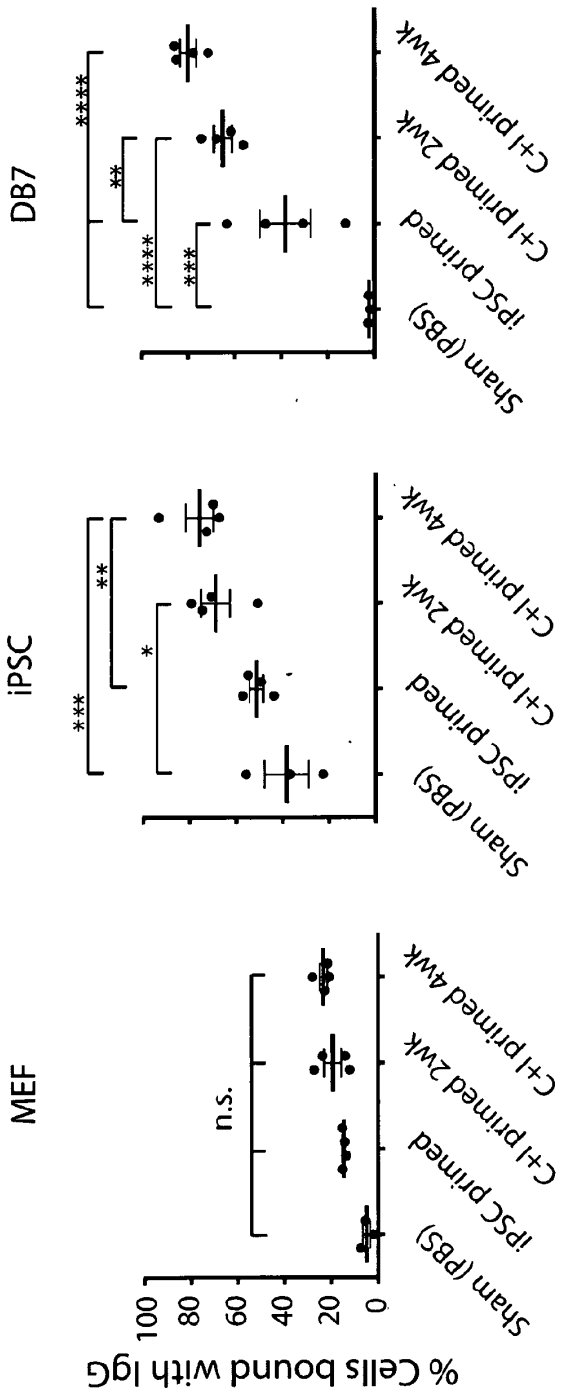
Figure 1A


% Cells bound with IgG
0
20
40
60
80
100
MEF
iPSC
DB7
n.s.
*
**
***
****
Sham (PBS)
iPSC primed
C+I primed 2wk
C+I primed 4wk

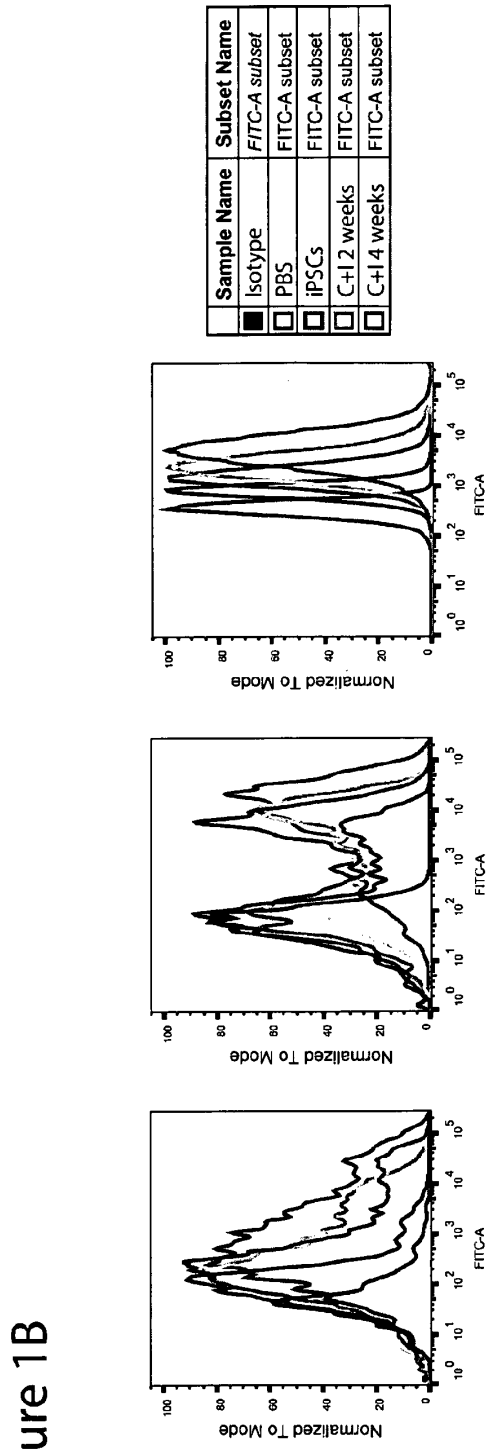

Sample Name
Subset Name
Isotype
FITC-A subset
PBS
FITC-A subset
iPSCs
FITC-A subset
C+12 weeks
FITC-A subset
C+14 weeks
FITC-A subset
Normalized To Mode
FITC-A

Figure 1B

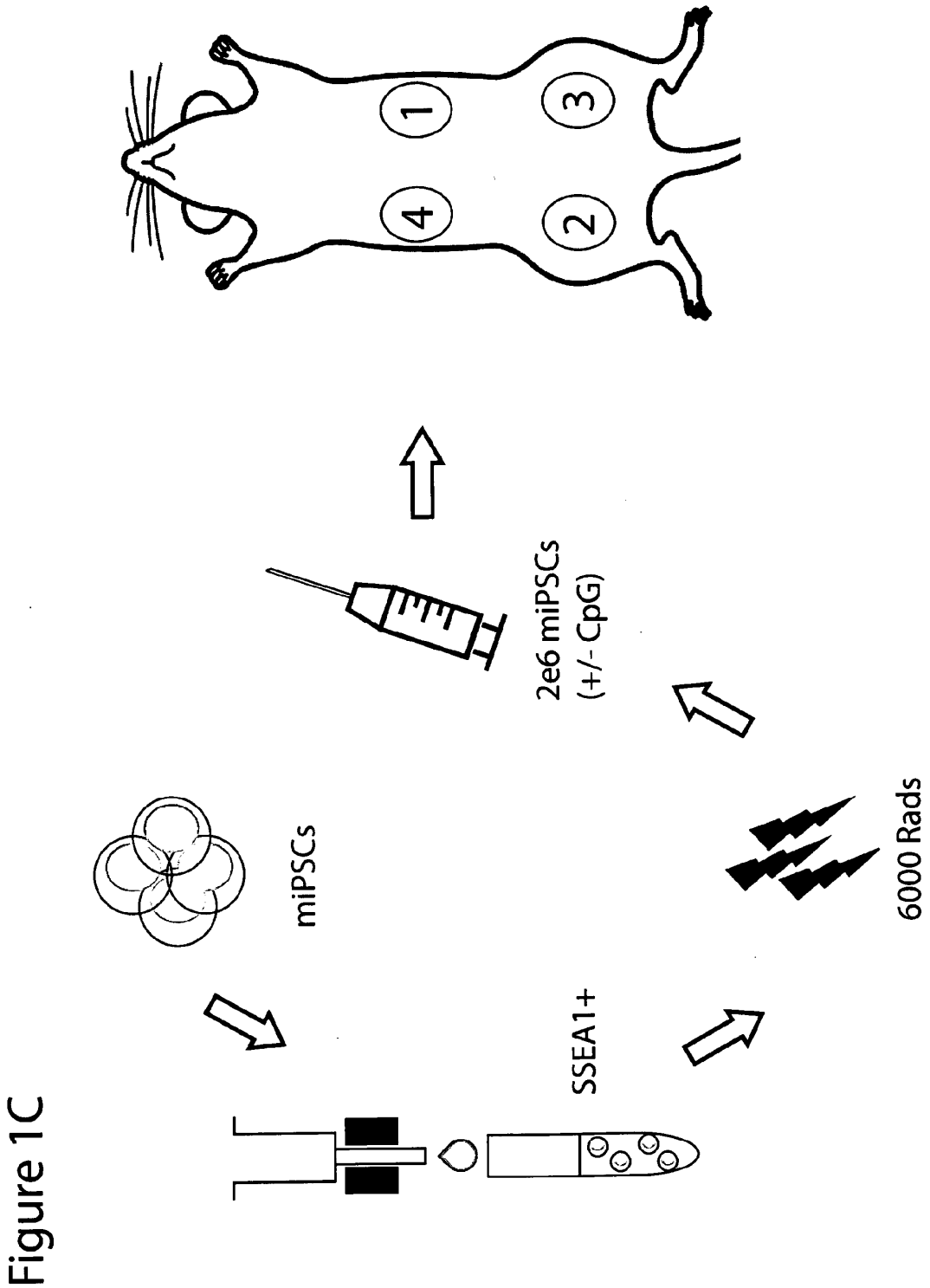
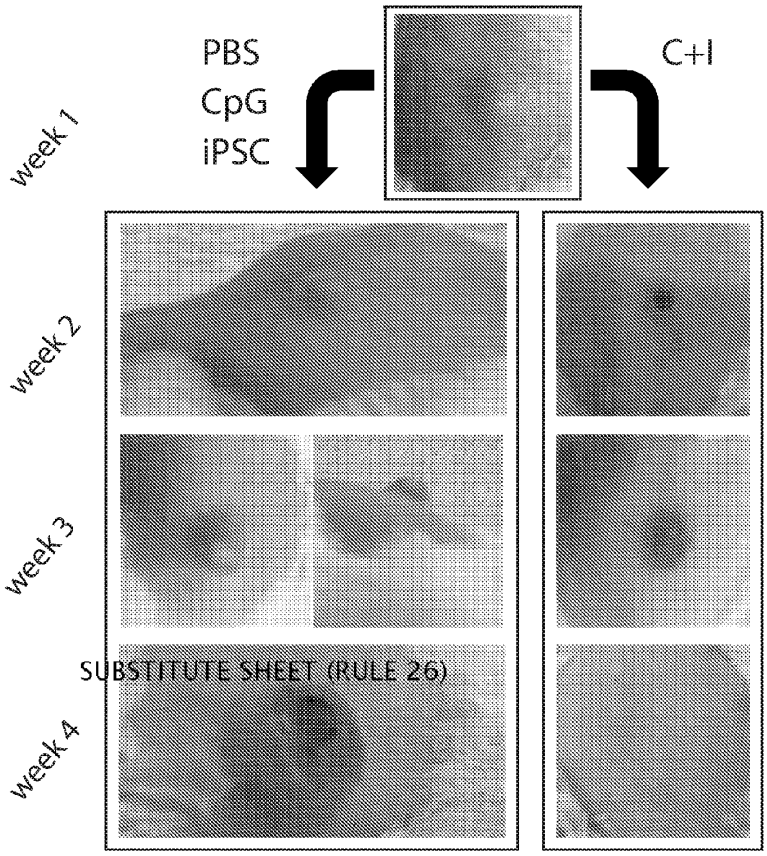


