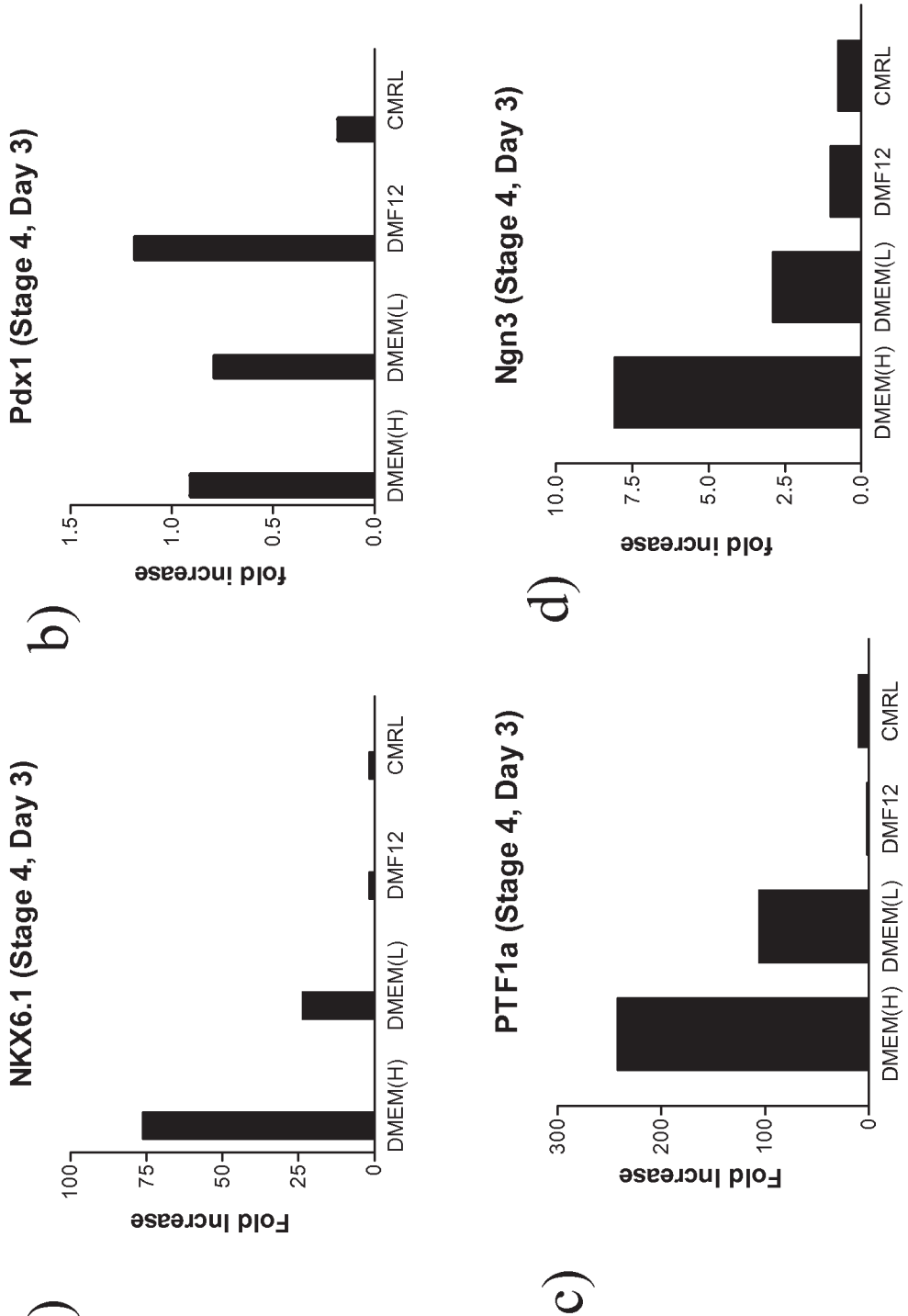
Figure 1



CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

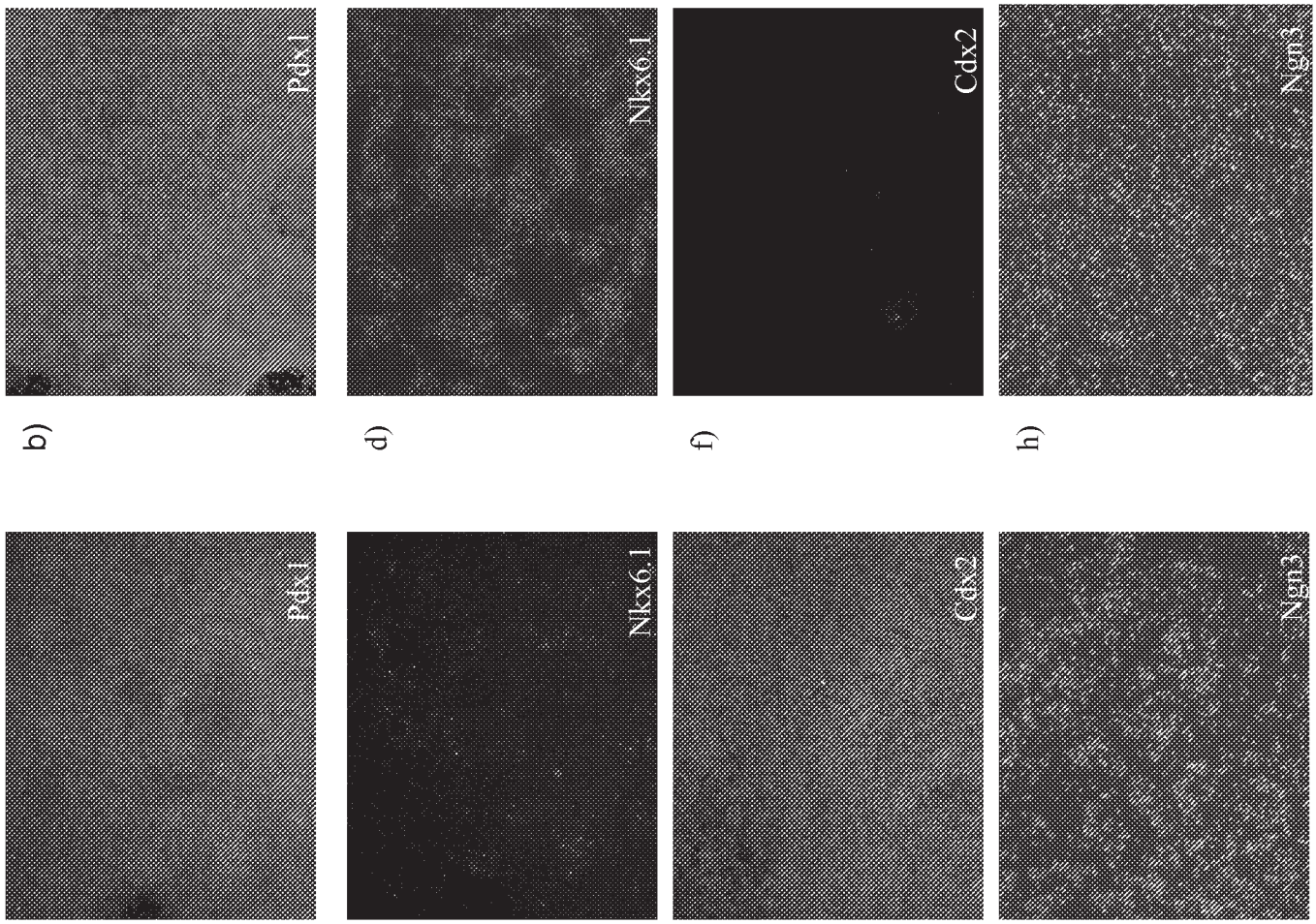


Figure 2

CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

Figure 3

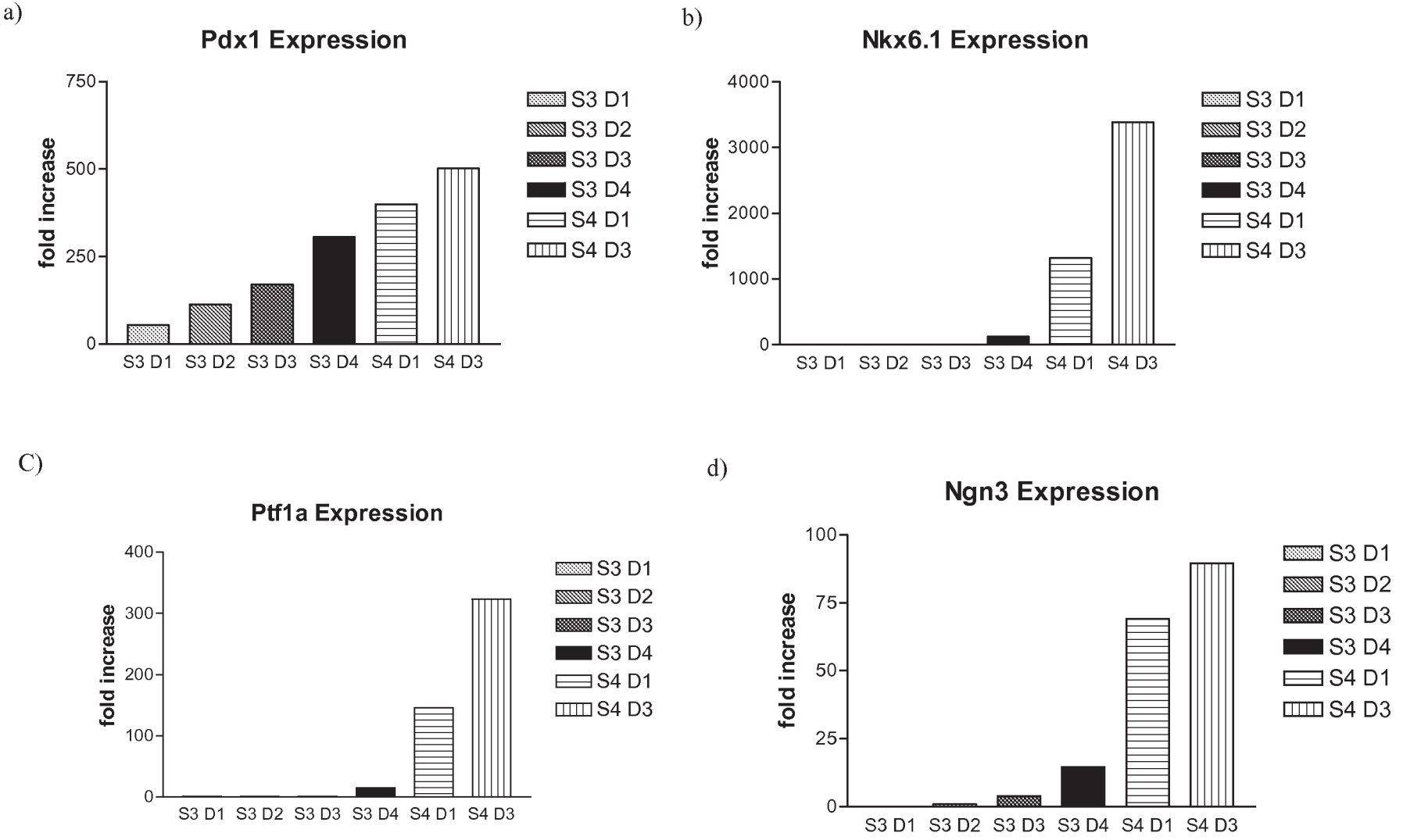
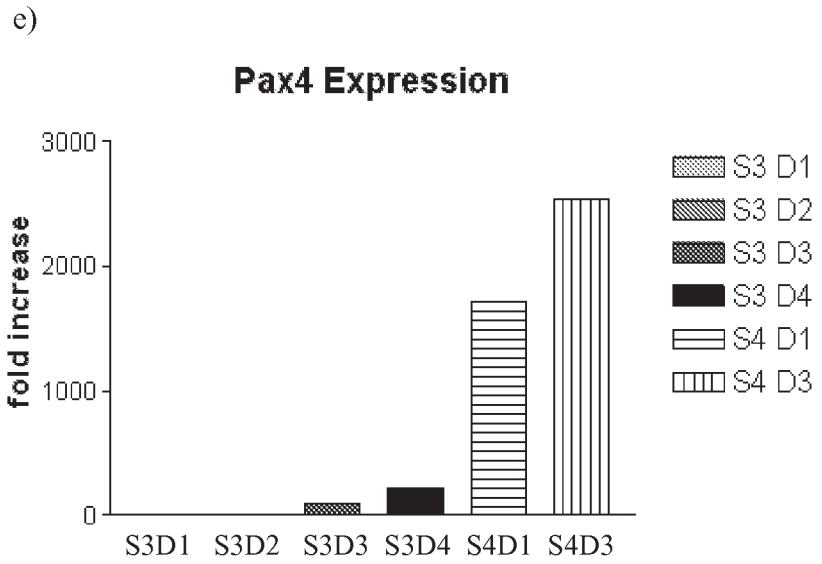
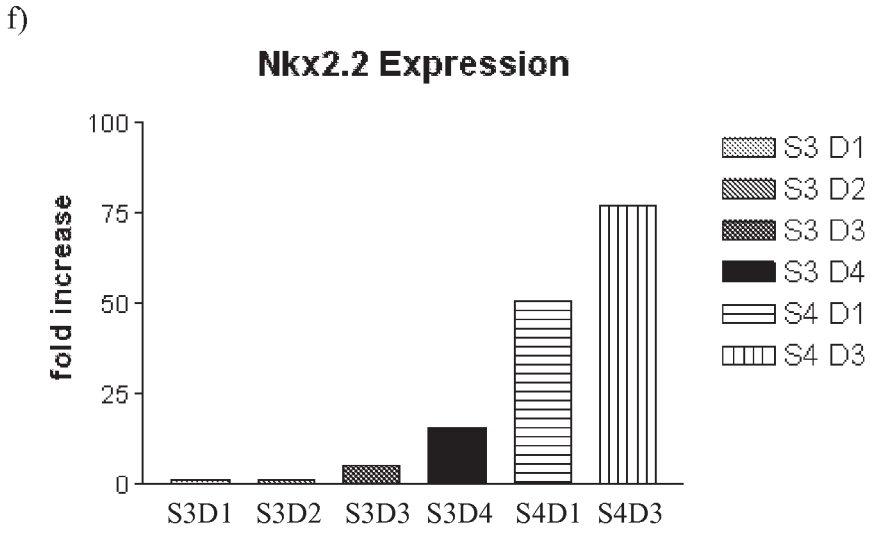

