

FIG. 1B

Adherent culture

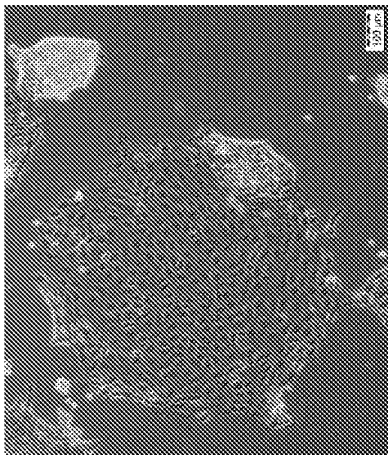


FIG. 1D

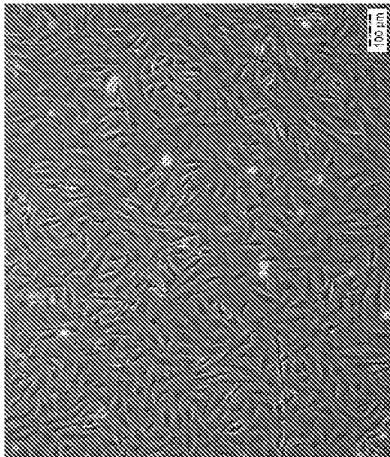
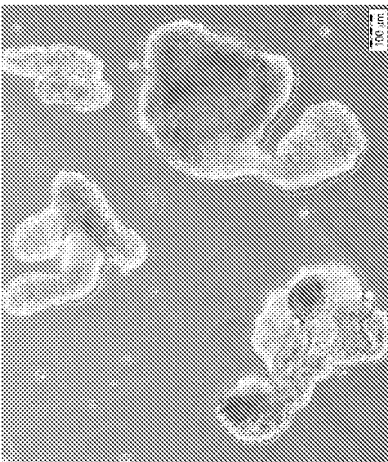


