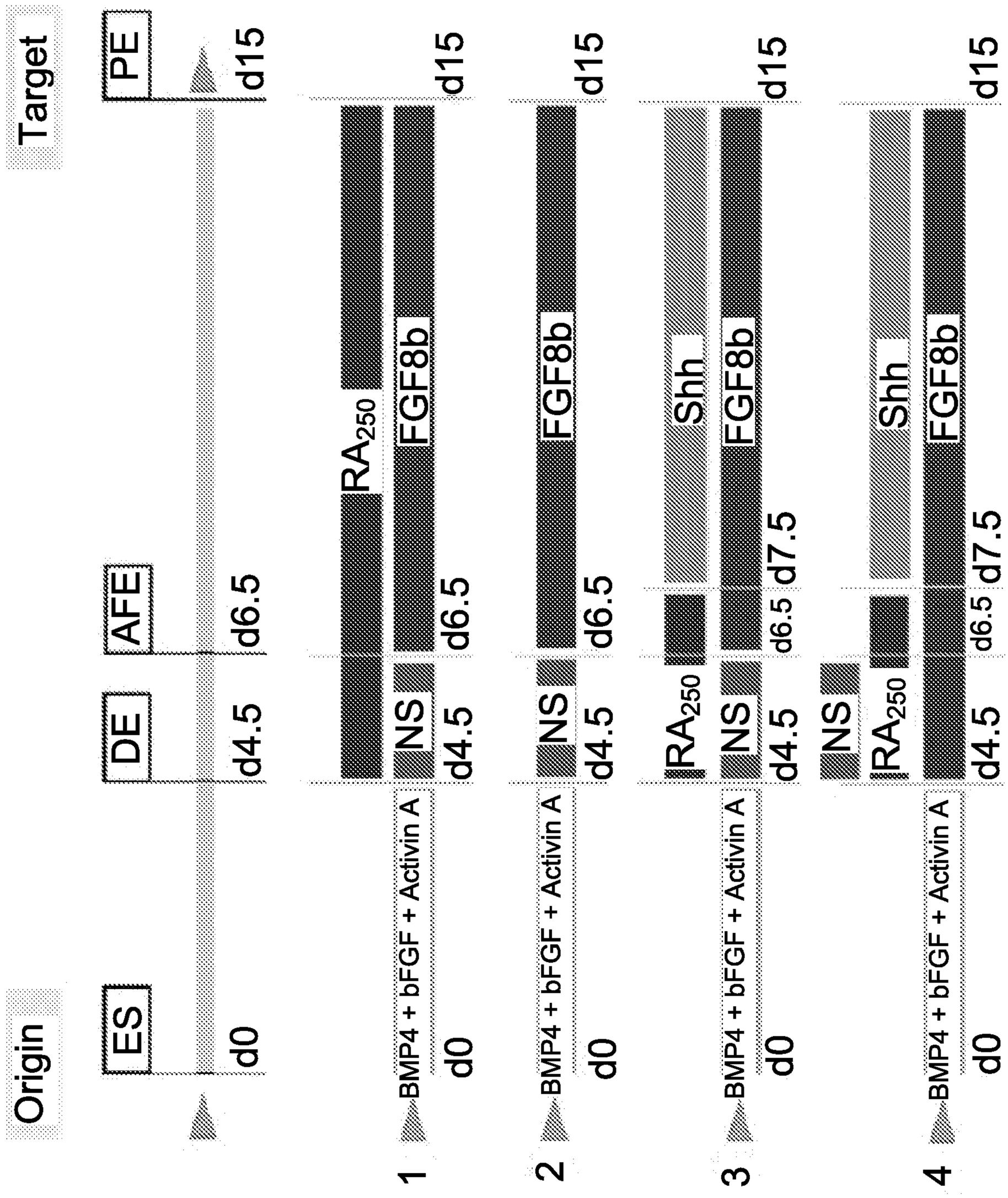


Figure 1

Figure 1A

Figure 1B

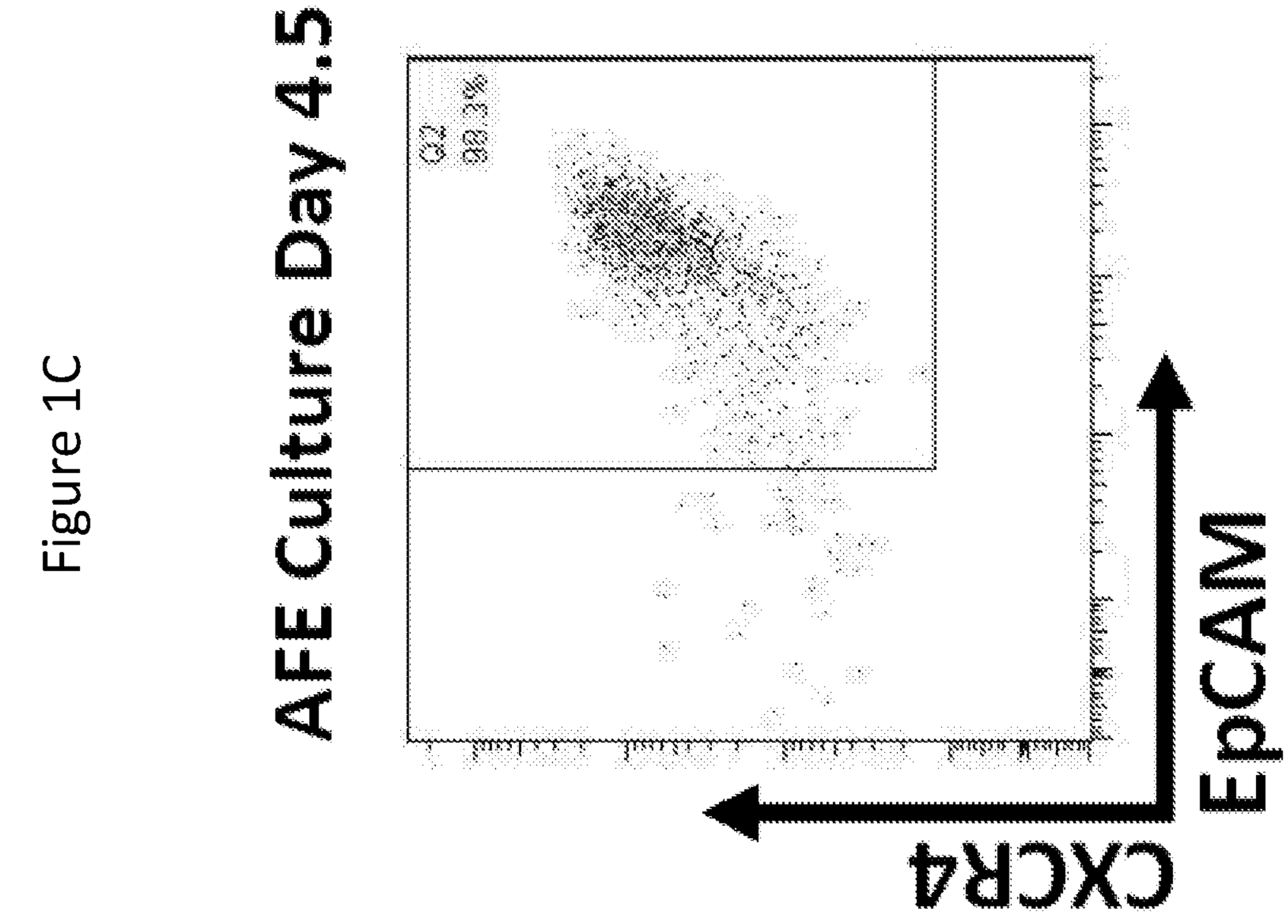
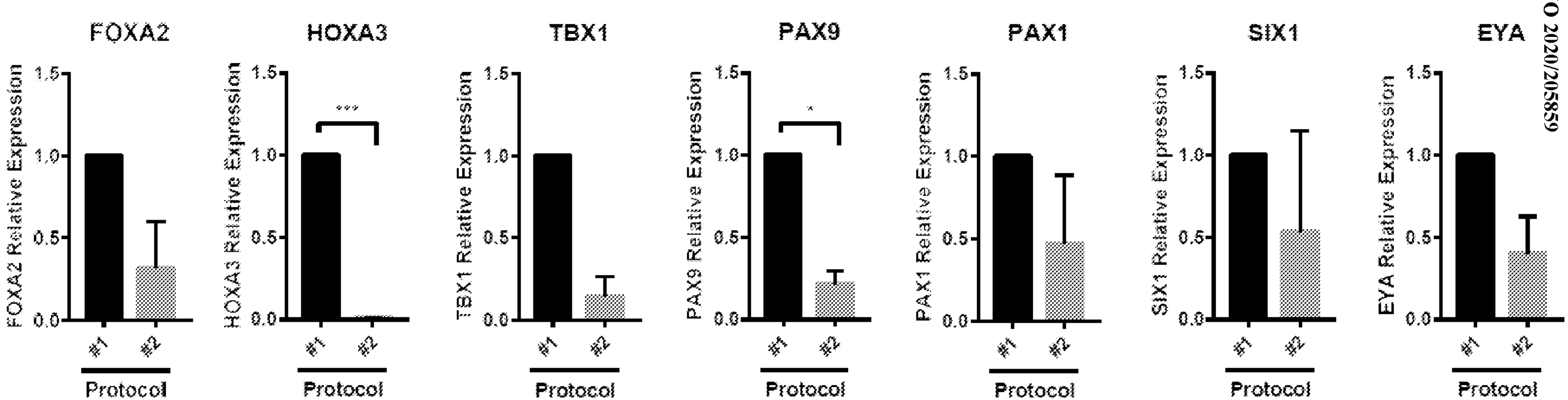
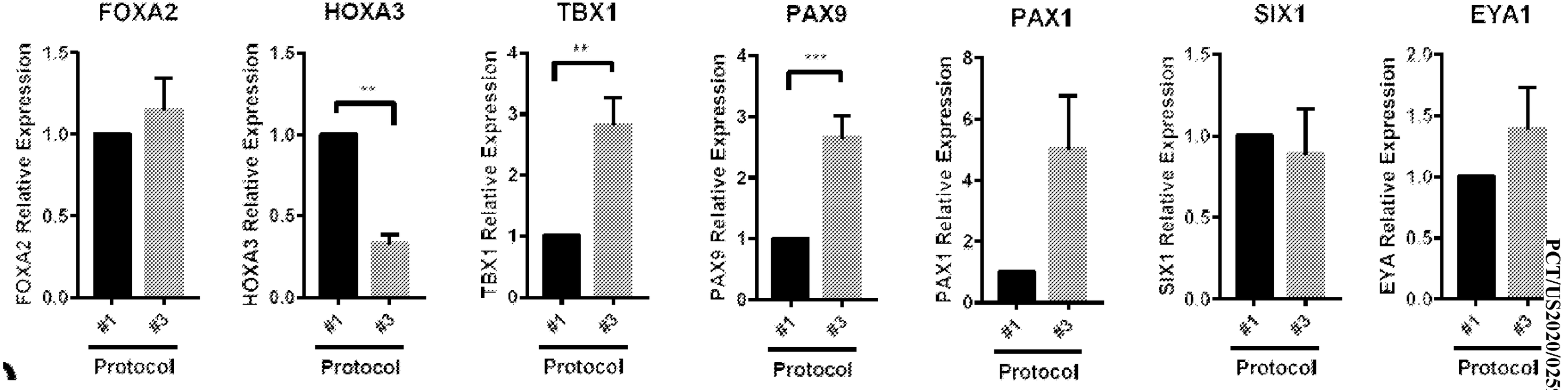


Figure 1C

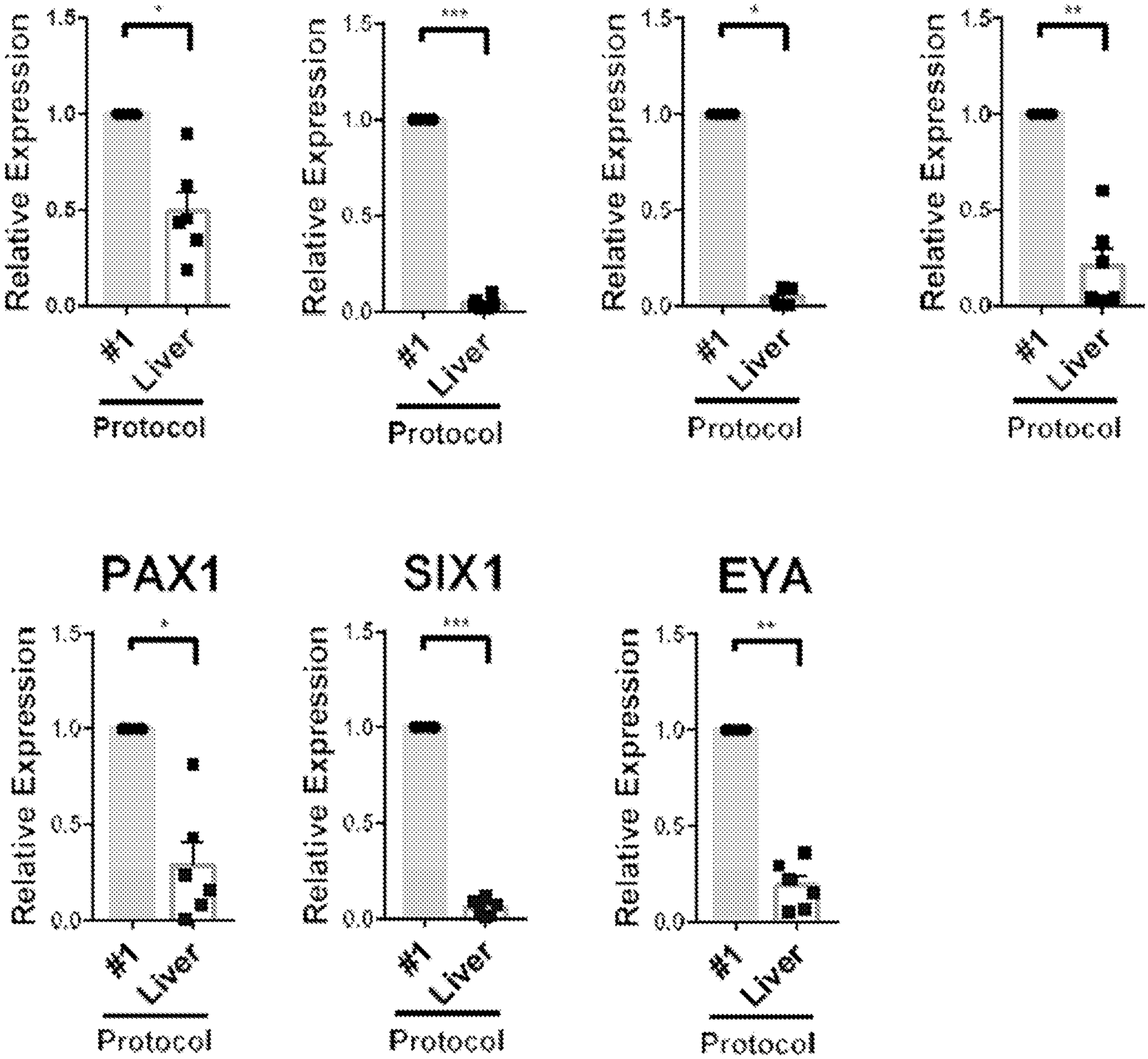
Figure 1D





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Figure 1E


FOXA2
HOXA3
TBX1
PAX9
PAX1
SIX1
EYA
Relative Expression
0.0
0.5
1.0
1.5
*
***
**
#1
Liver
Protocol

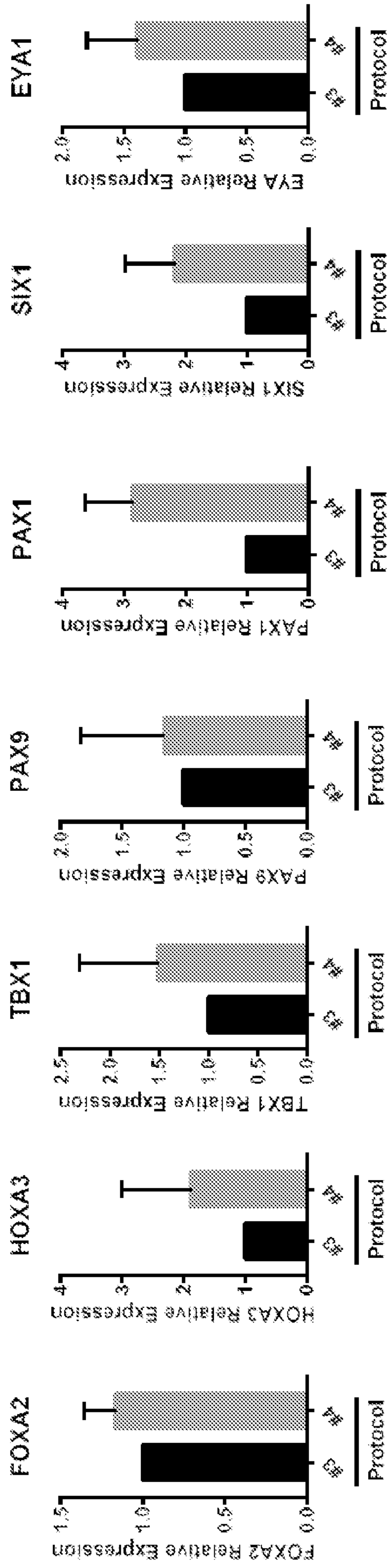
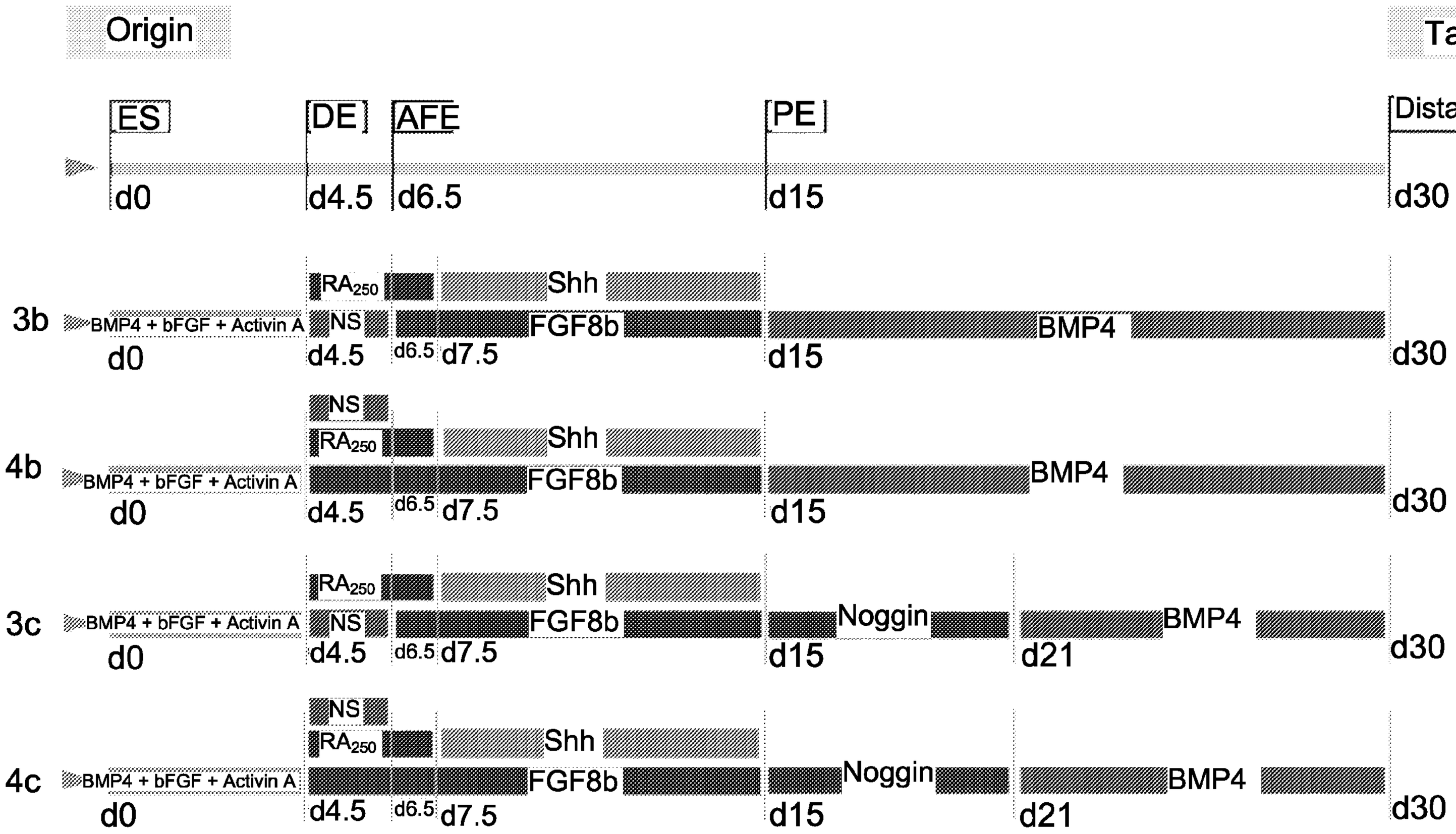