a)
Pdx1 Expression
fold increase
750
500
250
0
S3 D1 S3 D2 S3 D3 S3 D4 S4 D1 S4 D3
b)
Nkx6.1 Expression
fold increase
4000
3000
2000
1000
0
S3 D1 S3 D2 S3 D3 S3 D4 S4 D1 S4 D3
C)
Ptf1a Expression
fold increase
400
300
200
100
0
S3 D1 S3 D2 S3 D3 S3 D4 S4 D1 S4 D3
d)
Ngn3 Expression
fold increase
100
75
50
25
0
S3 D1 S3 D2 S3 D3 S3 D4 S4 D1 S4 D3

Figure 3 Cont.





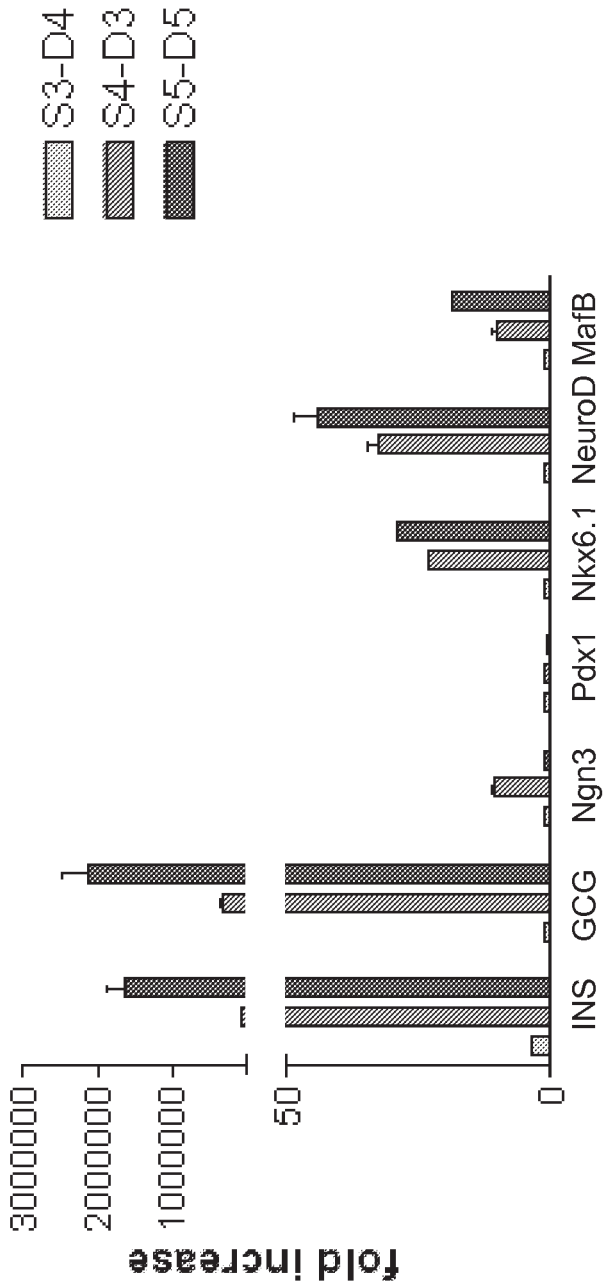


Figure 4

CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

Figure 5

CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

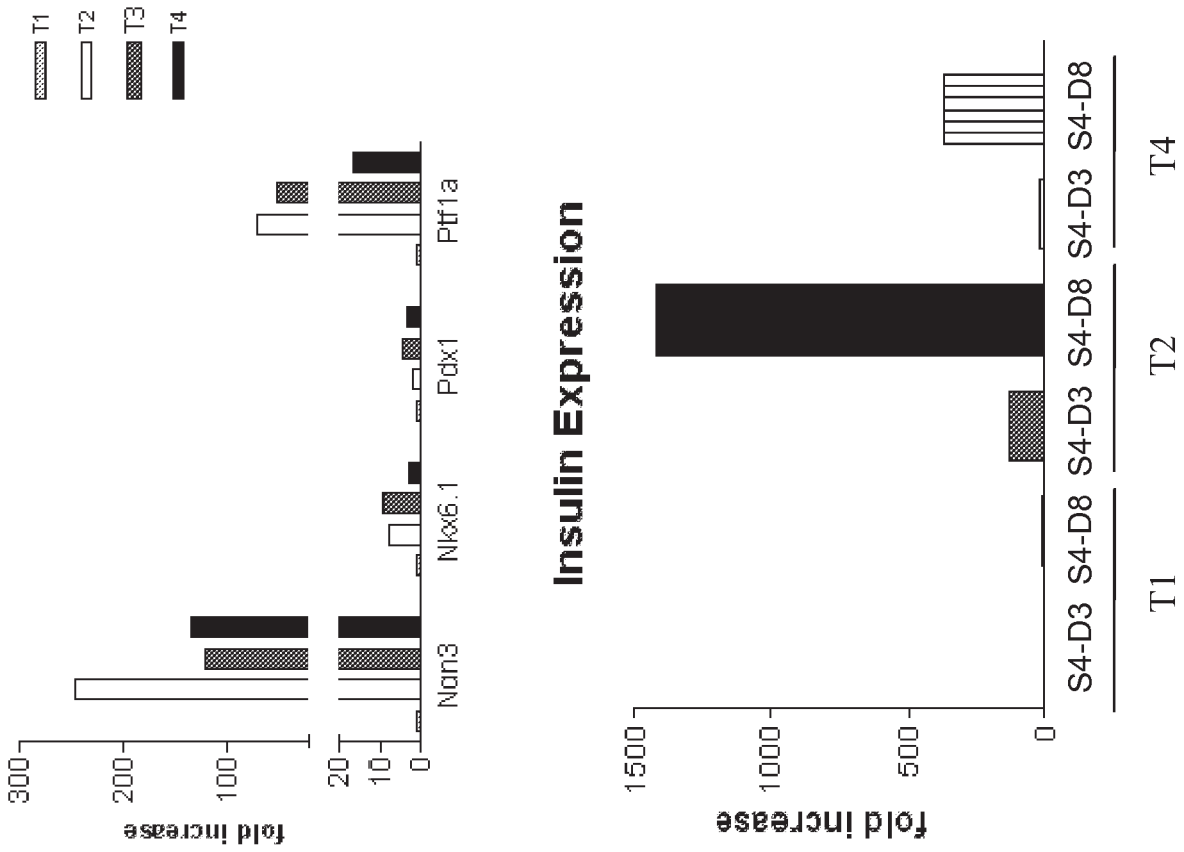
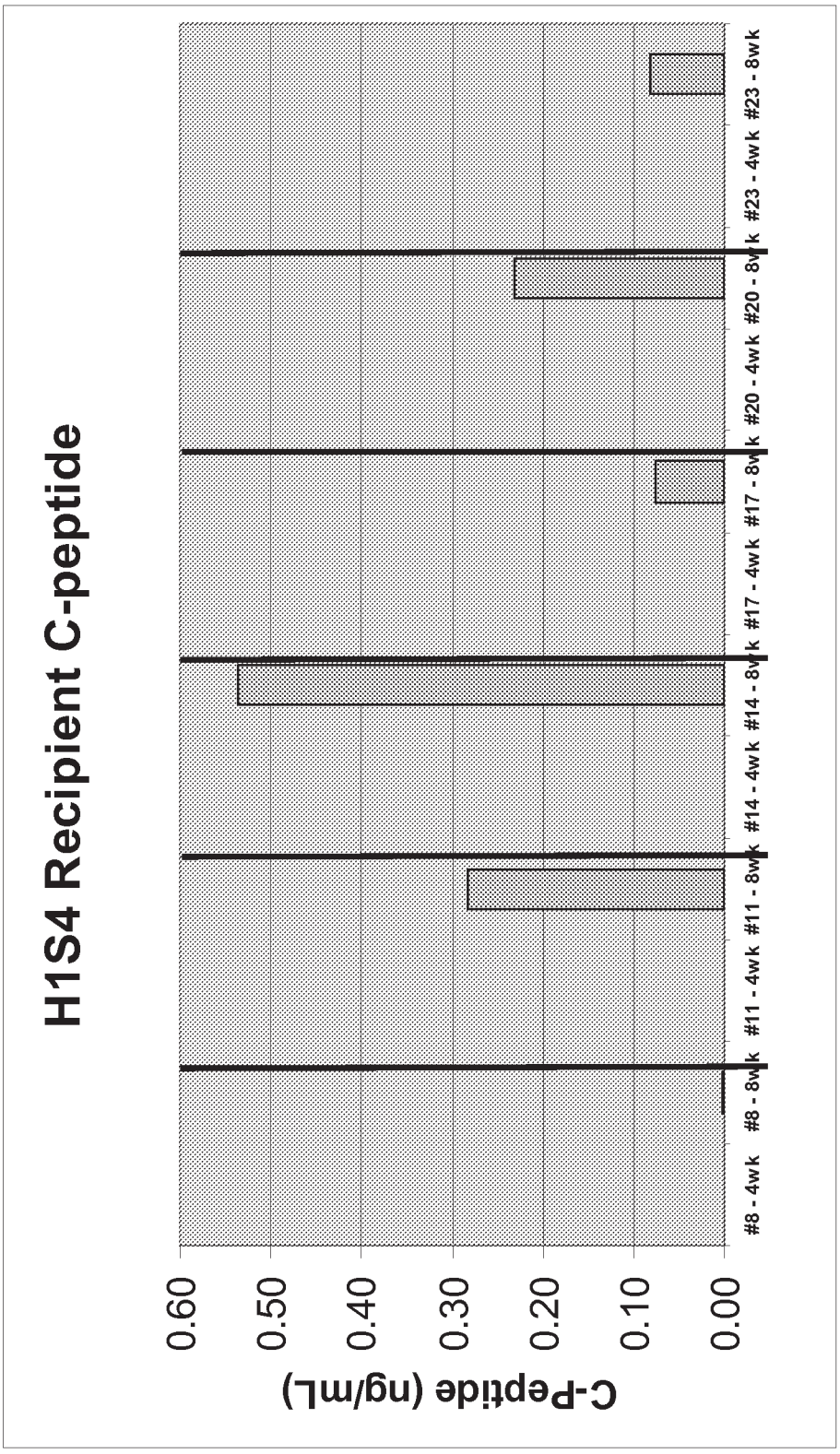


