Supplementary Figures

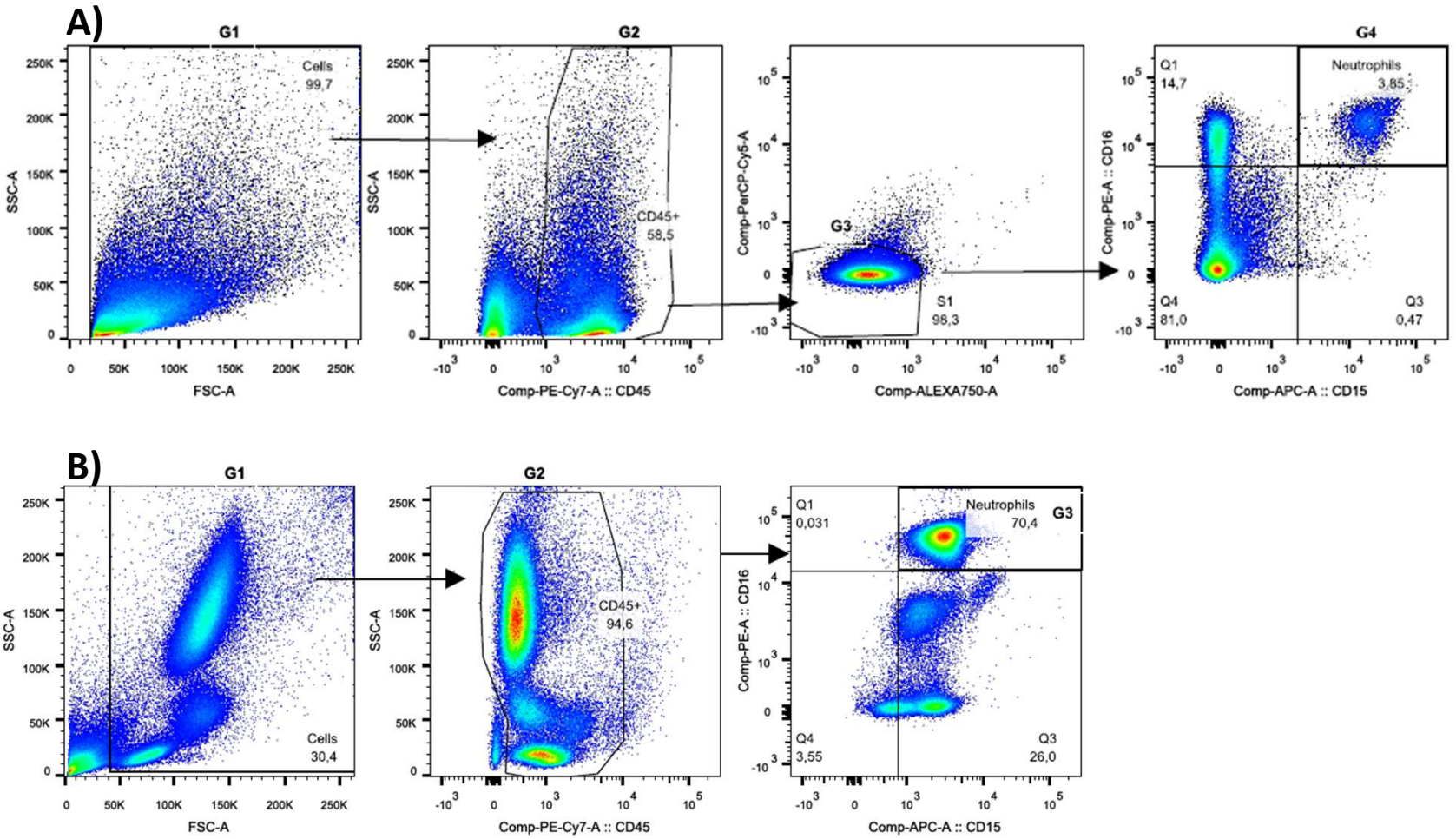

A)
G1
Cells
99,7
SSC-A
FSC-A
G2
CD45+
58,5
Comp-PE-Cy7-A :: CD45
Comp-PerCP-Cy5-A
G3
S1
98,3
Comp-ALEXA750-A
G4
Q1
14,7
Neutrophils
3,85
Q4
81,0
Q3
0,47
Comp-PE-A :: CD16
Comp-APC-A :: CD15
B)
G1
Cells
30,4
SSC-A
FSC-A
G2
CD45+
94,6
Comp-PE-Cy7-A :: CD45
Q1
0,031
Neutrophils
70,4
G3
Q4
3,55
Q3
26,0
Comp-PE-A :: CD16
Comp-APC-A :: CD15