EYA1
EYA Relative Expression
2.0
1.5
1.0
0.5
0.0
Protocol
SIX1
SIX1 Relative Expression
PAX1
PAX1 Relative Expression
PAX9
PAX9 Relative Expression
TBX1
TBX1 Relative Expression
2.5
HOXA3
HOXA3 Relative Expression
FOXA2
FOXA2 Relative Expression

Figure 1F

Figure 2

Figure 2A



SUBSTITUTE SHEET (RULE 26)

Figure 2B

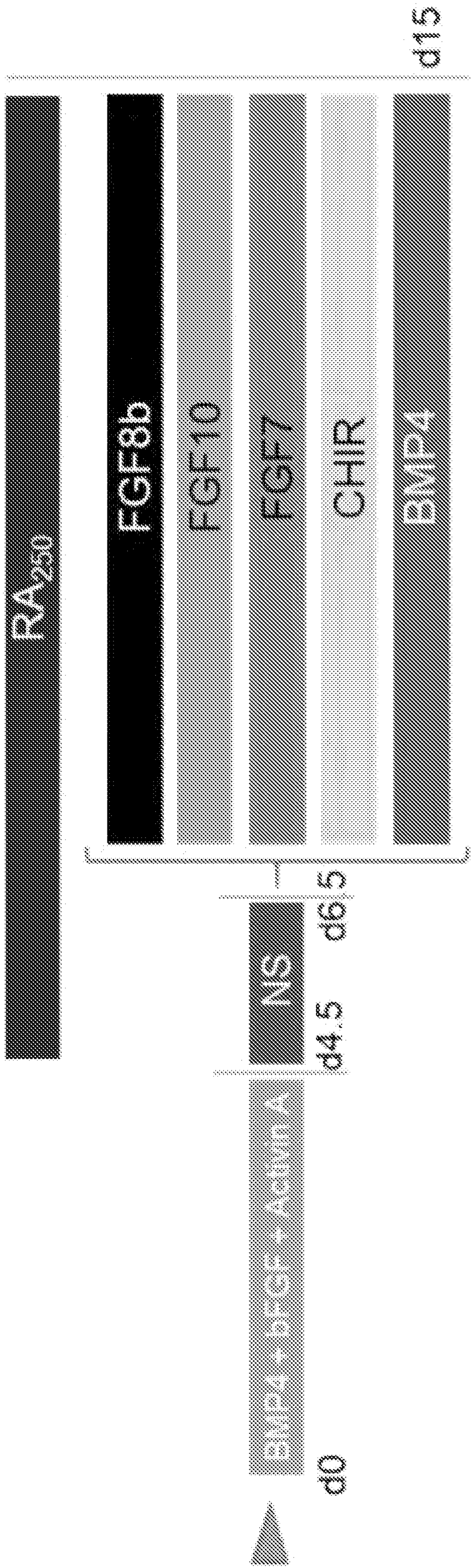
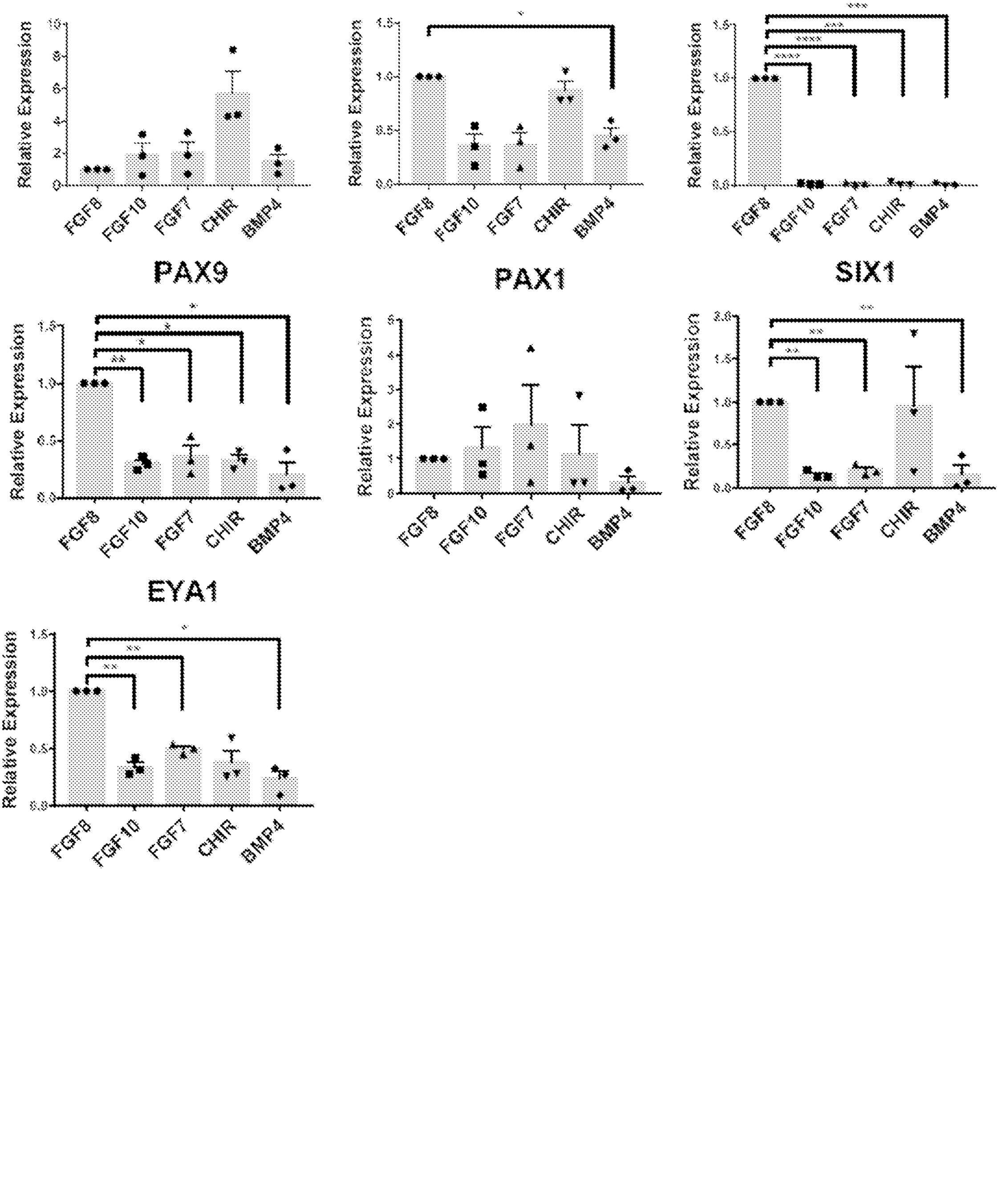


Figure 2C


FOXA2
HOXA3
TBX1
PAX9
PAX1
SIX1
EYA1
Relative Expression
FGF8
FGF10
FGF7
CHIR
BMP4