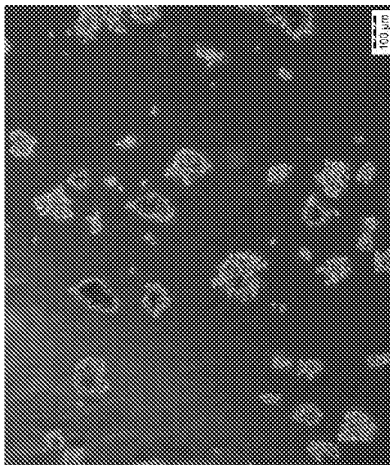
FIG. 1A

Suspension



Aggregates

FIG. 1C



Single cells

FIG. 2A

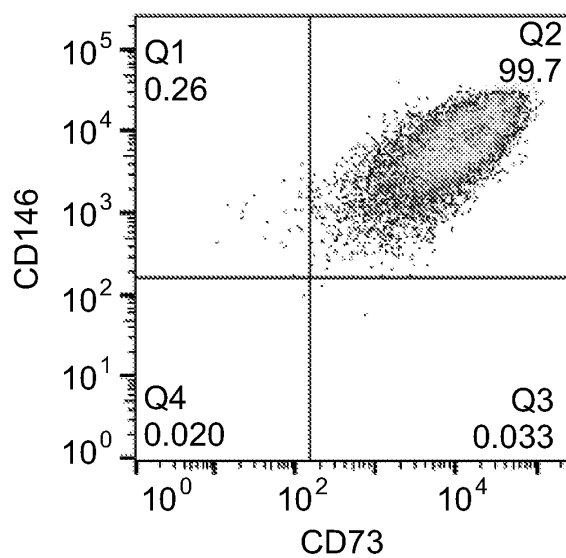


FIG. 2B

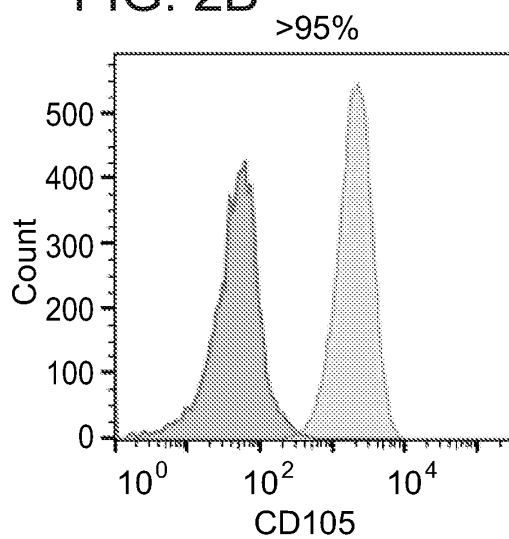


FIG. 2C

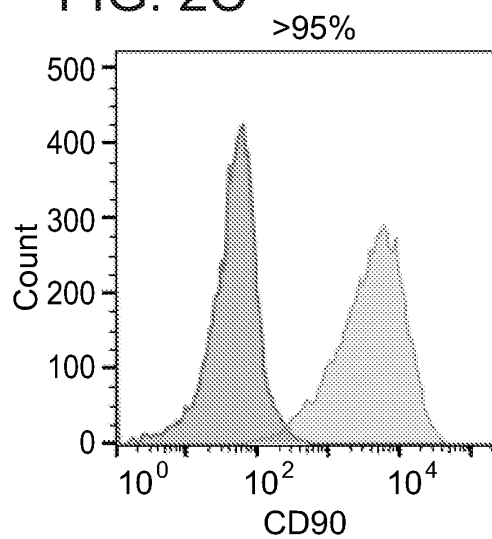


FIG. 2D

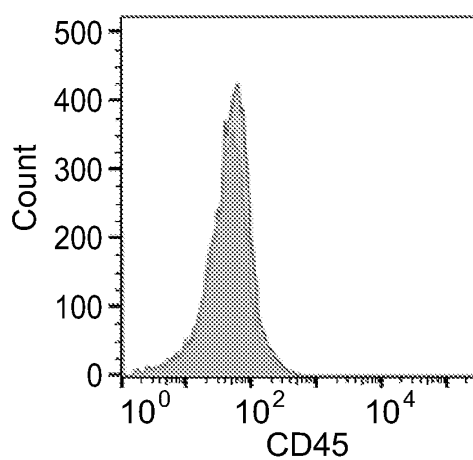


FIG. 2E

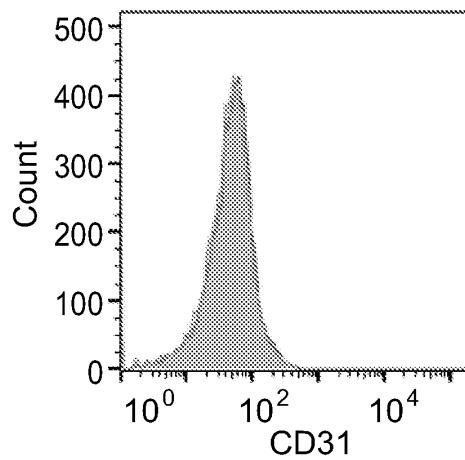


FIG. 3A

Adipocytes

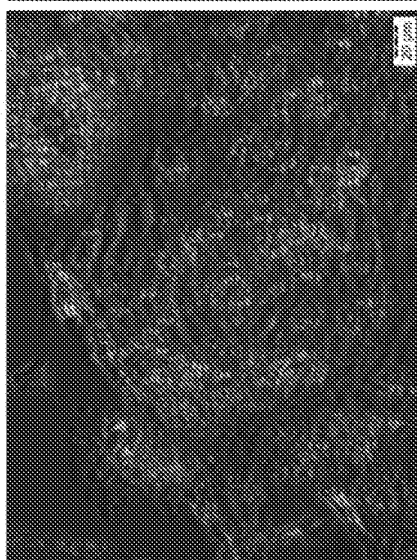


FIG. 3B

Osteocytes

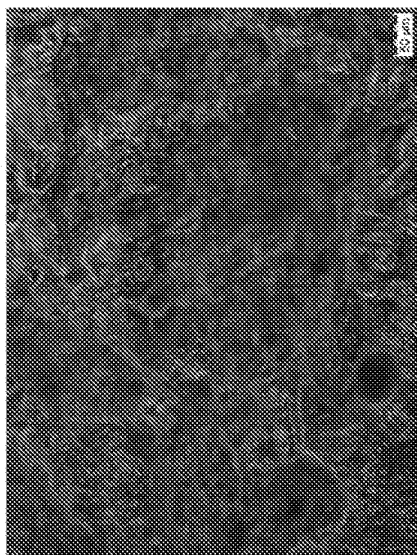
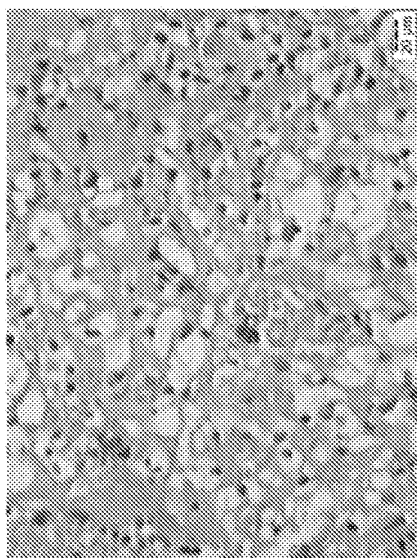