Figure S1

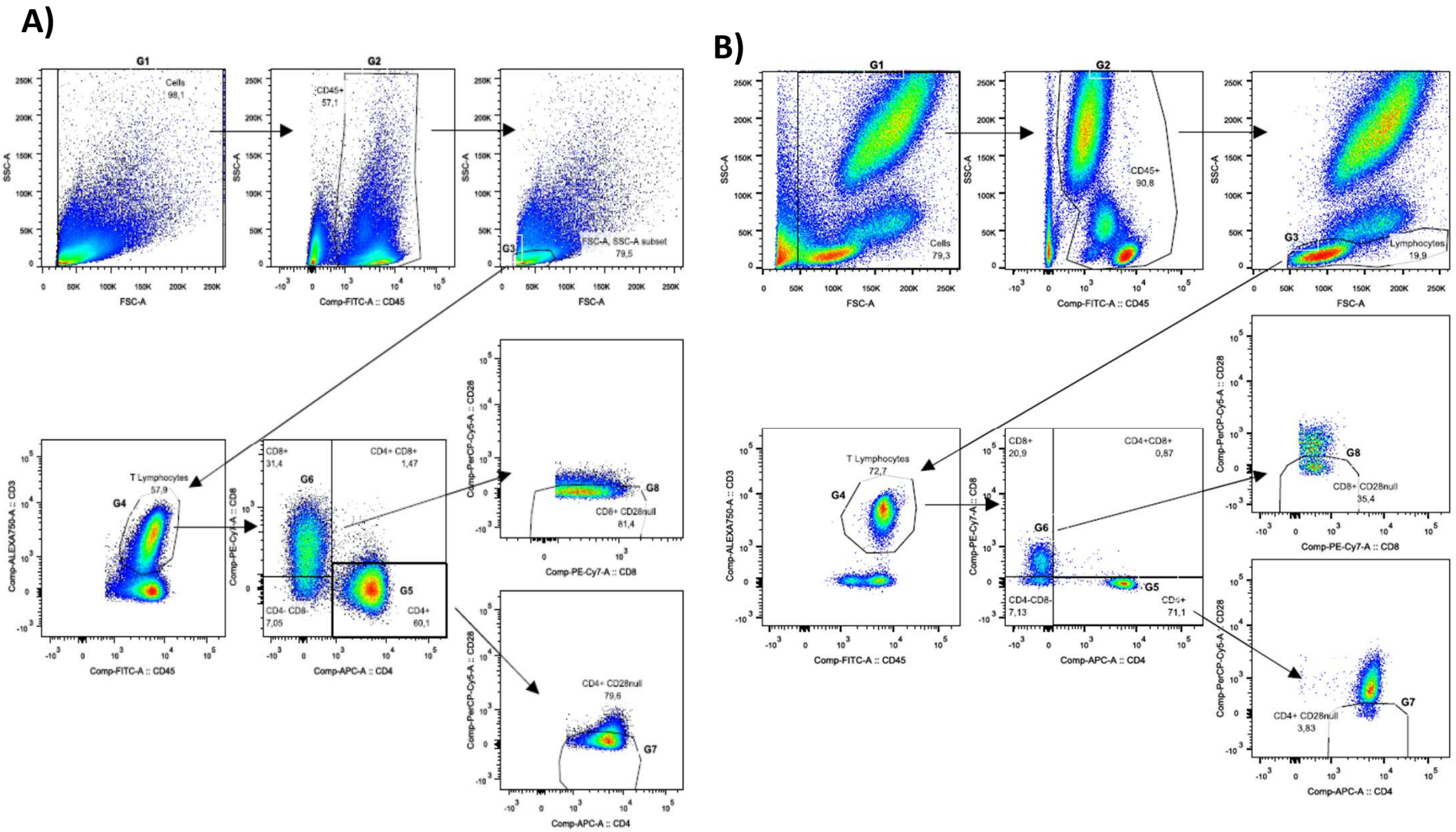

A)
G1
Cells
98,1
SSC-A
FSC-A
G2
CD45+
57,1
Comp-FITC-A :: CD45
G3
FSC-A, SSC-A subset
79,5
T Lymphocytes
57,9
G4
Comp-ALEXA750-A :: CD3
Comp-FITC-A :: CD45
CD8+
31,4
CD4+ CD8+
1,47
G6
G5
CD4- CD8-
7,05
CD4+
60,1
Comp-PE-Cy7-A :: CD8
Comp-APC-A :: CD4
Comp-PerCP-Cy5-A :: CD28
G8
CD8+ CD28null
81,4
CD4+ CD28null
79,6
G7
B)
G1
Cells
79,3
SSC-A
FSC-A
G2
CD45+
90,8
Comp-FITC-A :: CD45
G3
Lymphocytes
19,9
T Lymphocytes
72,7
G4
Comp-ALEXA750-A :: CD3
Comp-FITC-A :: CD45
CD8+
20,9
CD4+CD8+
0,87
G6
G5
CD4-CD8-
7,13
CD4+
71,1
Comp-PE-Cy7-A :: CD8
Comp-APC-A :: CD4
Comp-PerCP-Cy5-A :: CD28
G8
CD8+ CD28null
35,4
CD4+ CD28null
3,83
G7