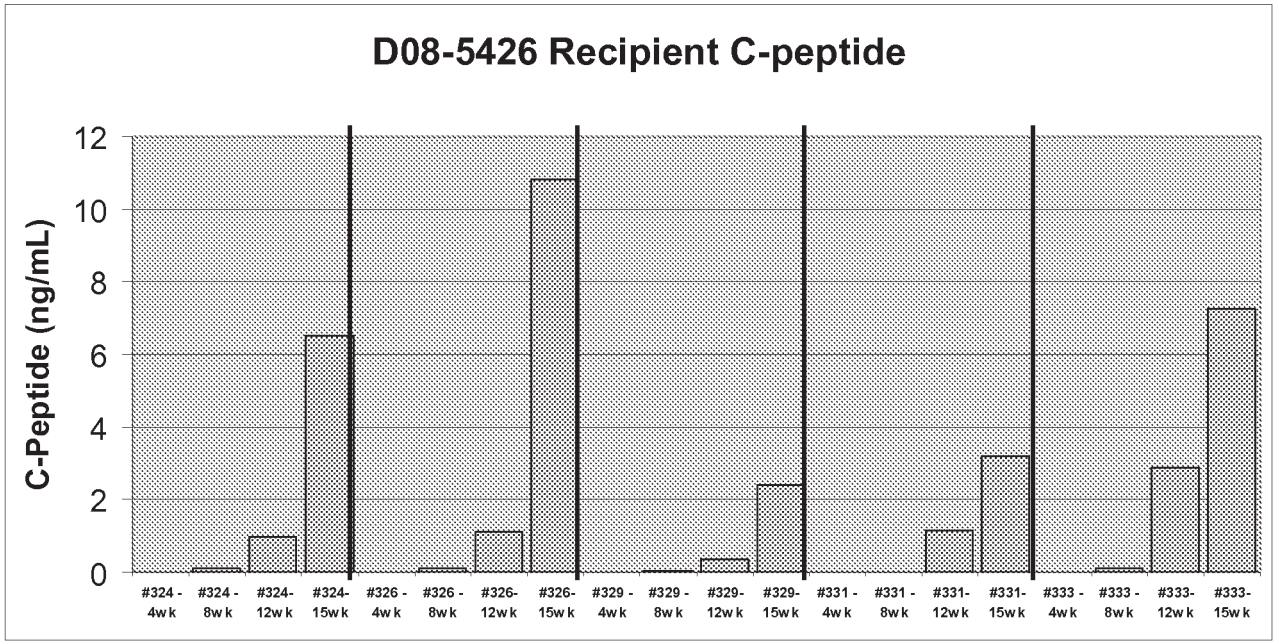
Figure 6



CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

Figure 7

a)


D08-5426 Recipient C-peptide
C-Peptide (ng/mL)
0
2
4
6
8
10
12
#324 - 4wk
#324 - 8wk
#324- 12wk
#324- 15wk
#326 - 4wk
#326 - 8wk
#326- 12wk
#326- 15wk
#329 - 4wk
#329 - 8wk
#329- 12wk
#329- 15wk
#331 - 4wk
#331 - 8wk
#331- 12wk
#331- 15wk
#333 - 4wk
#333 - 8wk
#333- 12wk
#333- 15wk

b)

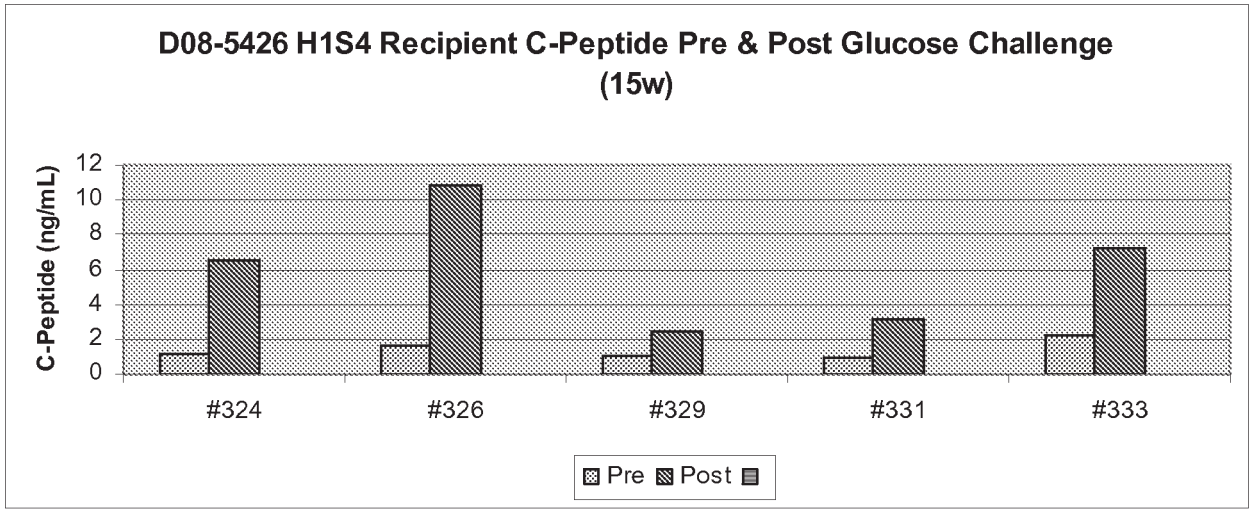
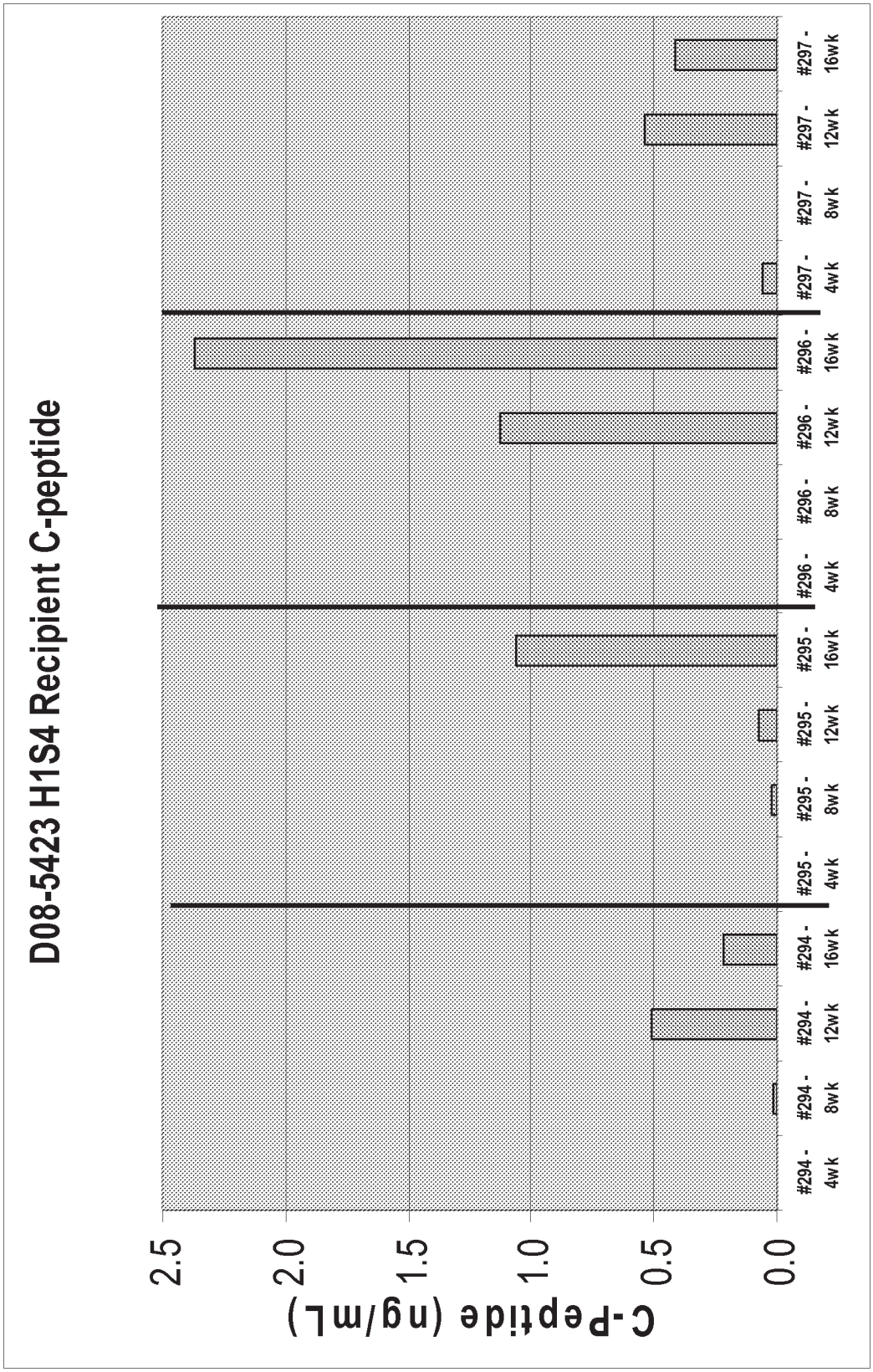