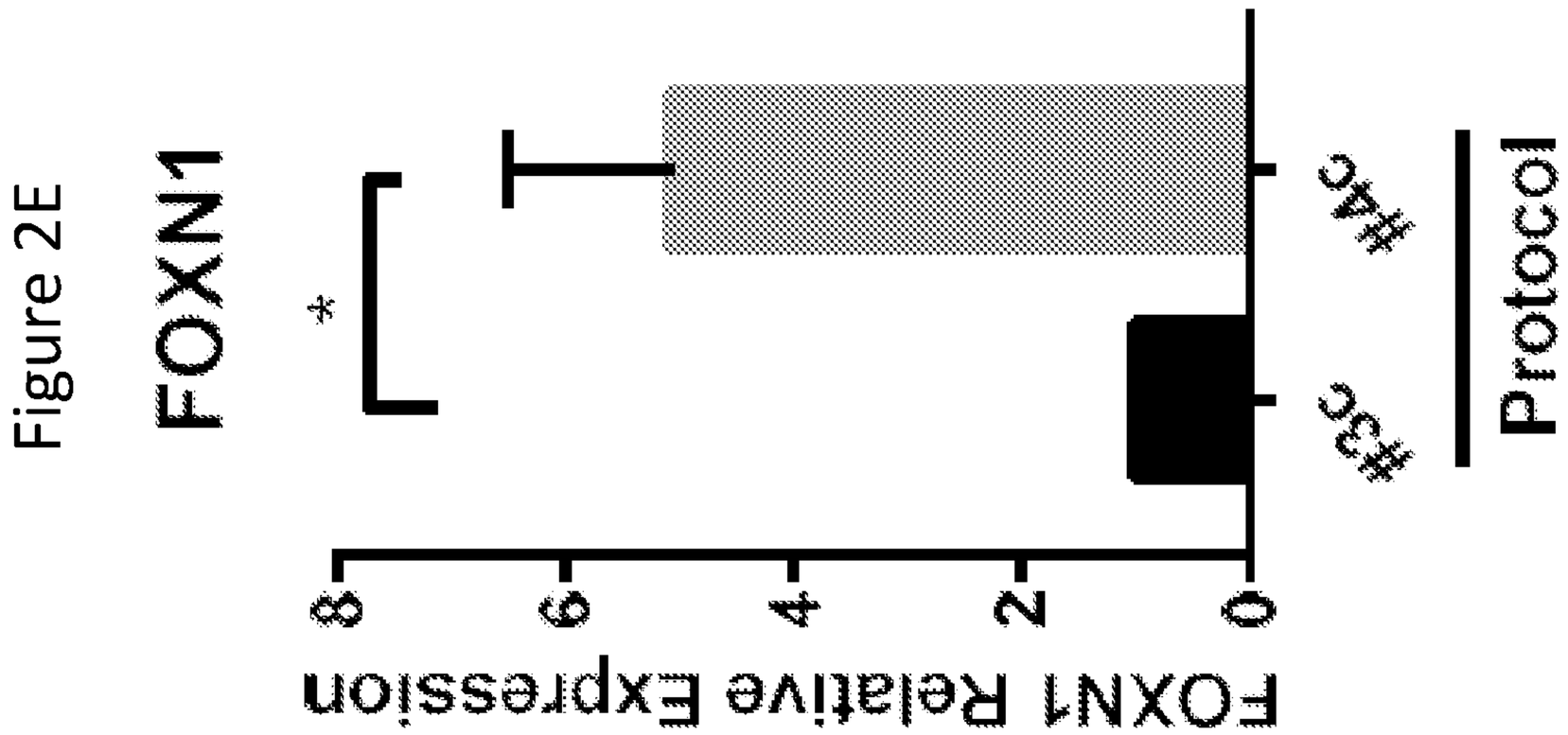


Figure 2E

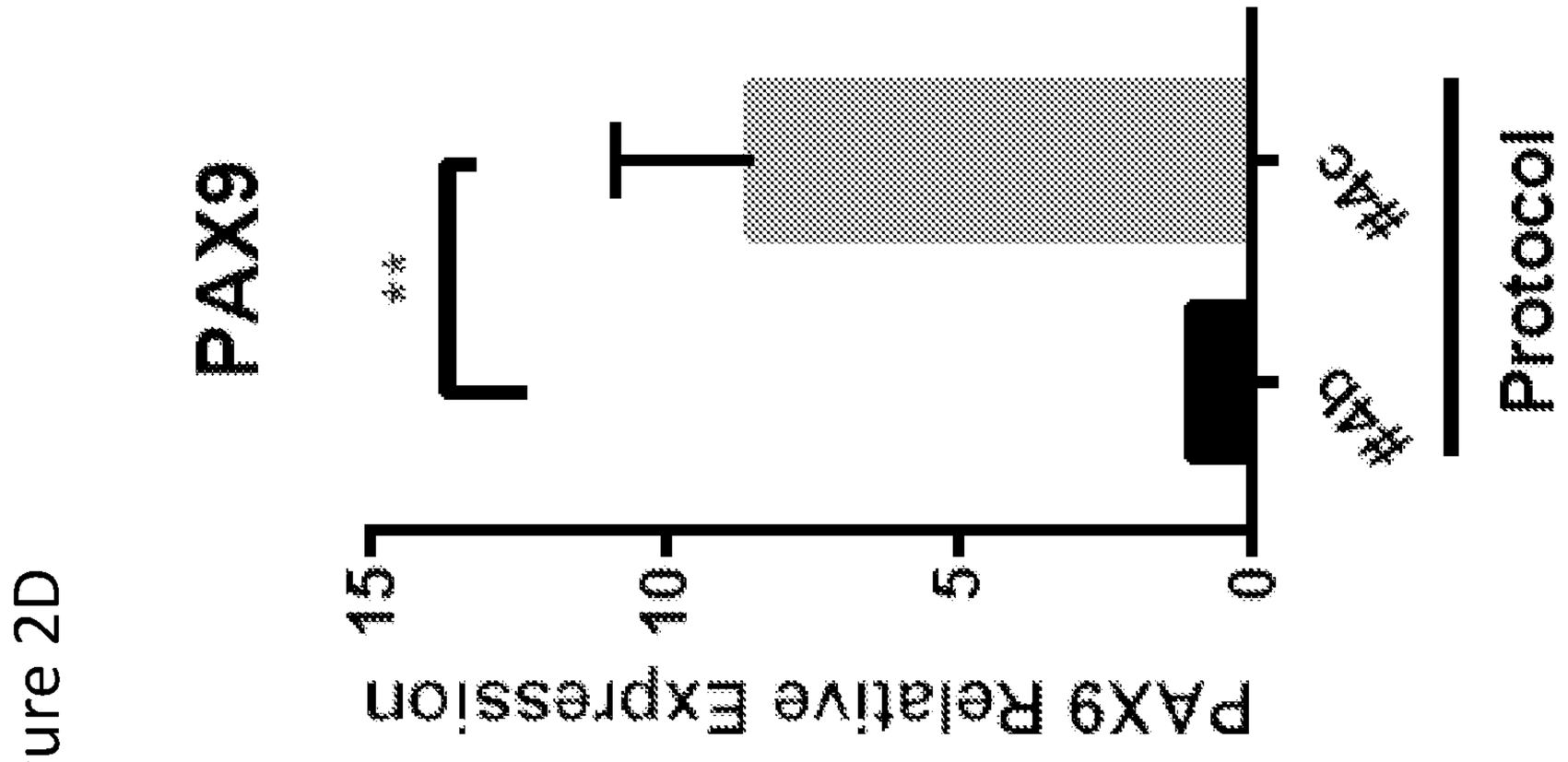


Figure 2D

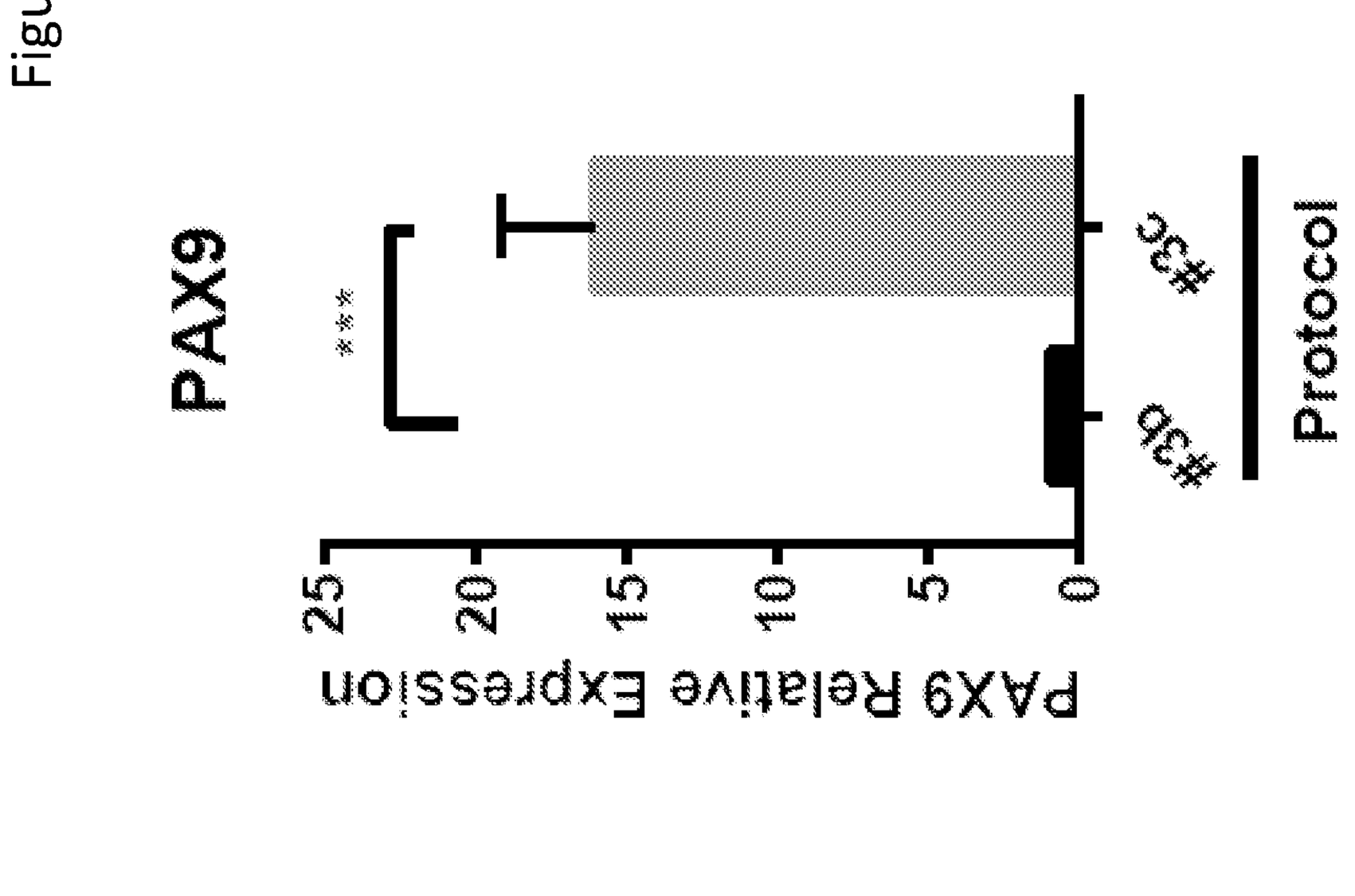


Figure 2F

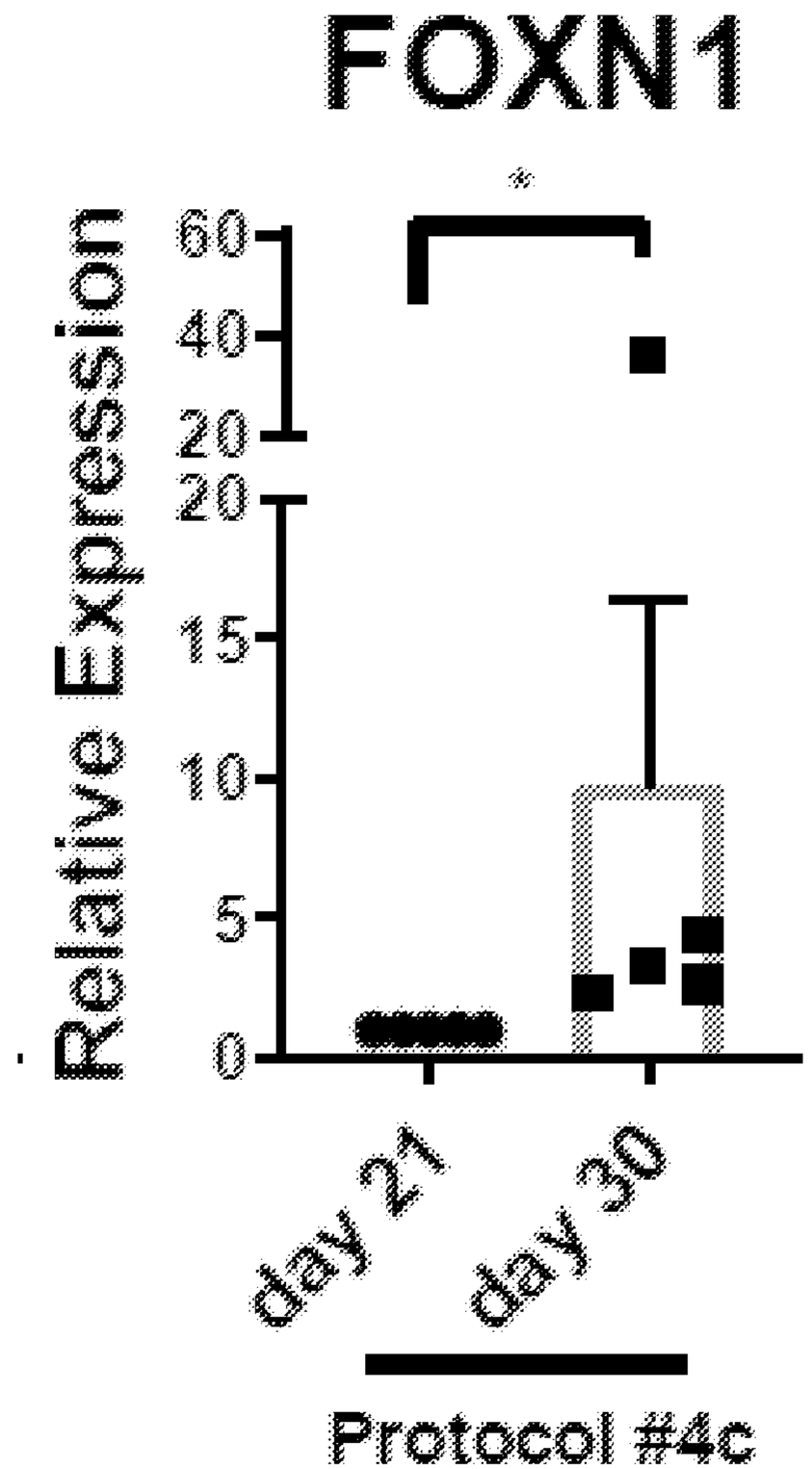


Figure 2G

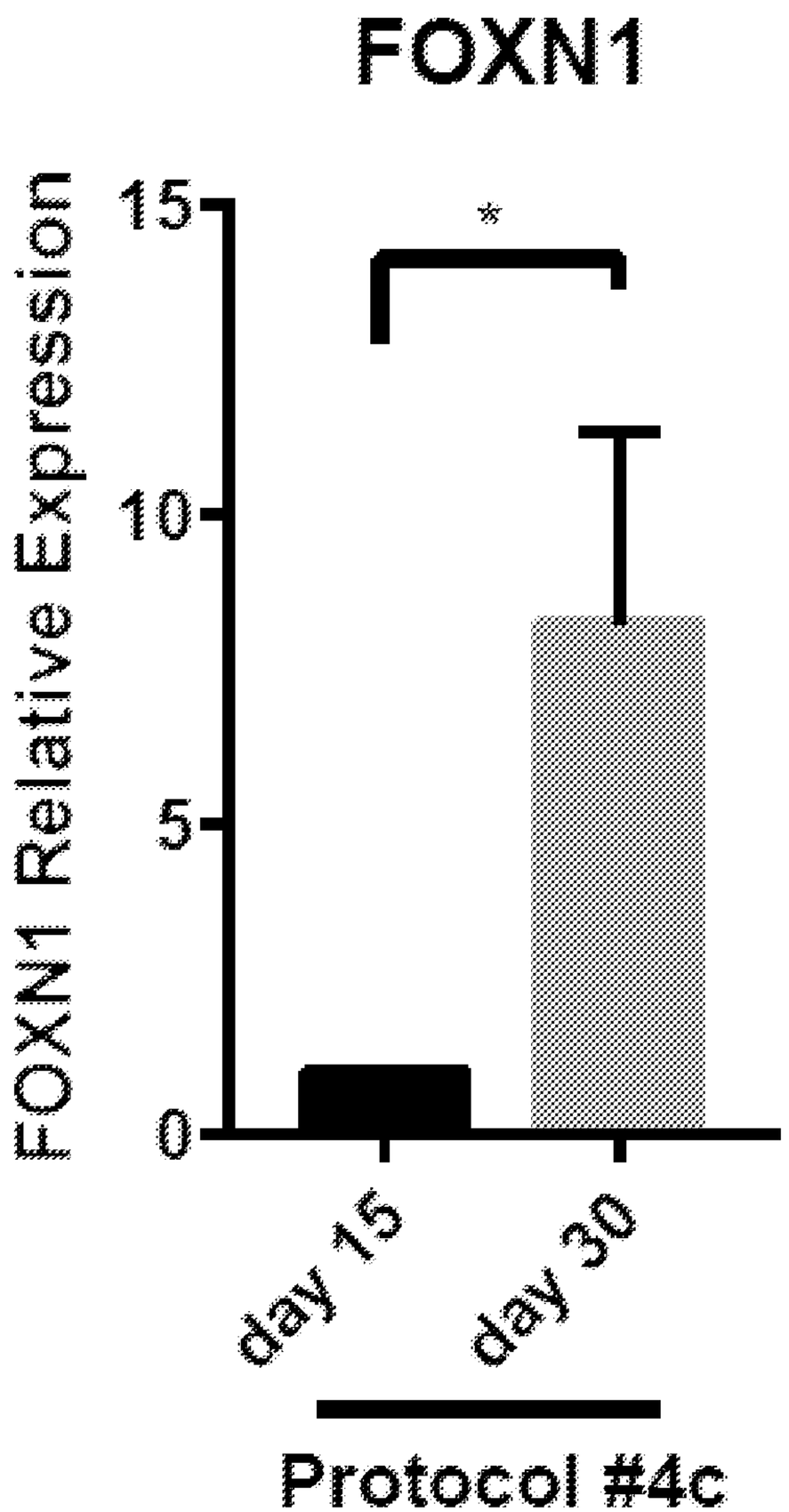
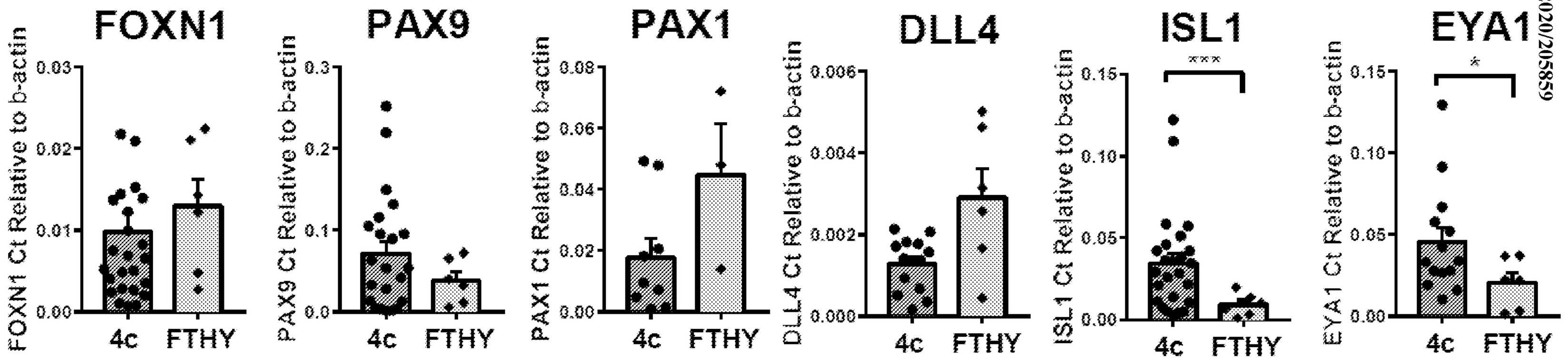


Figure 3

Figure 3A



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PCT/US2020/025955

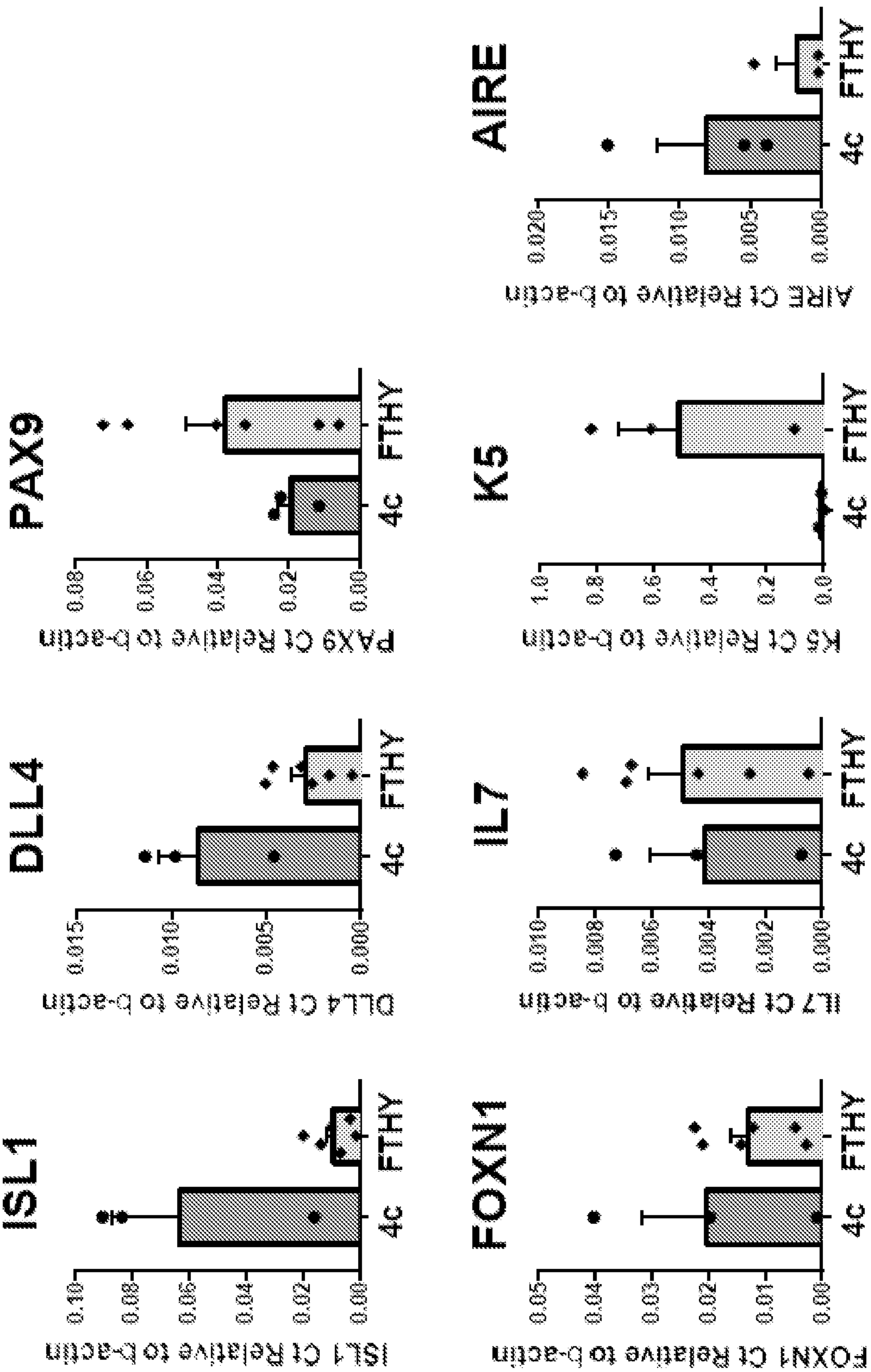

AIRE
AIRE Ct Relative to b-actin
0.020
0.015
0.010
0.005
0.000
4c
FTHY
PAX9
PAX9 Ct Relative to b-actin
0.08
0.06
0.04
0.02
0.00
4c
FTHY
K5
K5 Ct Relative to b-actin
1.0
0.8
0.6
0.4
0.2
0.0
4c
FTHY
DLL4
DLL4 Ct Relative to b-actin
0.015
0.010
0.005
0.000
4c
FTHY
IL7
IL7 Ct Relative to b-actin
0.010
0.008
0.006
0.004
0.002
0.000
4c
FTHY
ISL1
ISL1 Ct Relative to b-actin
0.10
0.08
0.06
0.04
0.02
0.00
4c
FTHY
FOXN1
FOXN1 Ct Relative to b-actin
0.05
0.04
0.03
0.02
0.01
0.00
4c
FTHY

Figure 3B

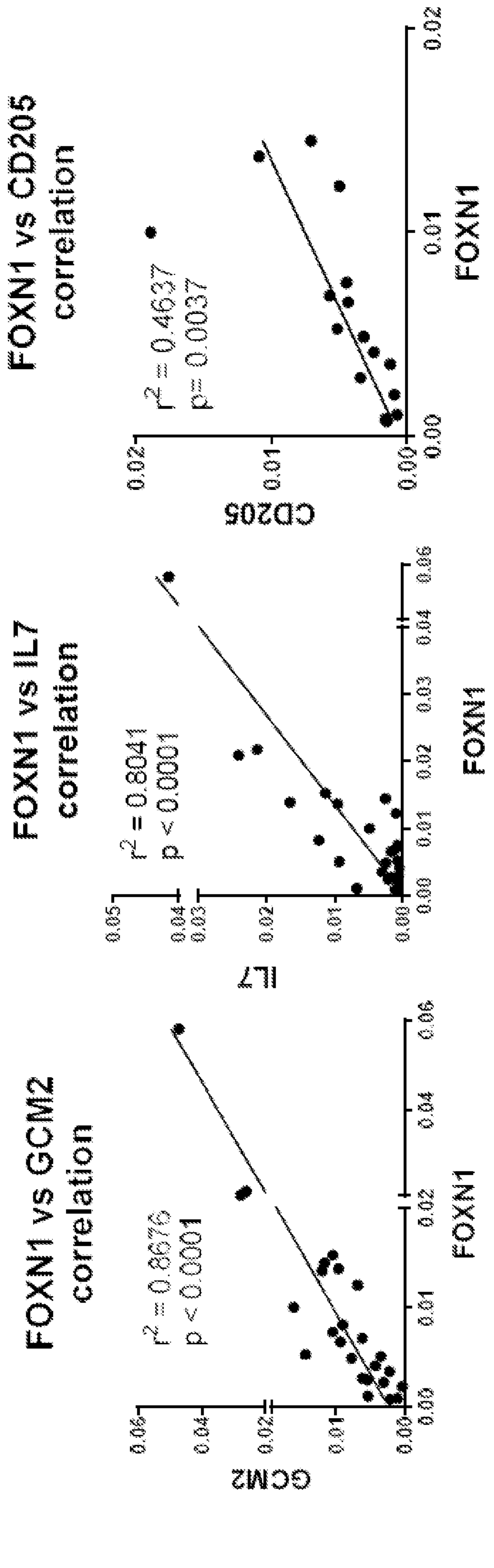

FOXN1 vs CD205
correlation
r^2 = 0.4637
p = 0.0037
FOXN1
CD205
0.02
0.01
0.00
FOXN1 vs IL7
correlation
r^2 = 0.8041
p < 0.0001
FOXN1
IL7
0.05
0.04
0.03
0.02
0.01
0.00
FOXN1 vs GCM2
correlation
r^2 = 0.8676
p < 0.0001
FOXN1
GCM2
0.06
0.04
0.02
0.01
0.00