Figure S2

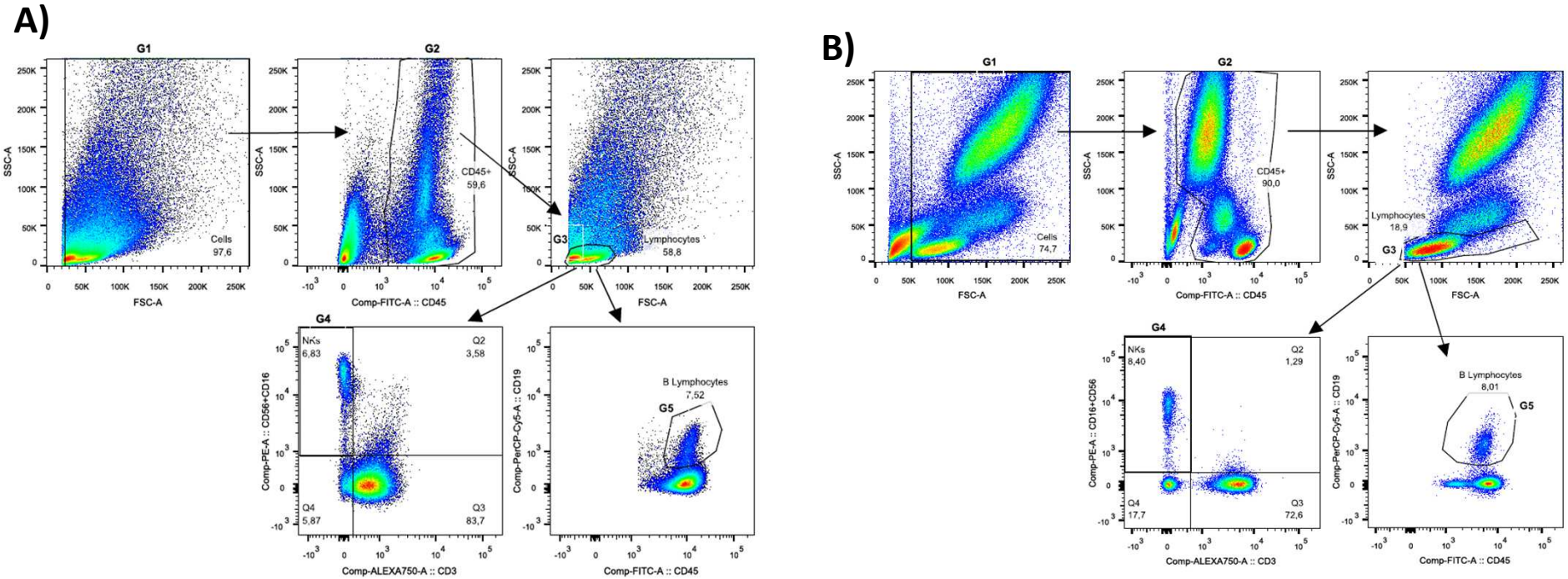

A)
G1
SSC-A
FSC-A
Cells
97,6
G2
CD45+
59,6
Comp-FITC-A :: CD45
G3
Lymphocytes
58,8
FSC-A
G4
NKs
6,83
Q2
3,58
Q4
5,87
Q3
83,7
Comp-PE-A :: CD56+CD16
Comp-ALEXA750-A :: CD3
B Lymphocytes
7,52
G5
Comp-PerCP-Cy5-A :: CD19
Comp-FITC-A :: CD45
B)
G1
Cells
74,7
G2
CD45+
90,0
Lymphocytes
18,9
G3
G4
NKs
8,40
Q2
1,29
Q4
17,7
Q3
72,6
Comp-PE-A :: CD16+CD56
B Lymphocytes
8,01
G5