D08-5426 H1S4 Recipient C-Peptide Pre & Post Glucose Challenge (15w)
C-Peptide (ng/mL)
0
2
4
6
8
10
12
#324
#326
#329
#331
#333
Pre
Post

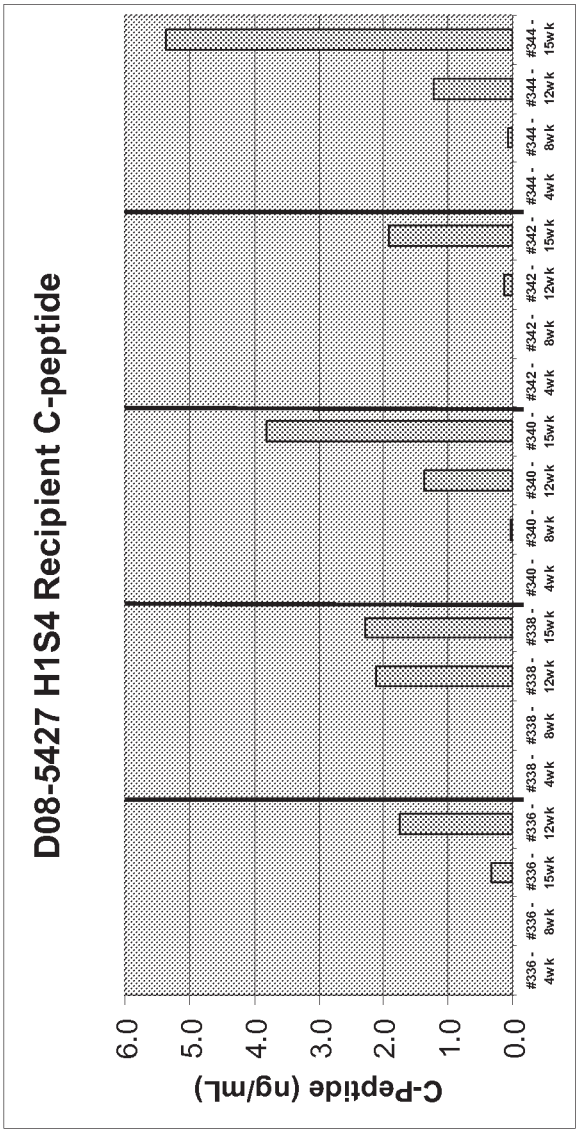
Figure 8



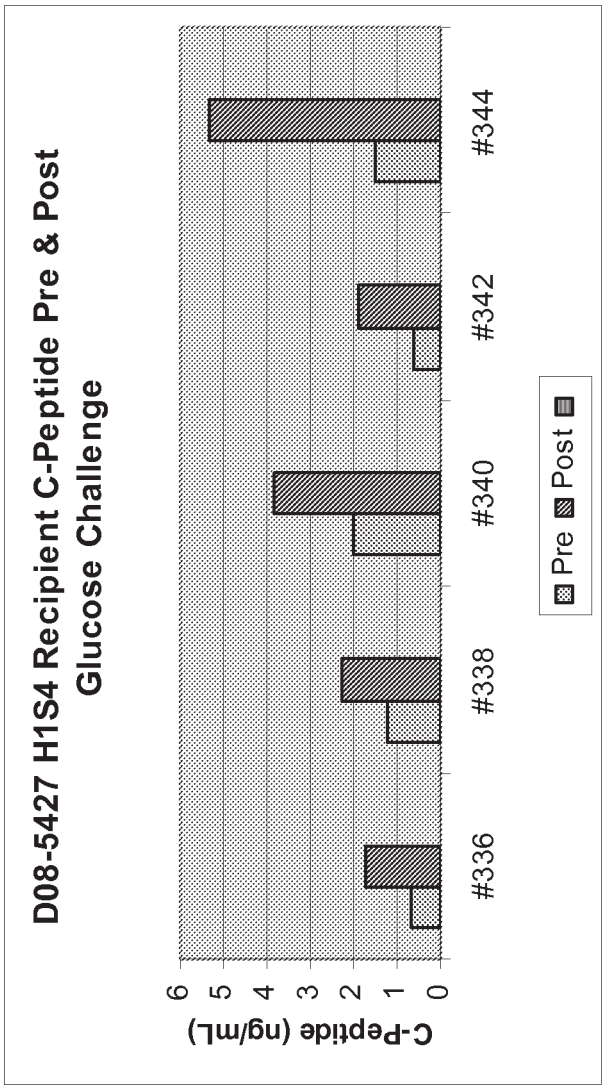
CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

Figure 9

a)



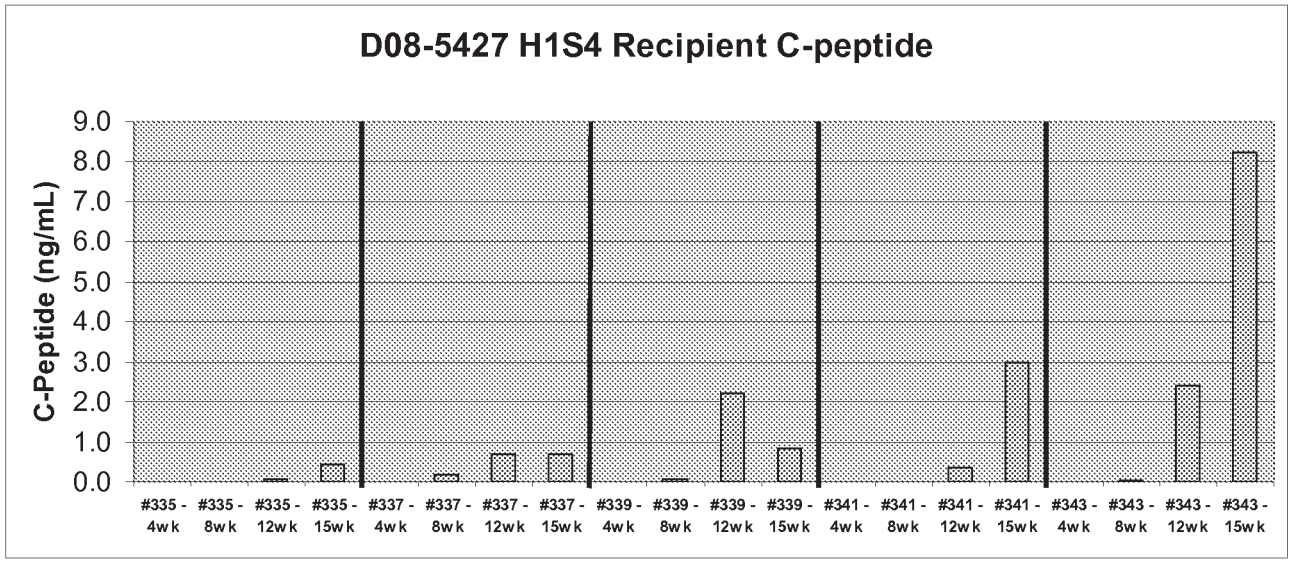
b)



CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS

Figure 10

a)