Figure 1C

Figure 2A



SUBSTITUTE SHEET (RULE 26)

Figure 2B

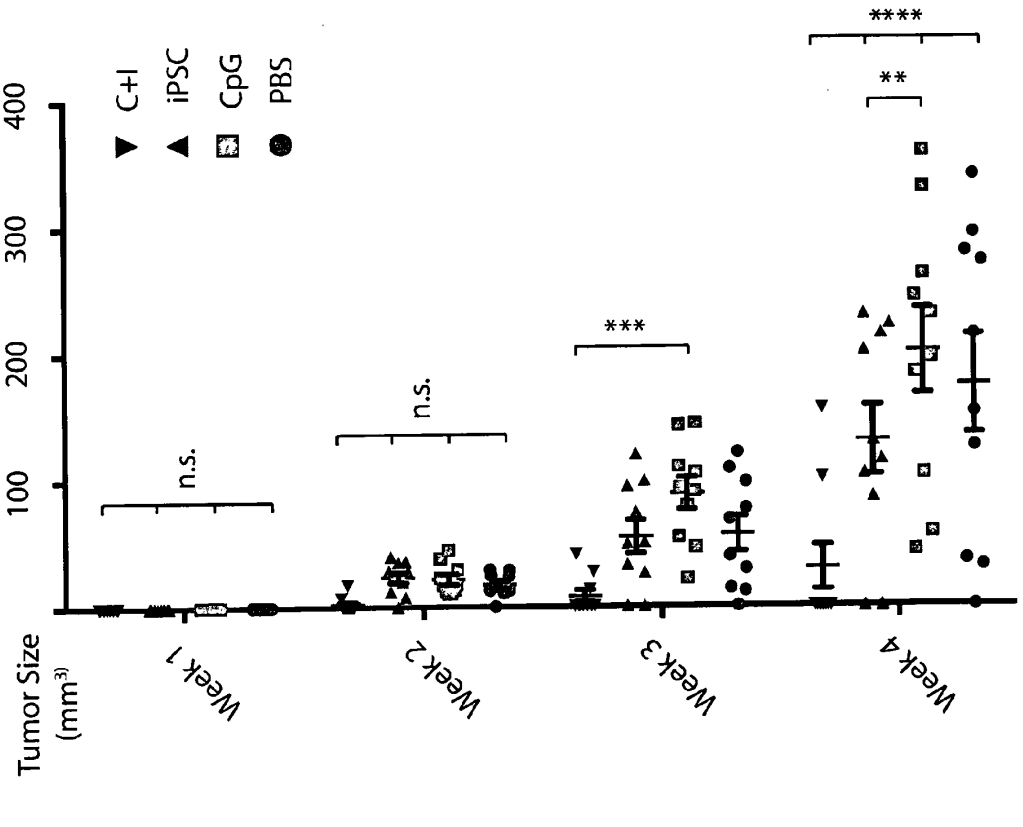
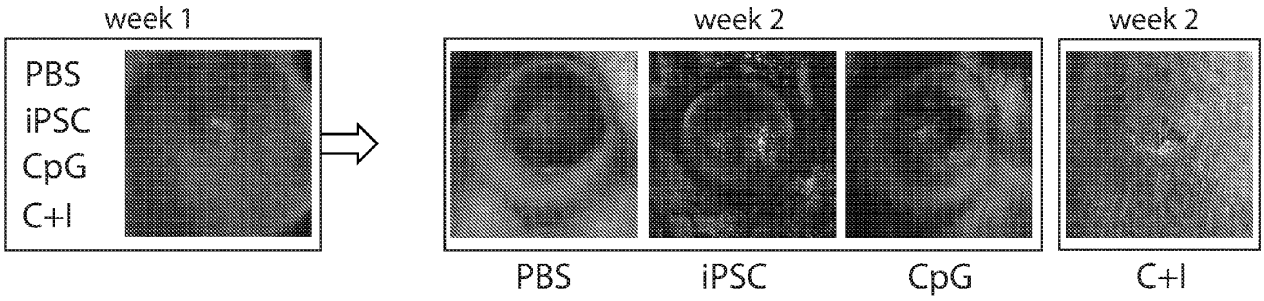

C+I
iPSC
CpG
PBS
400
300
200
100
Tumor Size (mm³)
n.s.
n.s.
***
**
****
Week 1
Week 2
Week 3
Week 4

Figure 2C



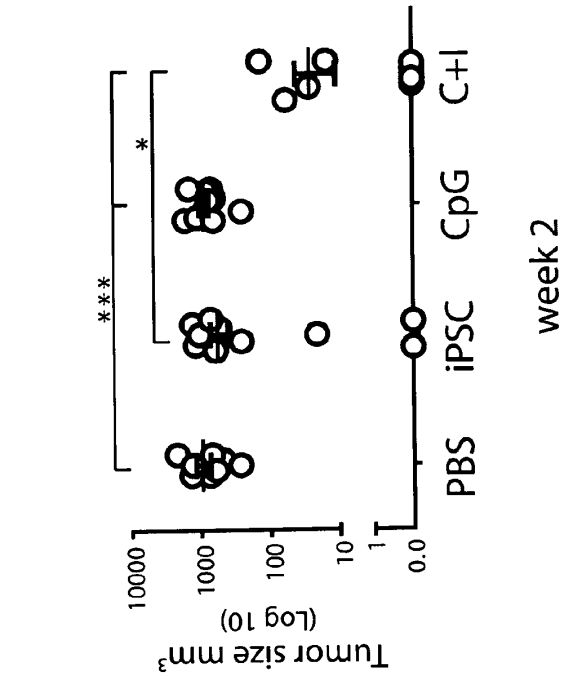

Tumor size mm3
(Log 10)
10000
1000
100
10
1
0.0
***
*
PBS
iPSC
CpG
C+I
week 2

Figure 2D

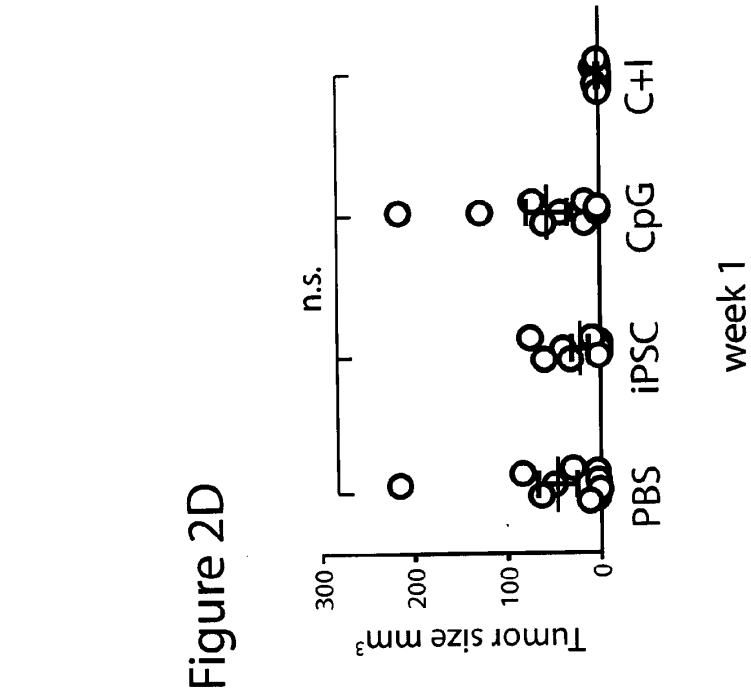

Tumor size mm3
300
200
100
0
n.s.
PBS
iPSC
CpG
C+I
week 1

Figure 3A

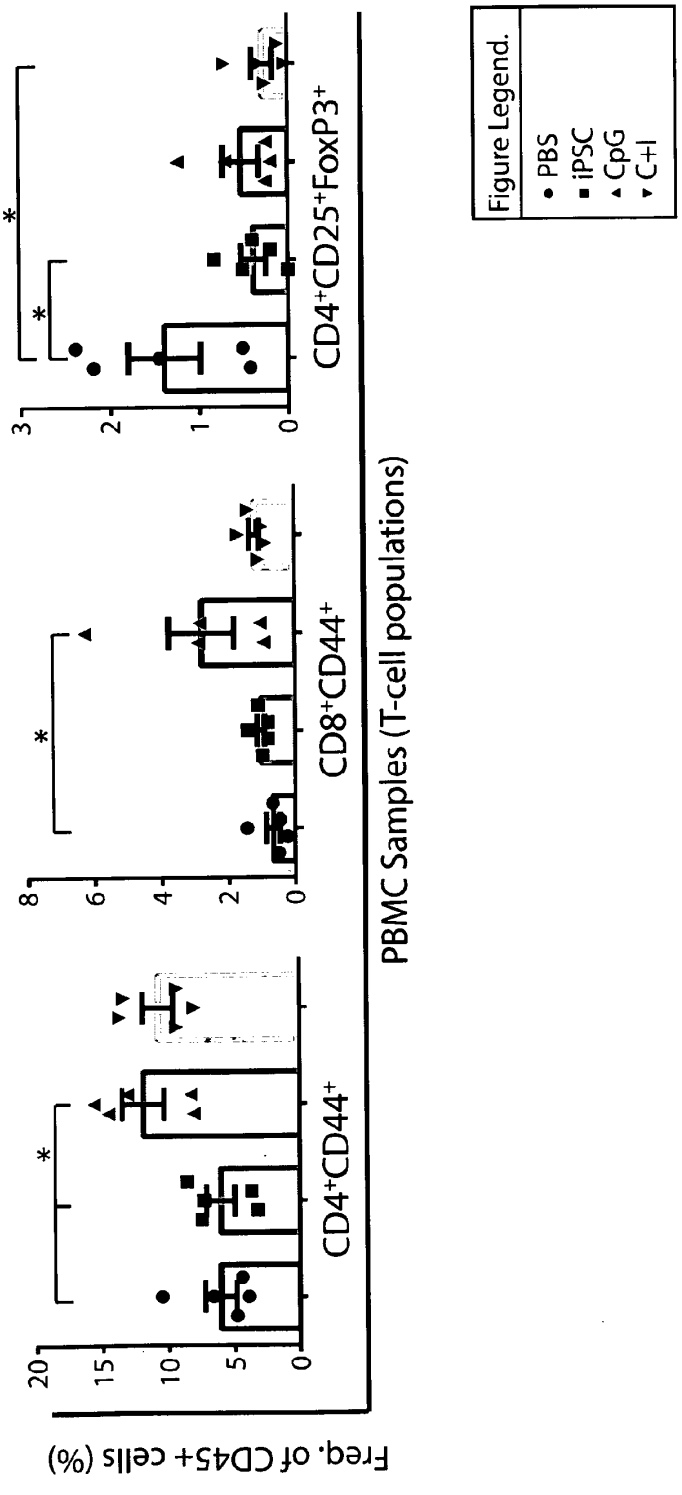

Freq. of CD45+ cells (%)
CD4+CD44+
CD8+CD44+
CD4+CD25+FoxP3+
PBMC Samples (T-cell populations)
Figure Legend.
PBS
iPSC
CpG
C+I