Figure 3C

Figure 4

Figure 4A



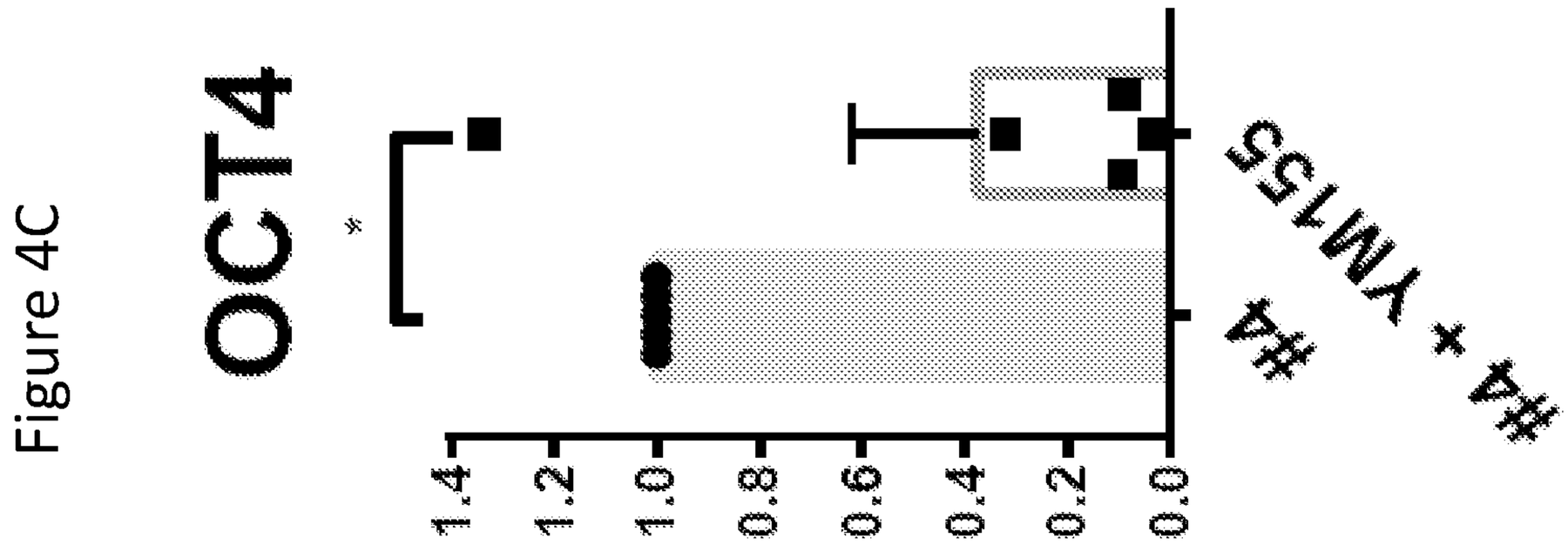


Figure 4C

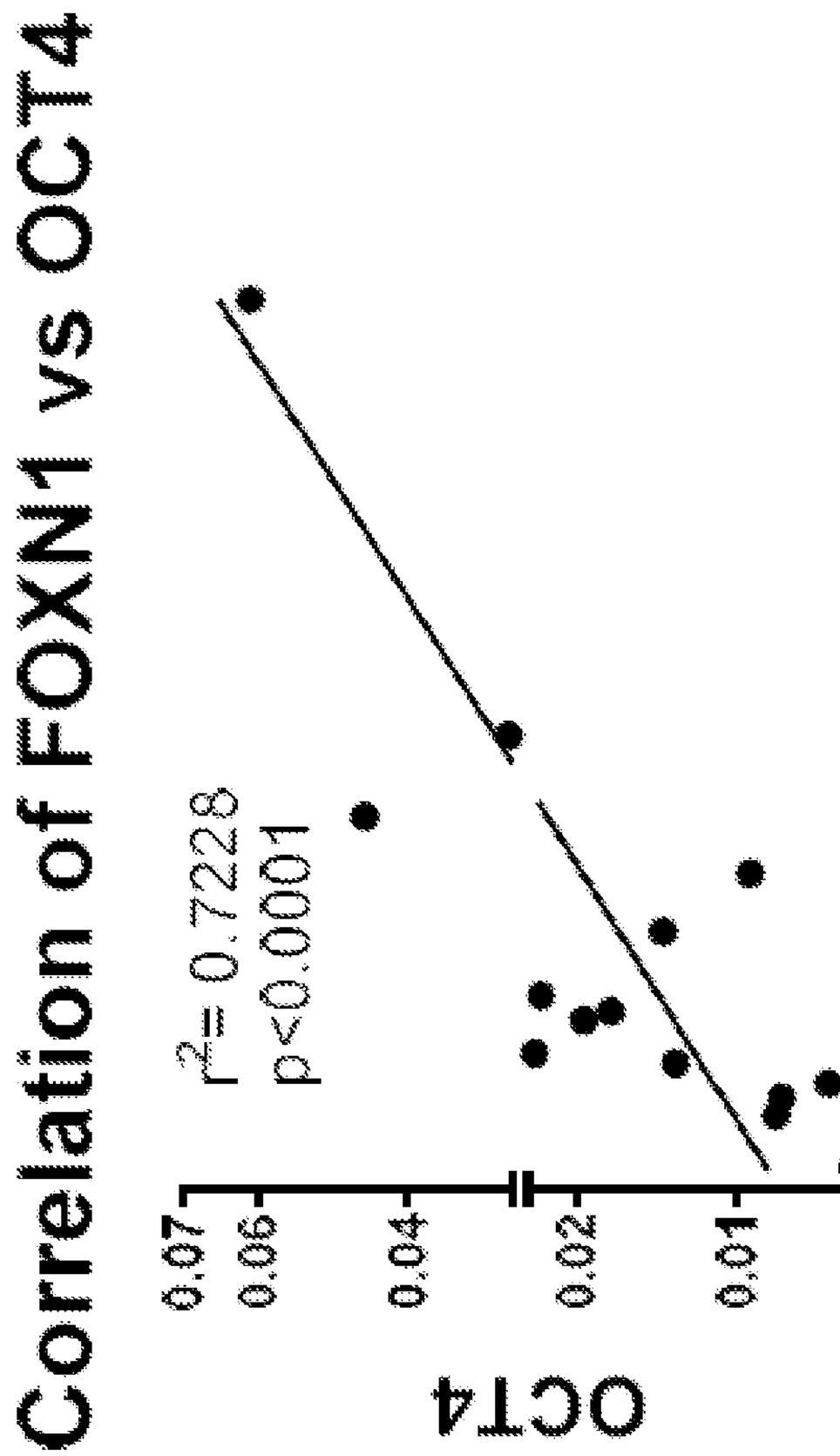


Figure 4B

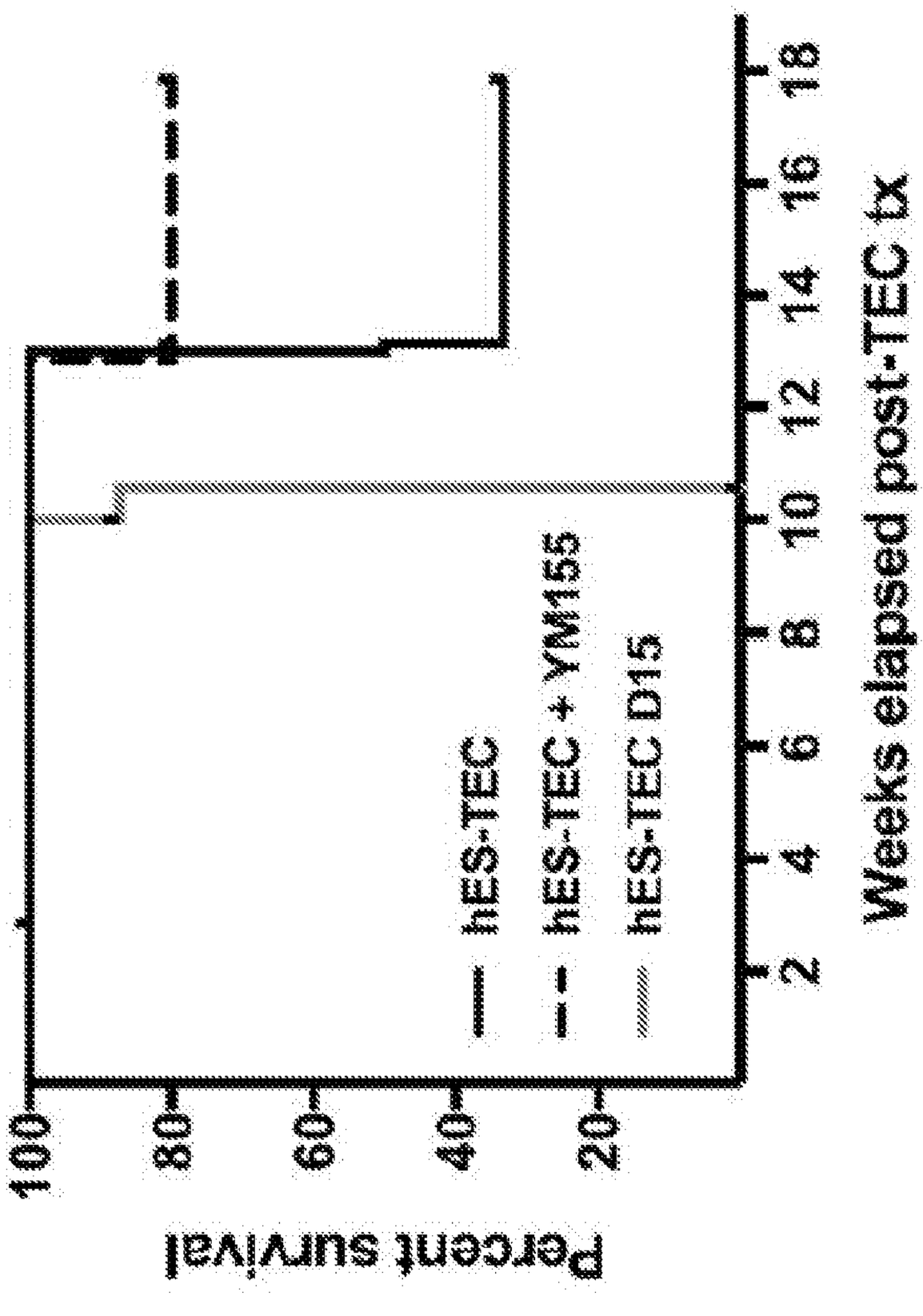

Percent survival
100
80
60
40
20
hES-TEC
hES-TEC + YM155
hES-TEC D15
2
4
6
8
10
12
14
16
18
Weeks elapsed post-TEC tx