Figure S3

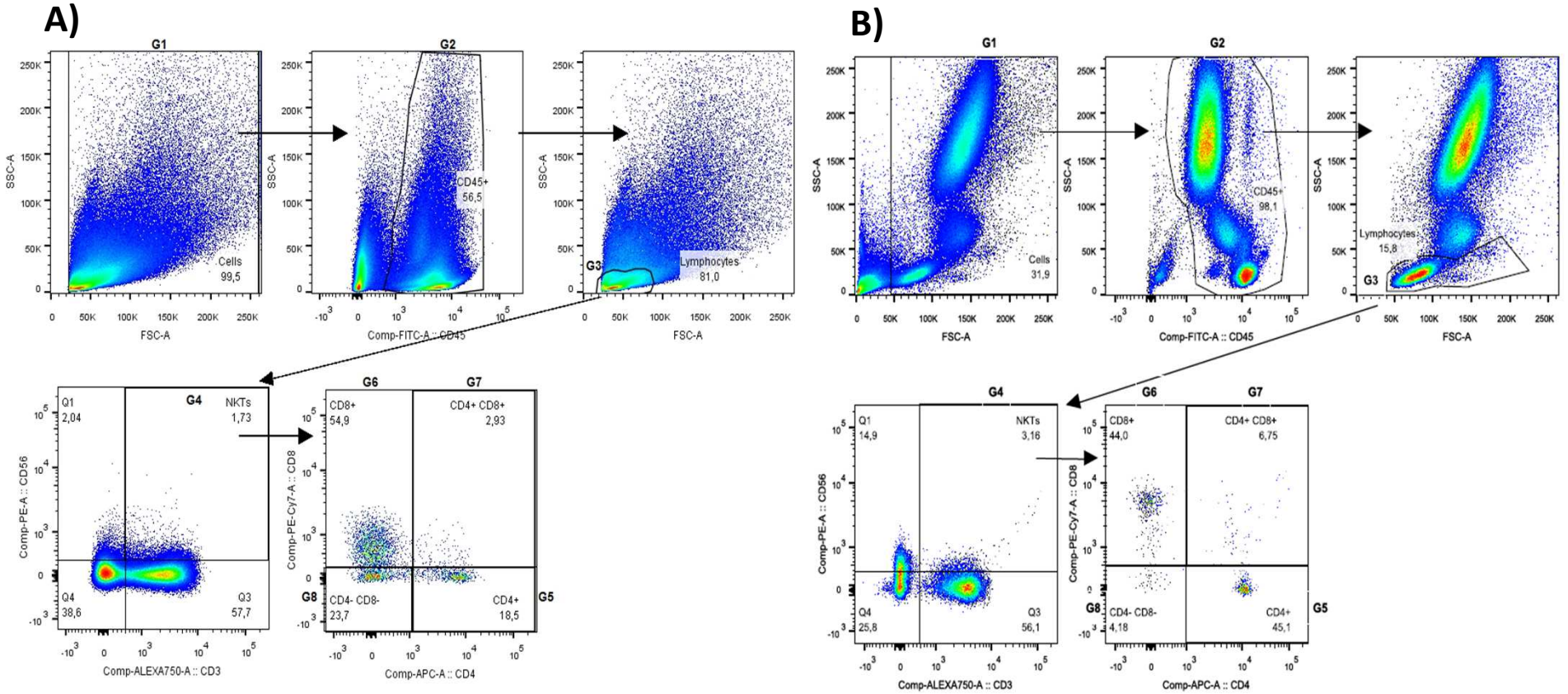

A)
G1
SSC-A
FSC-A
Cells
99,5
G2
CD45+
56,5
Comp-FITC-A :: CD45
G3
Lymphocytes
81,0
G4
NKTs
1,73
Q1
2,04
Q4
38,6
Q3
57,7
Comp-PE-A :: CD56
Comp-ALEXA750-A :: CD3
G6
CD8+
54,9
G7
CD4+ CD8+
2,93
G8
CD4- CD8-
23,7
G5
CD4+
18,5
Comp-PE-Cy7-A :: CD8
Comp-APC-A :: CD4
B)
G1
Cells
31,9
G2
CD45+
98,1
G3
Lymphocytes
15,8
G4
NKTs
3,16
Q1
14,9
Q4
25,8
Q3
56,1
G6
CD8+
44,0
G7
CD4+ CD8+
6,75
G8
CD4- CD8-
4,18
G5
CD4+
45,1

Figure S4

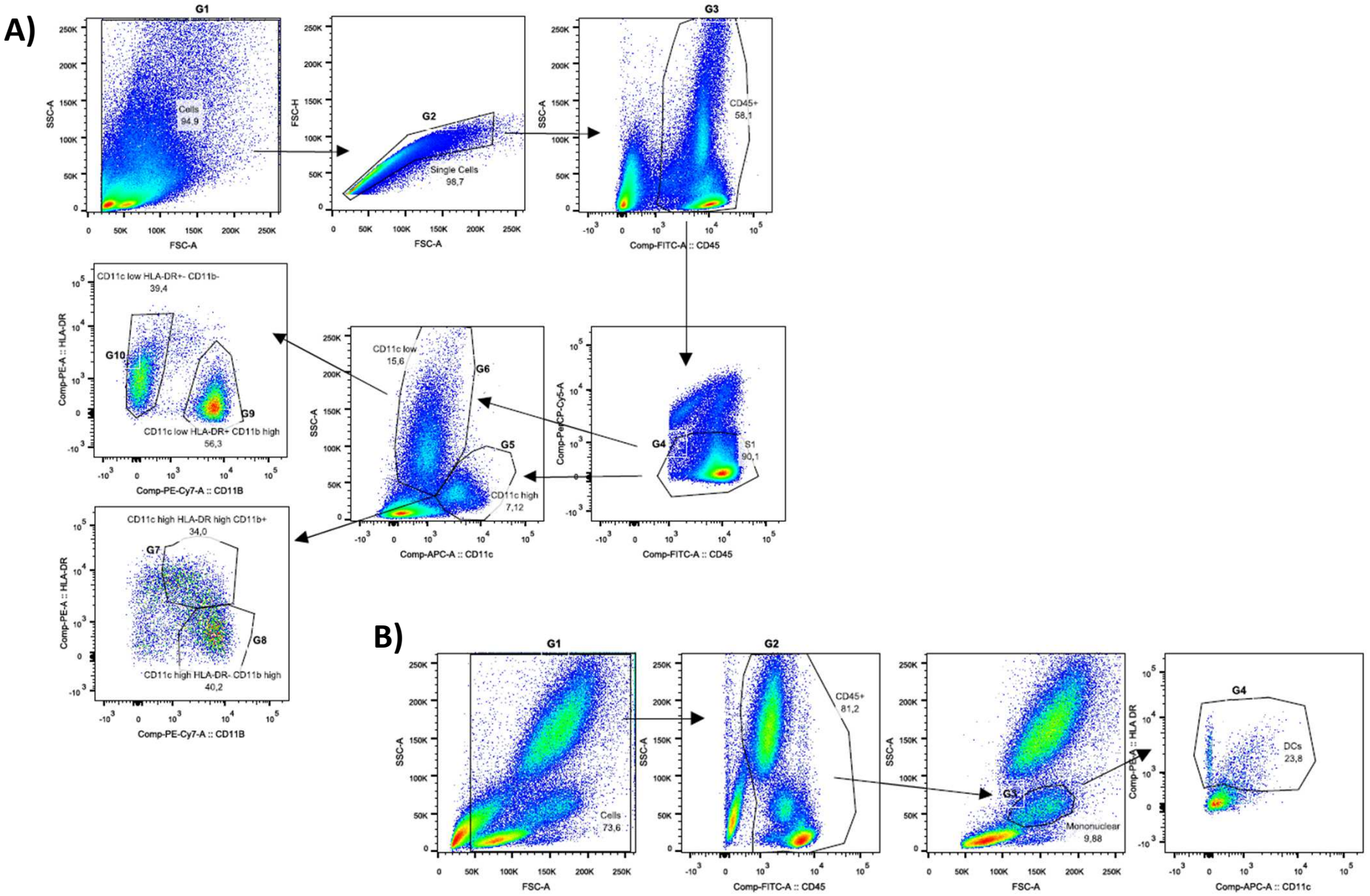

A)
G1
Cells
94,9
SSC-A
FSC-A
G2
Single Cells
98,7
FSC-H
FSC-A
G3
CD45+
58,1
SSC-A
Comp-FITC-A :: CD45
G4
S1
90,1
Comp-PeCP-Cy5-A
Comp-FITC-A :: CD45
CD11c low
15,6
G6
G5
CD11c high
7,12
SSC-A
Comp-APC-A :: CD11c
CD11c low HLA-DR+- CD11b-
39,4
G10
G9
CD11c low HLA-DR+ CD11b high
56,3
Comp-PE-A :: HLA-DR
Comp-PE-Cy7-A :: CD11B
CD11c high HLA-DR high CD11b+
34,0
G7
G8
CD11c high HLA-DR- CD11b high
40,2
Comp-PE-A :: HLA-DR
Comp-PE-Cy7-A :: CD11B
B)
G1
Cells
73,6
SSC-A
FSC-A
G2
CD45+
81,2
SSC-A
Comp-FITC-A :: CD45
G3
Mononuclear
9,88
SSC-A
FSC-A
G4
DCs
23,8
Comp-PE-A :: HLA DR
Comp-APC-A :: CD11c

Figure S5

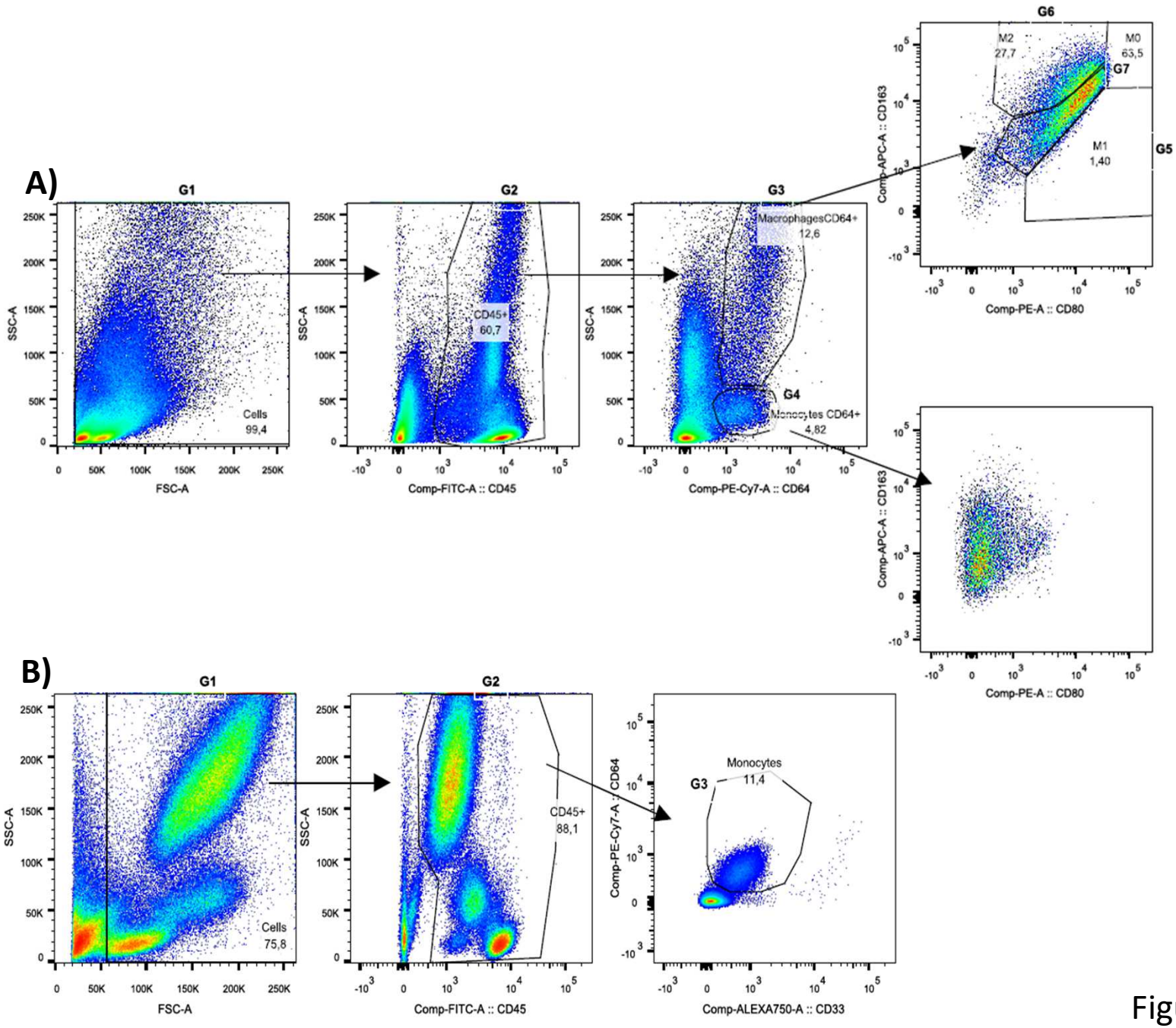

A)
G1
SSC-A
FSC-A
Cells
99,4
G2
CD45+
60,7
Comp-FITC-A :: CD45
G3
MacrophagesCD64+
12,6
G4
Monocytes CD64+
4,82
Comp-PE-Cy7-A :: CD64
G6
M2
27,7
M0
63,5
G7
M1
1,40
G5
Comp-APC-A :: CD163
Comp-PE-A :: CD80
B)
G1
Cells
75,8
G2
CD45+
88,1
G3
Monocytes
11,4
Comp-PE-Cy7-A :: CD64
Comp-ALEXA750-A :: CD33

Figure S6

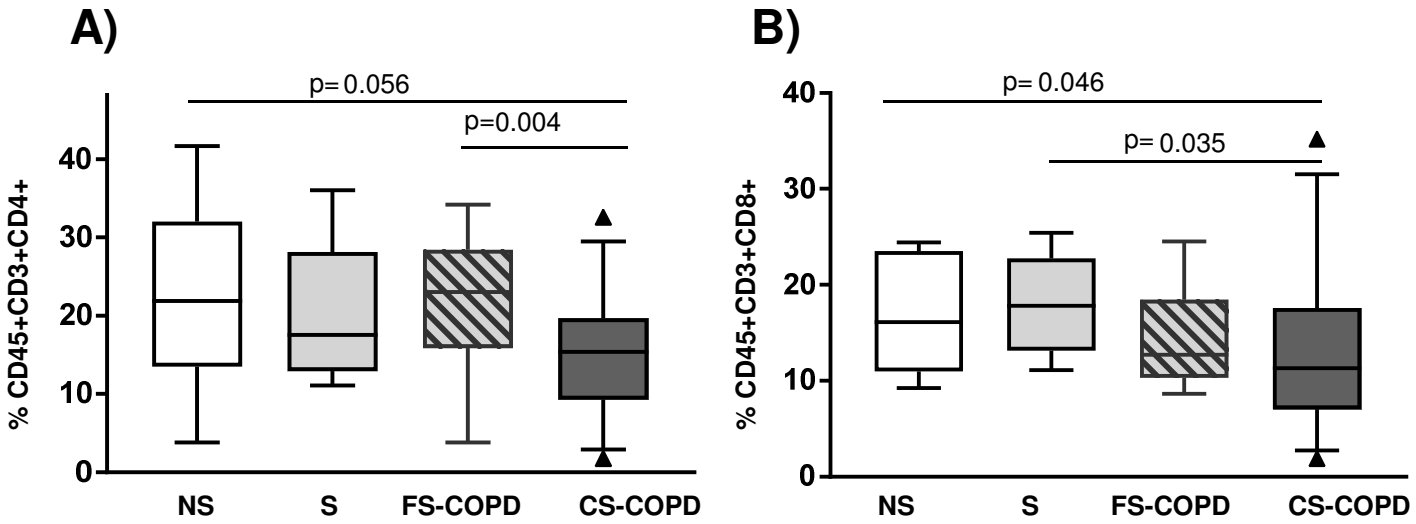

A)
p= 0.056
p=0.004
% CD45+CD3+CD4+
40
30
20
10
0
NS
S
FS-COPD
CS-COPD
B)
p= 0.046
p= 0.035
% CD45+CD3+CD8+
40
30
20
10
0
NS
S
FS-COPD
CS-COPD

Figure S7

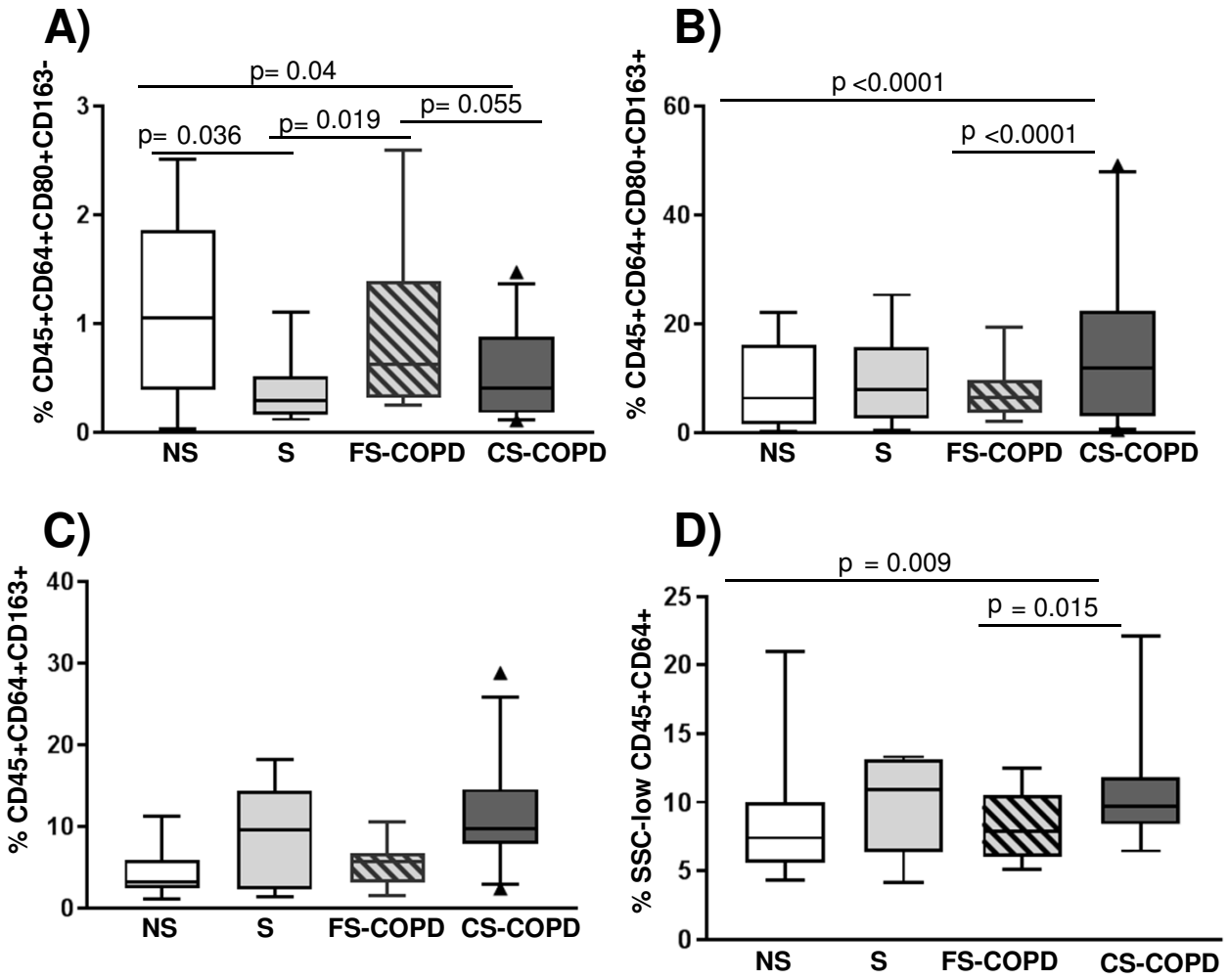

A)
% CD45+CD64+CD80+CD163-
p= 0.04
p= 0.036
p= 0.019
p= 0.055
NS
S
FS-COPD
CS-COPD
B)
% CD45+CD64+CD80+CD163+
p <0.0001
p <0.0001
C)
% CD45+CD64+CD163+
D)
% SSC-low CD45+CD64+
p = 0.009
p = 0.015

Figure S8

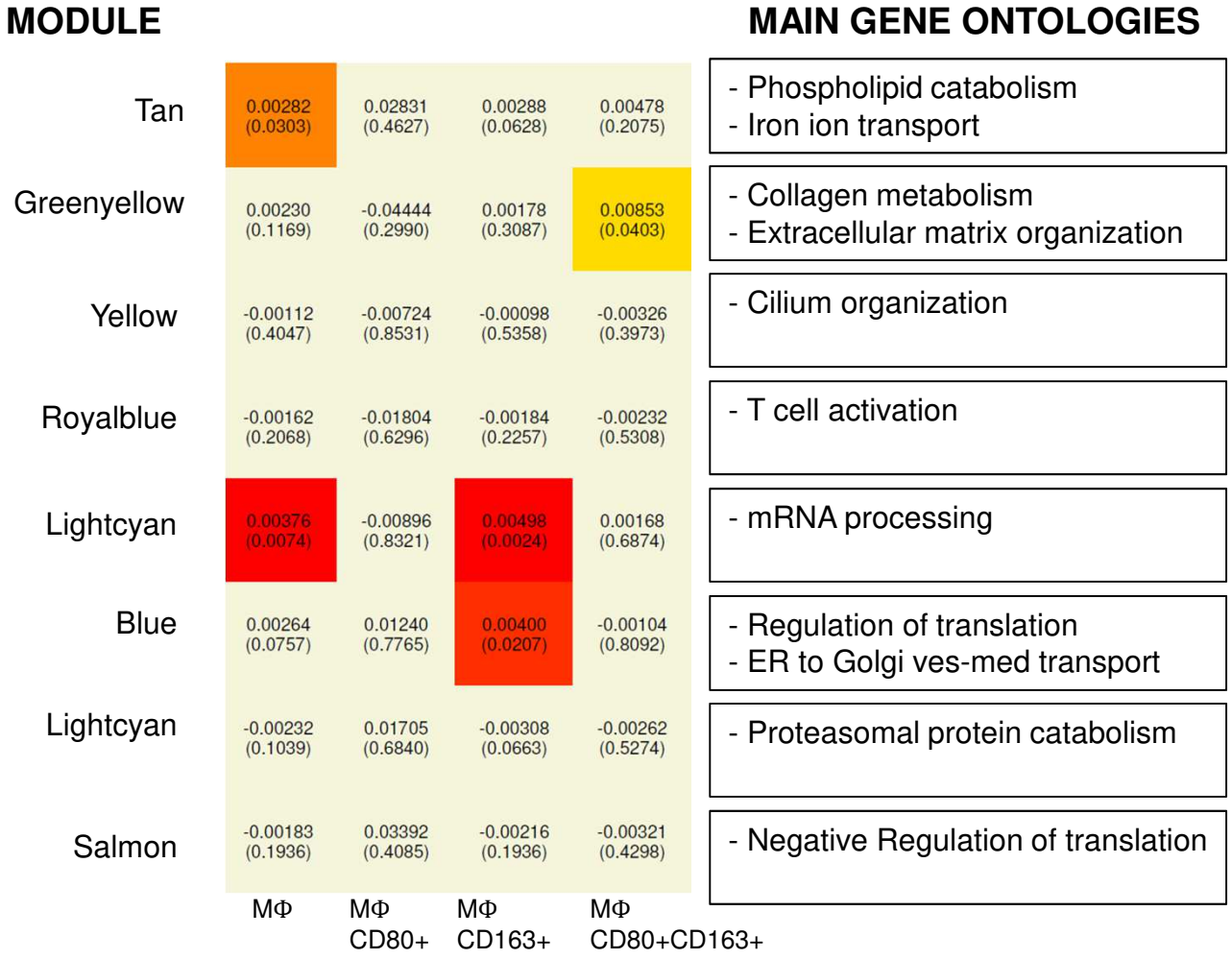

MODULE
MAIN GENE ONTOLOGIES
Tan
0.00282 (0.0303)
0.02831 (0.4627)
0.00288 (0.0628)
0.00478 (0.2075)
- Phospholipid catabolism
- Iron ion transport
Greenyellow
0.00230 (0.1169)
-0.04444 (0.2990)
0.00178 (0.3087)
0.00853 (0.0403)
- Collagen metabolism
- Extracellular matrix organization
Yellow
-0.00112 (0.4047)
-0.00724 (0.8531)
-0.00098 (0.5358)
-0.00326 (0.3973)
- Cilium organization
Royalblue
-0.00162 (0.2068)
-0.01804 (0.6296)
-0.00184 (0.2257)
-0.00232 (0.5308)
- T cell activation
Lightcyan
0.00376 (0.0074)
-0.00896 (0.8321)
0.00498 (0.0024)
0.00168 (0.6874)
- mRNA processing
Blue
0.00264 (0.0757)
0.01240 (0.7765)
0.00400 (0.0207)
-0.00104 (0.8092)
- Regulation of translation
- ER to Golgi ves-med transport
Lightcyan
-0.00232 (0.1039)
0.01705 (0.6840)
-0.00308 (0.0663)
-0.00262 (0.5274)
- Proteasomal protein catabolism
Salmon
-0.00183 (0.1936)
0.03392 (0.4085)
-0.00216 (0.1936)
-0.00321 (0.4298)
- Negative Regulation of translation
MΦ
MΦ CD80+
MΦ CD163+
MΦ CD80+CD163+

Figure S9