FIG. 3C

Chondrocytes



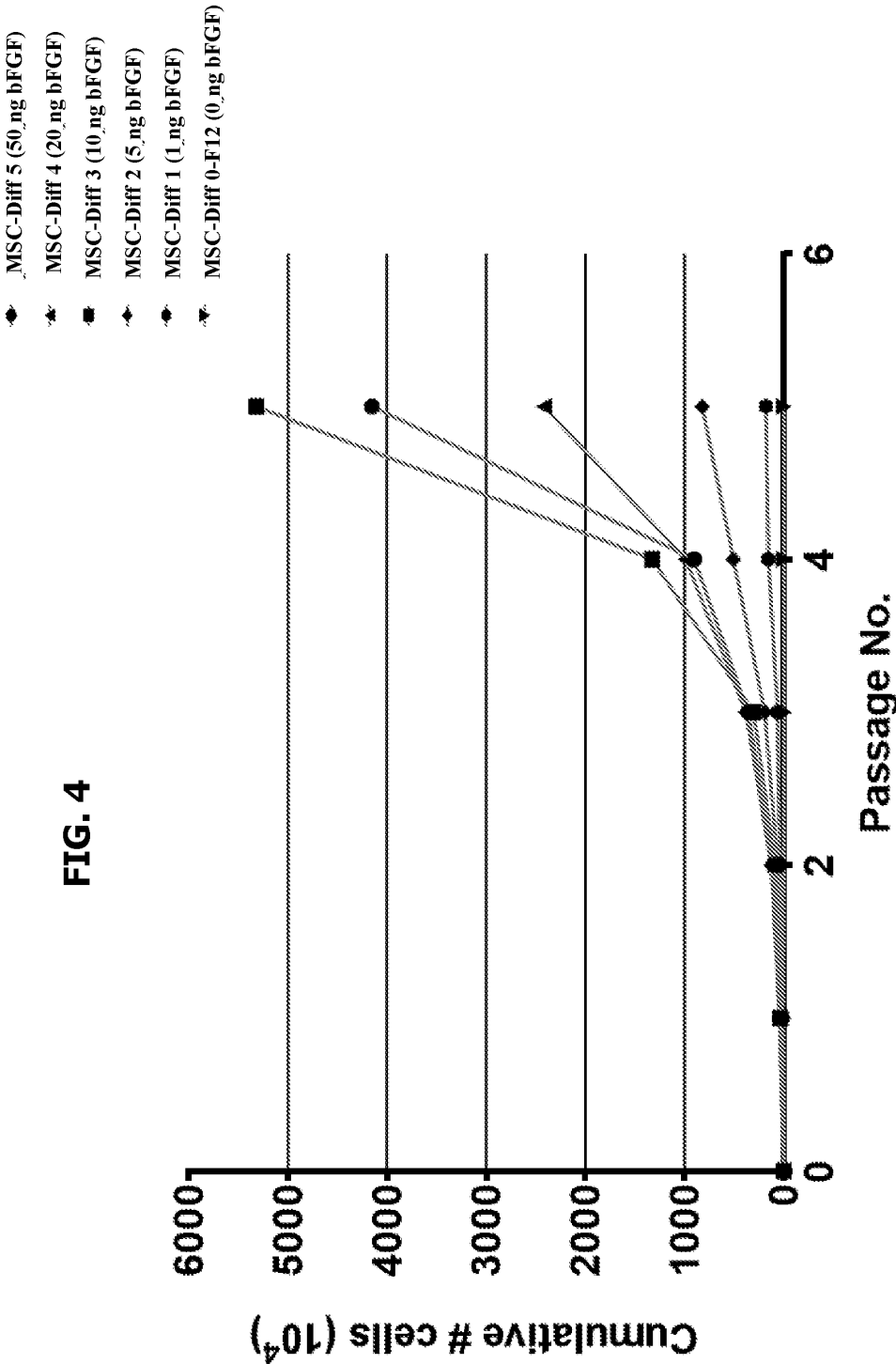


FIG. 5

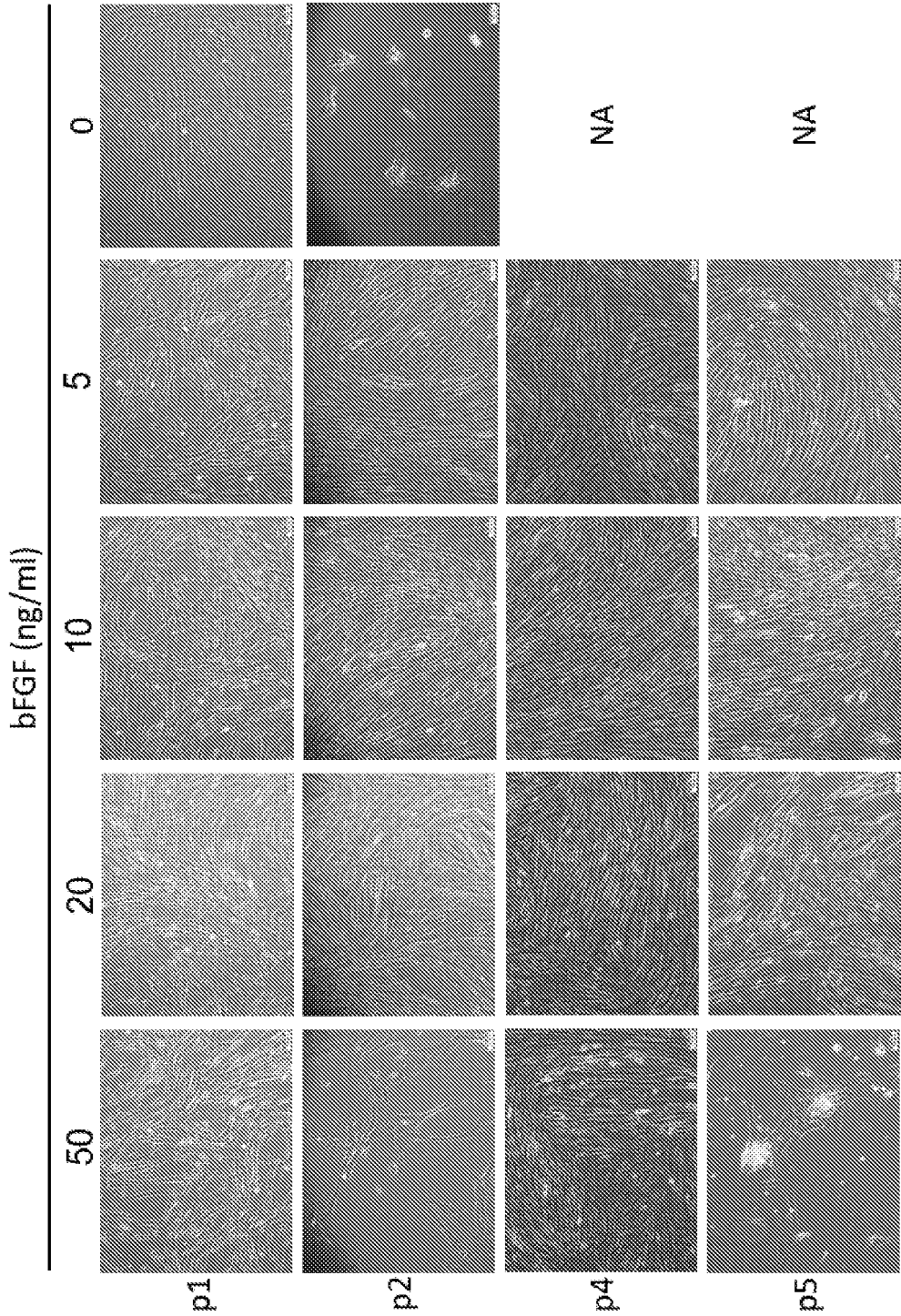


FIG. 6A

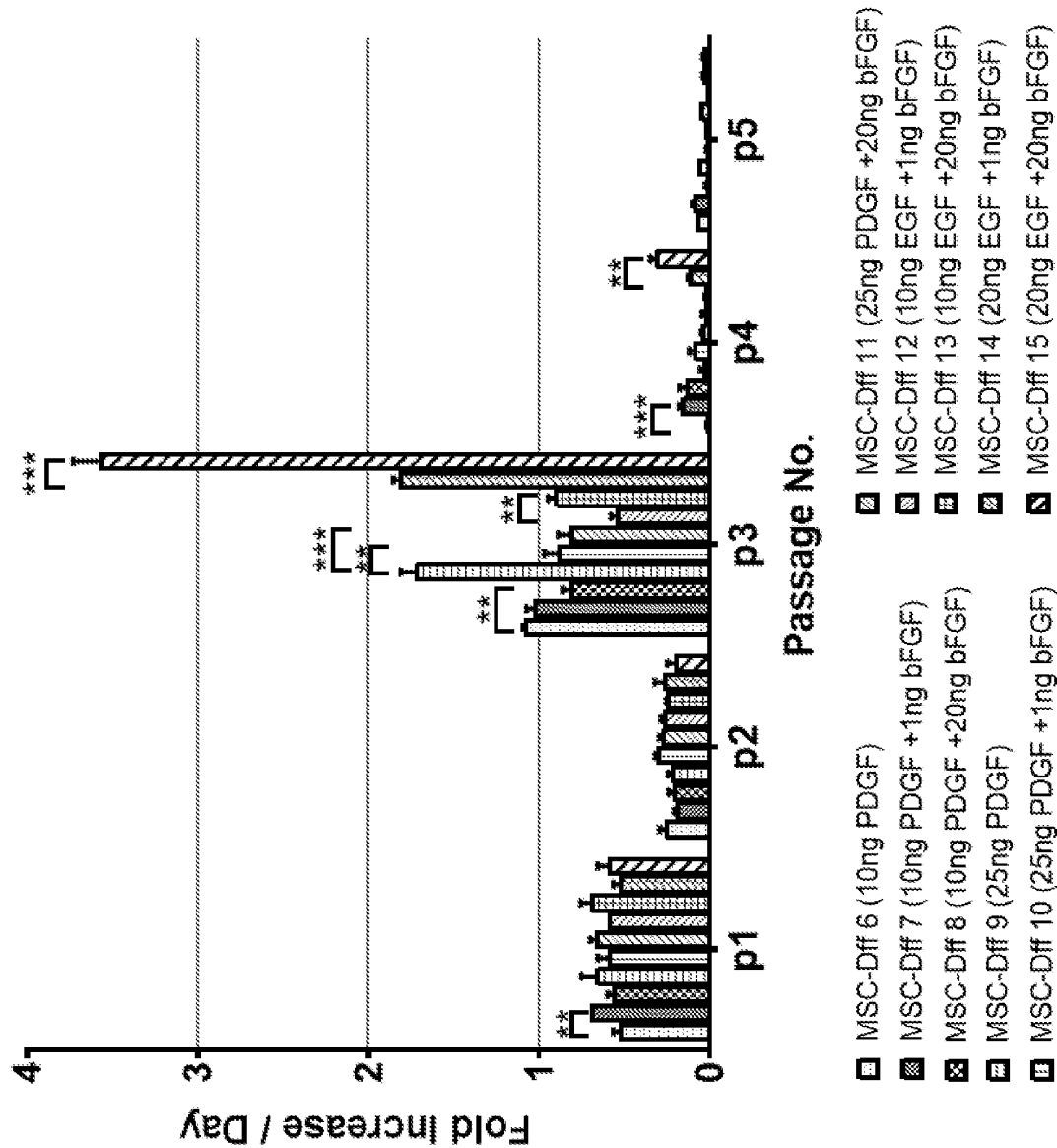


FIGURE 2

PDT (hours)

Passage No.

p1 p2 p3 p4 p5

Statistical significance markers: *, **, ***

- | | | | |
|---|----------------------------------|---|-----------------------------------|
| ■ | MSC-Dff 6 (10ng PDGF) | ■ | MSC-Dff 11 (25ng PDGF +20ng bFGF) |
| ■ | MSC-Dff 7 (10ng PDGF +1ng bFGF) | ■ | MSC-Dff 12 (10ng EGF +1ng bFGF) |
| ■ | MSC-Dff 8 (10ng PDGF +20ng bFGF) | ■ | MSC-Dff 13 (10ng EGF +20ng bFGF) |
| ■ | MSC-Dff 9 (25ng PDGF) | ■ | MSC-Dff 14 (20ng EGF +1ng bFGF) |
| ■ | MSC-Dff 10 (25ng PDGF +1ng bFGF) | ■ | MSC-Dff 15 (20ng EGF +20ng bFGF) |