D08-5427 H1S4 Recipient C-peptide
C-Peptide (ng/mL)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
#335 - 4wk
#335 - 8wk
#335 - 12wk
#335 - 15wk
#337 - 4wk
#337 - 8wk
#337 - 12wk
#337 - 15wk
#339 - 4wk
#339 - 8wk
#339 - 12wk
#339 - 15wk
#341 - 4wk
#341 - 8wk
#341 - 12wk
#341 - 15wk
#343 - 4wk
#343 - 8wk
#343 - 12wk
#343 - 15wk

b)

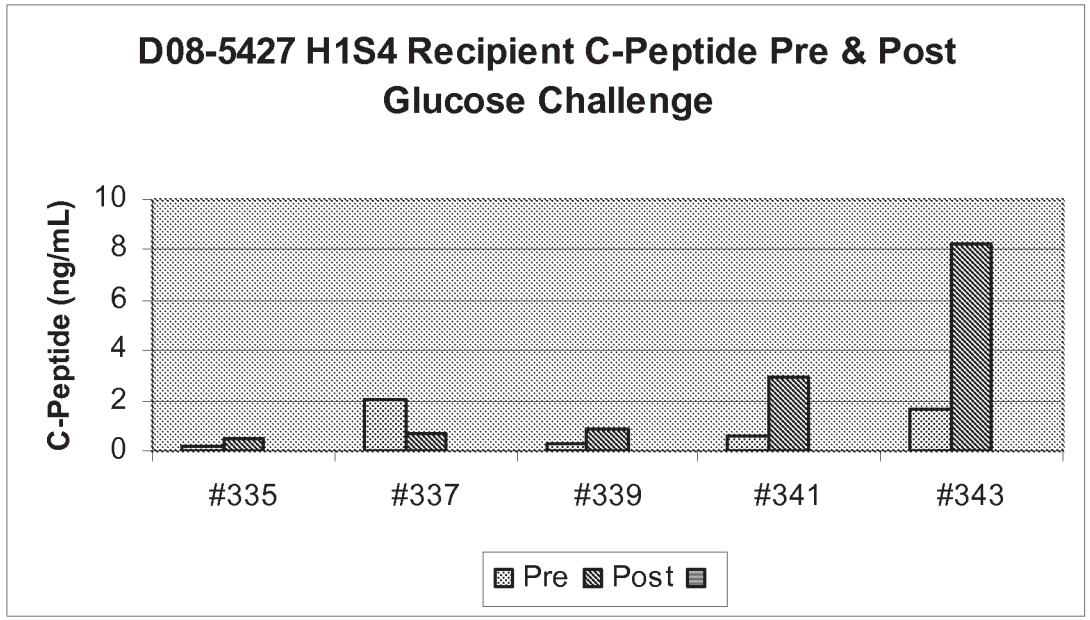
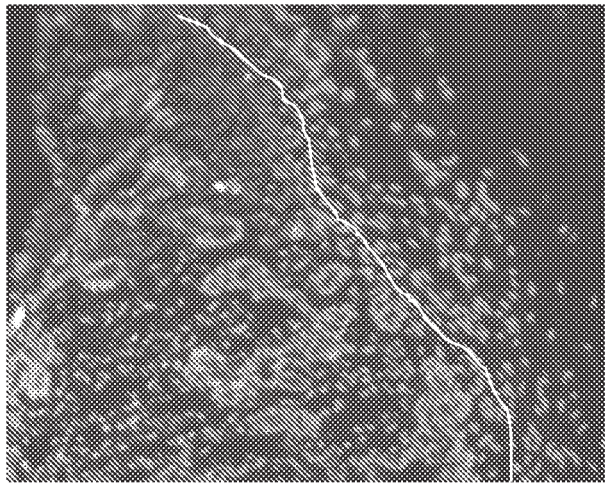