Figure 4D

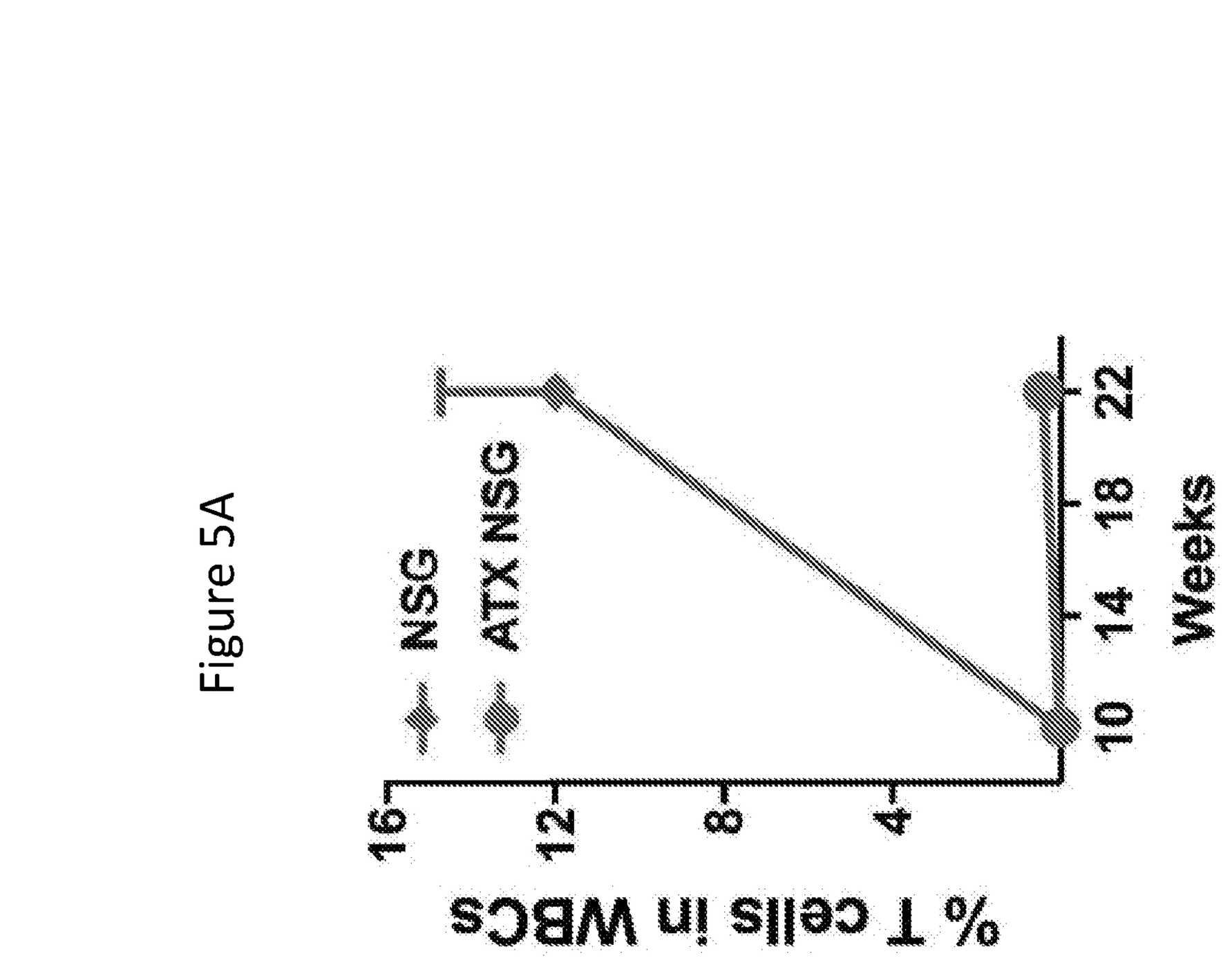


Figure 5A

Figure 5

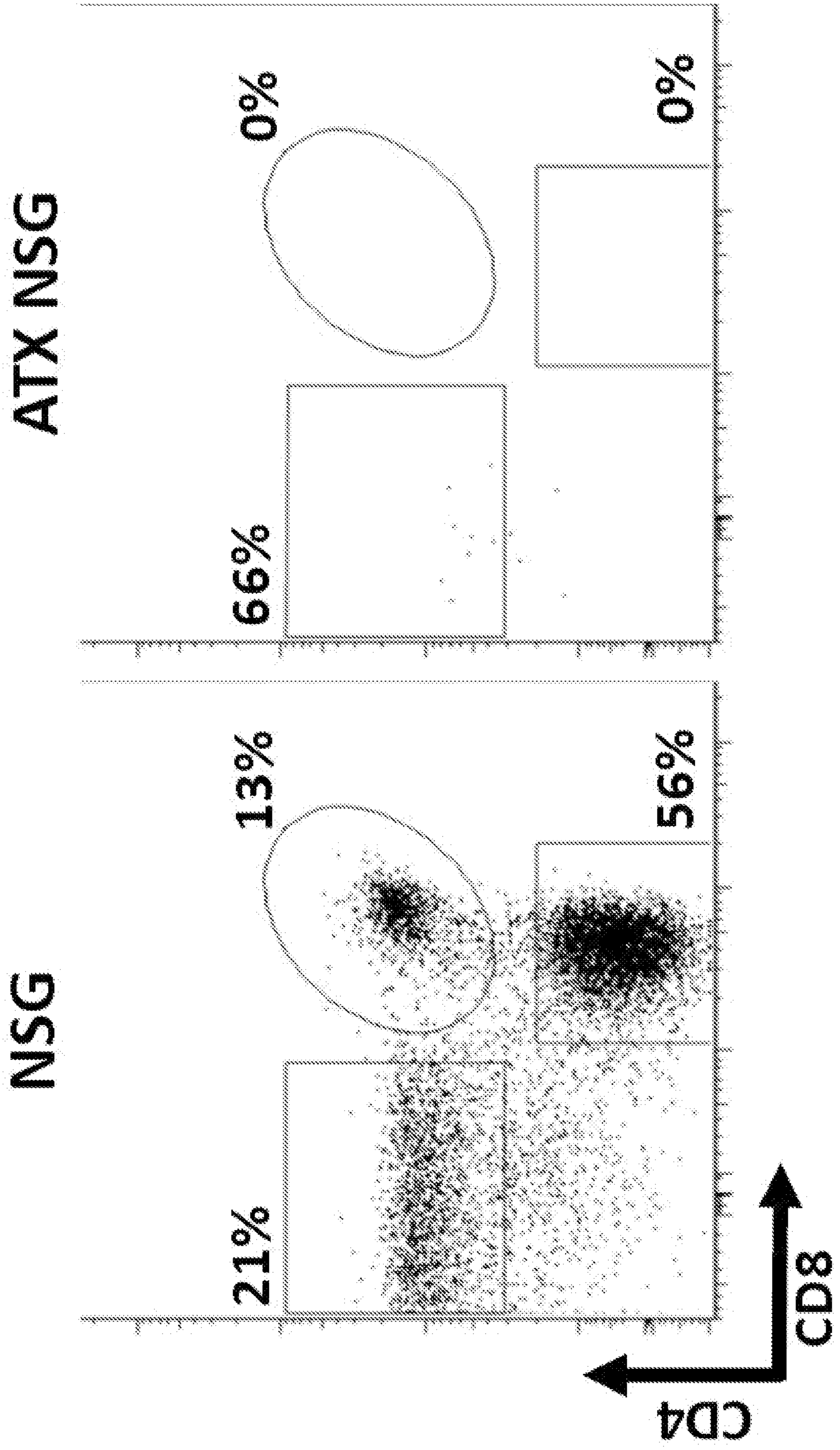


Figure 5B

Figure 5C

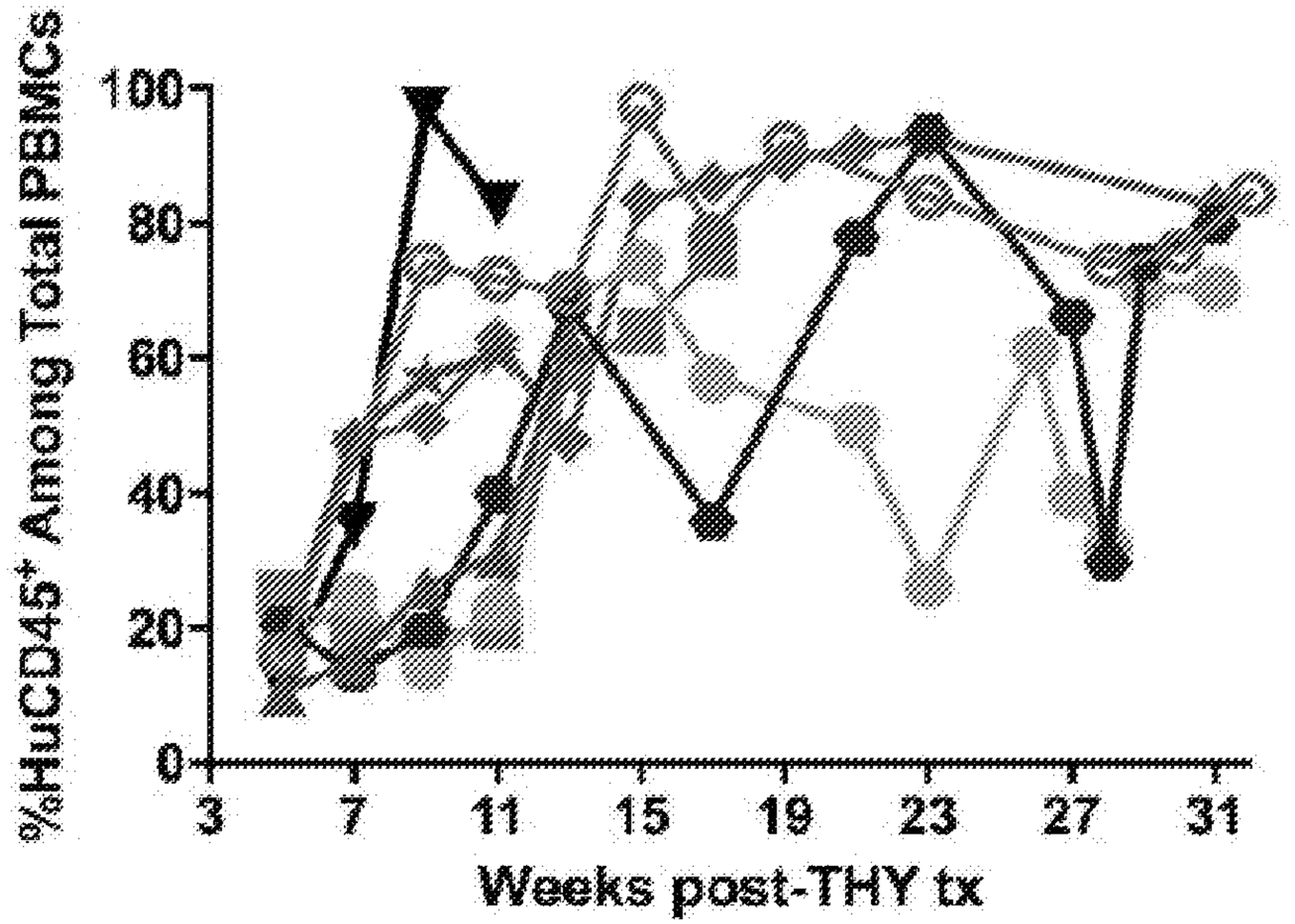


Figure 5D

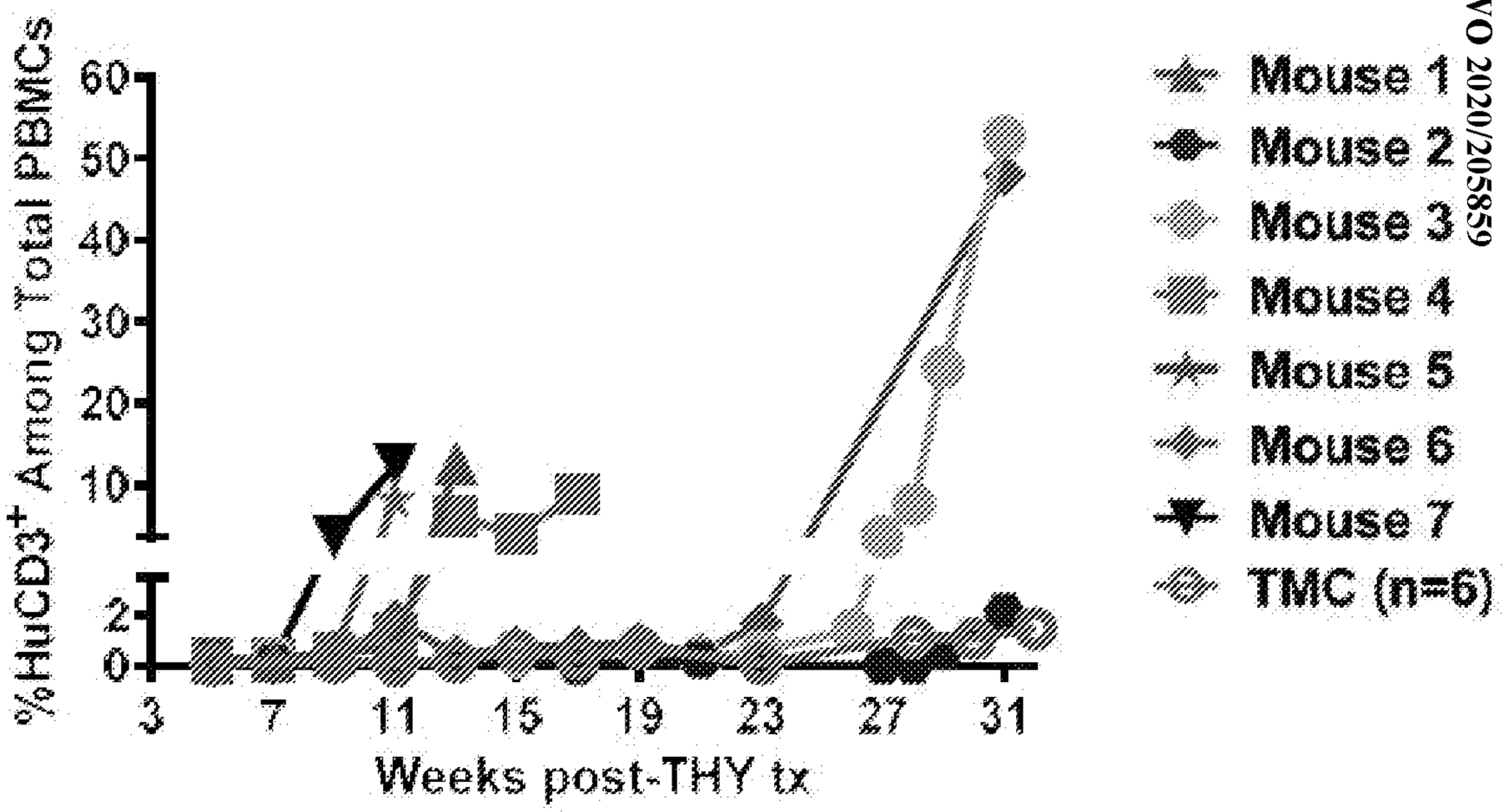


Figure 5E

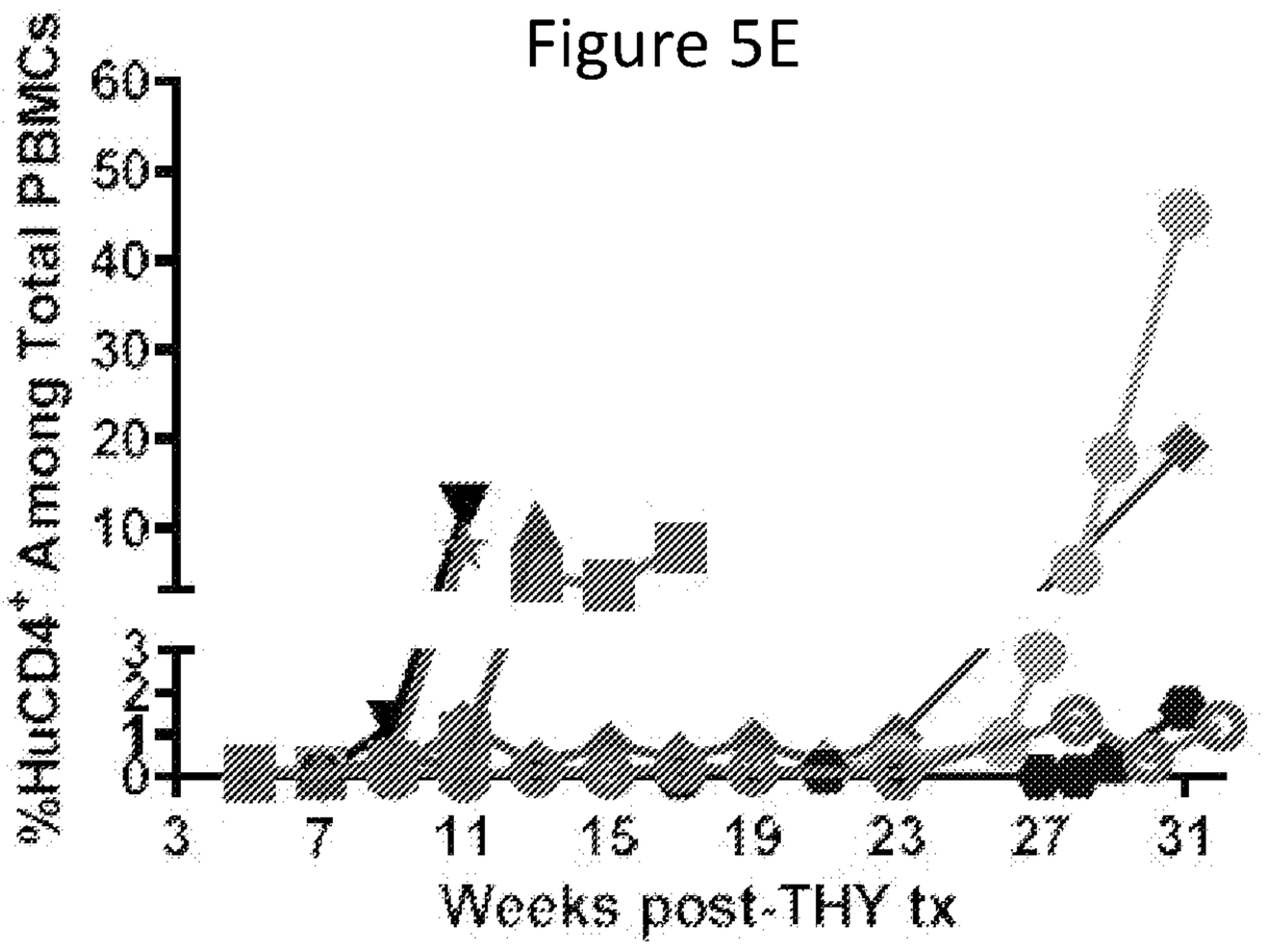
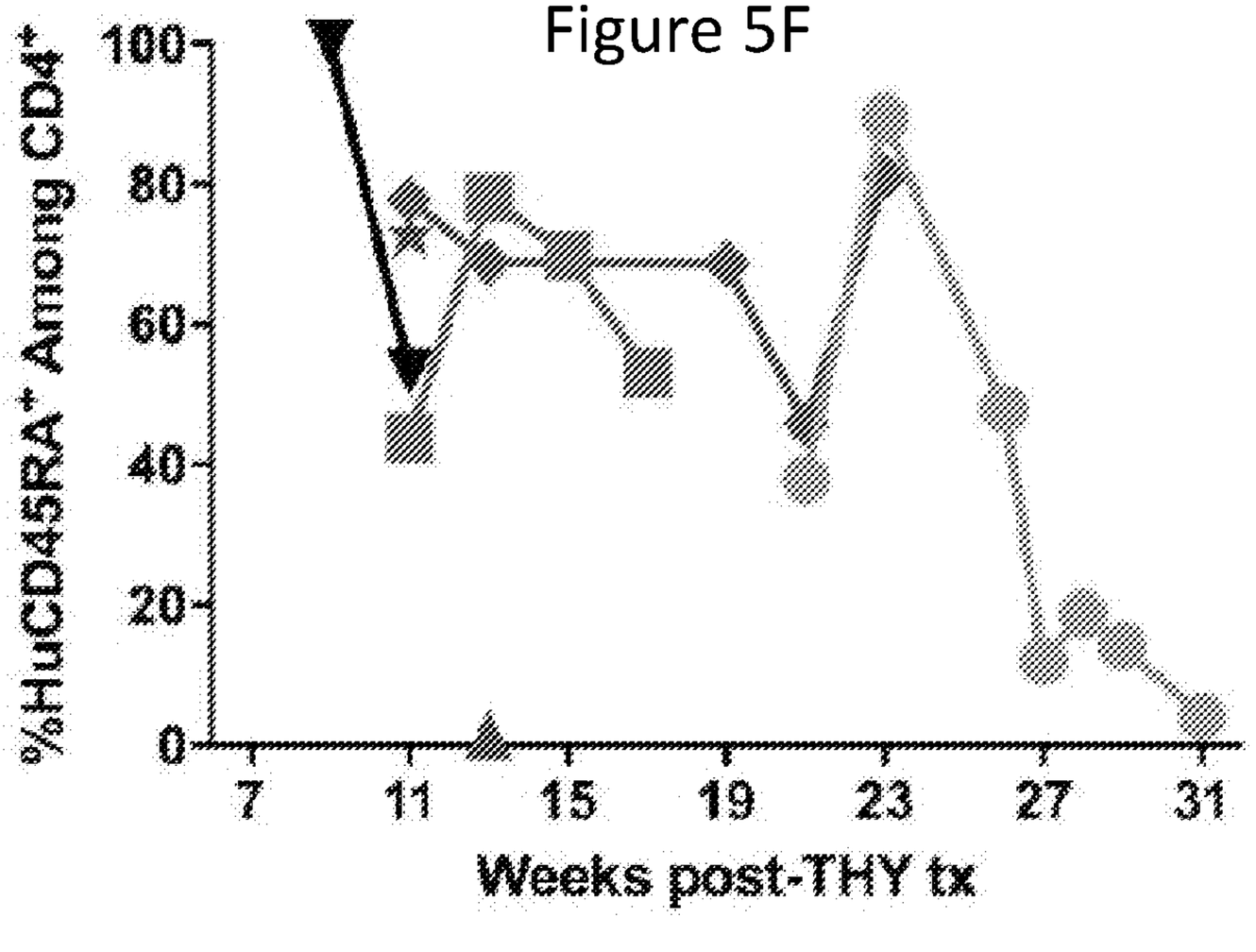


Figure 5F



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PCT/US2020/025955

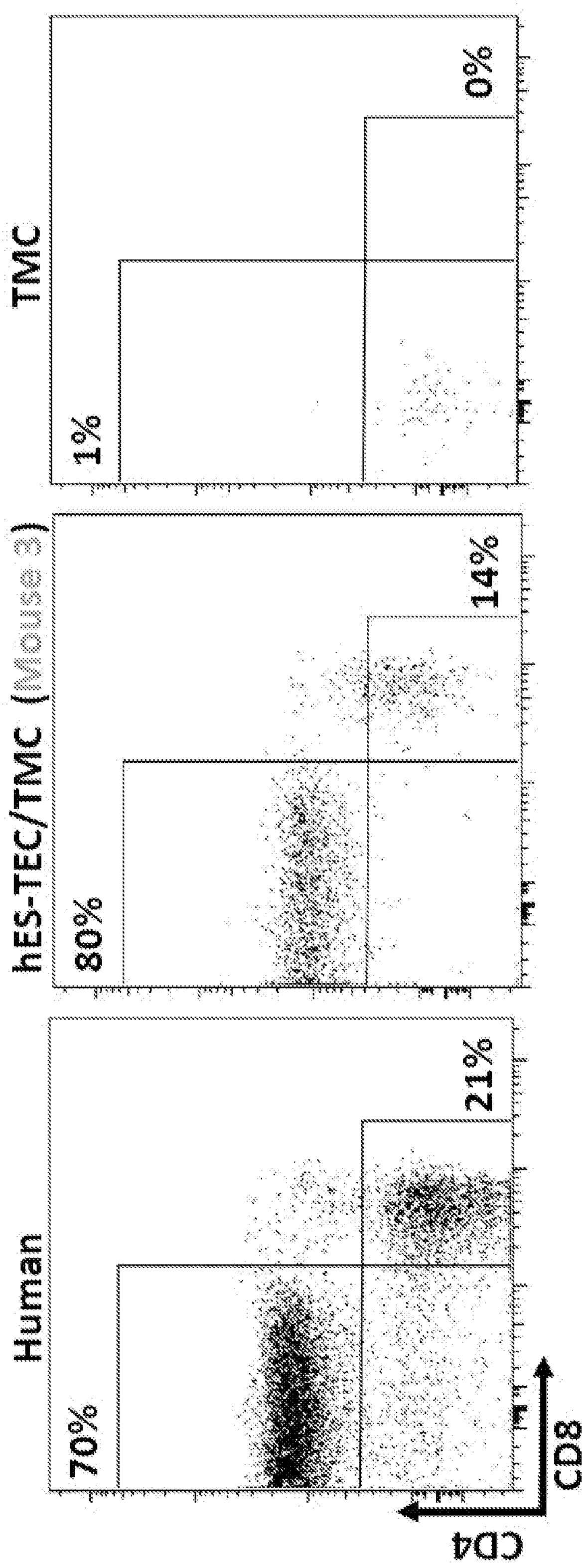
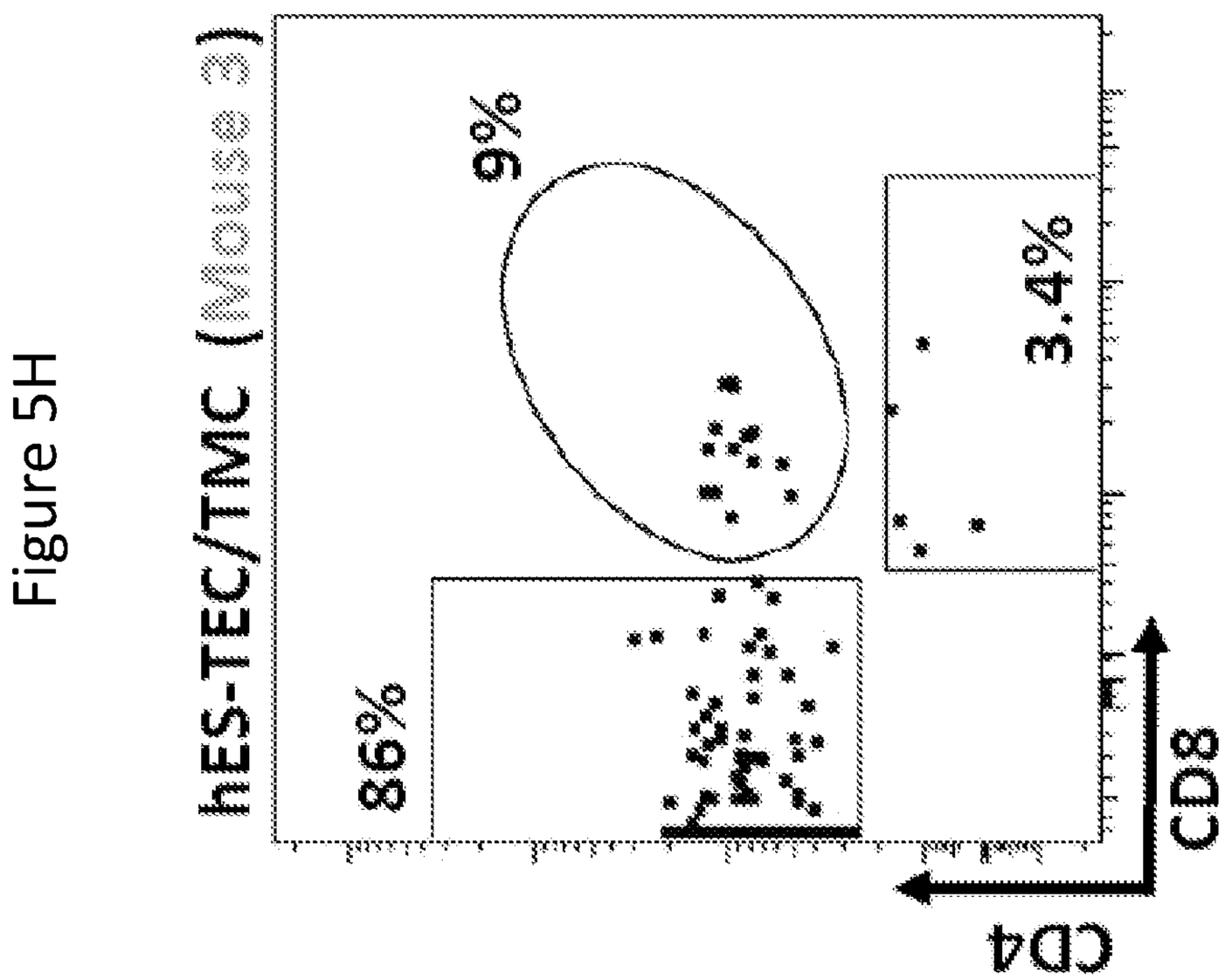


Figure 5G

Figure 5H



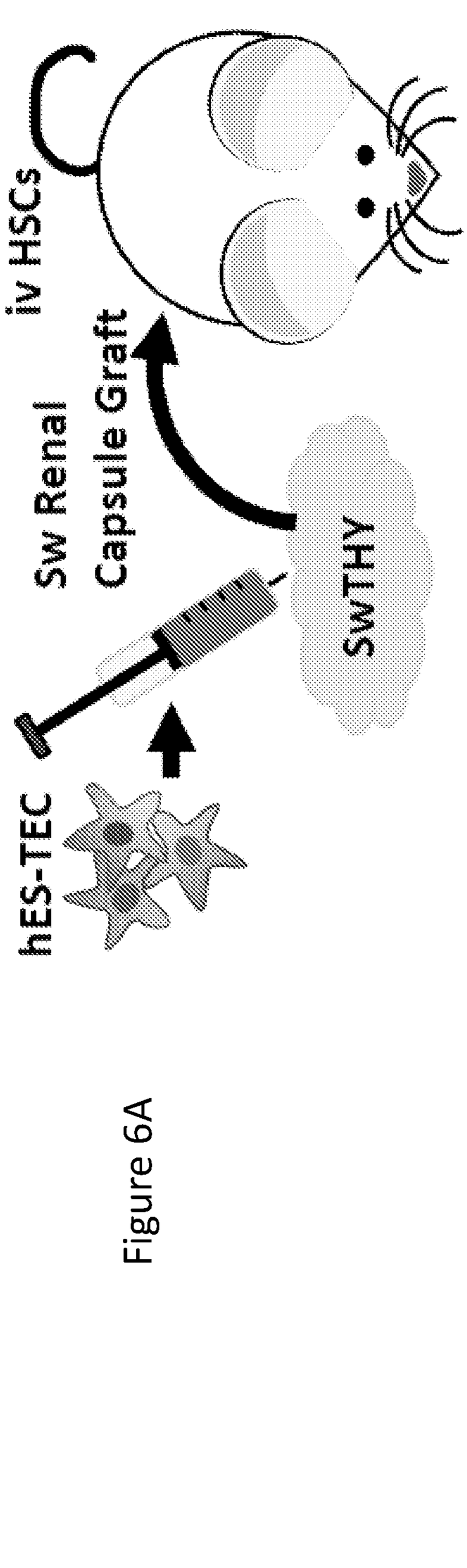


Figure 6A

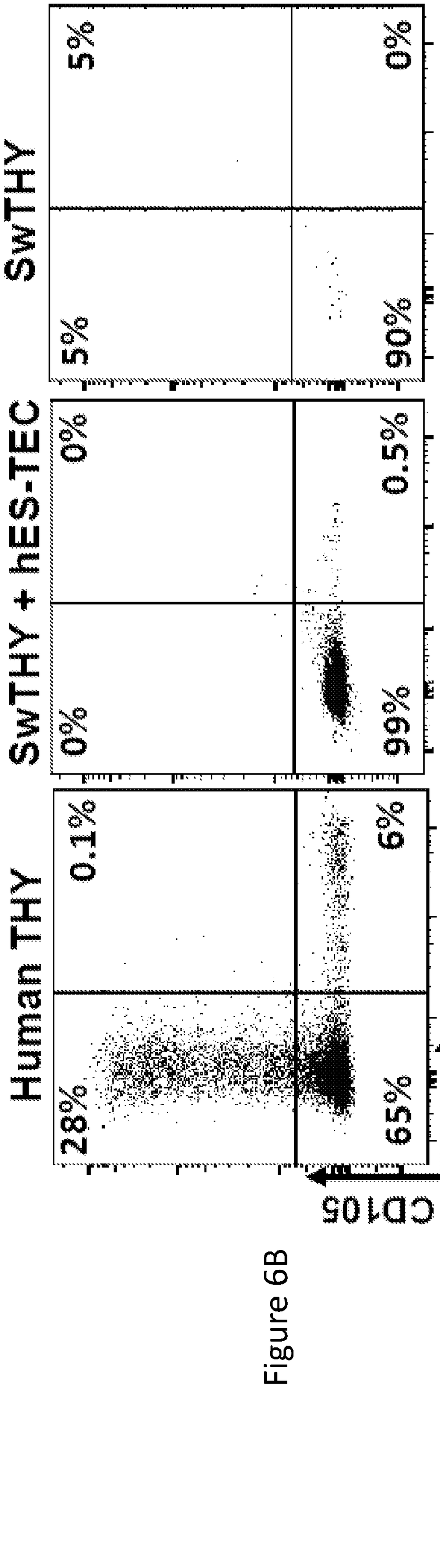
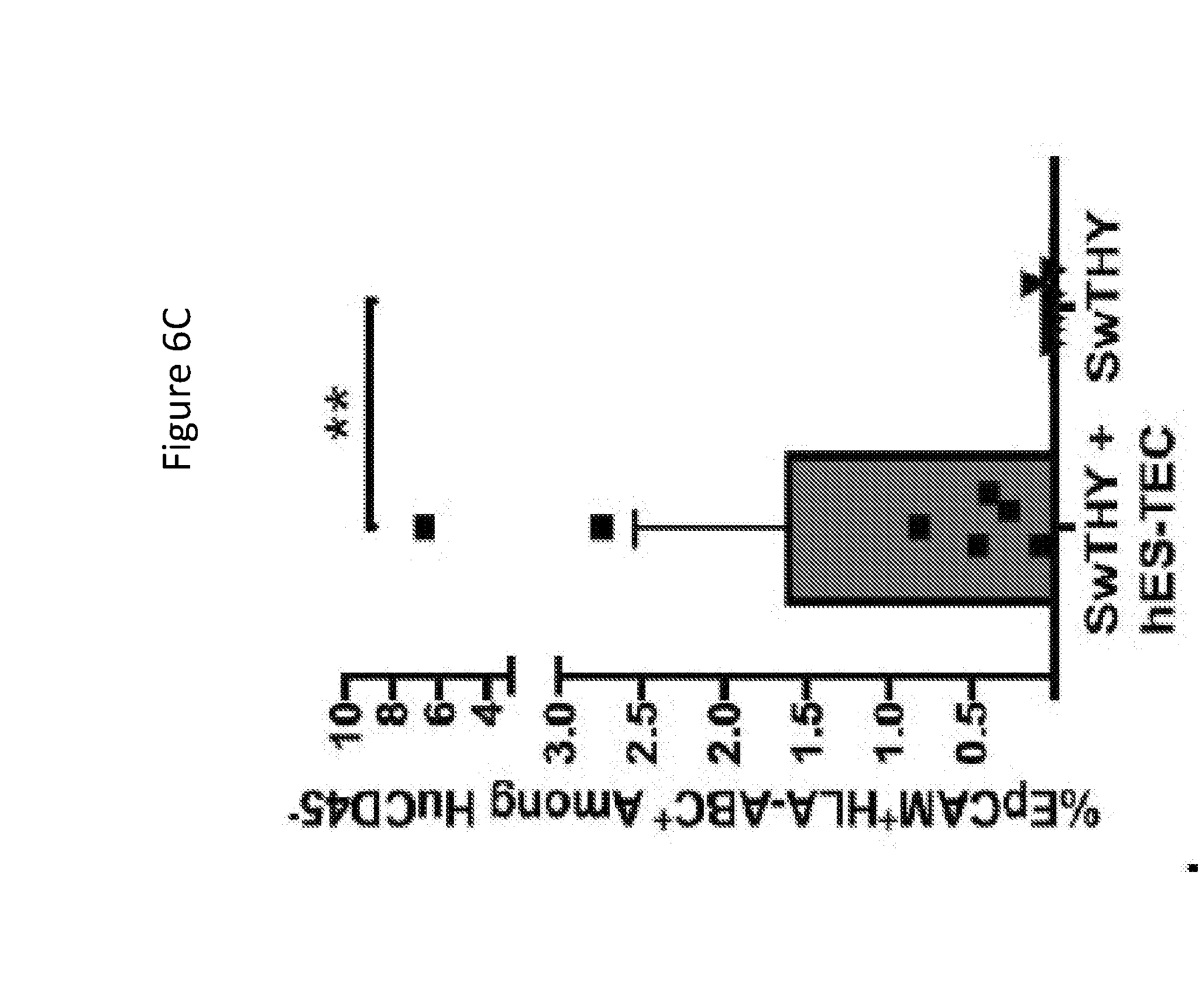


Figure 6B

Figure 6


Figure 6C
**
% EpCAM+HLA-ABC+ among HuCD45-
3.0
2.5
2.0
1.5
1.0
0.5
0
SwTHY + CHES-TEC
SwTHY

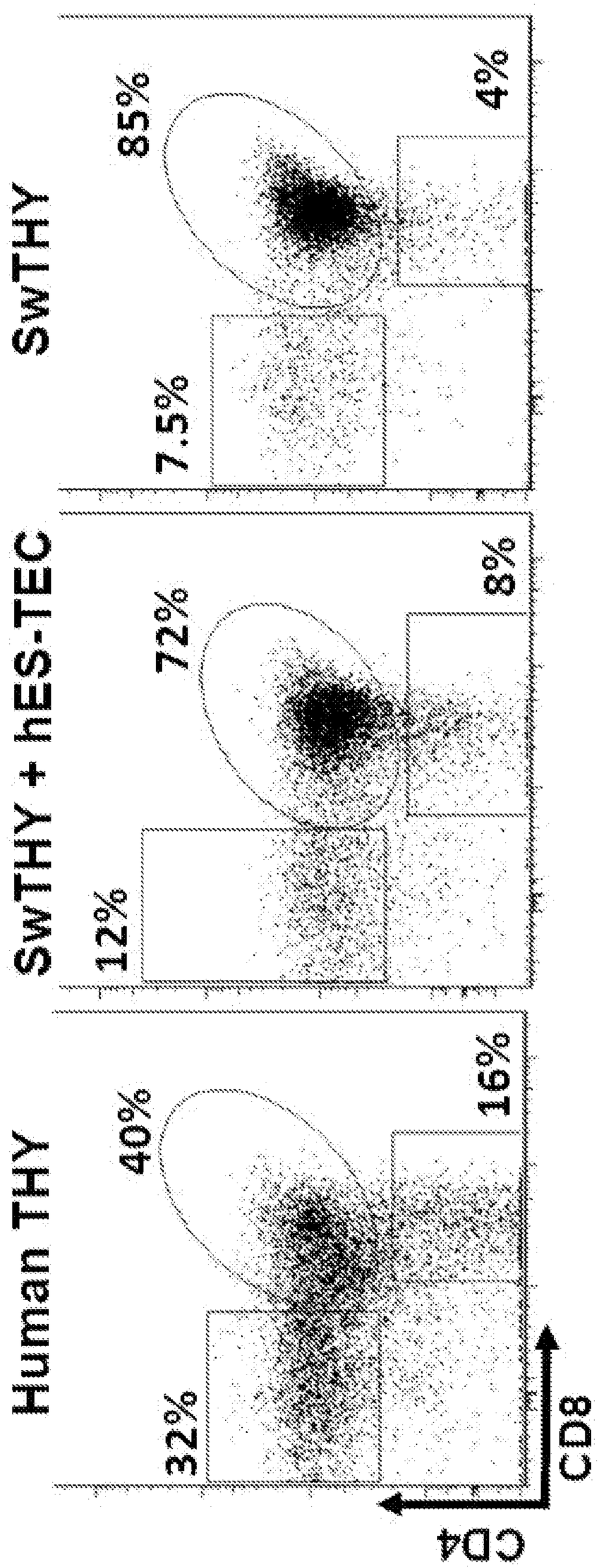

Human THY
SwTHY
Human THY + hES-TEC
SwTHY + hES-TEC
40%
16%
32%
12%
72%
8%
12%
85%
4%
7.5%
CD4
CD8

Figure 6D

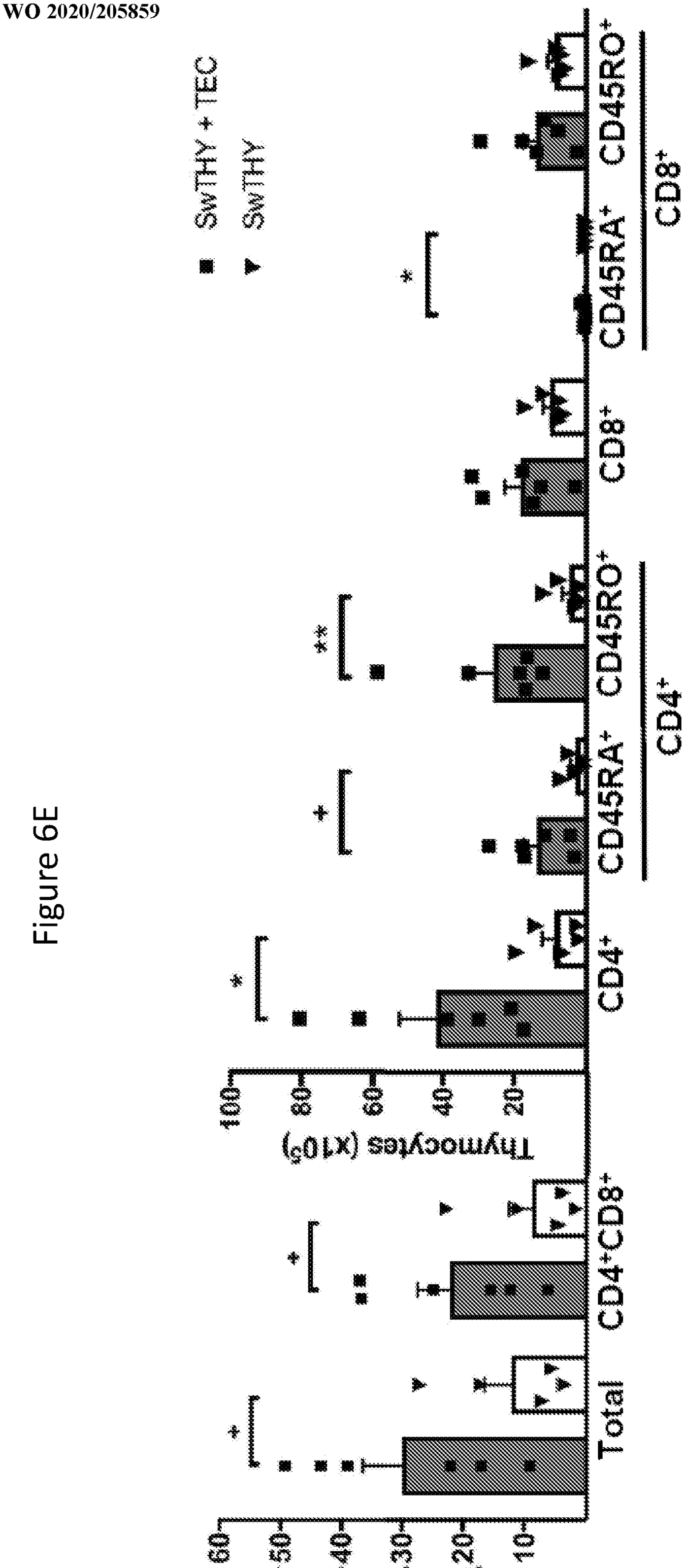

SwTHY + TEC
SwTHY
CD45RA+ CD45RO+ CD8+
CD45RA+ CD45RO+ CD4+
CD4+ CD8+
Total CD4+CD8+
Thymocytes (x10^5)
Thymocytes (x10^6)

Figure 6E

Figure 6G

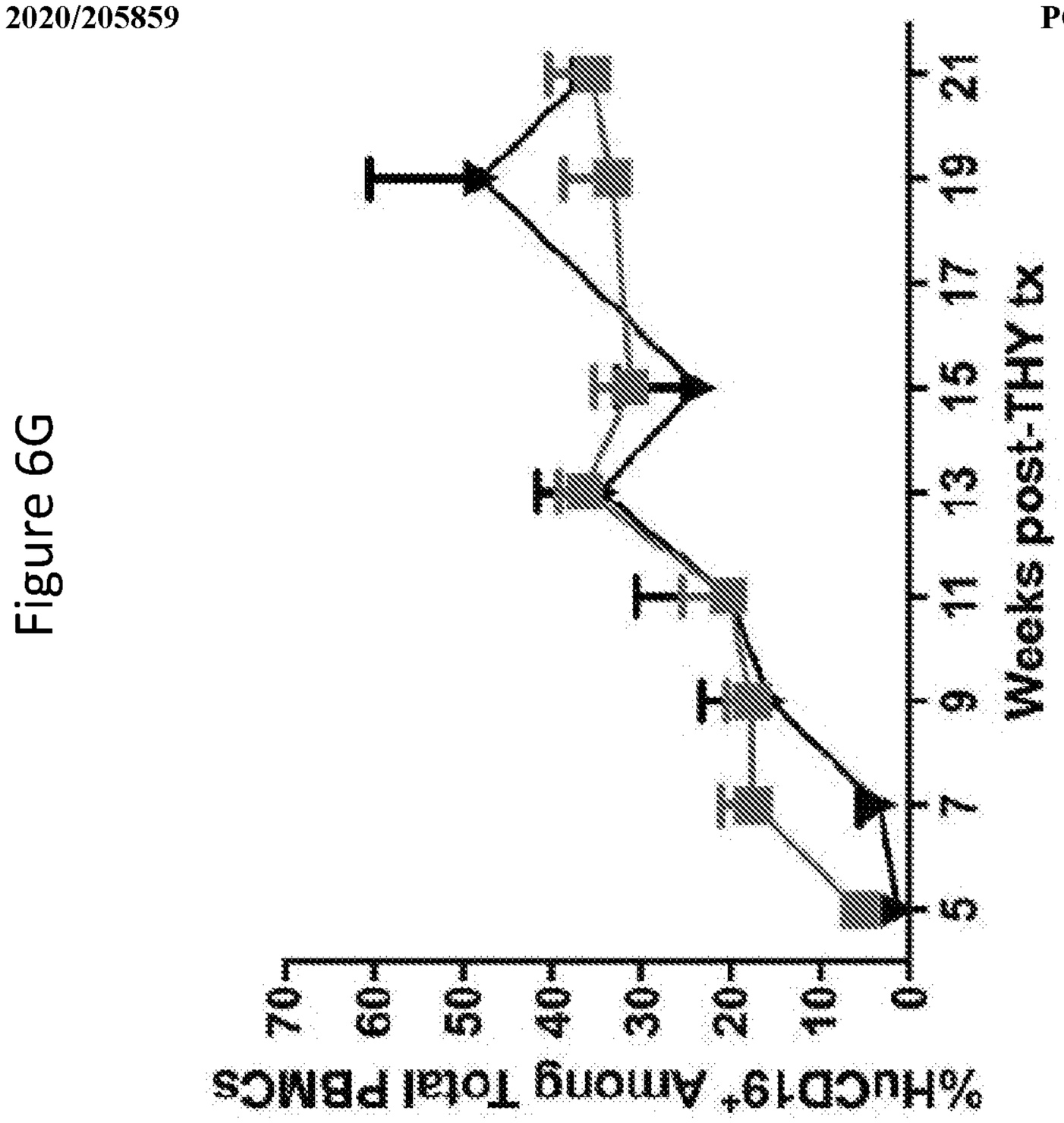
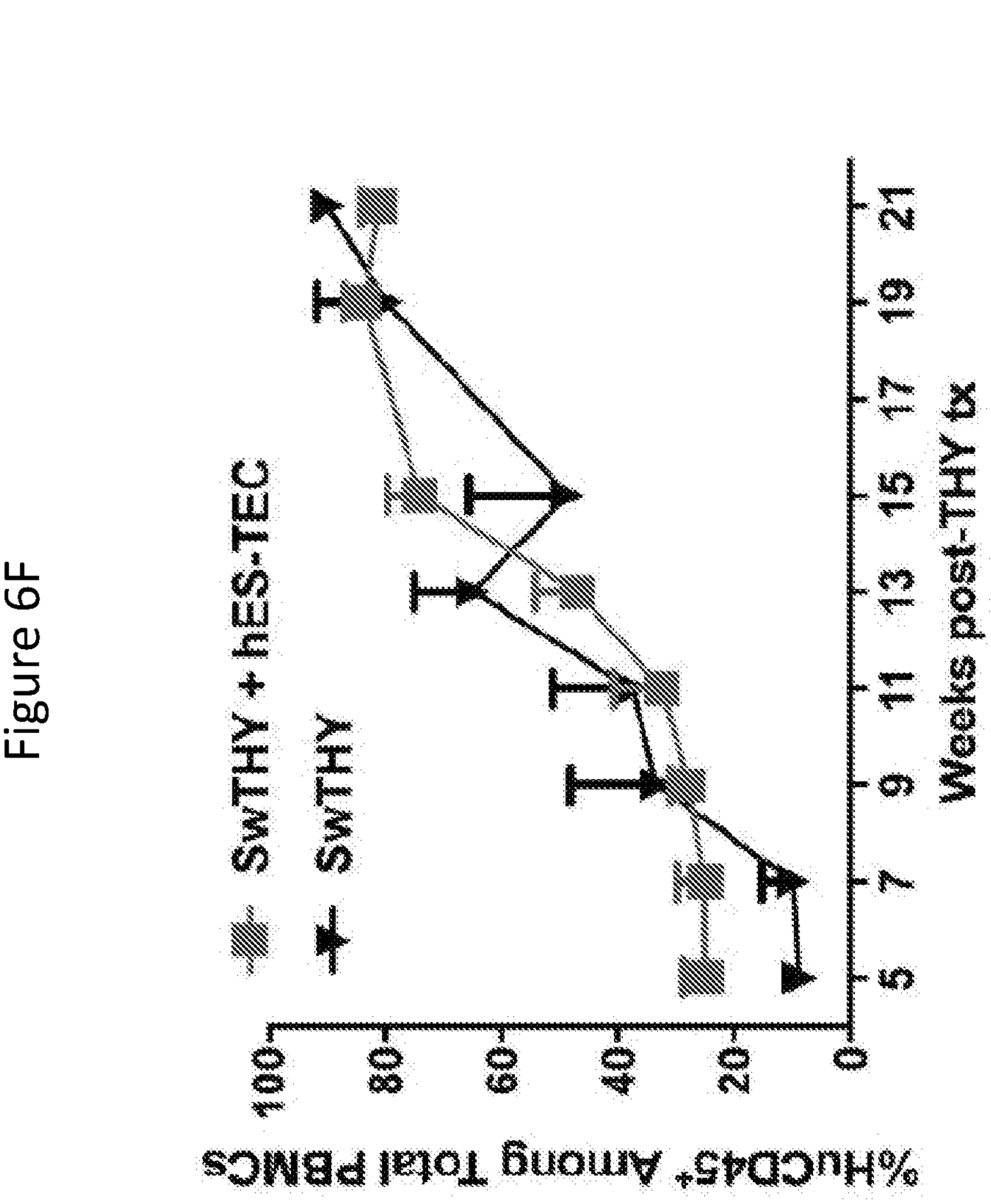
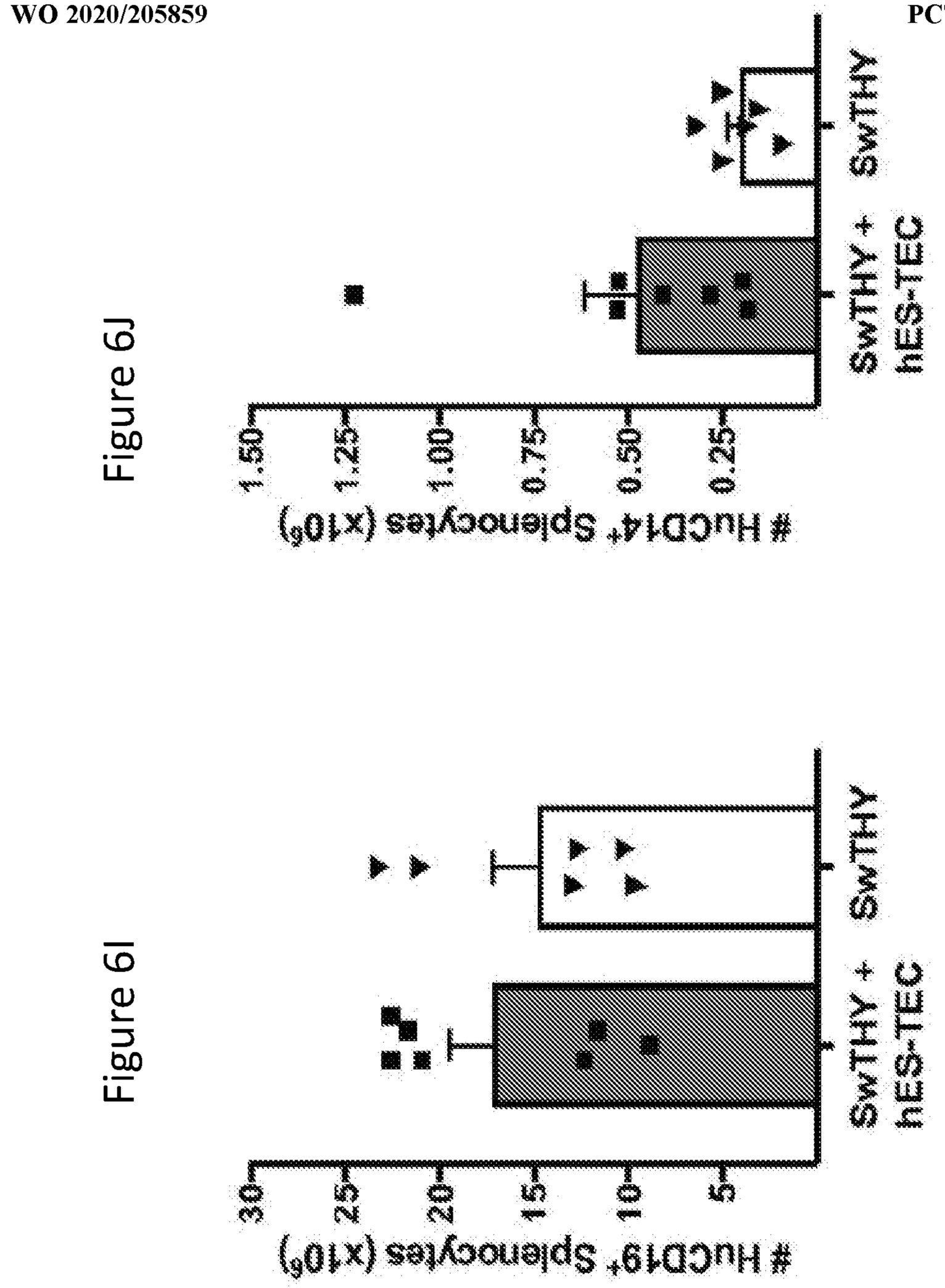


Figure 6F




Figure 6J
HuCD19+ Splenocytes (x10⁶)
30
25
20
15
10
5
SwTHY
SwTHY + hES-TEC

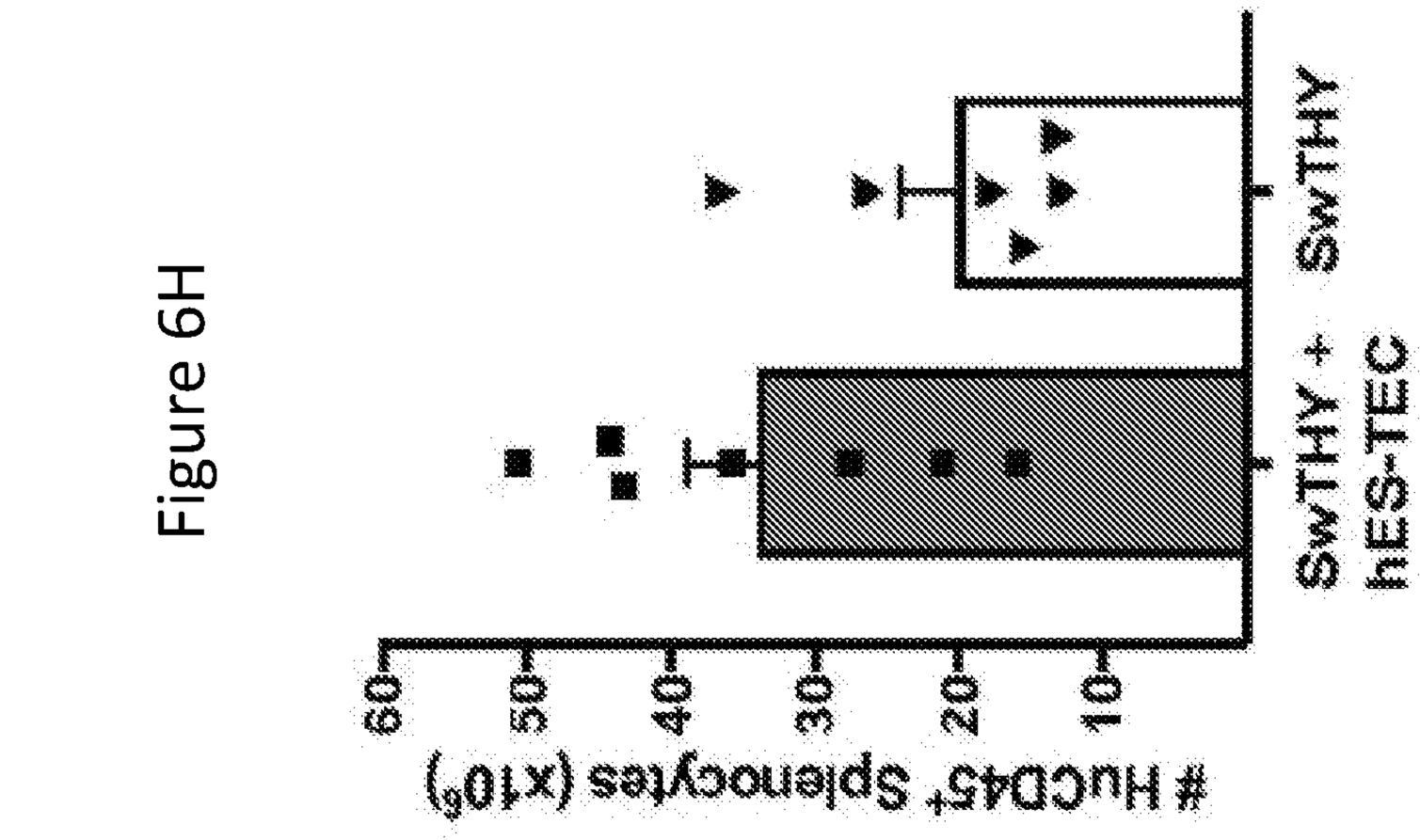

Figure 6H
HuCD45+ Splenocytes (x10⁶)
60
50
40
30
20
10
SwTHY
SwTHY + hES-TEC

Figure 7

Figure 7A

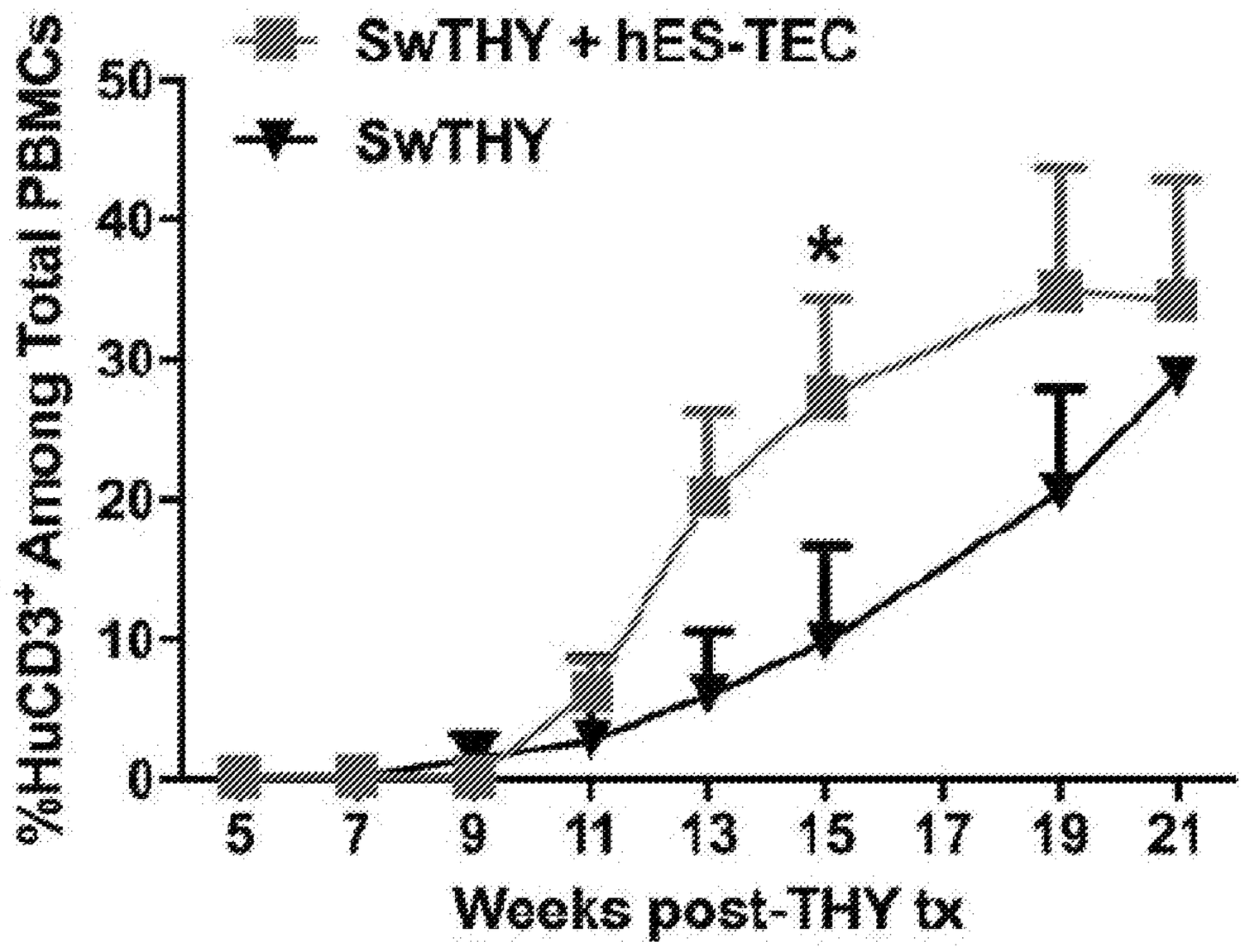


Figure 7B

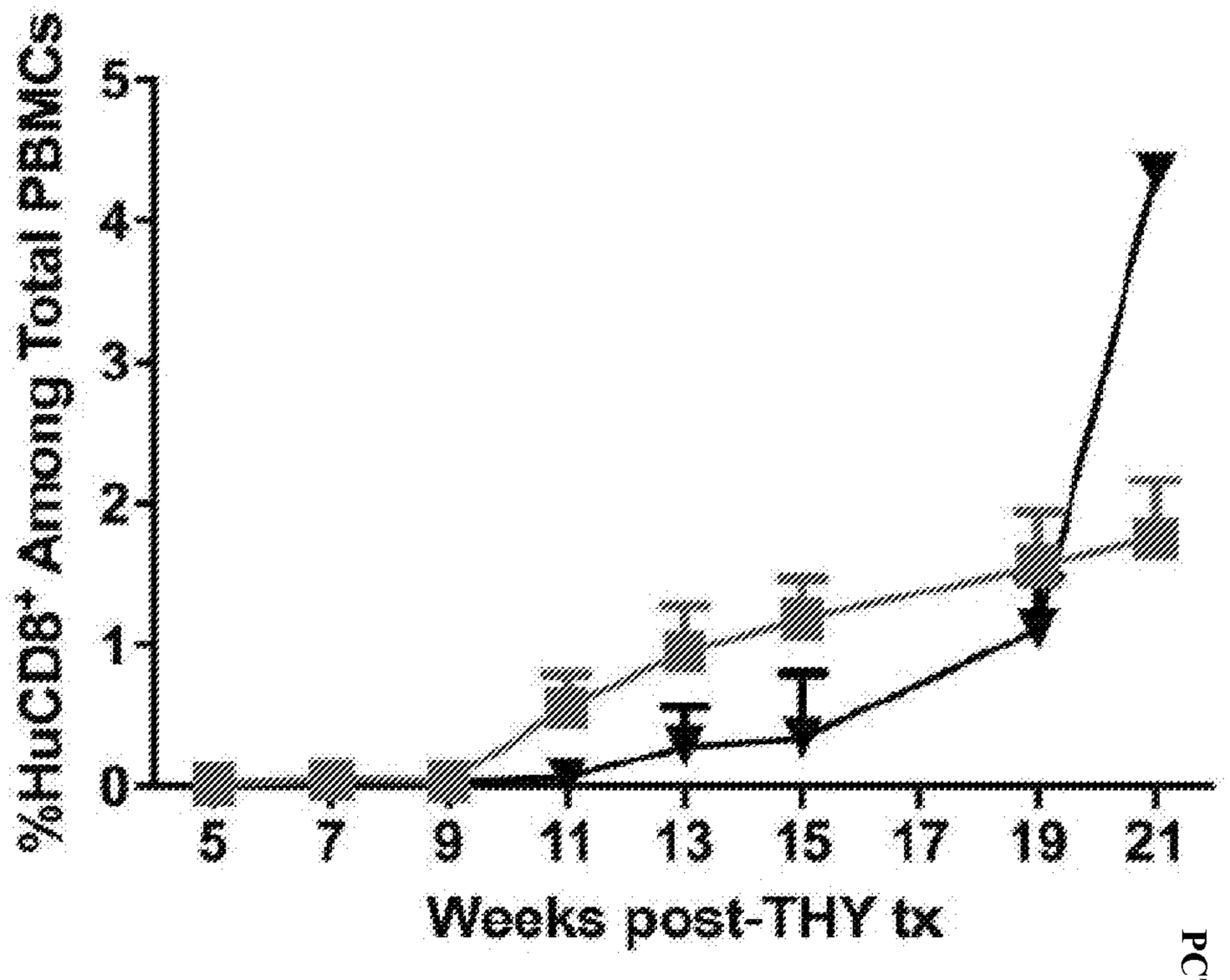


Figure 7D

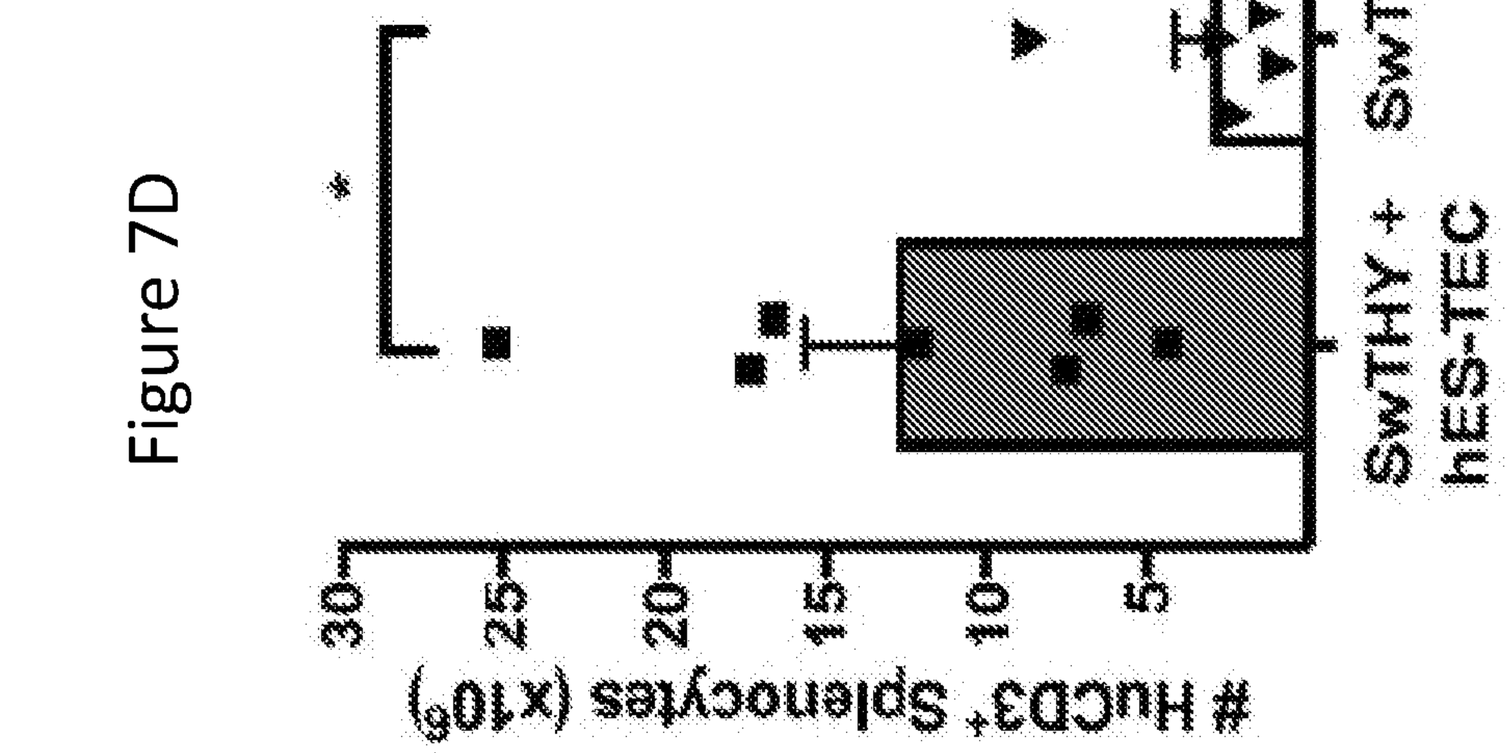


Figure 7C

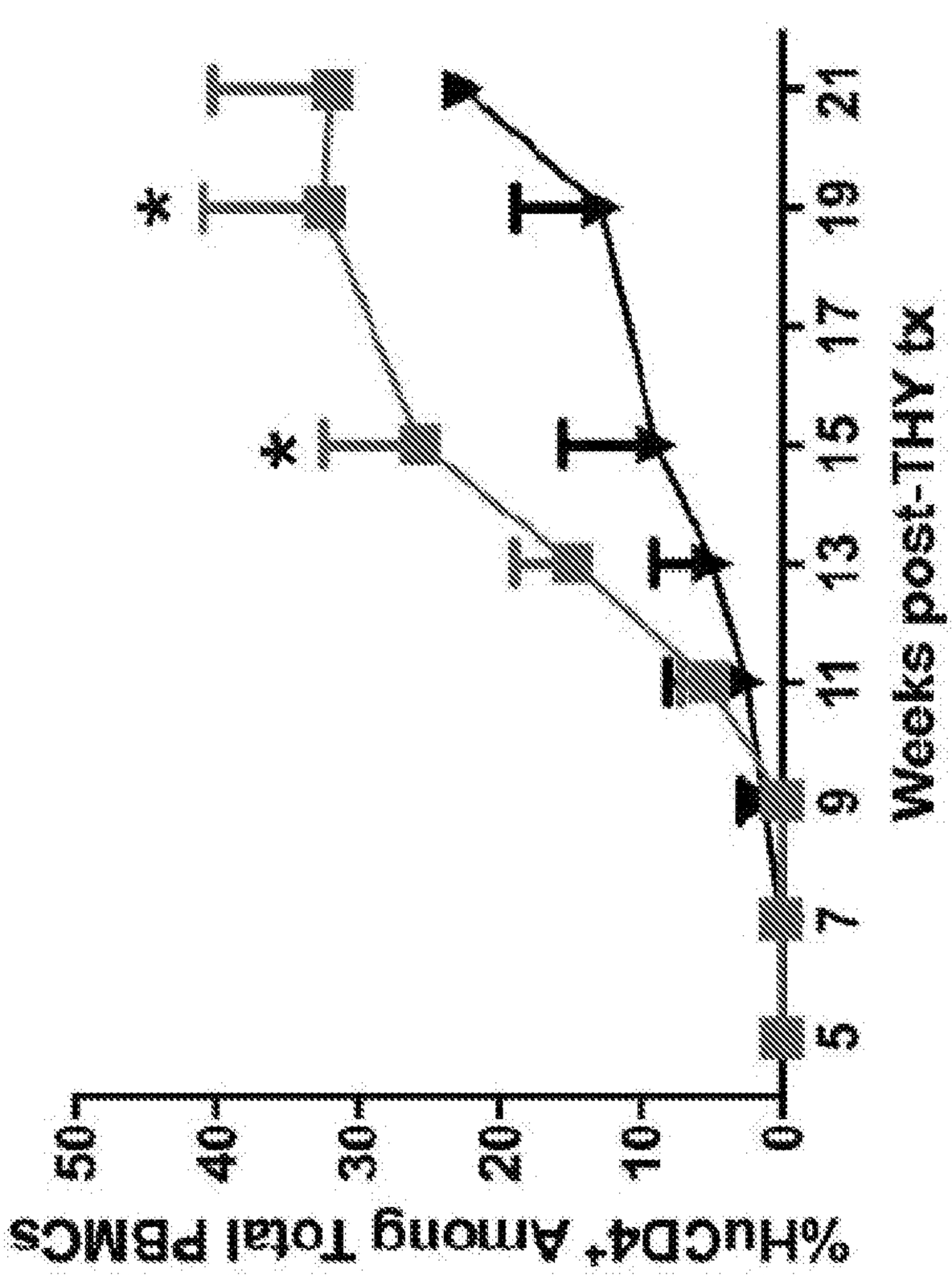


Figure 7F

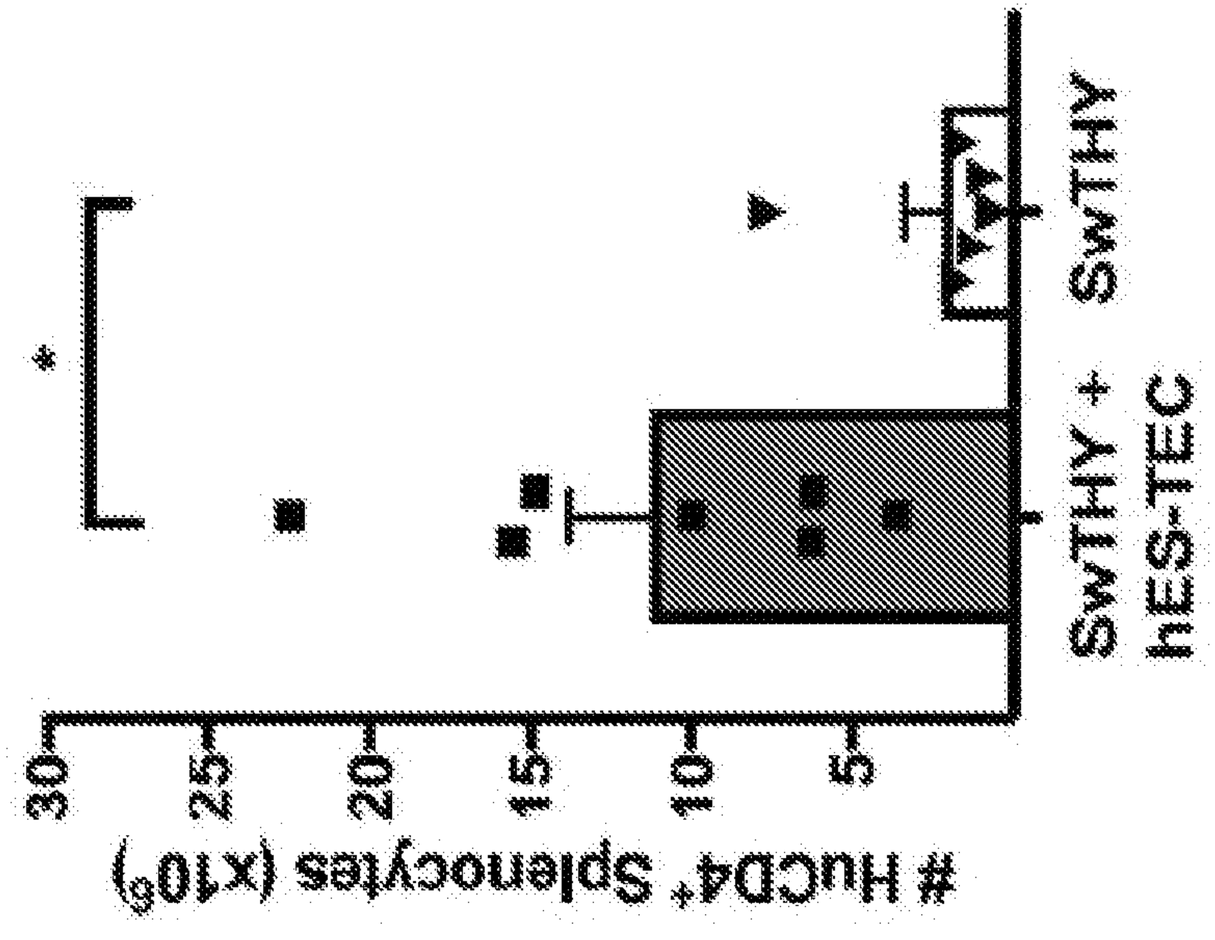
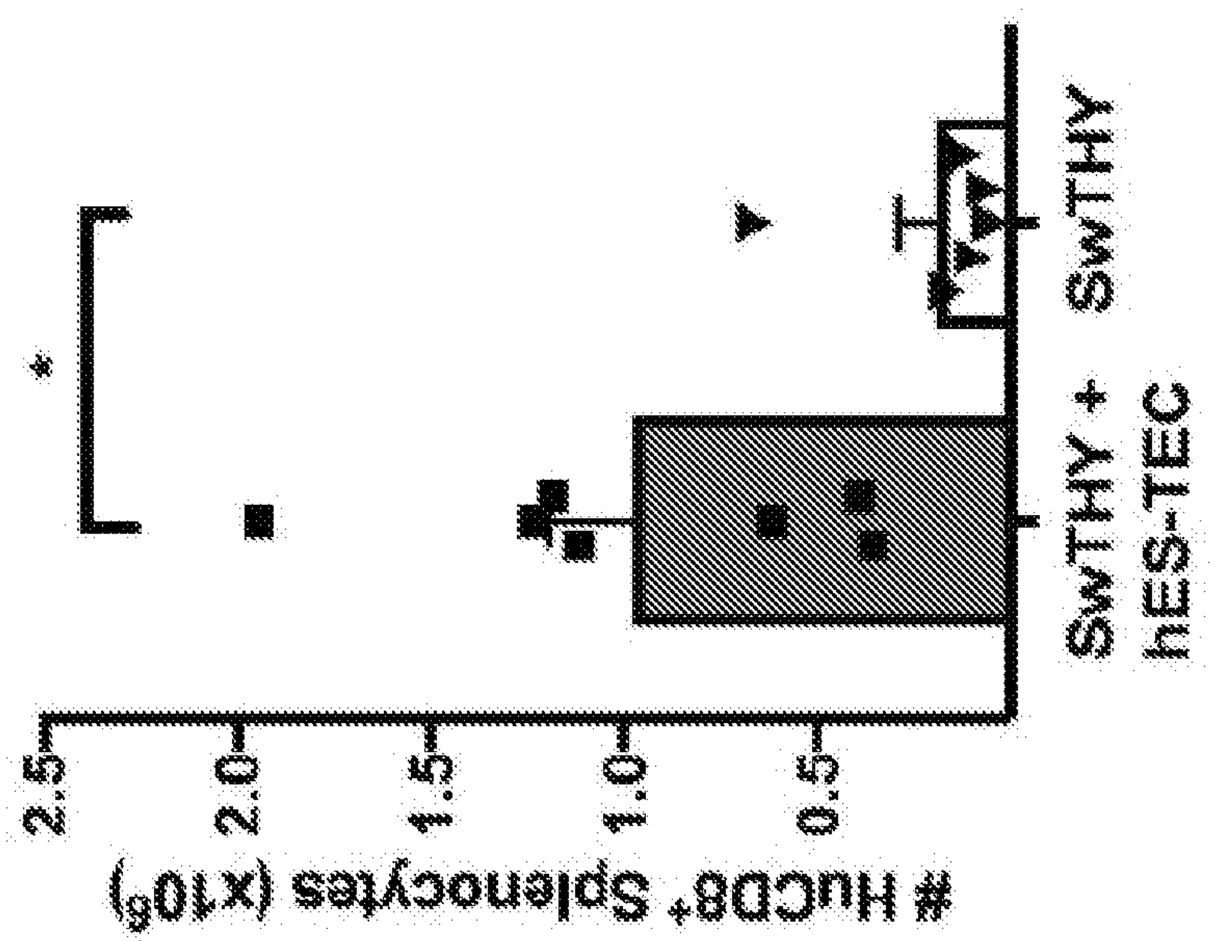


Figure 7E



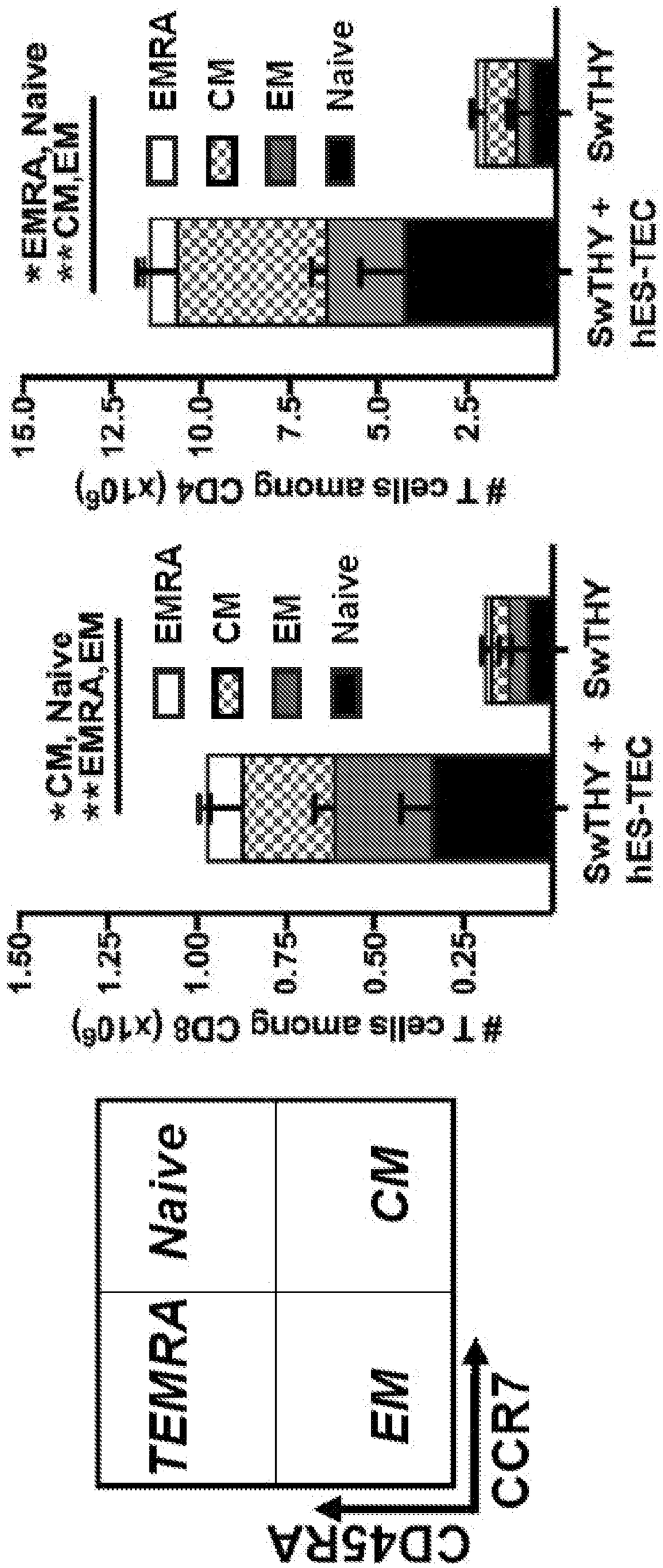
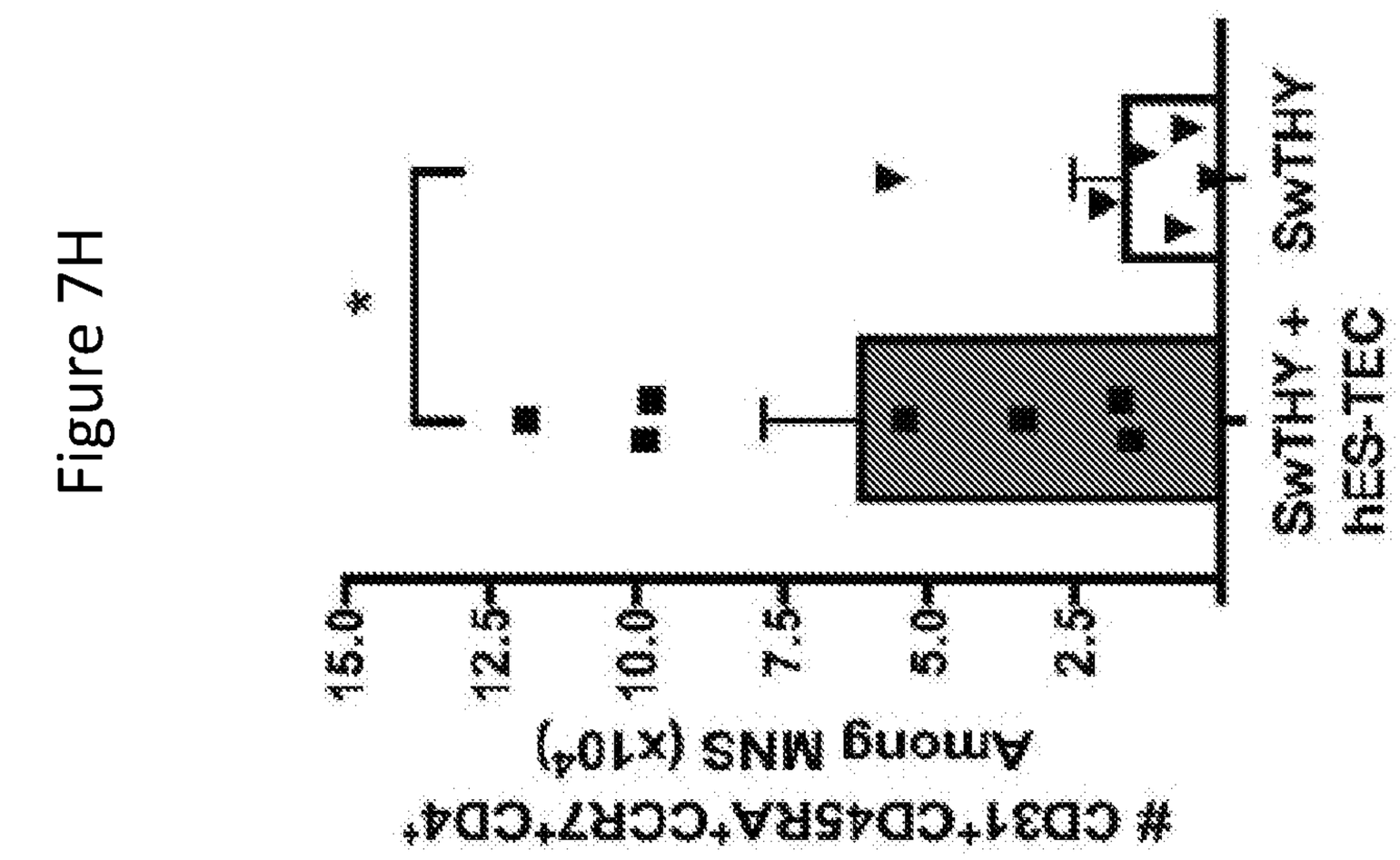

EMRA
CM
EM
Naive
*EMRA, Naive
**CM,EM
SwTHY
SwTHY + hES-TEC
15.0
12.5
10.0
7.5
5.0
2.5
T cells among CD4 (x10^6)
1.50
1.25
1.00
0.75
0.50
0.25
T cells among CD8 (x10^6)
CD45RA
CCR7
Naive
CM
TEMRA
EM

Figure 7G

Figure 7H


SwTHY
SwTHY + hES-TEC
15.0
12.5
10.0
7.5
5.0
2.5
Among MNS (x10⁴)
CD31⁺CD45RA⁺CCR7⁺CD4⁺