FIG. 6C

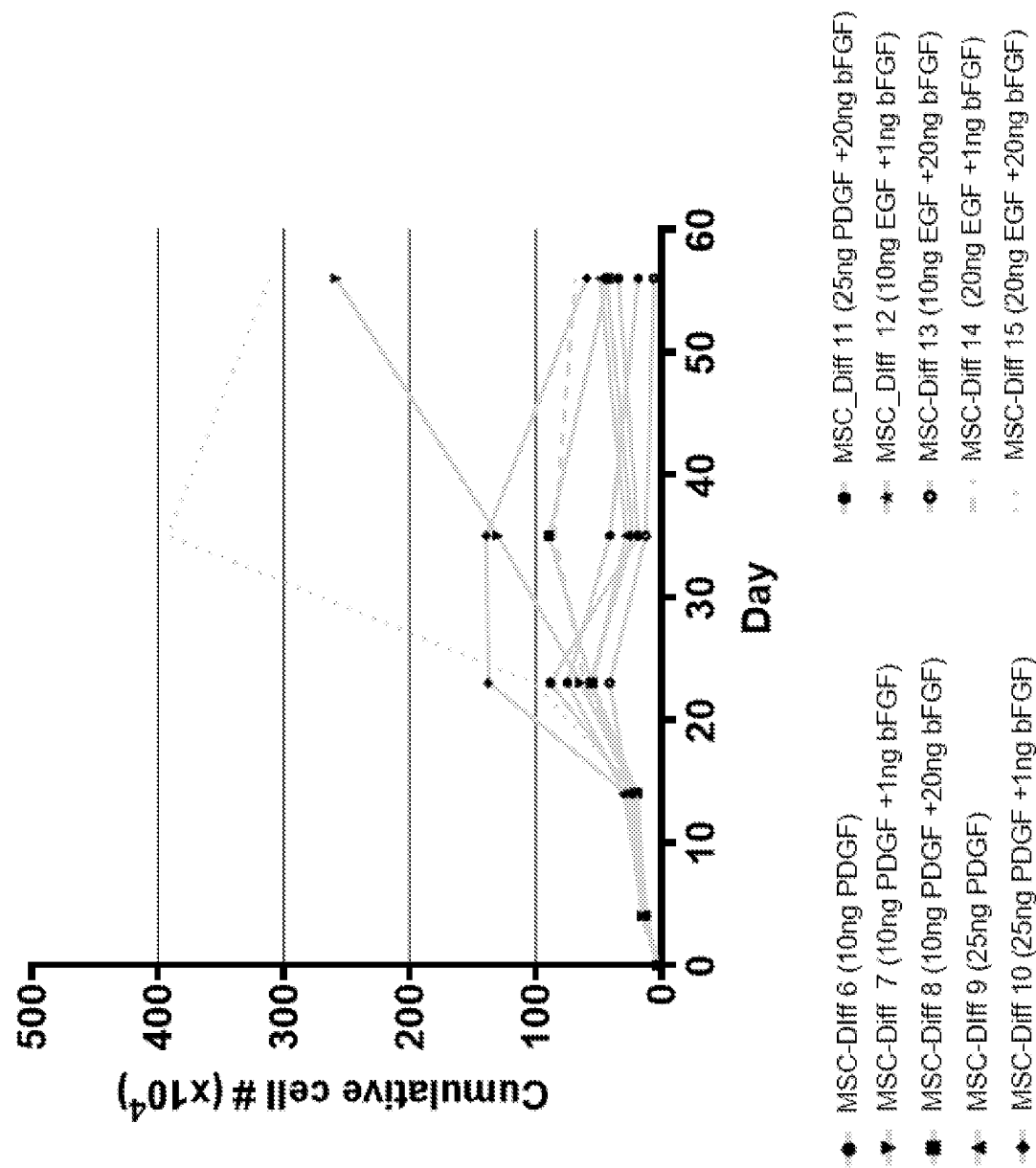


FIG. 7

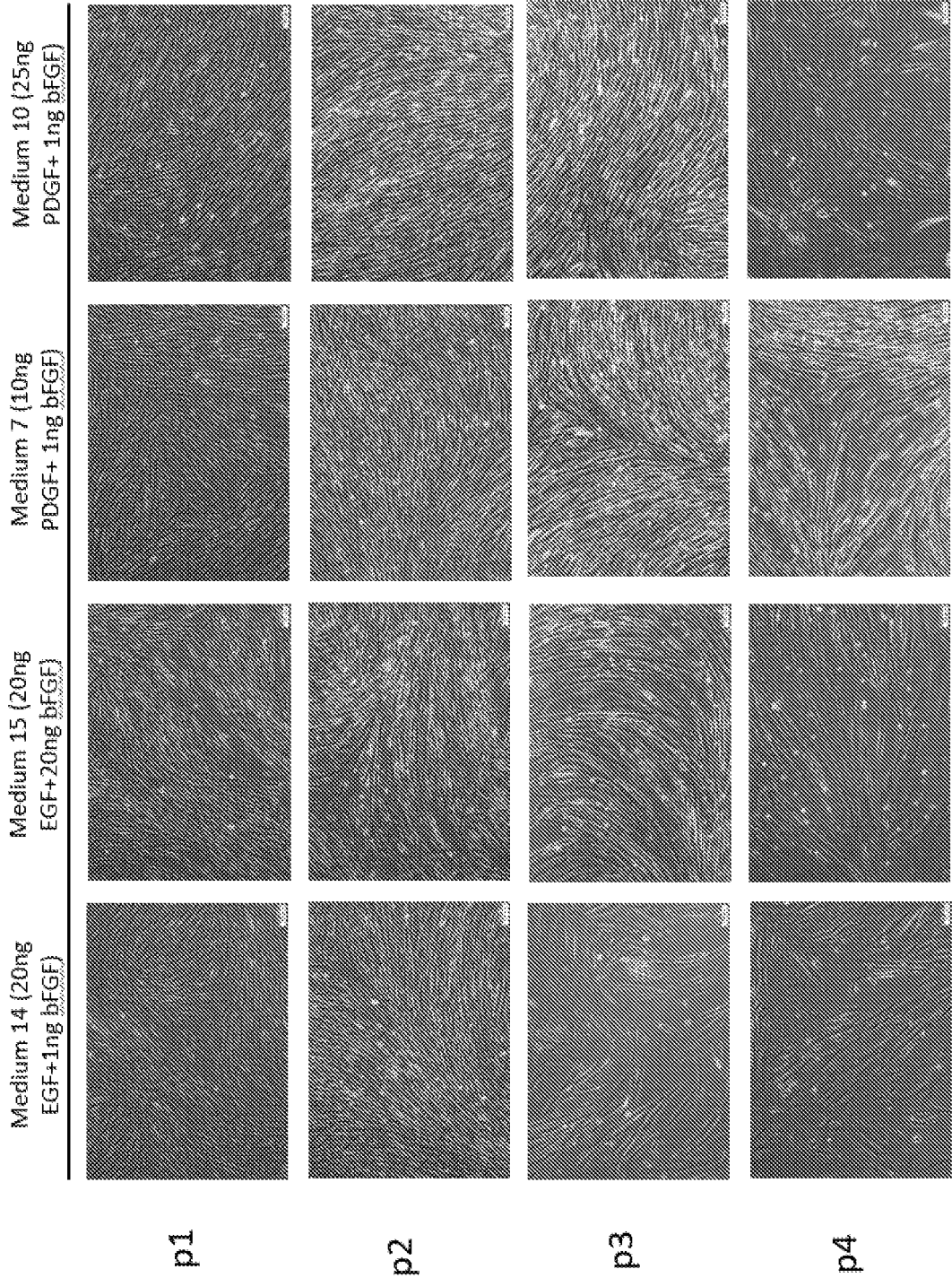