D08-5427 H1S4 Recipient C-Peptide Pre & Post Glucose Challenge
C-Peptide (ng/mL)
10
8
6
4
2
0
#335
#337
#339
#341
#343
Pre
Post

Figure 11

a.



b.

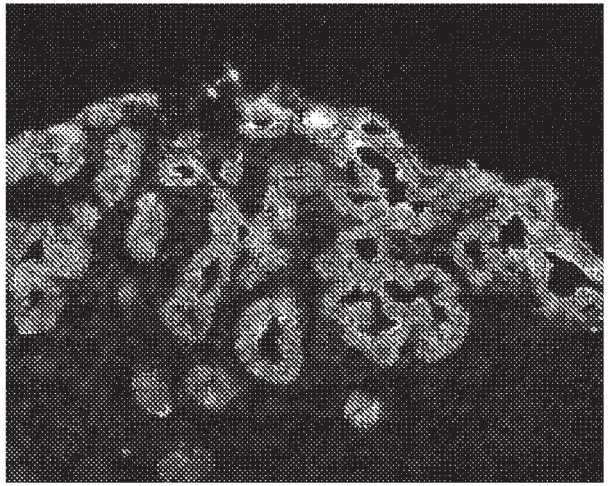
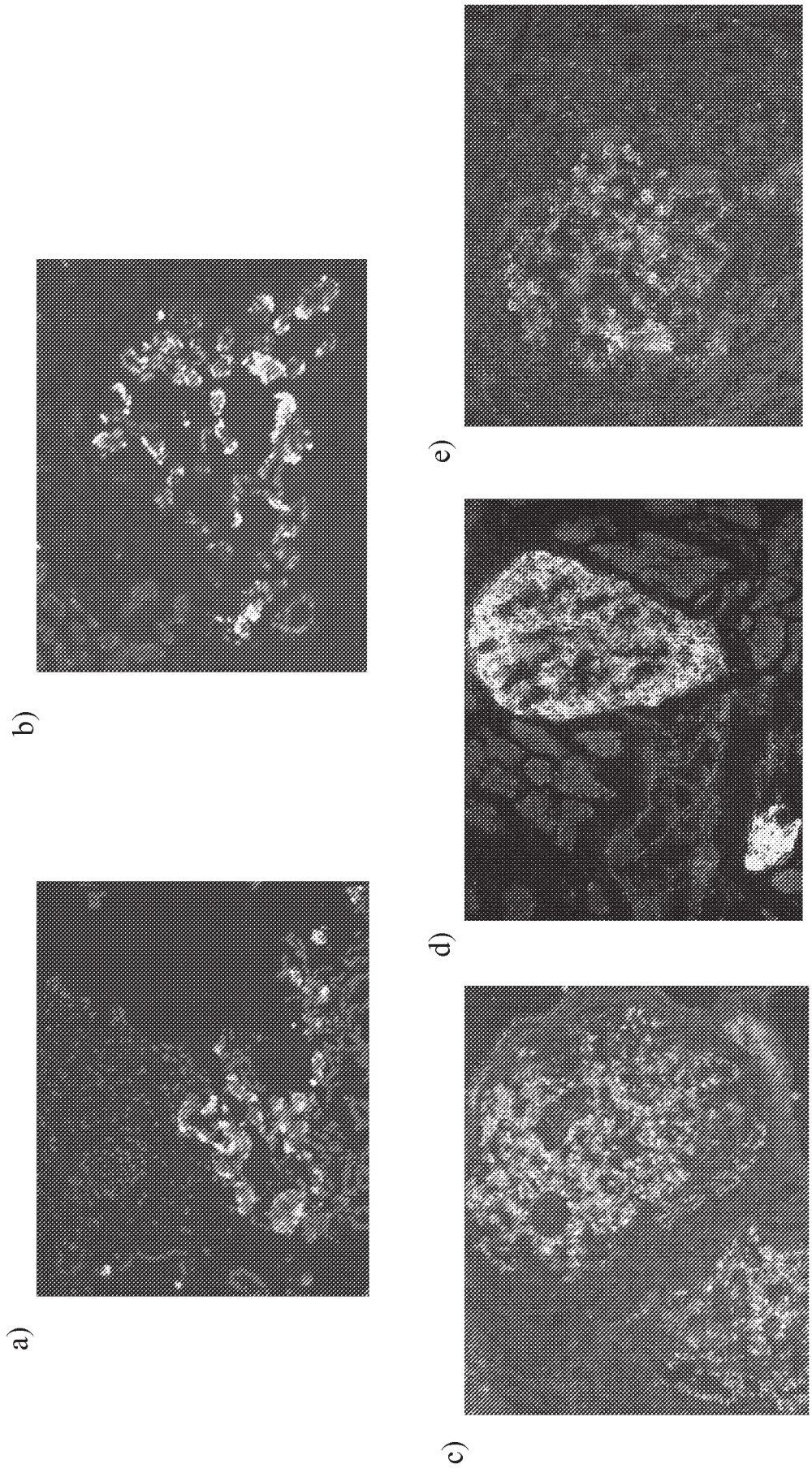


Figure 12



CEN5258WOPCT: Jean Xu -DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS