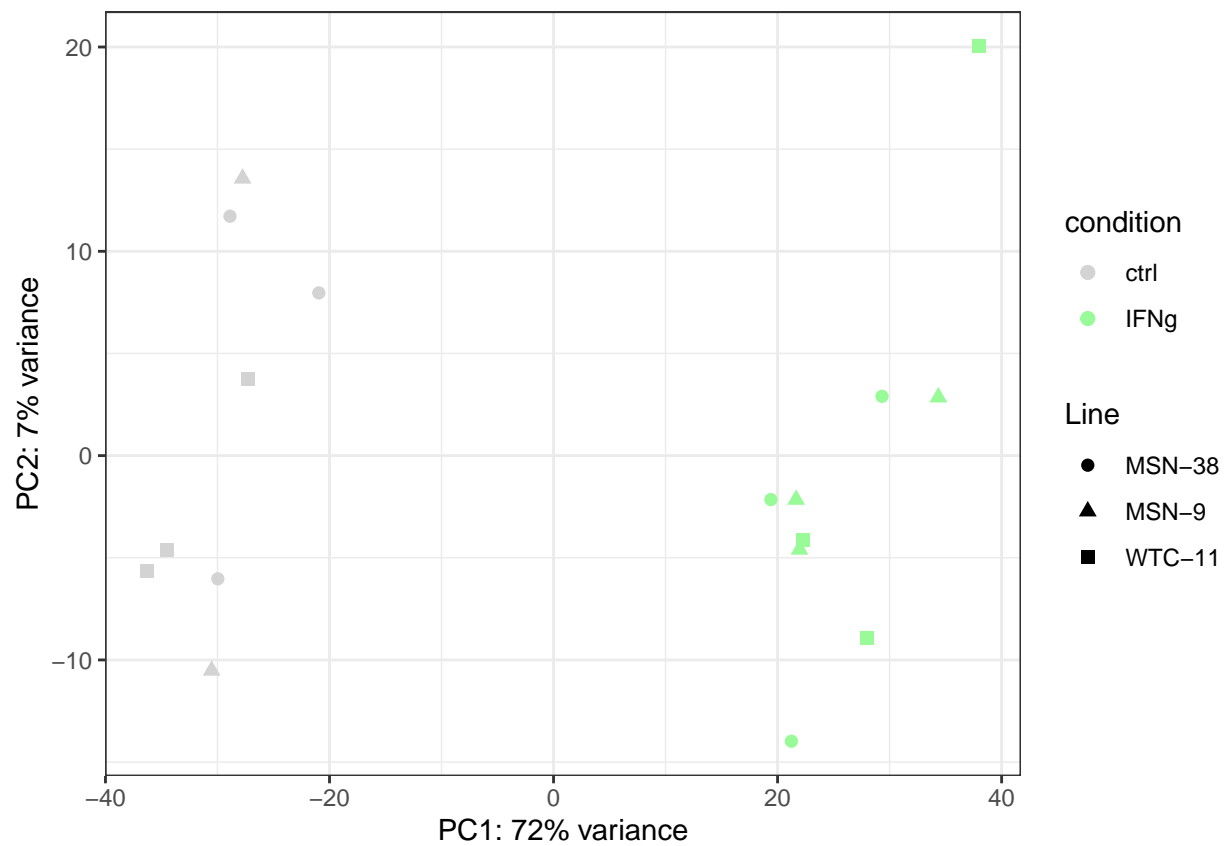
GO enrichment



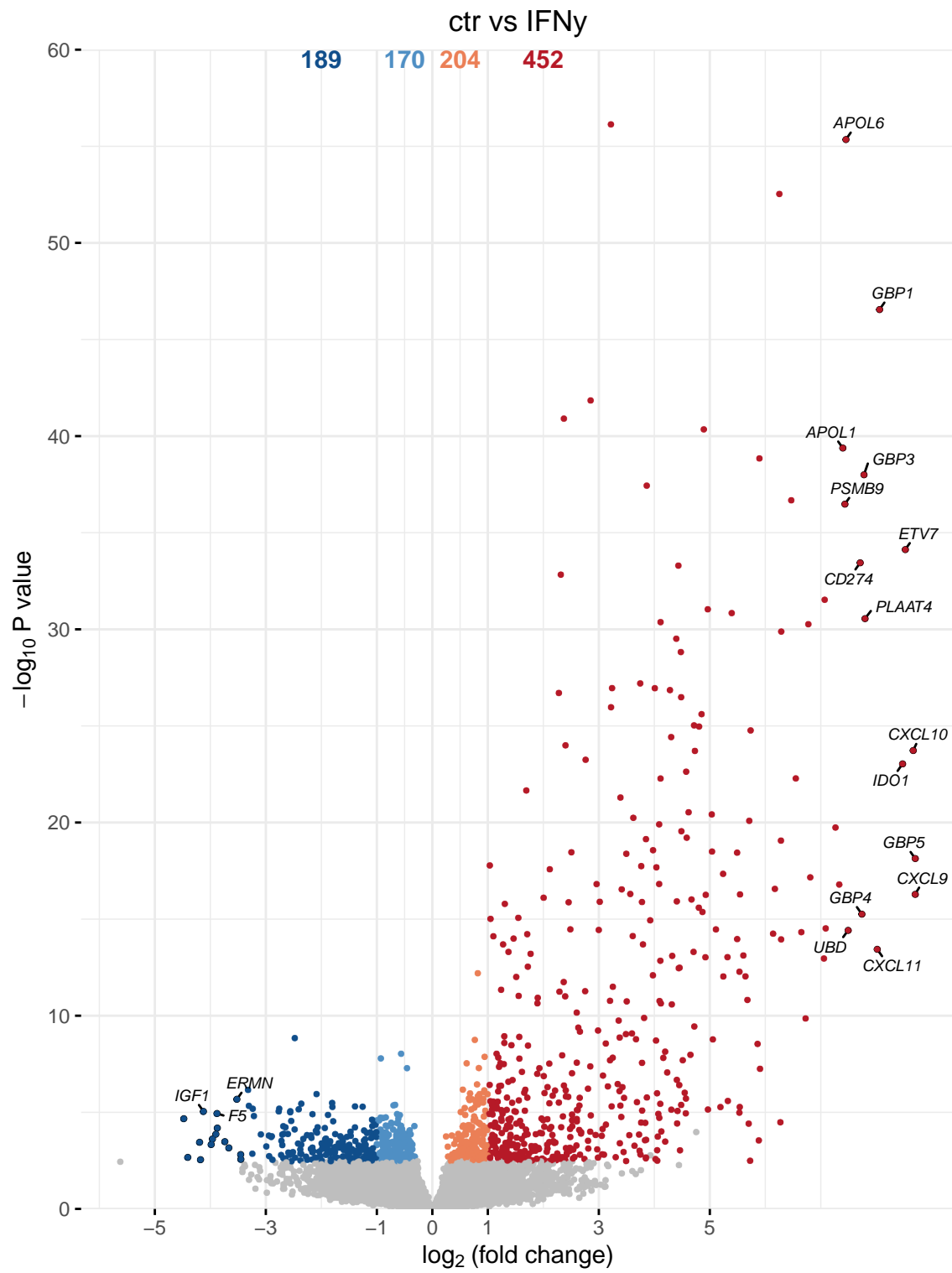


Stimulation (IFN γ) samples

PCA plots

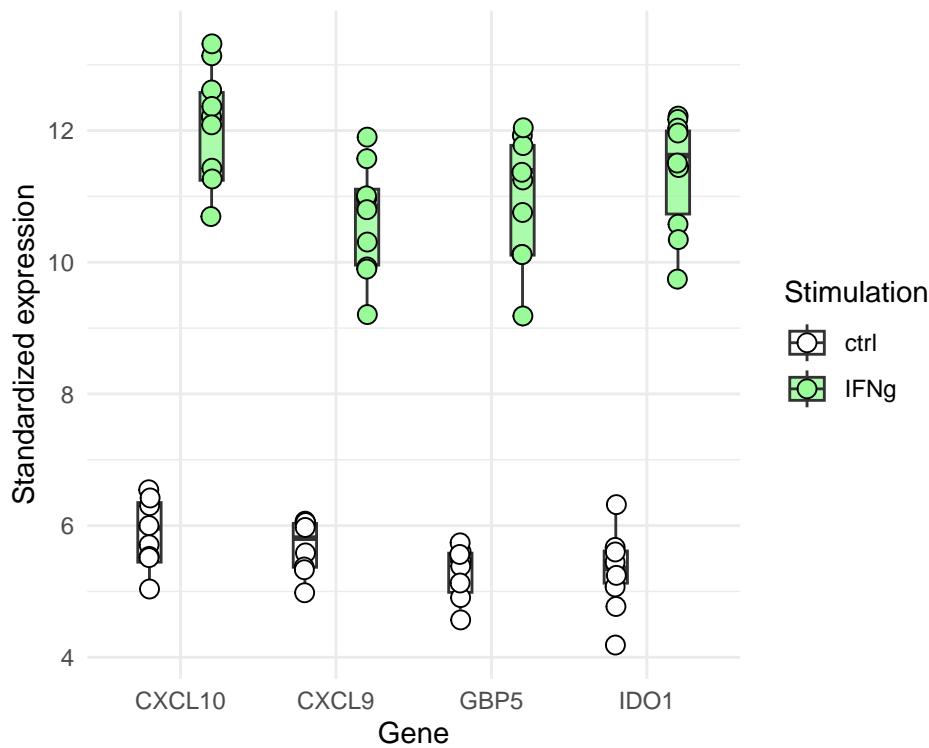
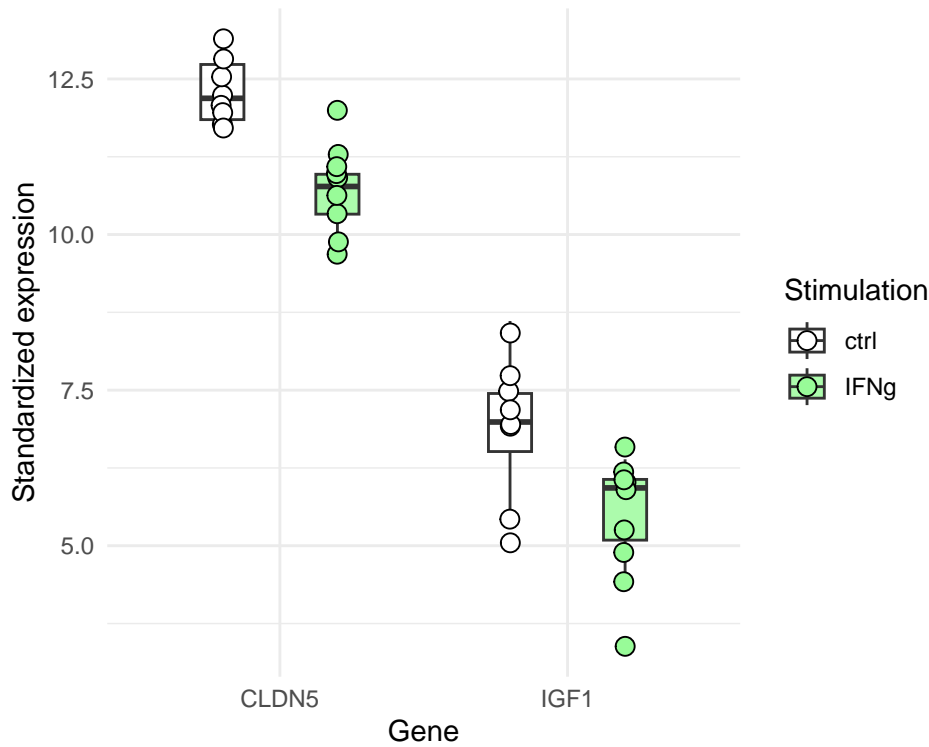


Volcano plot

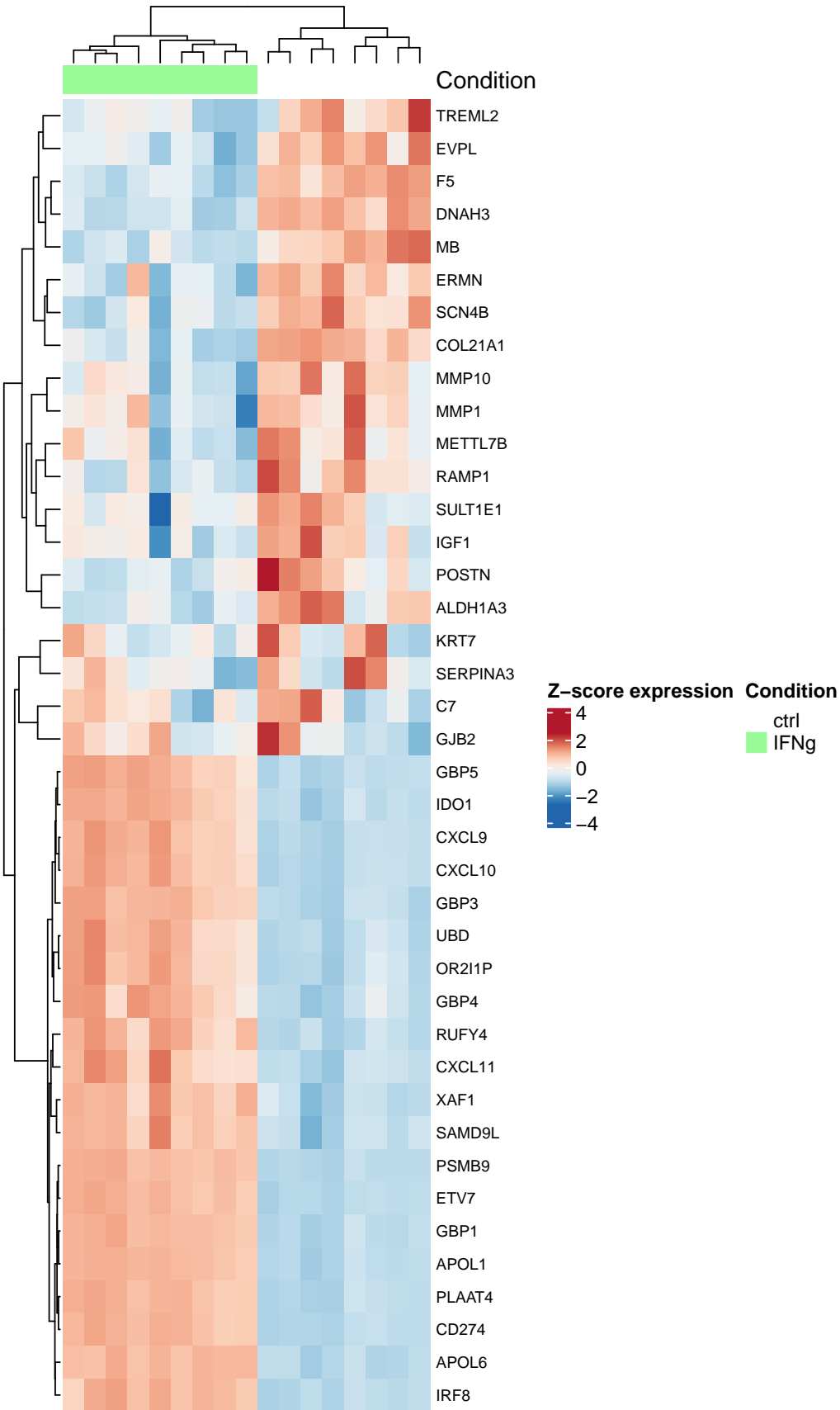


DEG table

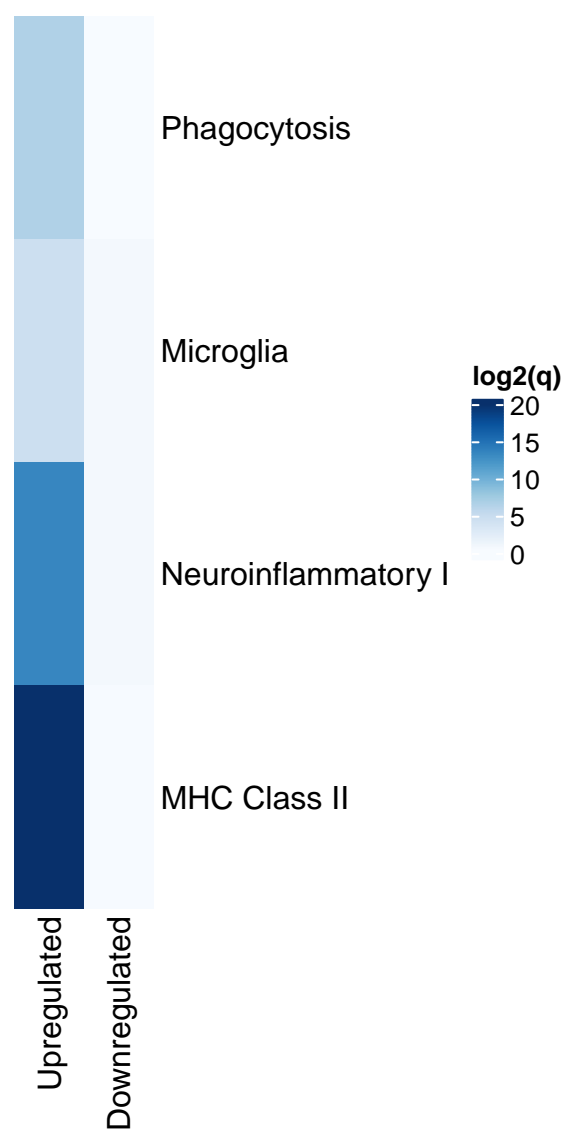
Boxplot genes of interest



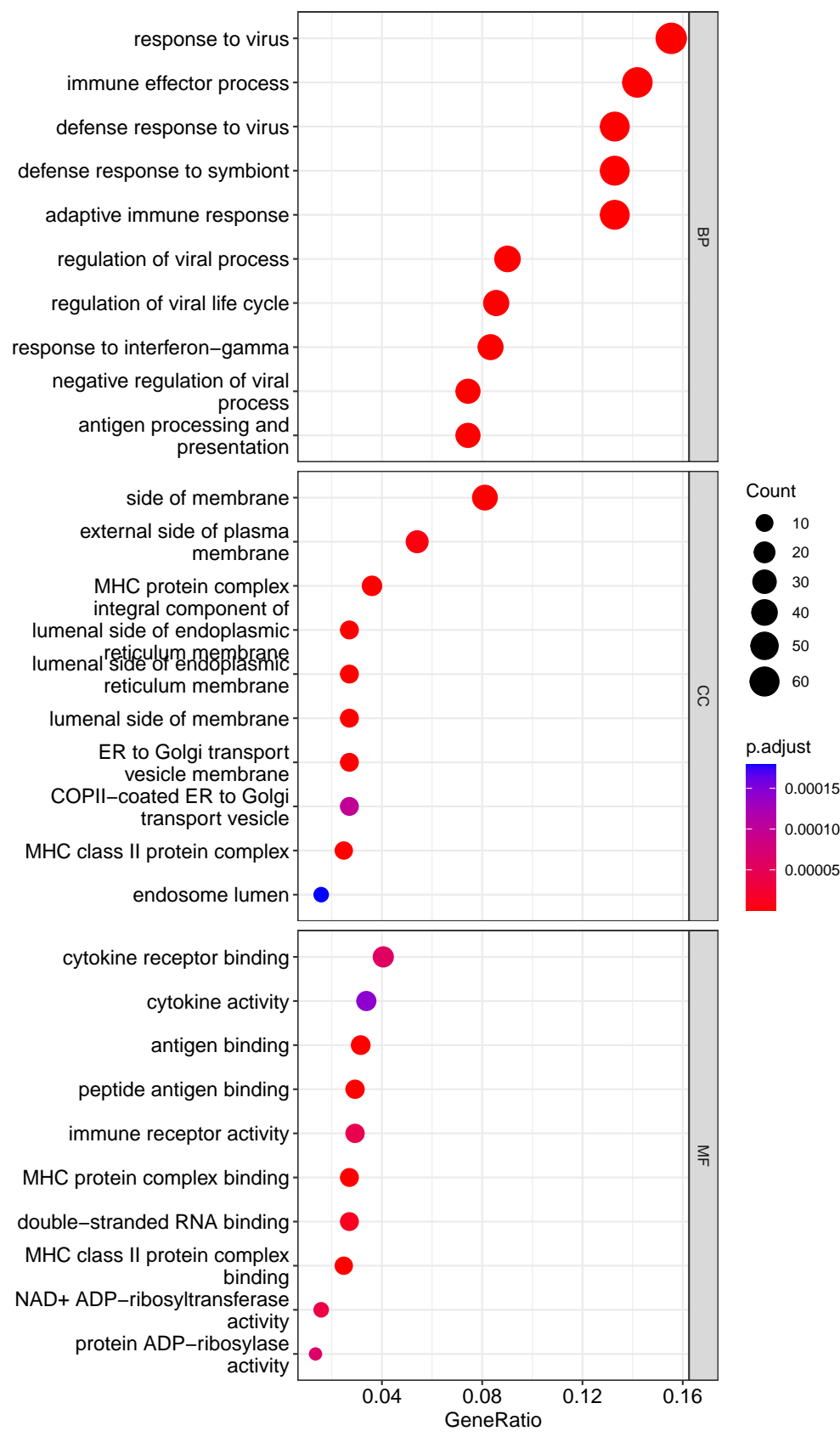
Top 40 DEGs heatmap

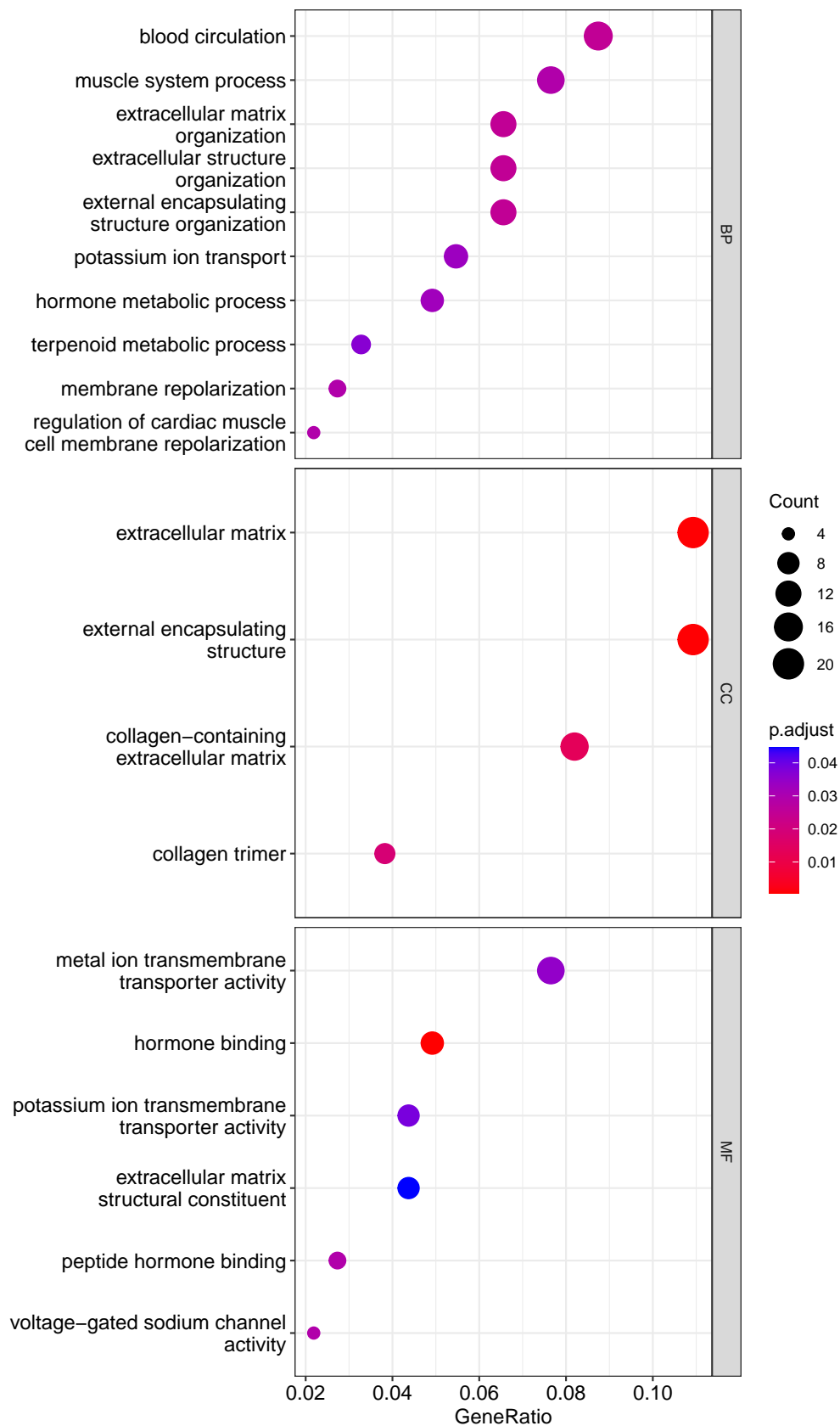


Enrichment heatmap (gene sets of interest)



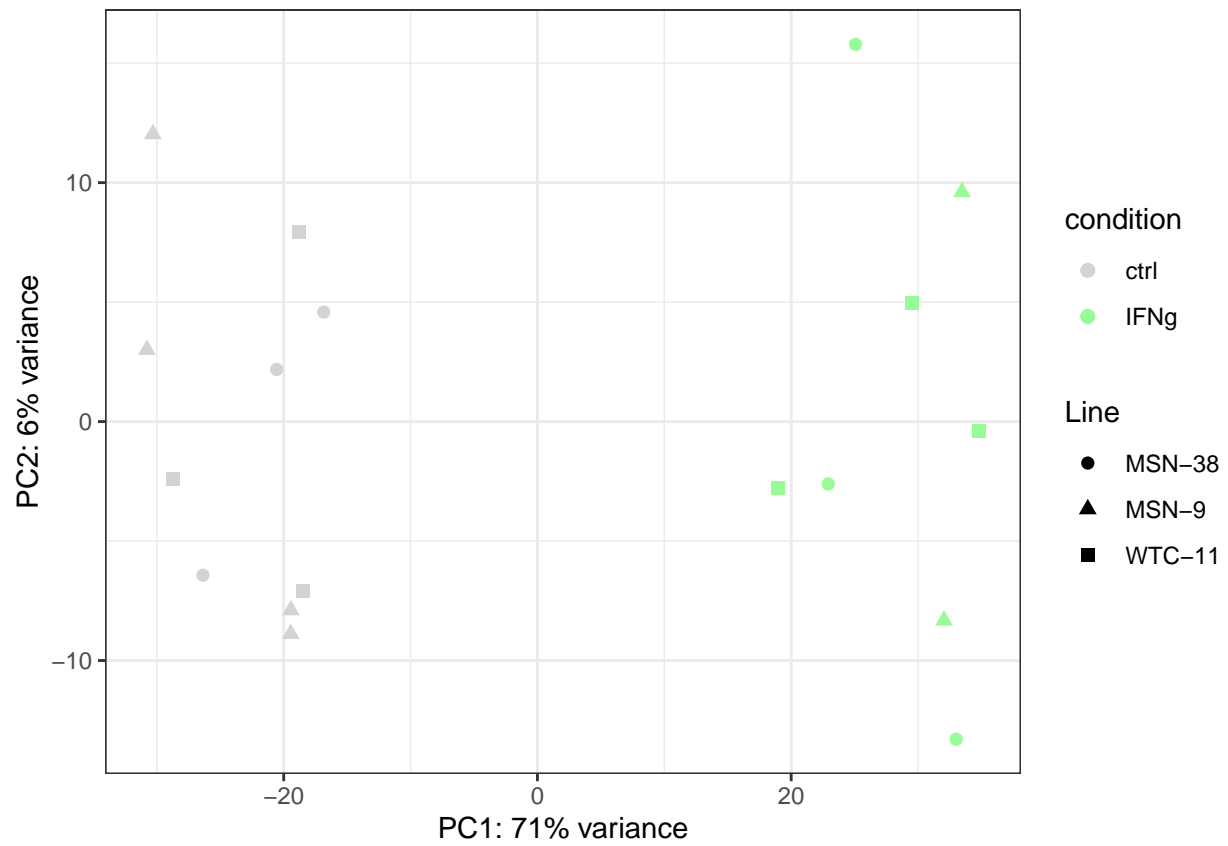
GO enrichment



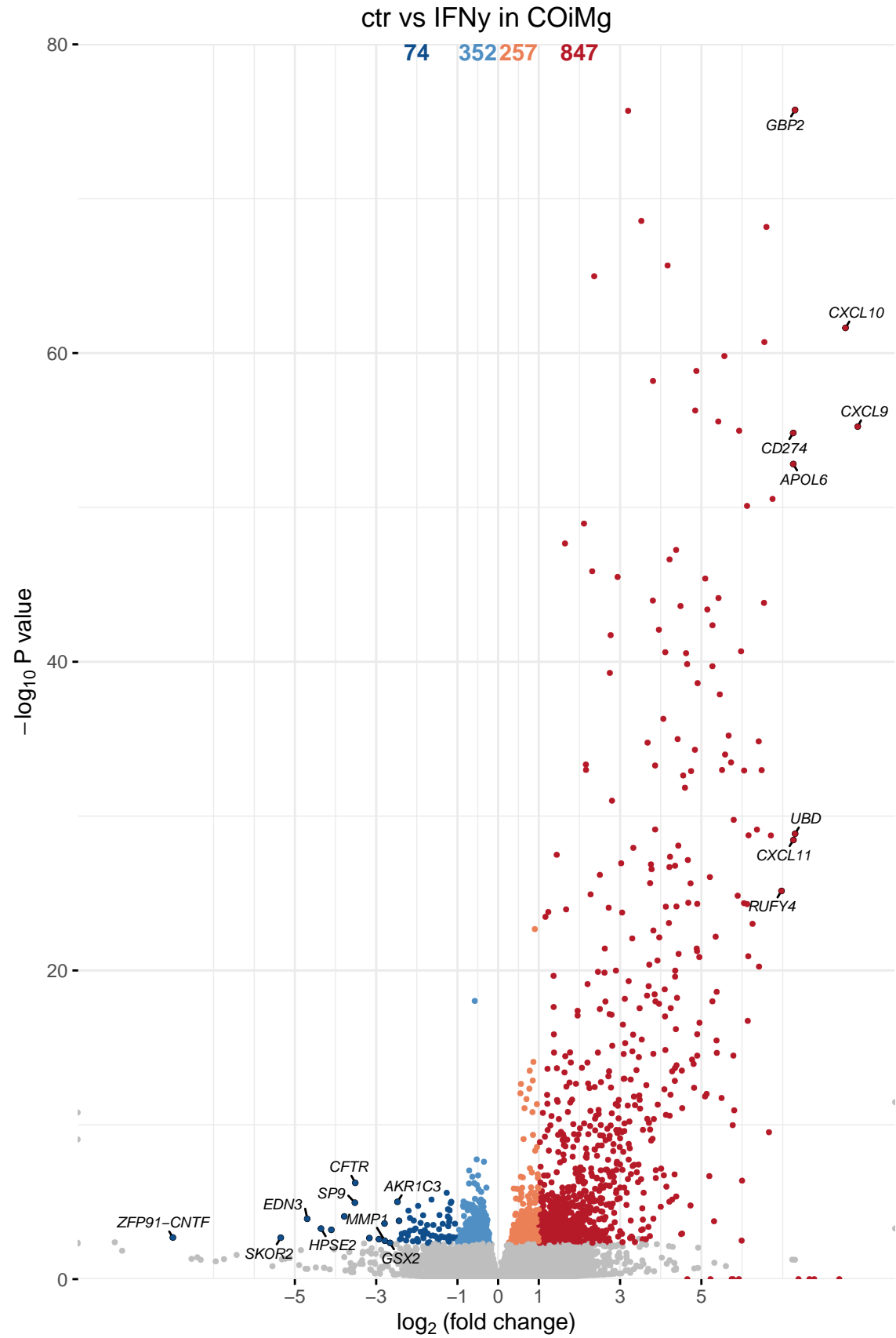


IFNy in COiMG

PCA plots

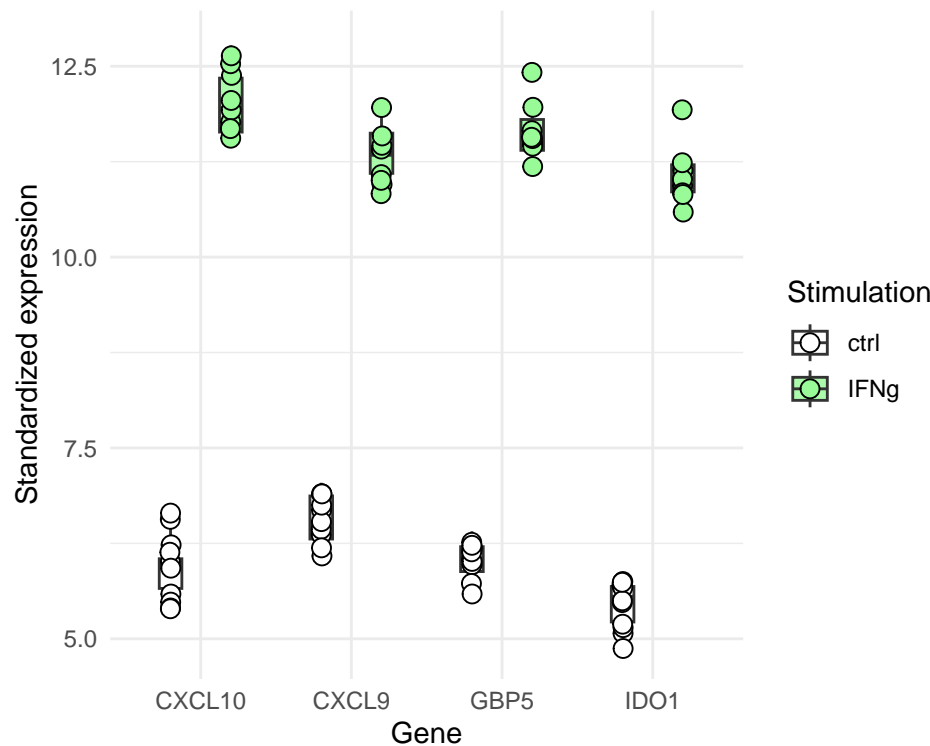
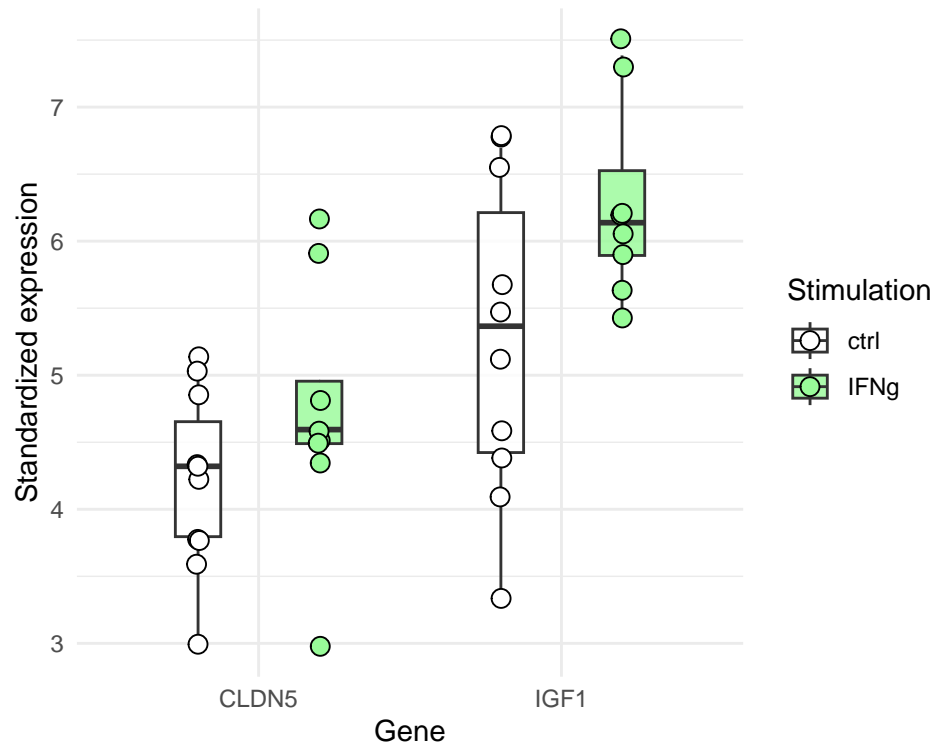


Volcano plot

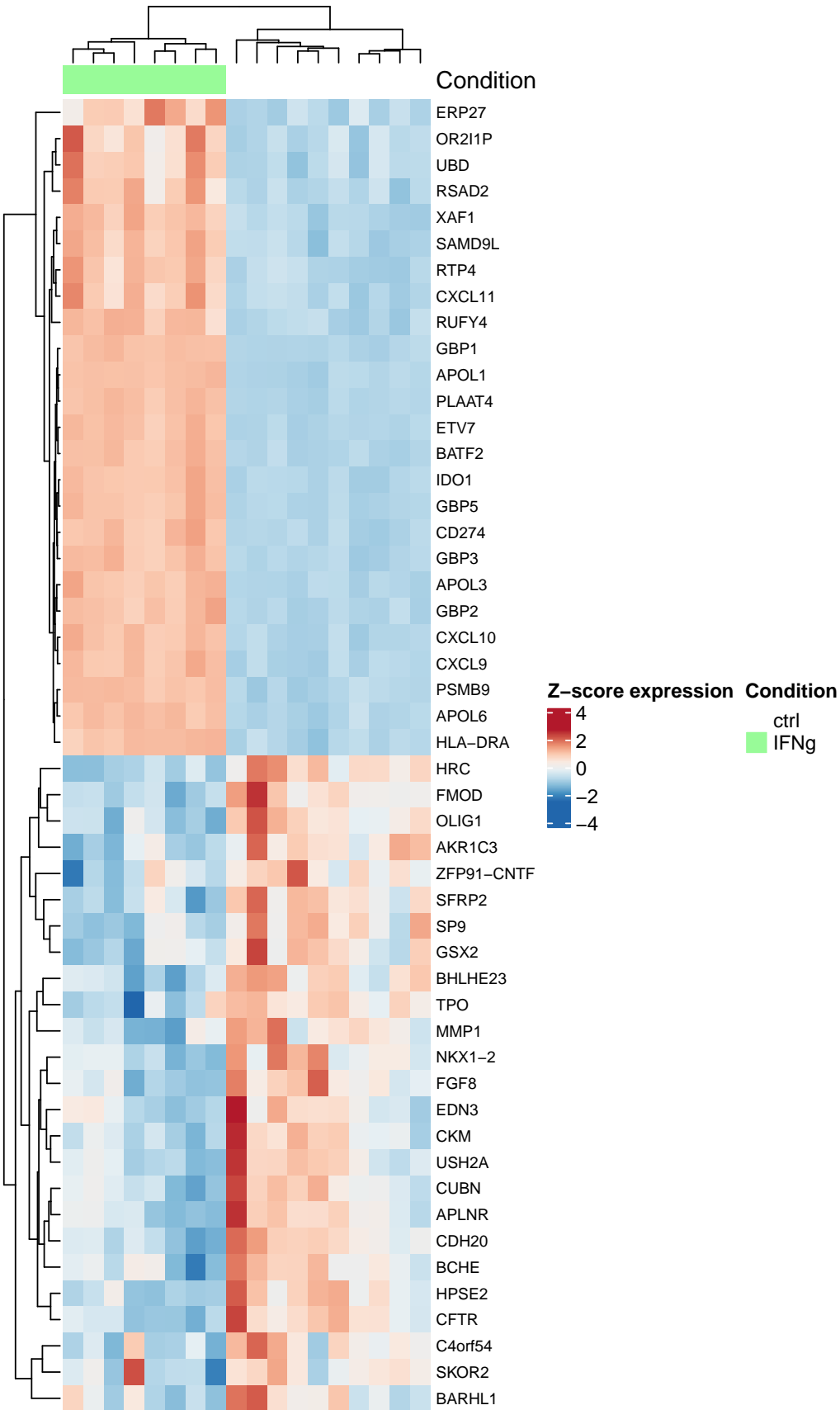


DEG table

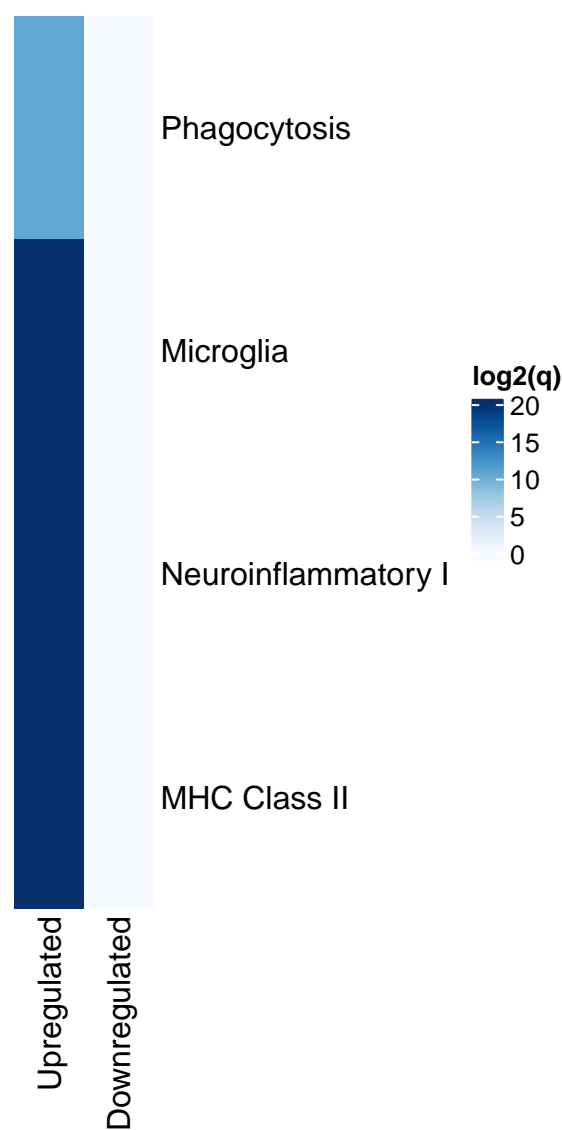
Boxplot genes of interest



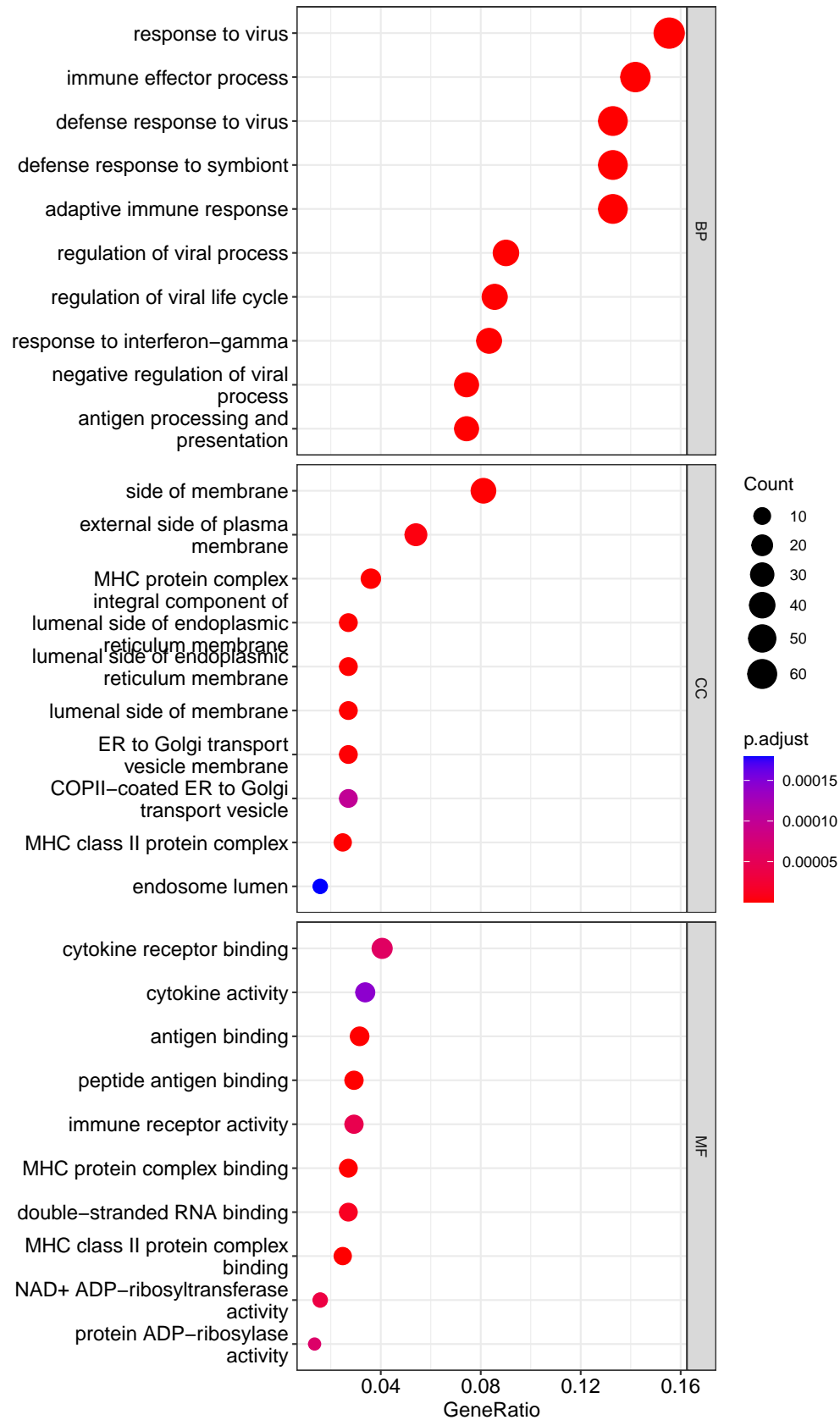
Top 40 DEGs heatmap

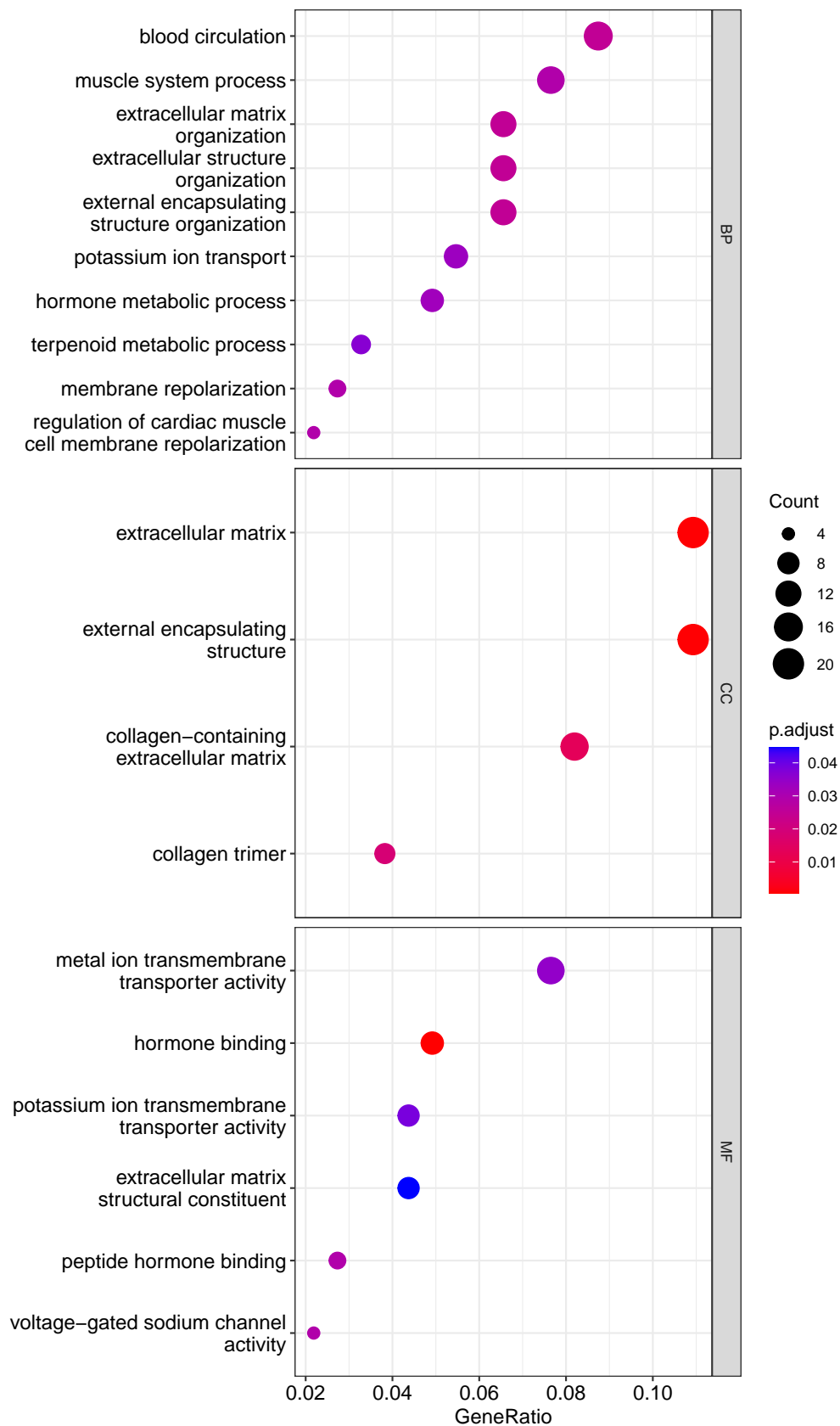


Enrichment heatmap (gene sets of interest)



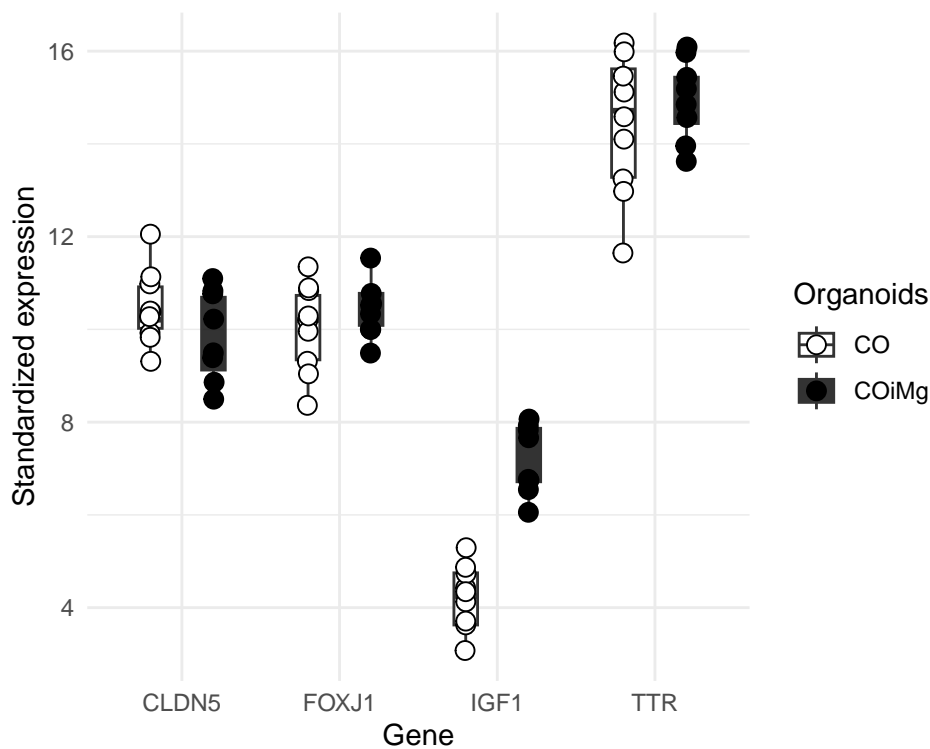
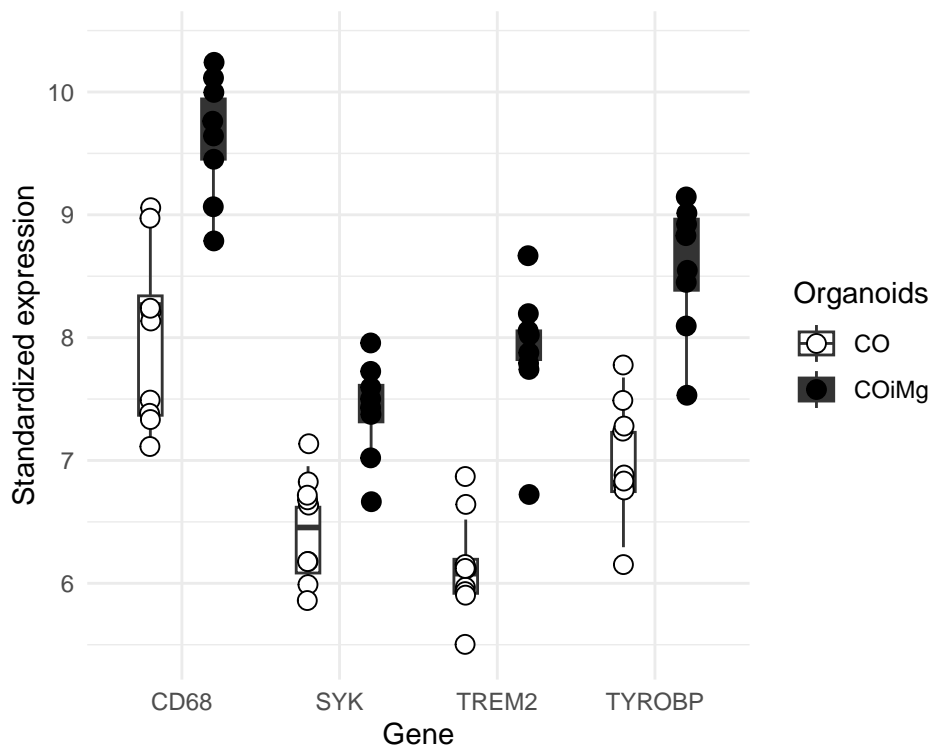
GO enrichment





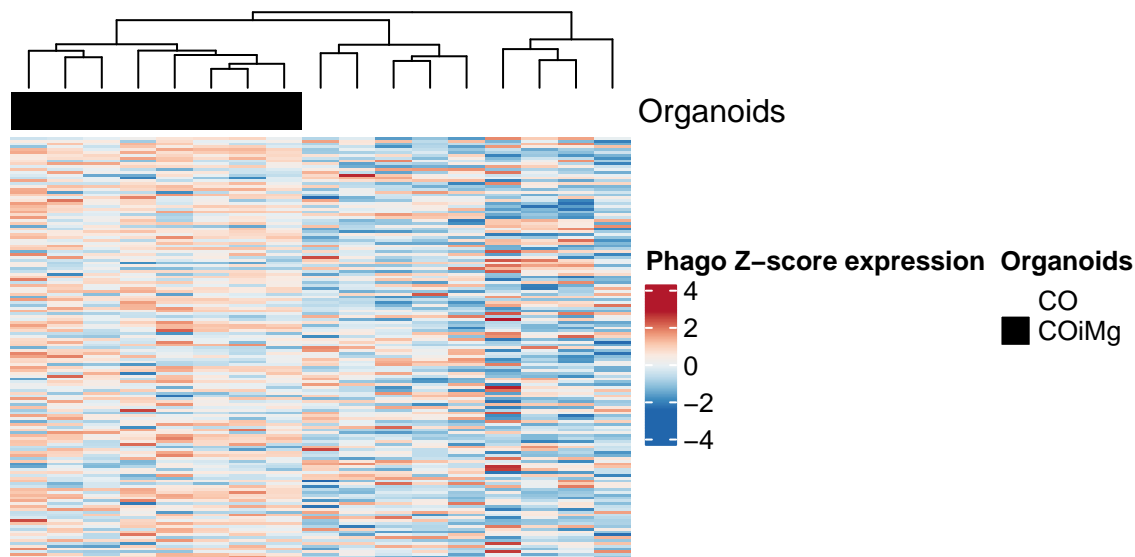
CO vs COiMg under IFN γ

Phagocytosis: CO vs COiMg under IFN γ

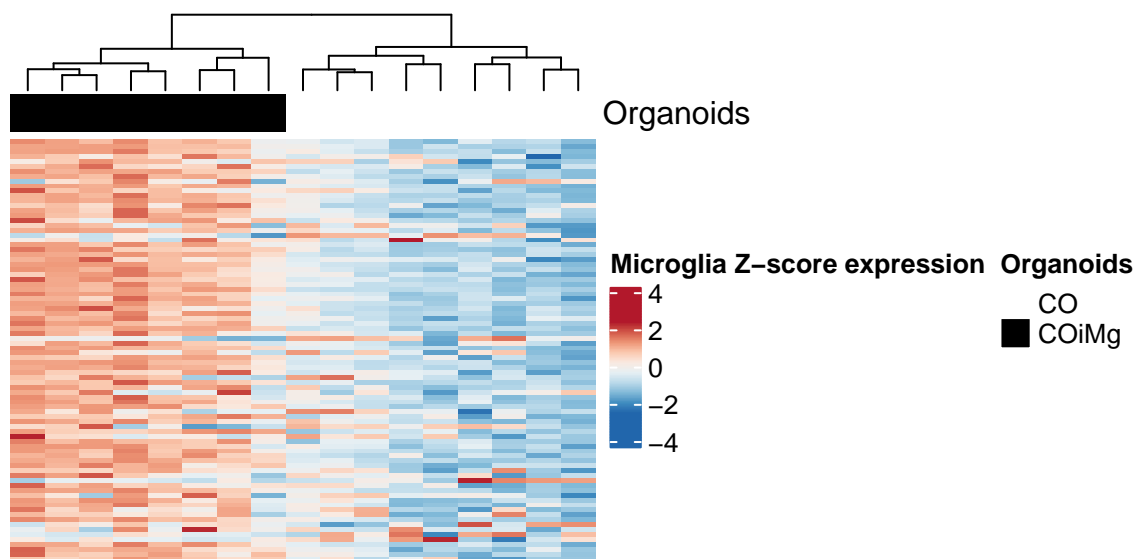


Gene set heatmap

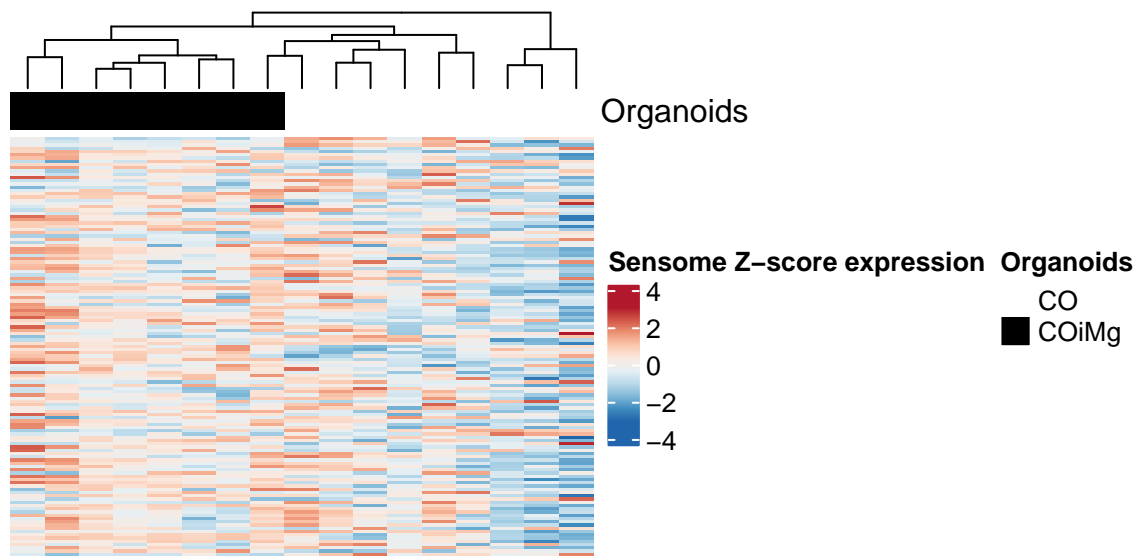
[1] "Phagocytic heatmap"



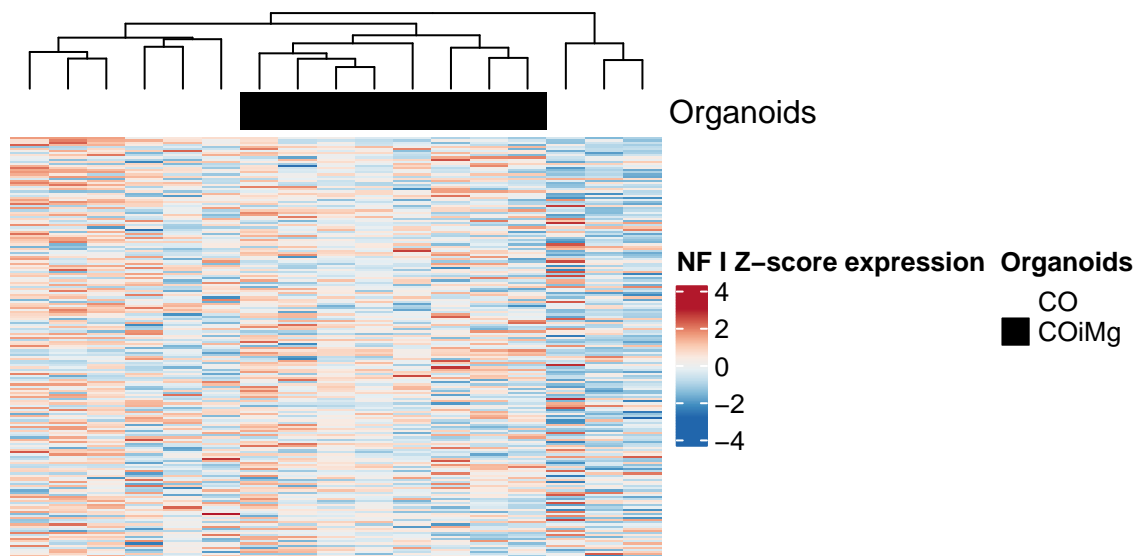
[1] "Microglia heatmap"



[1] "Sensome heatmap"



[1] "Neuroinflammatory I heatmap"



IFN γ CO vs COiMG

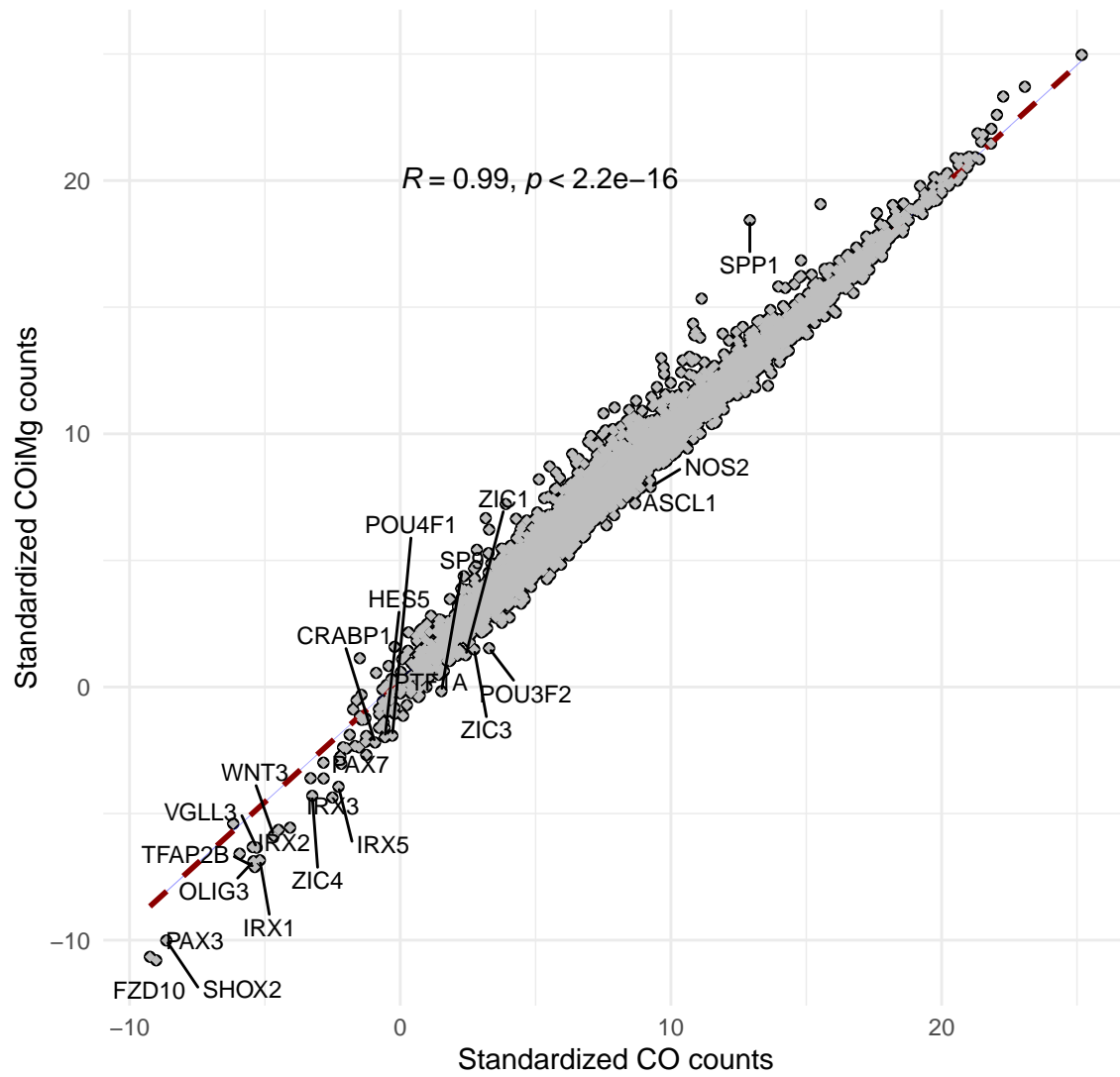
##		M13	M14	M15	M21	M27	M33	F9
##	M16	0.9888853	0.9750494	0.9854099	0.9860980	0.9844882	0.9665080	0.9772695
##	M17	0.9882932	0.9689689	0.9821487	0.9803589	0.9830655	0.9582293	0.9703453
##	M18	0.9853977	0.9796923	0.9773084	0.9801409	0.9848437	0.9628487	0.9773172
##	M24	0.9893057	0.9799679	0.9870001	0.9855227	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
```

```
##          0%          25%          50%          75%          100%
## -5.52300947 -0.16864063 0.01132637 0.16271150 1.86109744
```

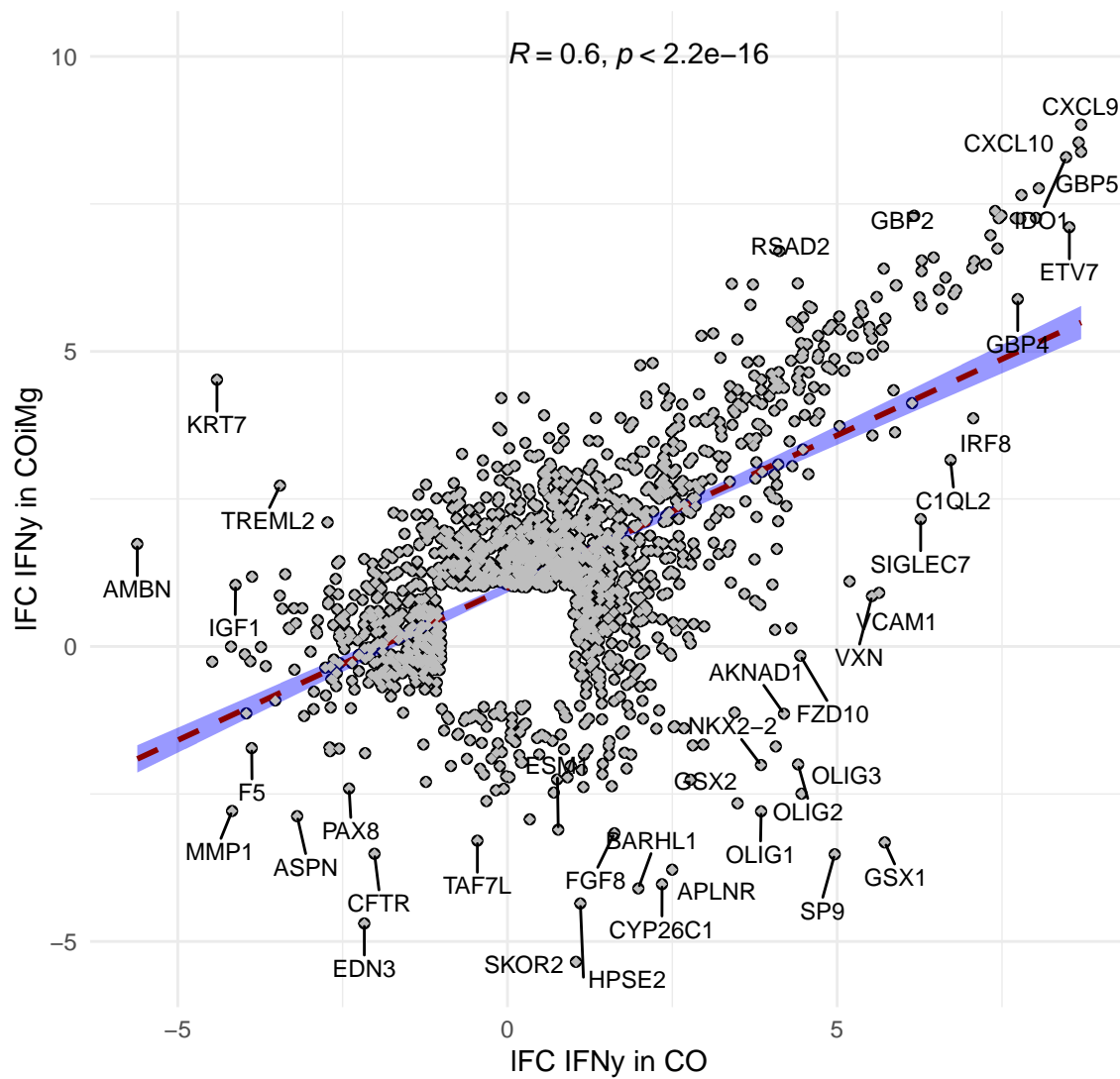
```
## [1] "DLX6"      "NOS2"      "TFAP2B"    "MGST1"     "PAX7"      "KITLG"     "ASIC4"
## [8] "NAALAD2"    "MOXD1"     "LRP2"      "SLC32A1"   "TOX3"      "WNT3"      "FZD10"
## [15] "SPP1"       "ONECUT2"   "PAX3"      "GAD2"      "ASCL1"     "ZFXH3"     "GREB1L"
## [22] "C1QL2"      "DLX1"      "SFRP2"     "TENM2"     "CDH8"      "POU4F1"    "ZIC1"
## [29] "ROBO3"      "WNT7A"     "ZIC3"      "H4C8"      "VCAM1"     "NDST3"     "CRABP1"
## [36] "PTF1A"      "GBX2"      "SHOX2"     "IRX1"      "IRX2"      "HSPA6"     "LRRN3"
## [43] "WFIKK2"     "ZIC4"      "PRIMA1"    "IRX5"      "OLIG3"     "IRX3"      "GSX2"
## [50] "FIGN"       "BGN"       "SOX1"      "POU3F2"    "PCDH18"    "GREB1"     "POU3F4"
## [57] "HES5"       "TOX"       "HSPA1B"    "HSPA1A"    "VGLL3"     "TRIM71"    "UBD"
## [64] "SP9"        "OR2I1P"    "H4C14"     "H2BC8"
```

Expression overlap CO vs COiMg under IFN γ stimulation

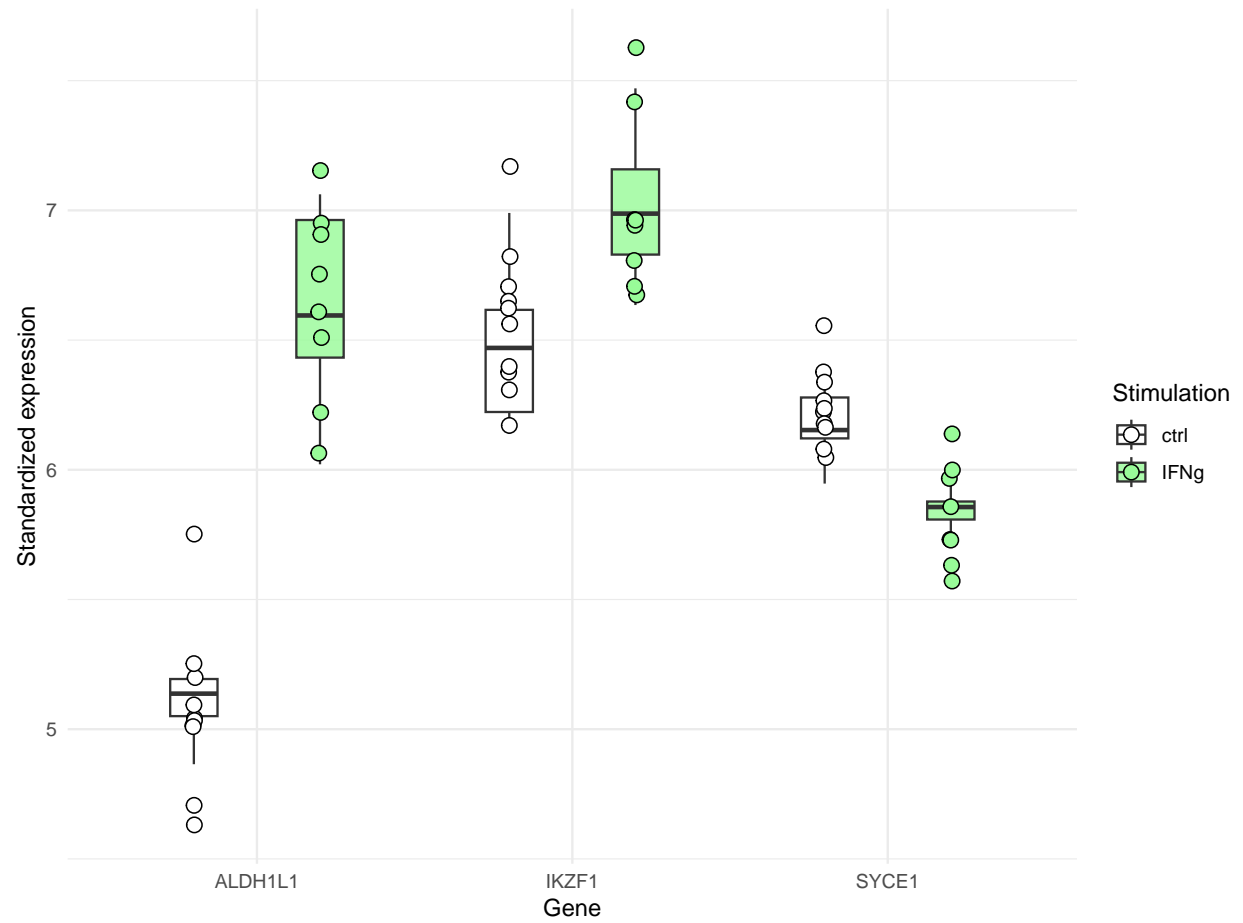


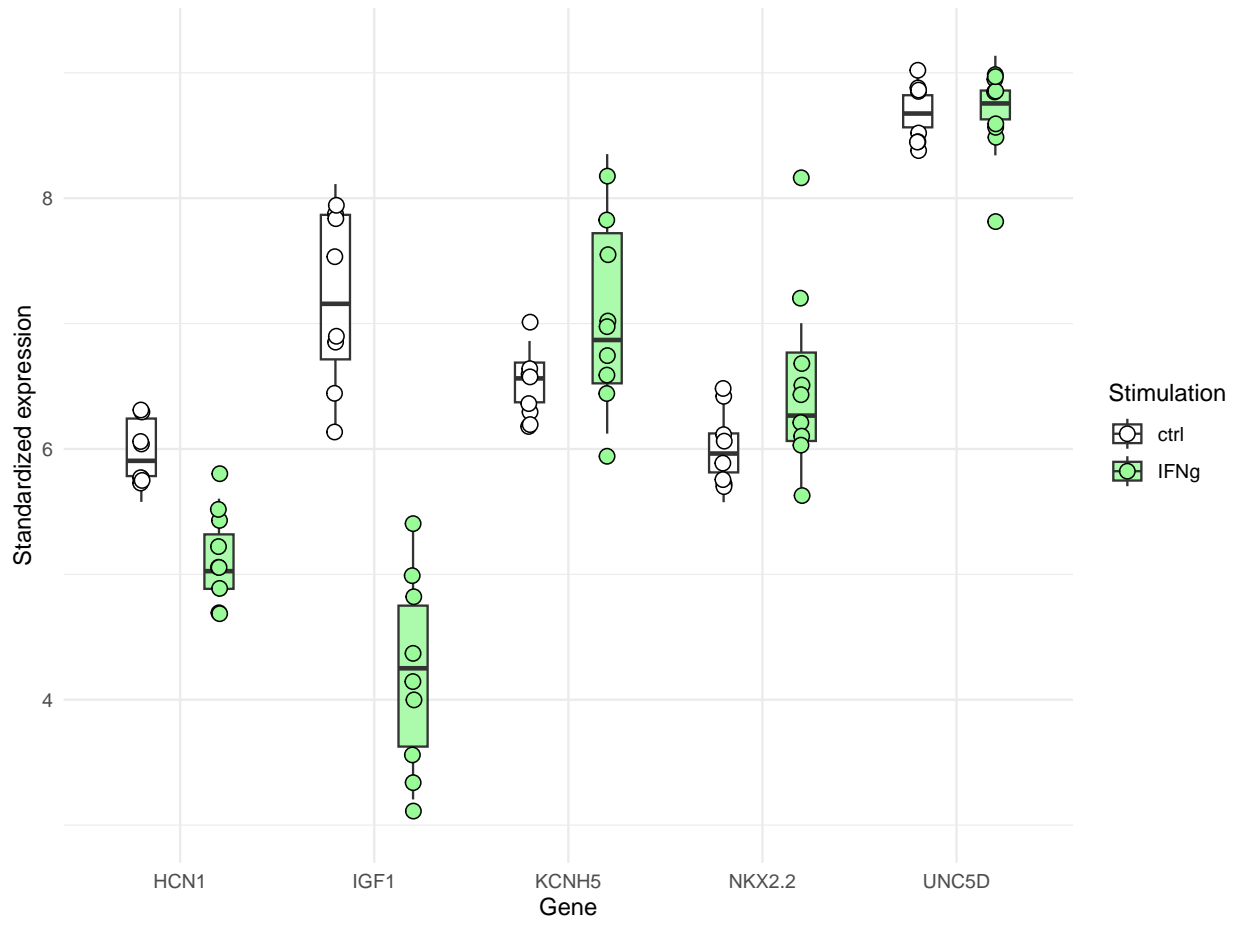
CO vs COiMg IFC correlation plot

IFC correlation in CO & COiMg under IFN γ stimulation



SFARI response to IFN γ





iMG vs ocMG