FIG. 8

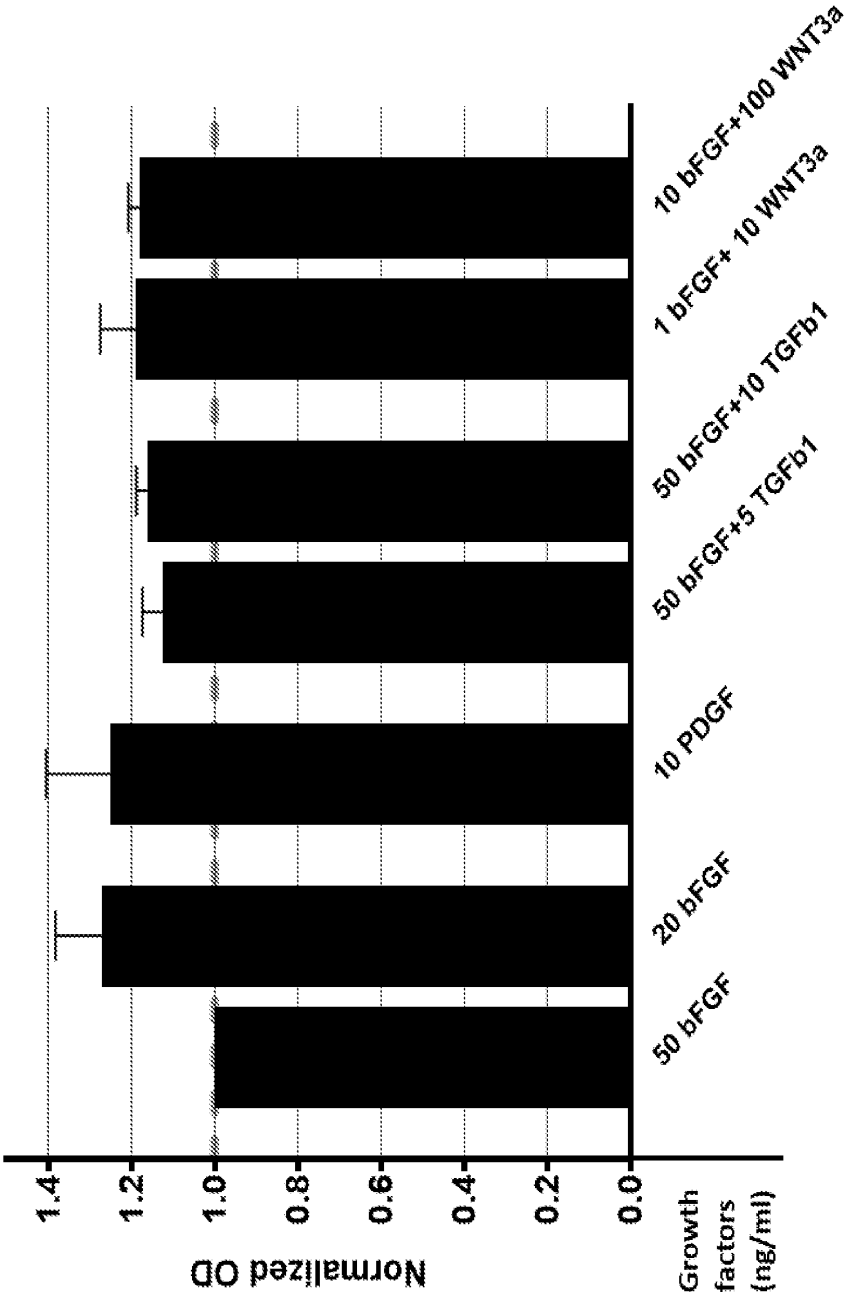


FIG. 9A

50 ng/ml bFGF (control)