Figure 3B

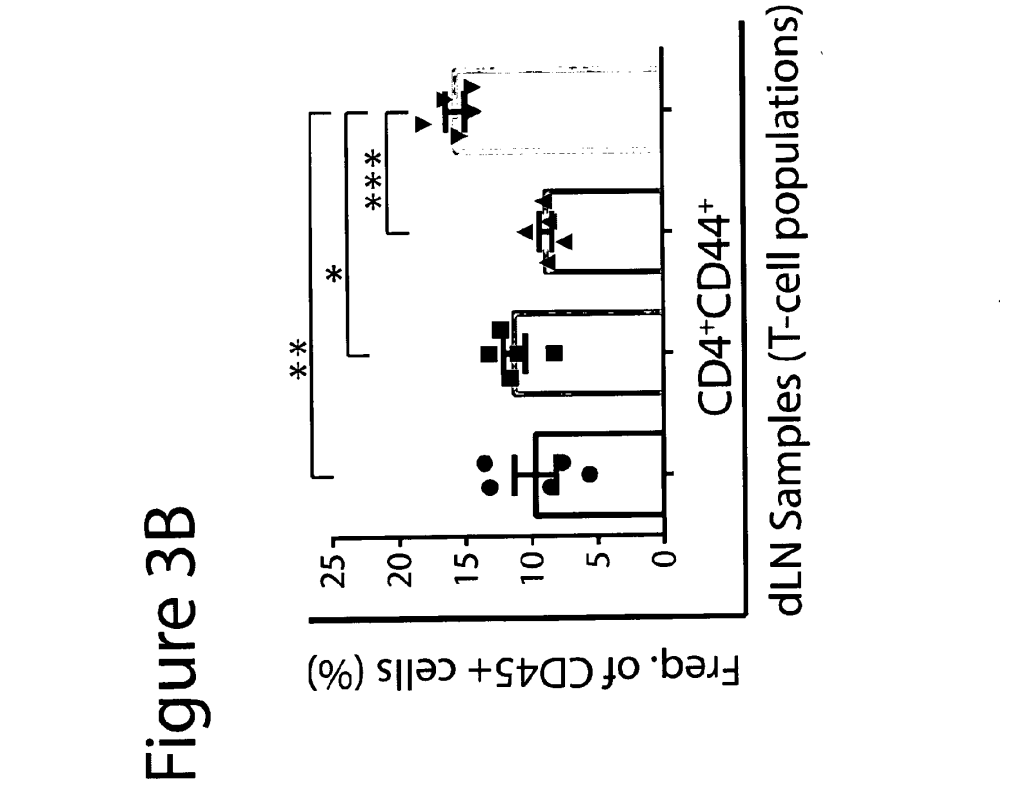
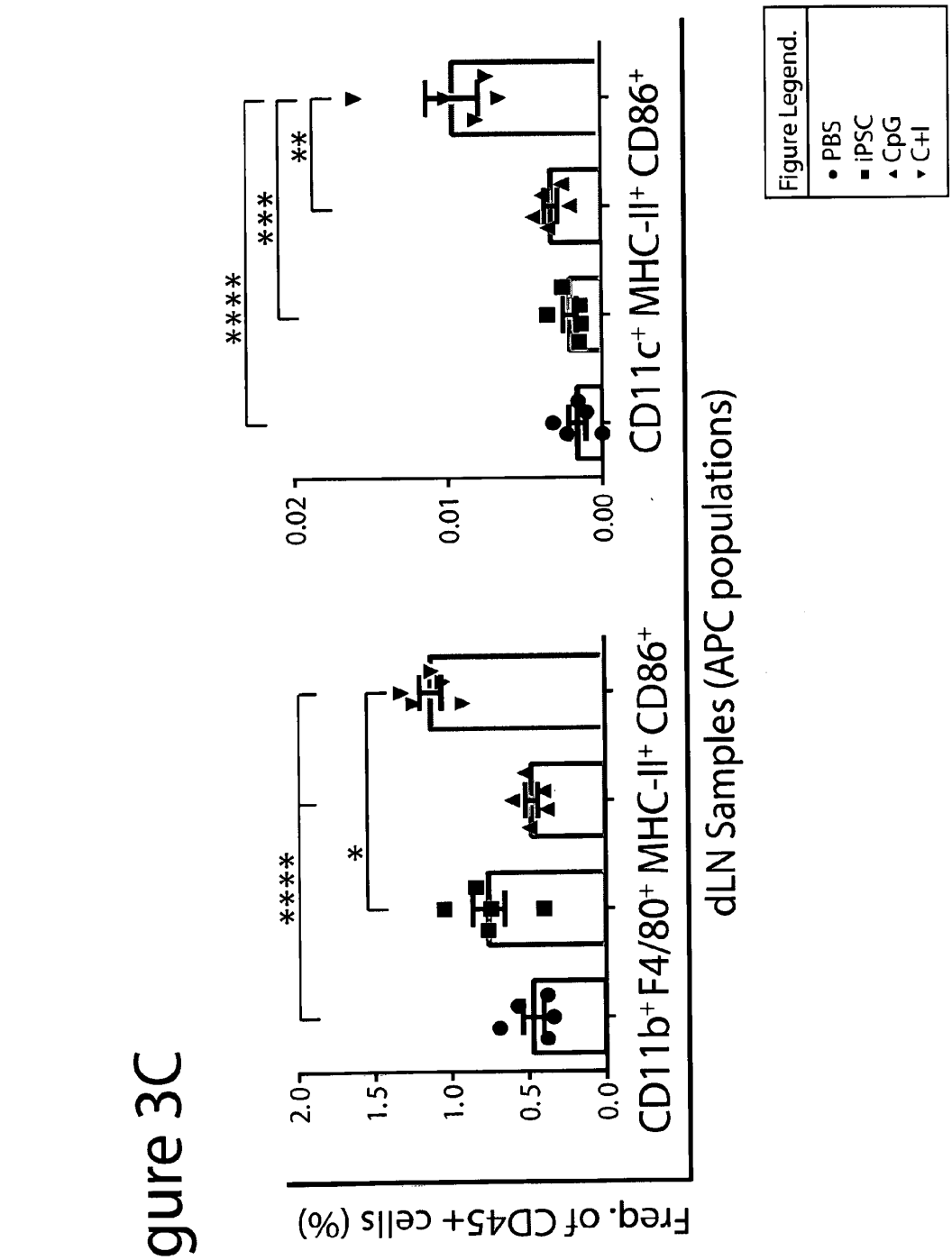

Figure Legend.
PBS
iPSC
CpG
C+I
Freq. of CD45+ cells (%)
25
20
15
10
5
0
**
*
***
CD4+CD44+
dLN Samples (T-cell populations)

Figure 3C


Freq. of CD45+ cells (%)
dLN Samples (APC populations)
CD11b+F4/80+ MHC-II+ CD86+
CD11c+ MHC-II+ CD86+
2.0
1.5
1.0
0.5
0.0
0.02
0.01
0.00
****
*
****
***
**
Figure Legend.
PBS
iPSC
CpG
C+I

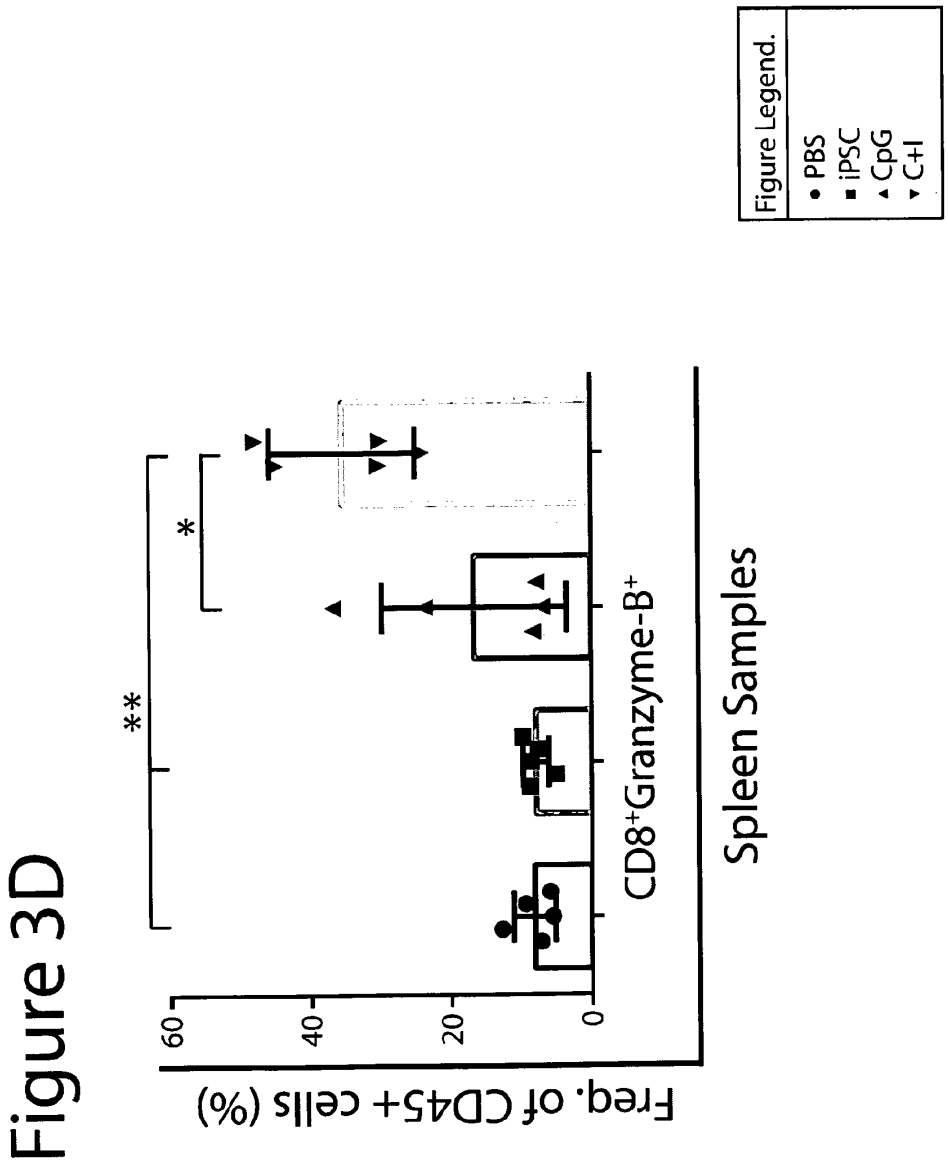

Figure Legend.
PBS
iPSC
CpG
C+I
Figure 3D
Freq. of CD45+ cells (%)
60
40
20
0
**
*
CD8+Granzyme-B+
Spleen Samples

Figure 3E

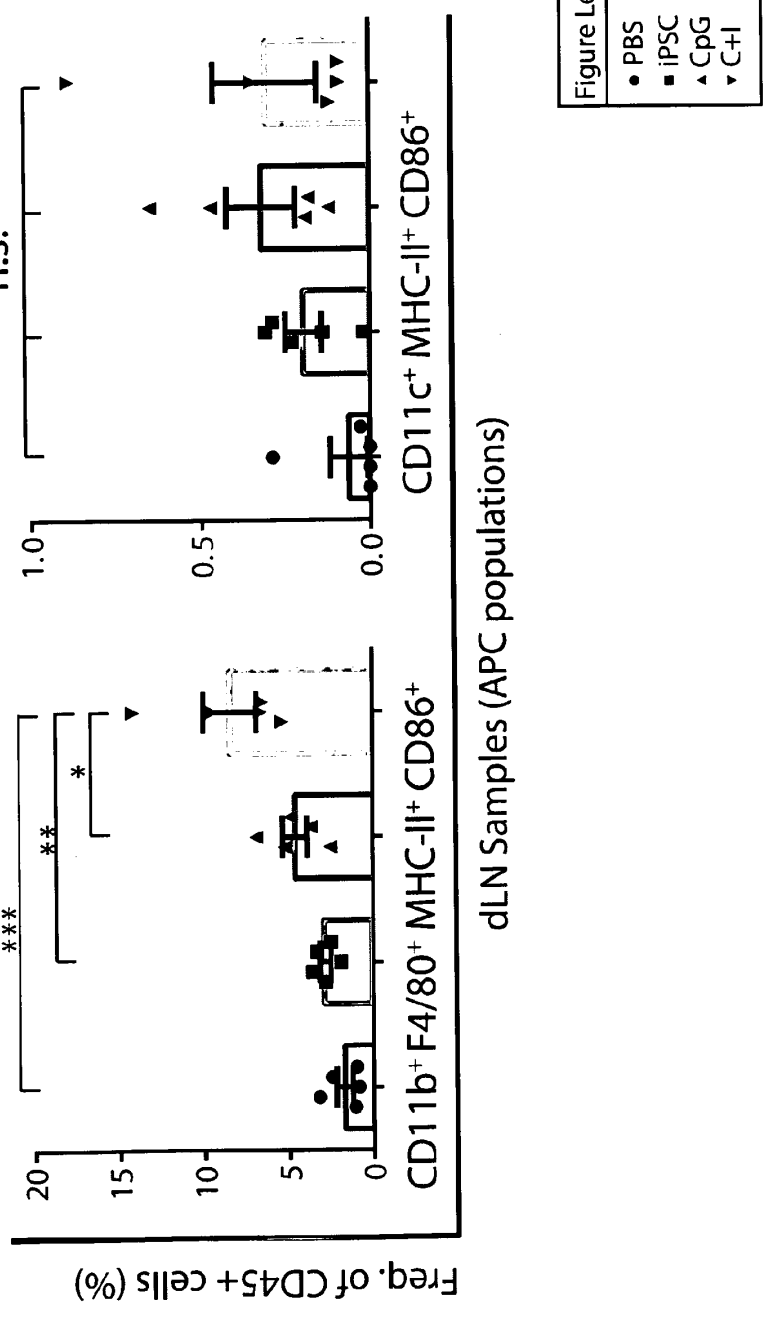

Freq. of CD45+ cells (%)
20
15
10
5
0
***
**
*
CD11b+ F4/80+ MHC-II+ CD86+
n.s.
1.0
0.5
0.0
CD11c+ MHC-II+ CD86+
dLN Samples (APC populations)
Figure Legend.
PBS
iPSC
CpG
C+I

Figure 3F

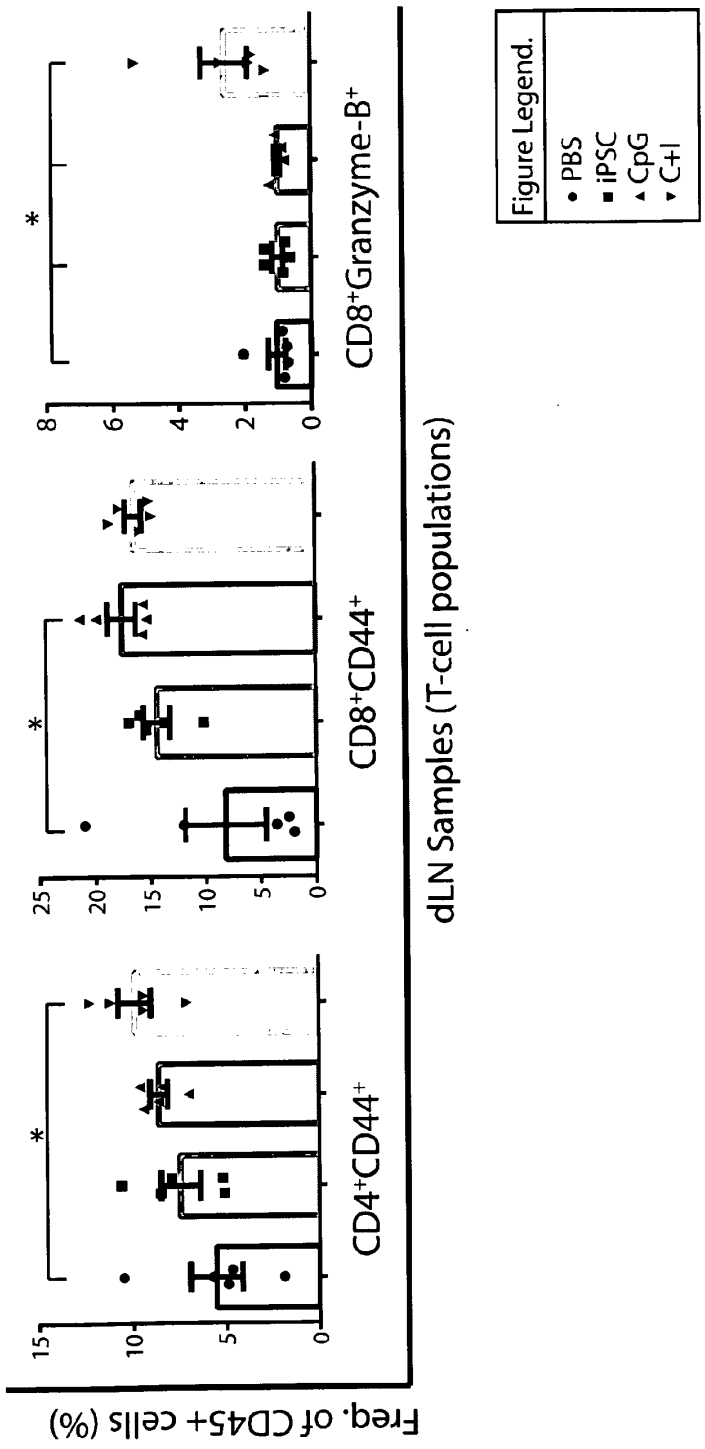
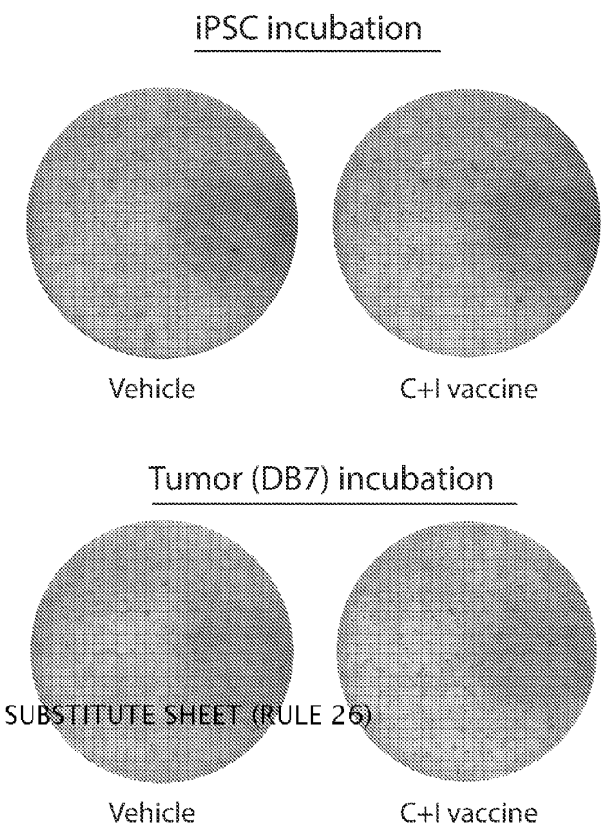

Freq. of CD45+ cells (%)
CD4+CD44+
CD8+CD44+
CD8+Granzyme-B+
dLN Samples (T-cell populations)
Figure Legend.
PBS
iPSC
CpG
C+I

Figure 4A



SUBSTITUTE SHEET (RULE 26)

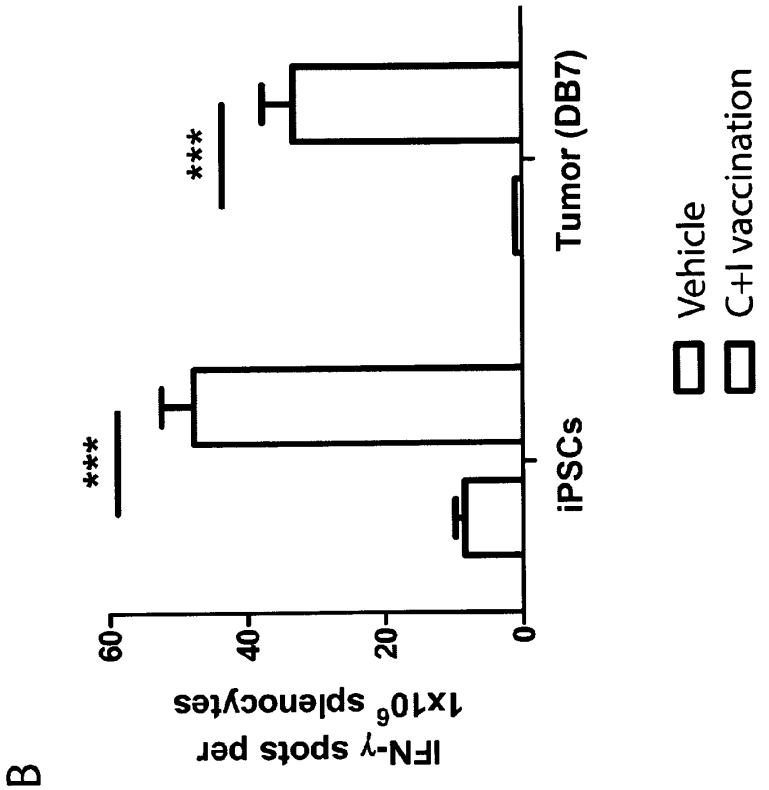
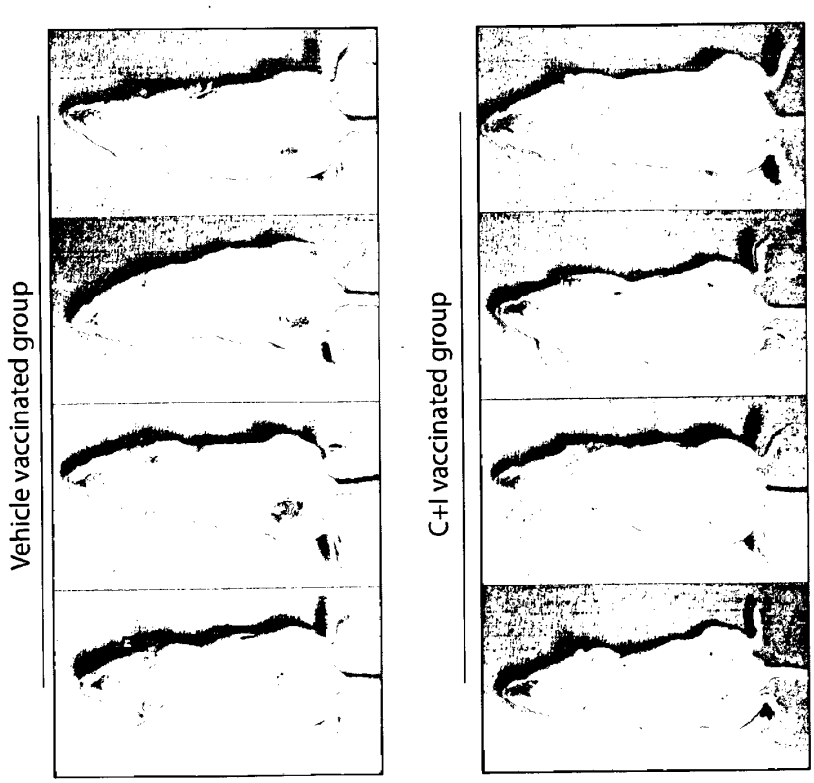

IFN-γ spots per
1x10^6 splenocytes
60
40
20
0
***
***
iPSCs
Tumor (DB7)
Vehicle
C+I vaccination

Figure 4B

Figure 3C



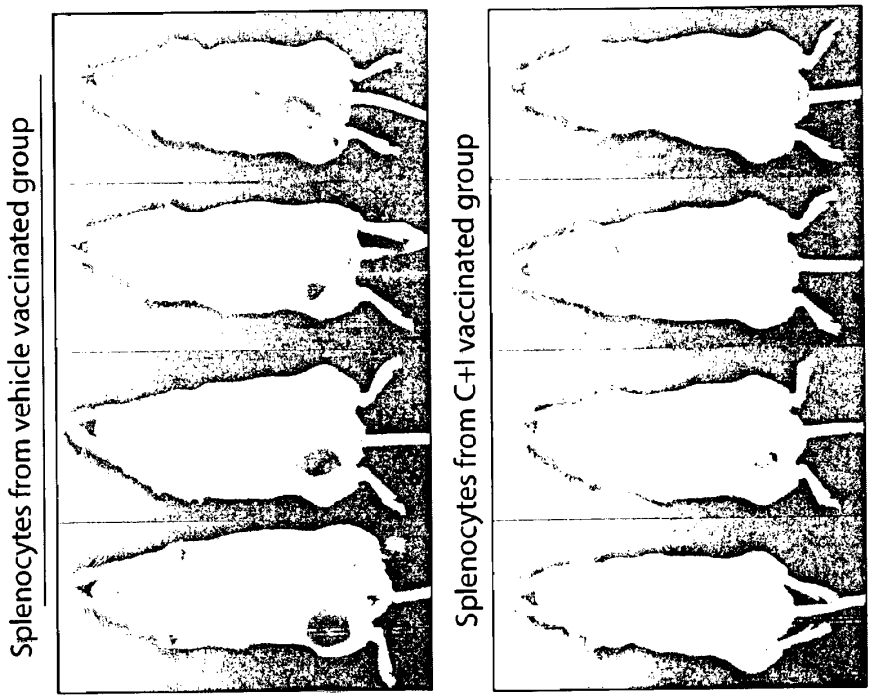

Splenocytes from vehicle vaccinated group
Splenocytes from C+I vaccinated group

Figure 4D

Figure 4E

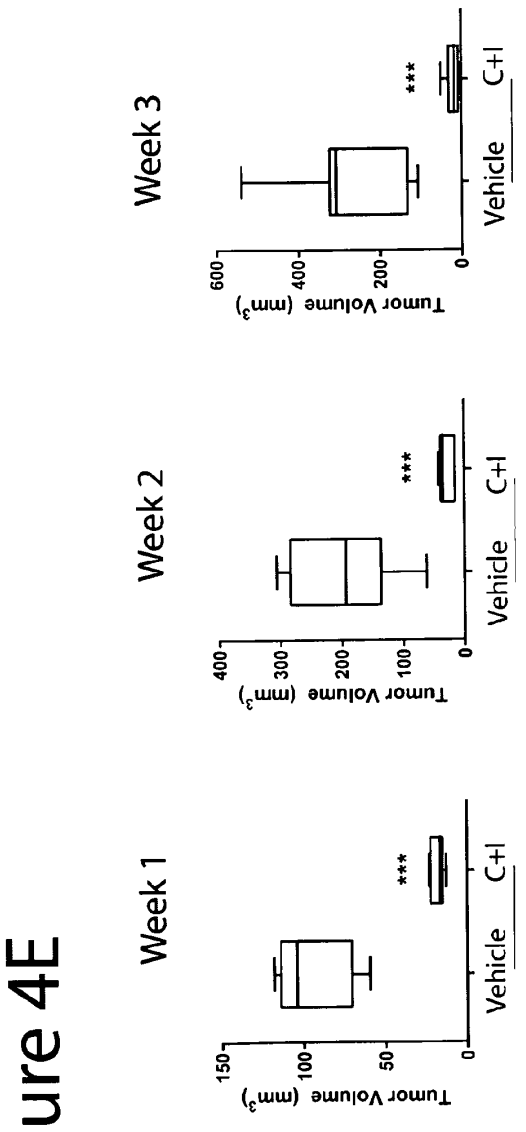

Week 1
Week 2
Week 3
Tumor Volume (mm3)
150
100
50
0
400
300
200
100
600
400
200
***
Vehicle
C+I

Figure 4F

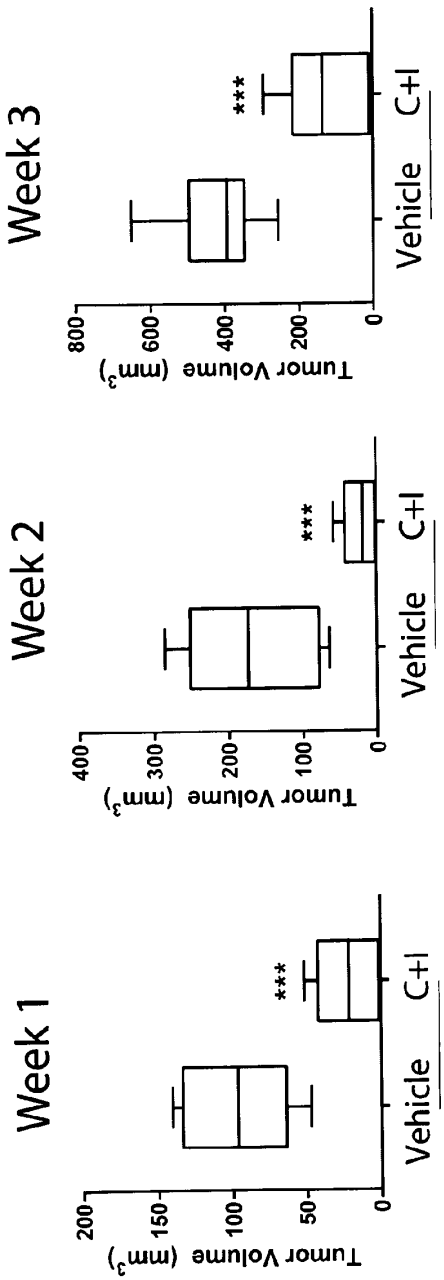

Week 1
Week 2
Week 3
Tumor Volume (mm3)
0
50
100
150
200
100
200
300
400
200
400
600
800
***
Vehicle
C+I

Figure 5A

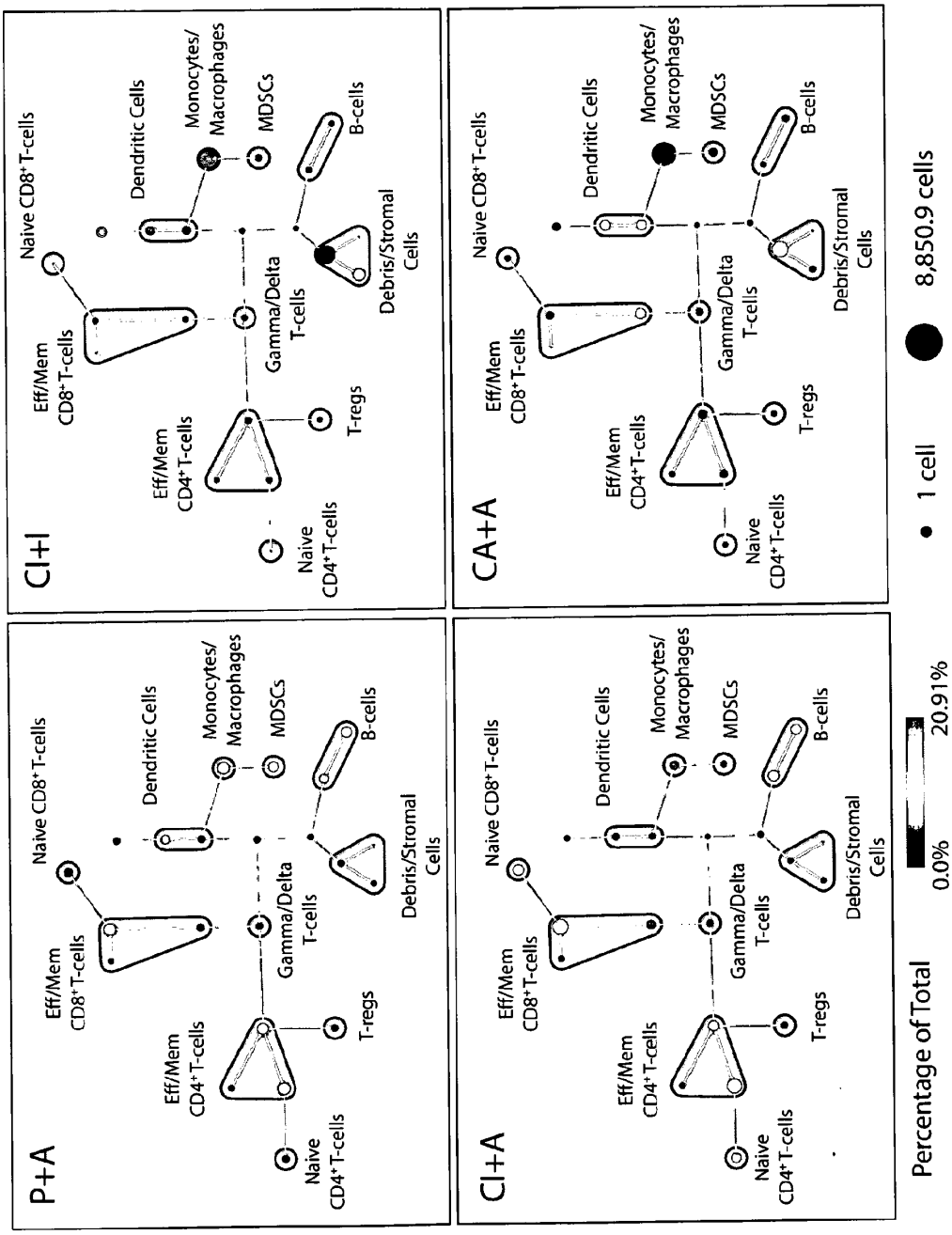
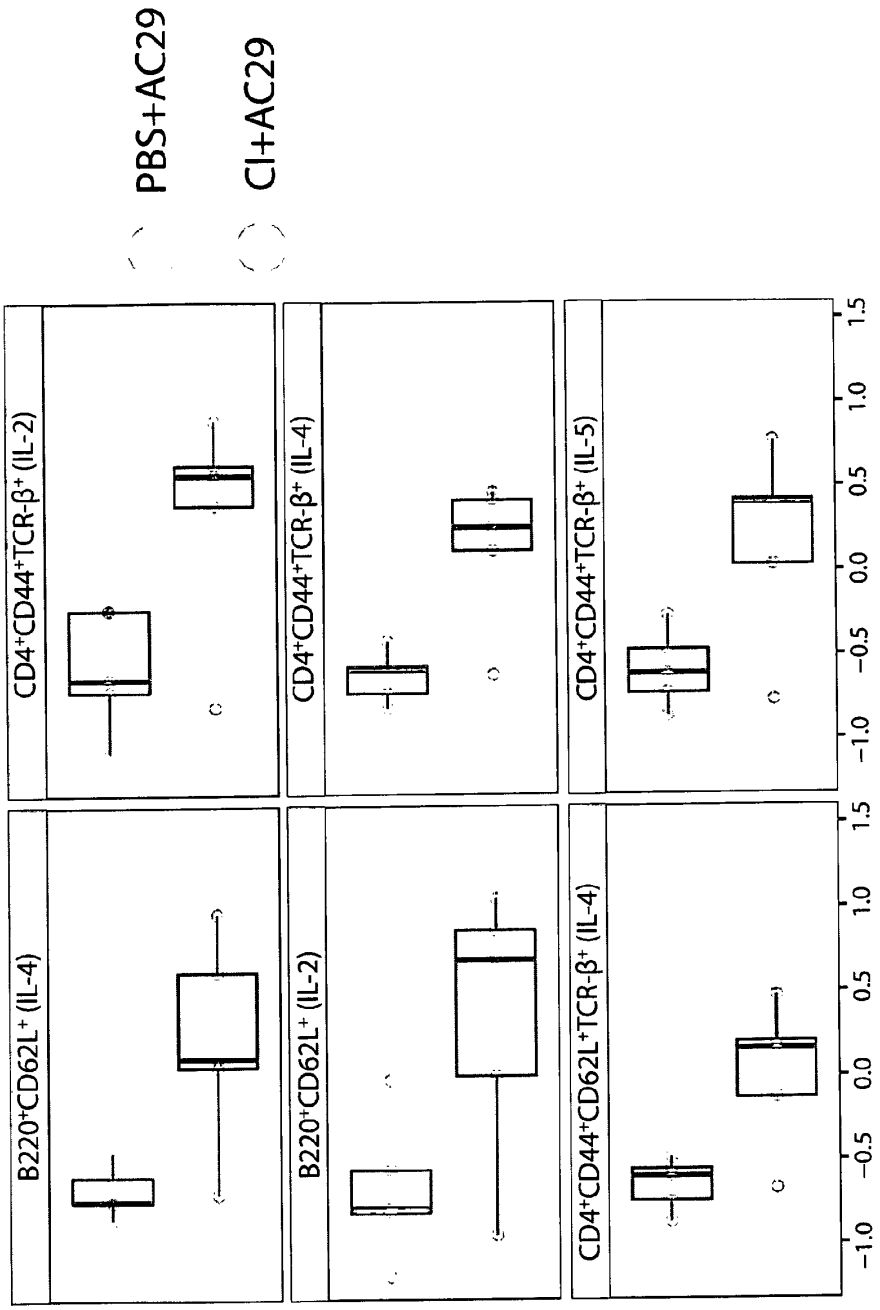

P+A
Cl+I
Cl+A
CA+A
Naive CD8+T-cells
Eff/Mem CD8+T-cells
Dendritic Cells
Monocytes/ Macrophages
MDSCs
B-cells
Debris/Stromal Cells
Gamma/Delta T-cells
T-regs
Eff/Mem CD4+T-cells
Naive CD4+T-cells
Percentage of Total
0.0%
20.91%
1 cell
8,850.9 cells

Figure 5B


PBS+AC29
CI+AC29
CD4+CD44+TCR-β+ (IL-2)
CD4+CD44+TCR-β+ (IL-4)
CD4+CD44+TCR-β+ (IL-5)
B220+CD62L+ (IL-4)
B220+CD62L+ (IL-2)
CD4+CD44+CD62L+TCR-β+ (IL-4)
−1.0
−0.5
0.0
0.5
1.0
1.5

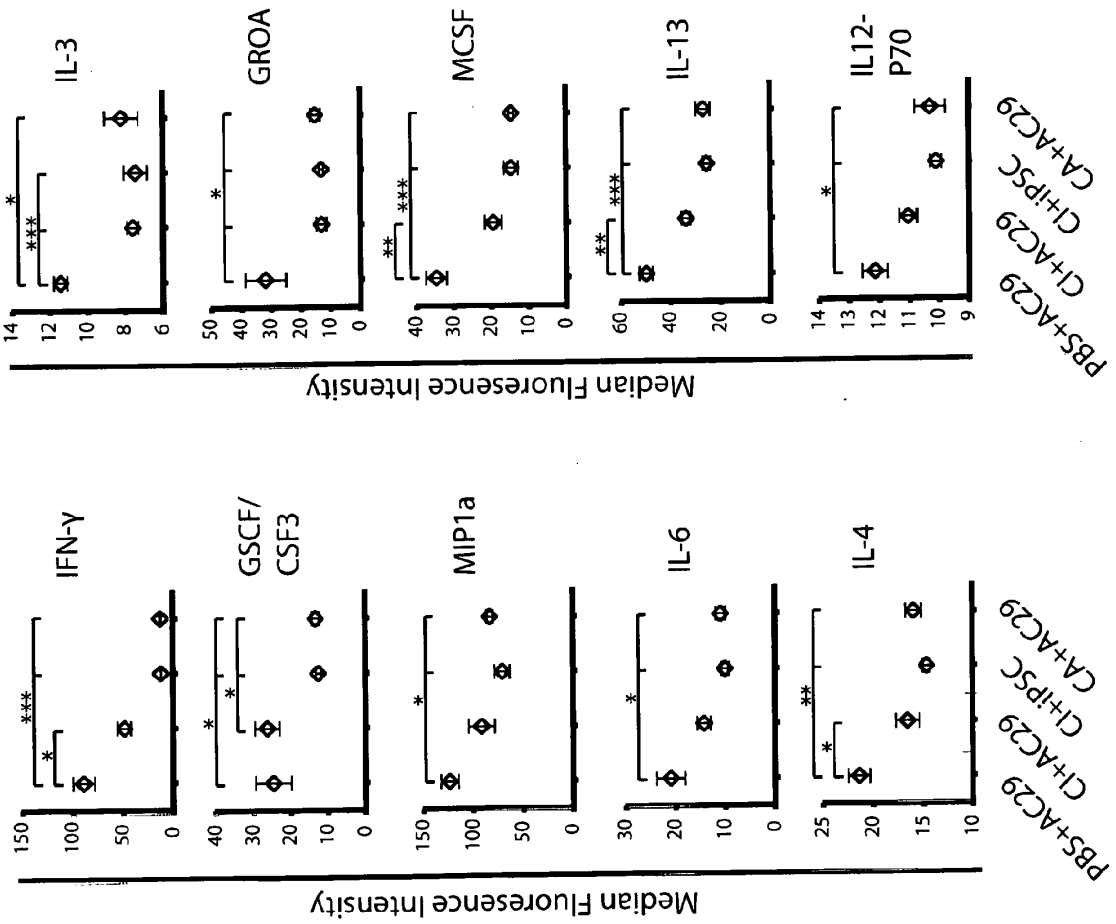

IL-3
GROA
MCSF
IL-13
IL12-P70
IFN-γ
GSCF/CSF3
MIP1a
IL-6
IL-4
Median Fluorescence Intensity
PBS+AC29
CI+AC29
CI+IPSC
CA+AC29

Figure 6A

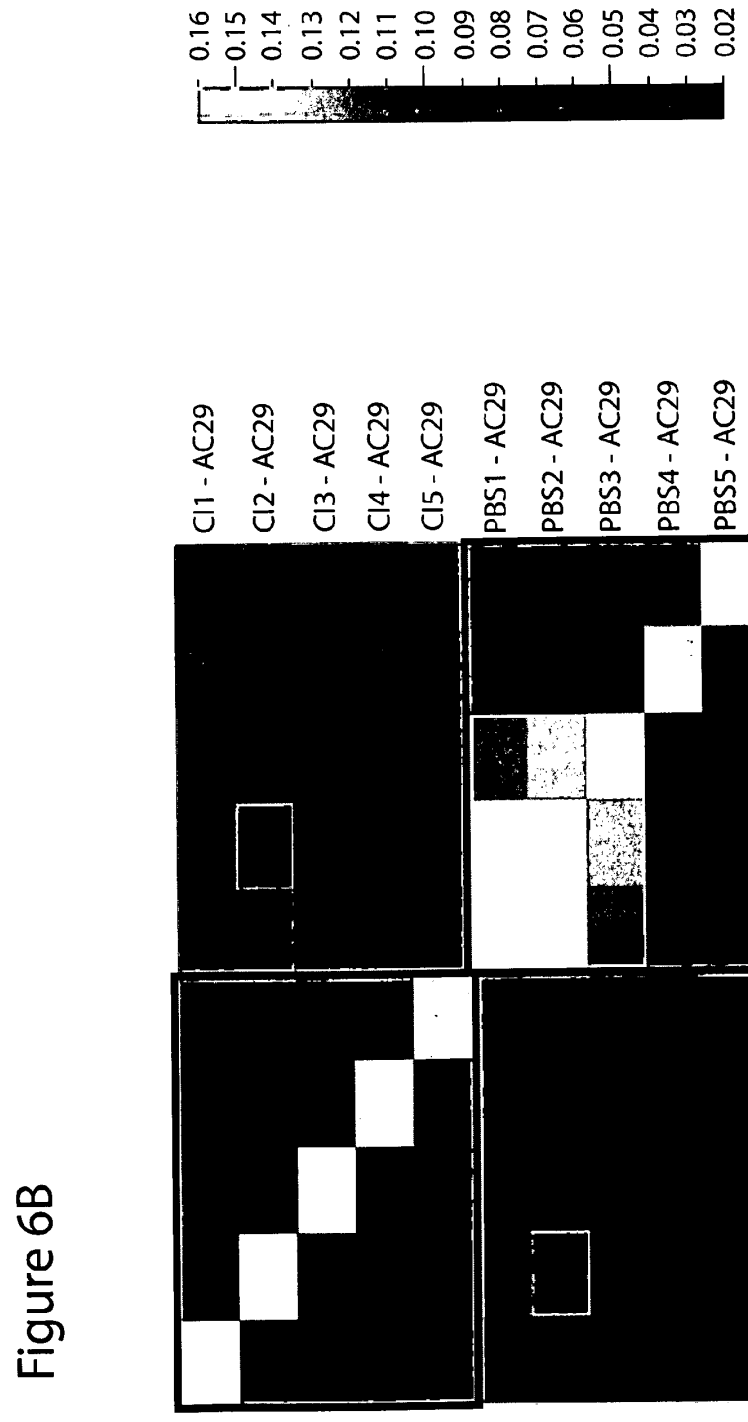

0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
CI1 - AC29
CI2 - AC29
CI3 - AC29
CI4 - AC29
CI5 - AC29
PBS1 - AC29
PBS2 - AC29
PBS3 - AC29
PBS4 - AC29
PBS5 - AC29
PBS5 - AC29
PBS4 - AC29
PBS3 - AC29
PBS2 - AC29
PBS1 - AC29
CI5 - AC29
CI4 - AC29
CI3 - AC29
CI2 - AC29
CI1 - AC29

Figure 6B

Figure 7A

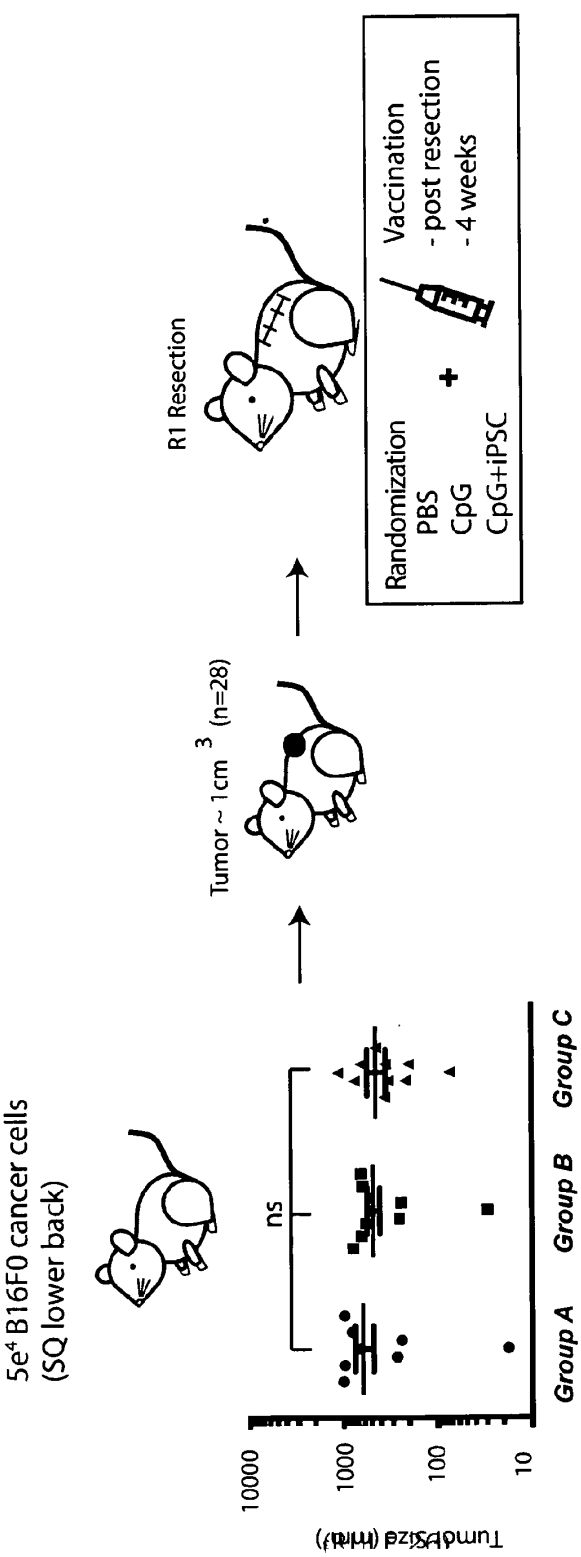

5e4 B16F0 cancer cells
(SQ lower back)
Tumor ~ 1cm 3 (n=28)
R1 Resection
Randomization
PBS
CpG
CpG+iPSC
Vaccination
- post resection
- 4 weeks
ns
Group A
Group B
Group C
10000
1000
100
10

Figure 7B

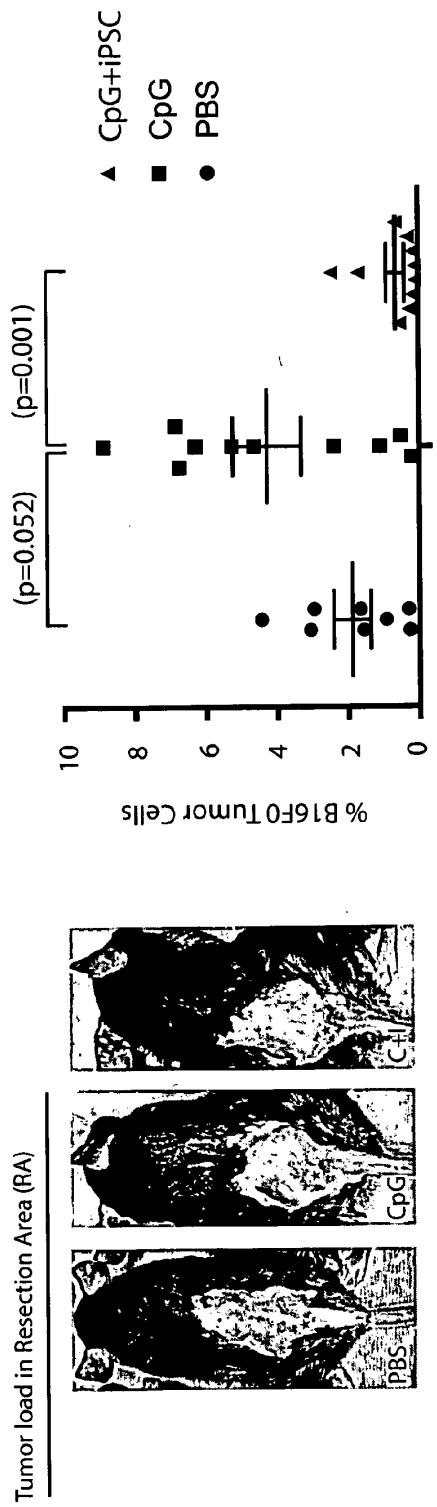
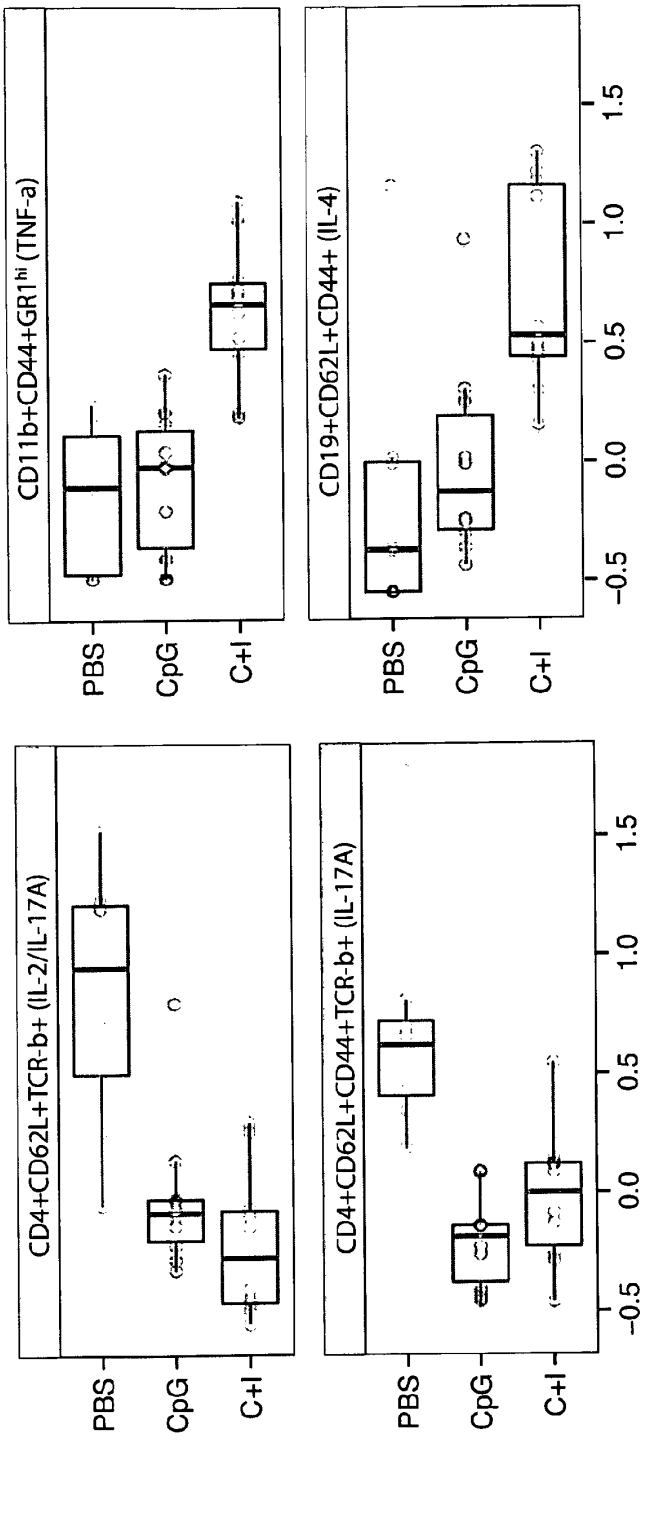

Tumor load in Resection Area (RA)
PBS
CpG
CpG+iPSC
% B16F0 Tumor Cells
0
2
4
6
8
10
ns
(p=0.052)
*
(p=0.001)
PBS
CpG
CpG+iPSC

Figure 7C


CD11b+CD44+GR1hi (TNF-a)
CD19+CD62L+CD44+ (IL-4)
CD4+CD62L+TCR-b+ (IL-2/IL-17A)
CD4+CD62L+CD44+TCR-b+ (IL-17A)
PBS
CpG
C+I
−0.5
0.0
0.5
1.0
1.5

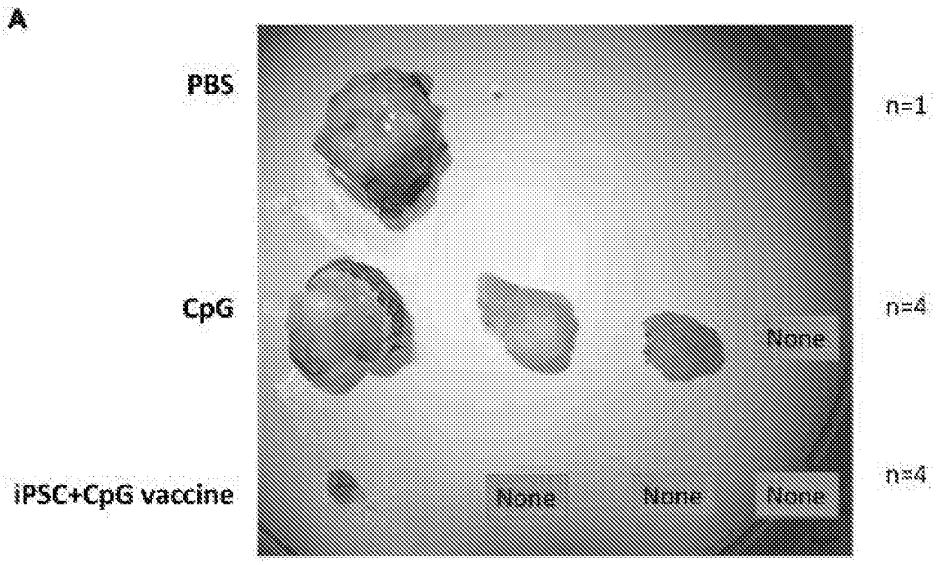


Figure 8

Figure 8B

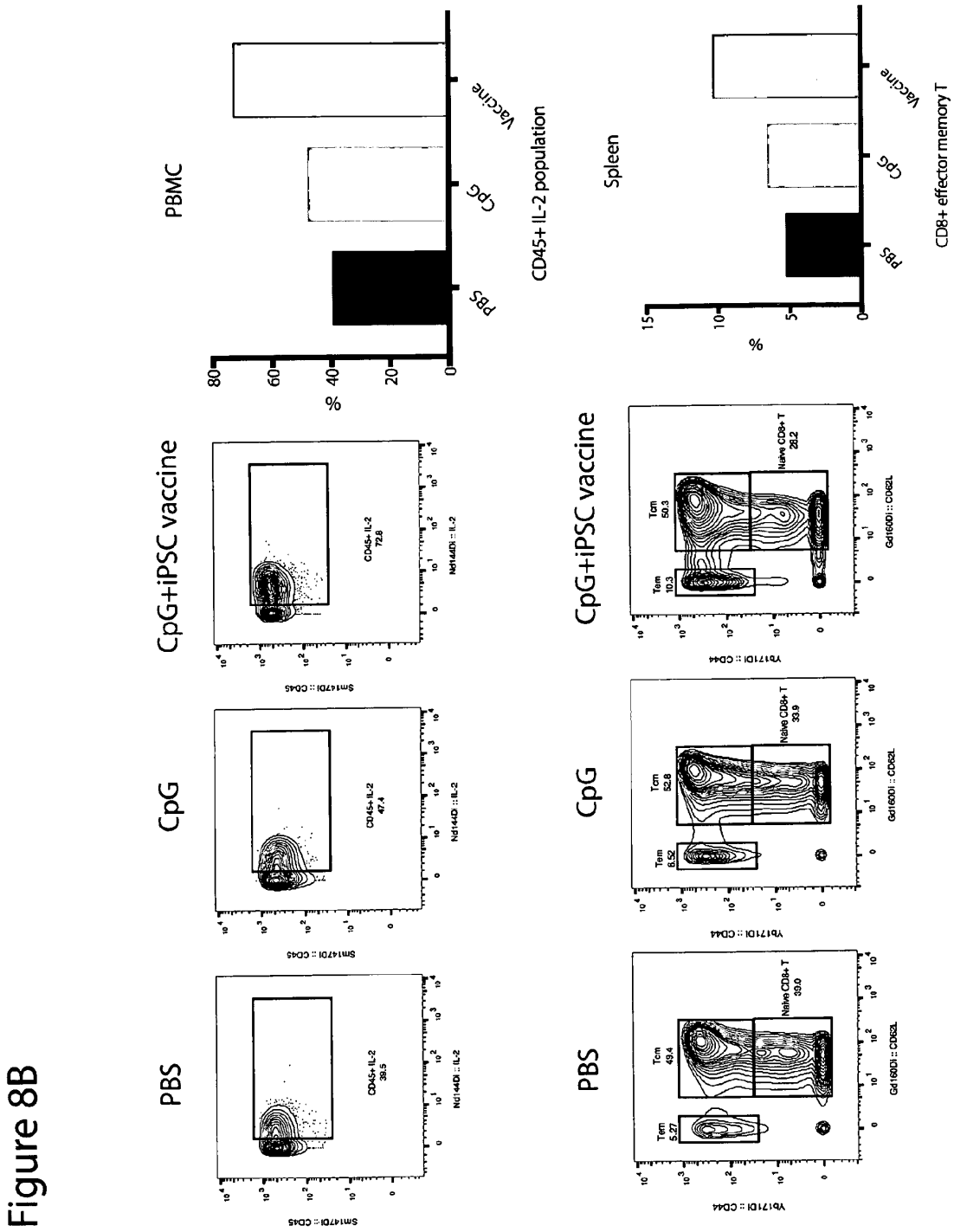
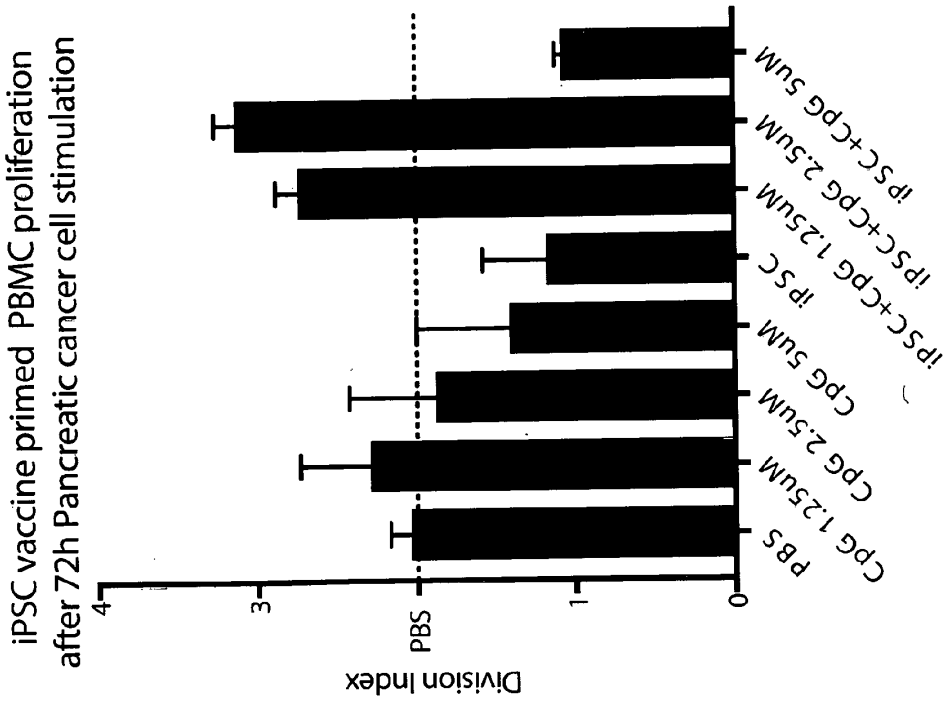

PBS
CpG
CpG+iPSC vaccine
PBMC
CD45+ IL-2 population
%
PBS
CpG
Vaccine
Spleen
CD8+ effector memory T
%
PBS
CpG
CpG+iPSC vaccine
Tcm
Tem
Naive CD8+ T

Figure 8C


iPSC vaccine primed PBMC proliferation
after 72h Pancreatic cancer cell stimulation
Division Index
0
1
PBS
3
4
PBS
CpG 1.25uM
CpG 2.5uM
CpG 5uM
iPSC
iPSC+CpG 1.25uM
iPSC+CpG 2.5uM
iPSC+CpG 5uM