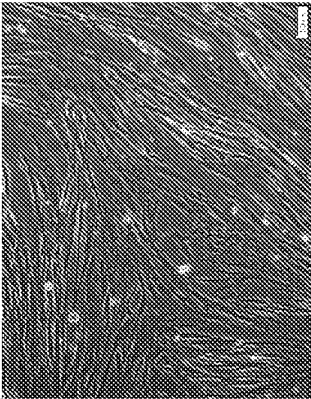


FIG. 9B

20 ng/ml bFGF



FIG. 9C

10 ng/ml PDGF-BB

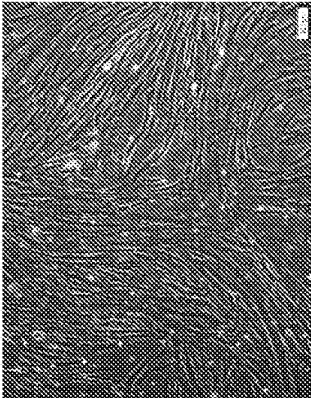


FIG. 9D

50 ng/ml bFGF+
5ng/ml TGFβ1

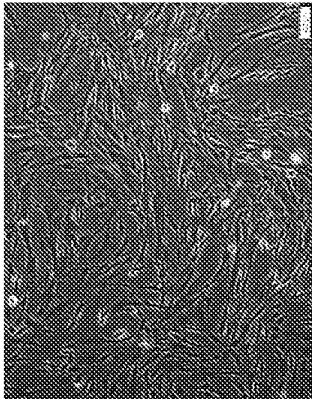


FIG. 9E

50 ng/ml bFGF+
10ng/ml TGFβ1

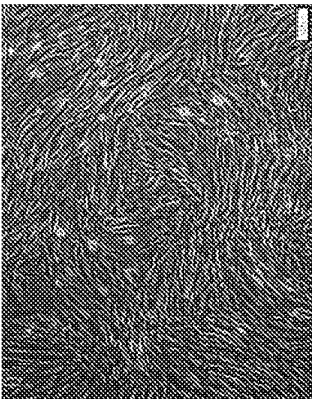


FIG. 9F

1 ng/ml bFGF+
10ng/ml Wnt3A

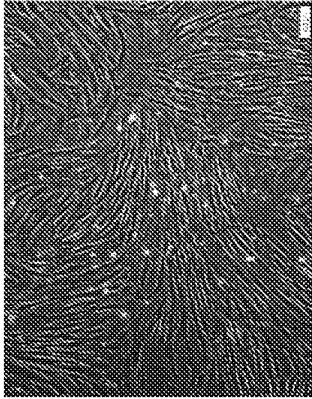


FIG. 9G

10 ng/ml bFGF+
100ng/ml Wnt3A

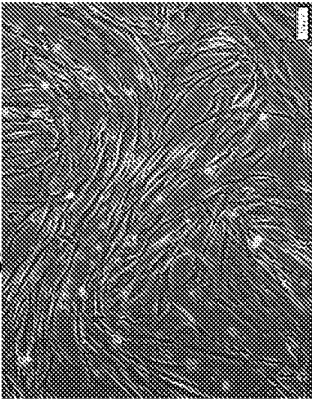
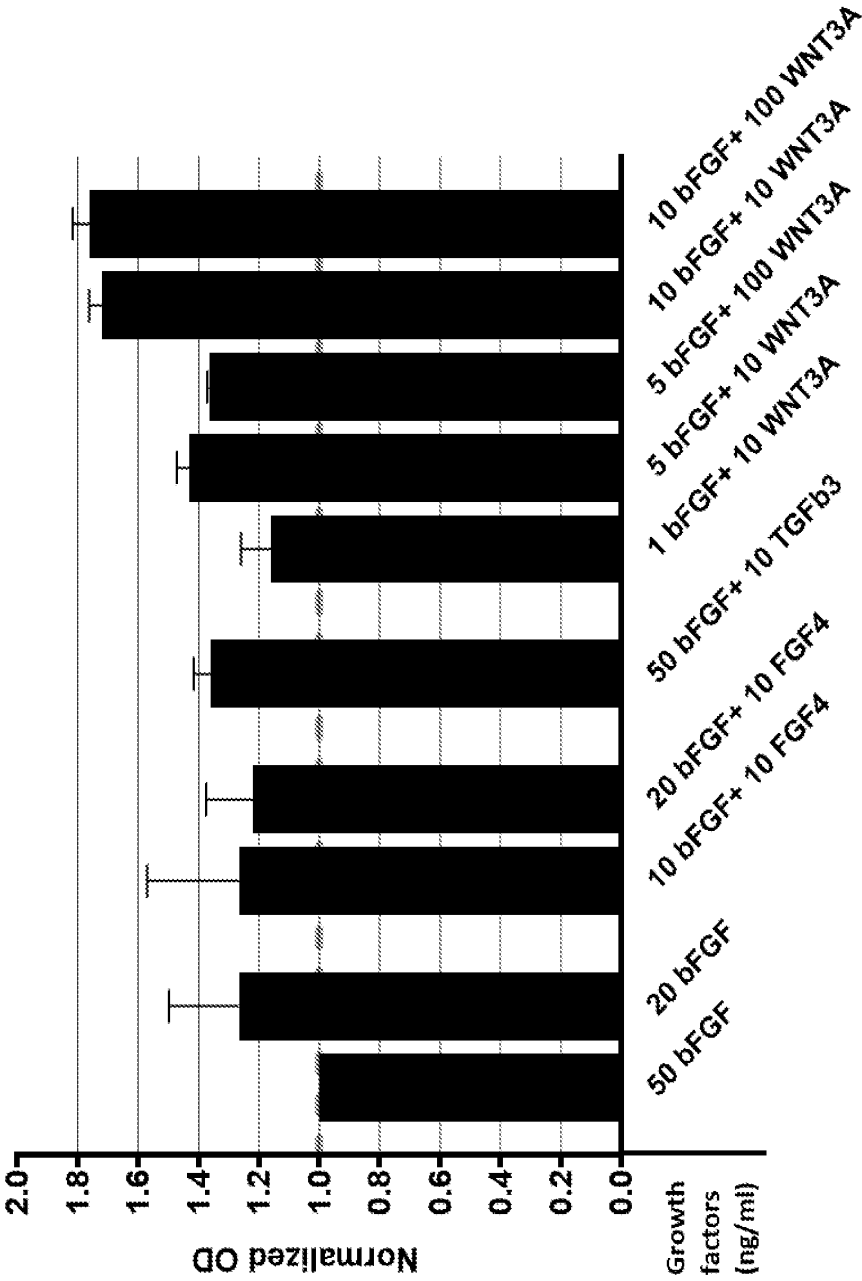
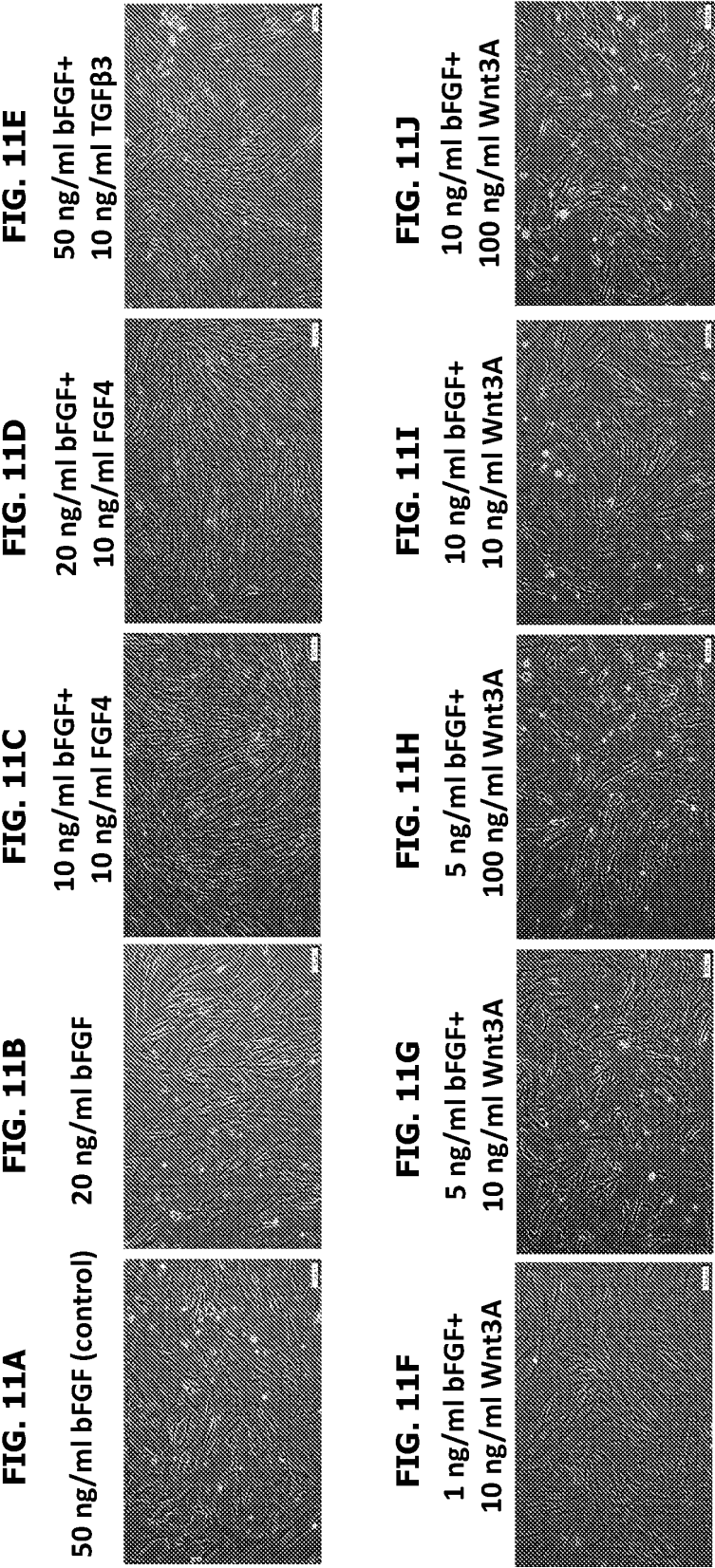


FIG. 10





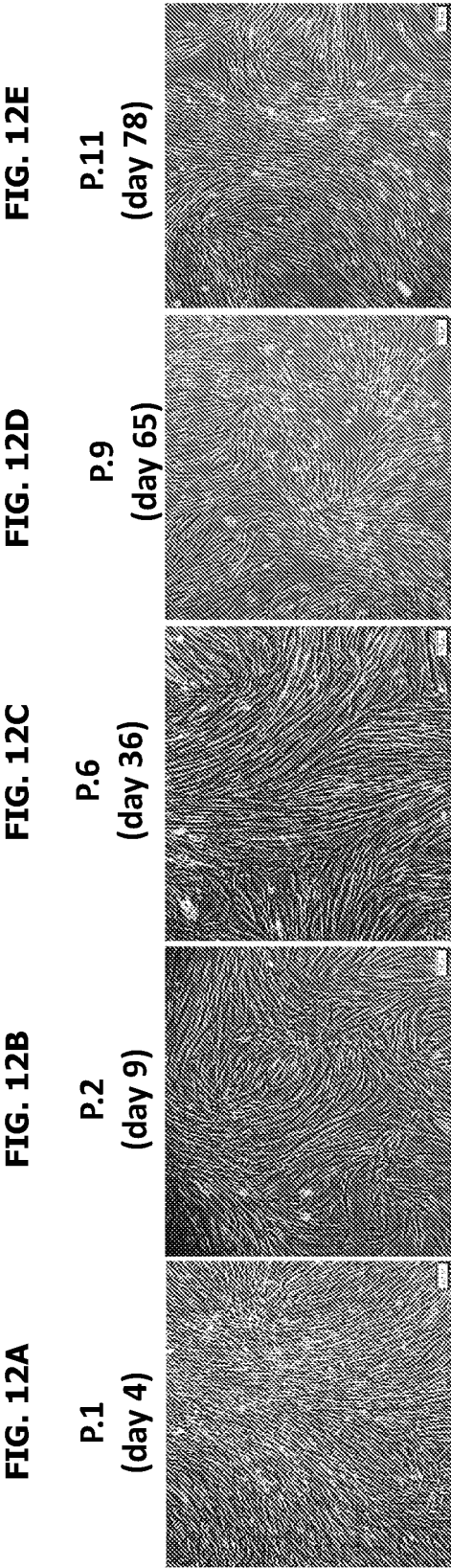


FIG. 12F

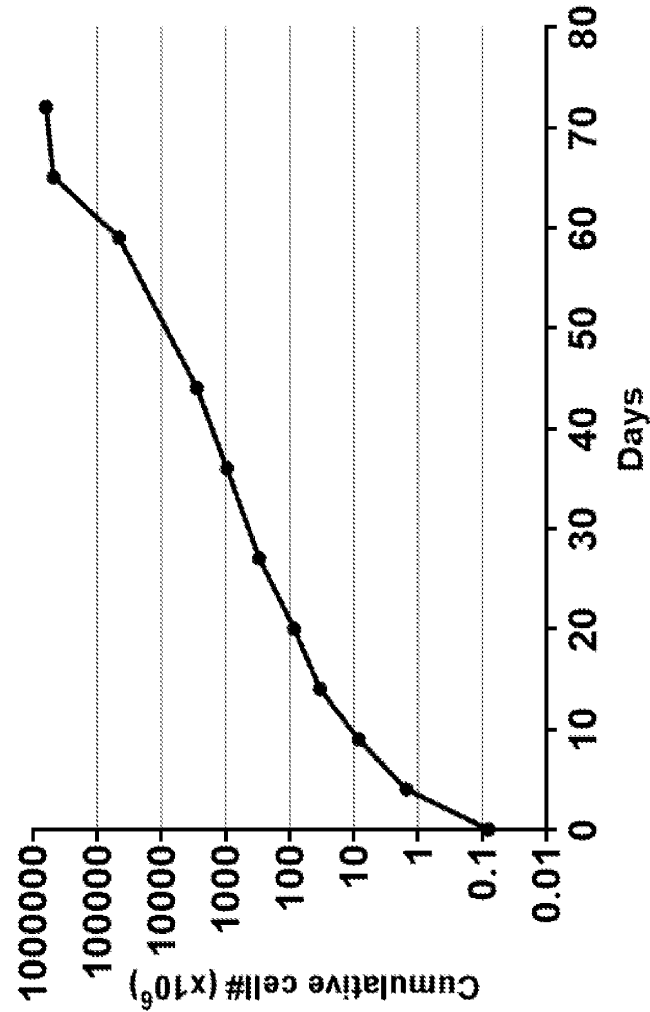


FIG. 13

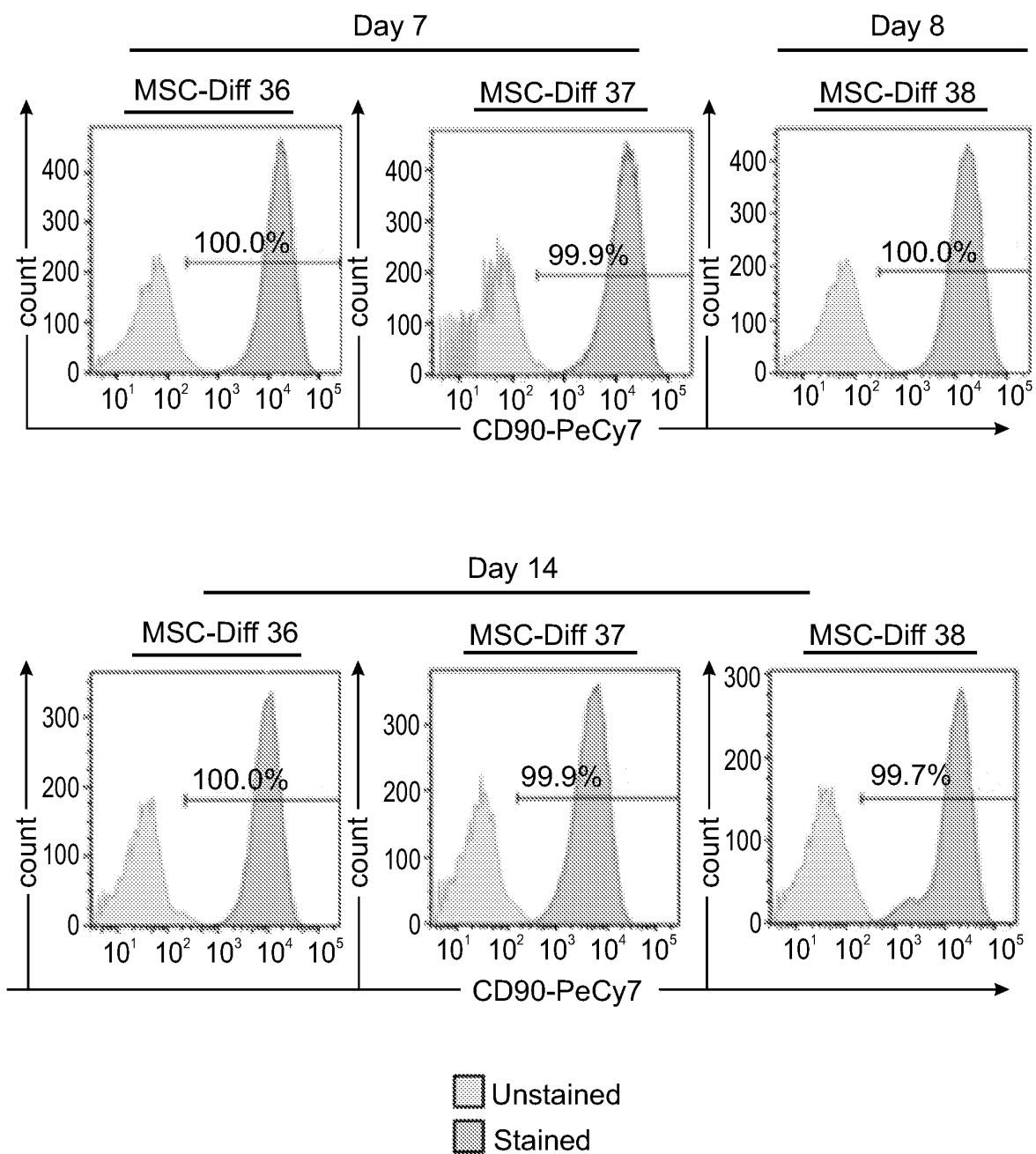


FIG. 14

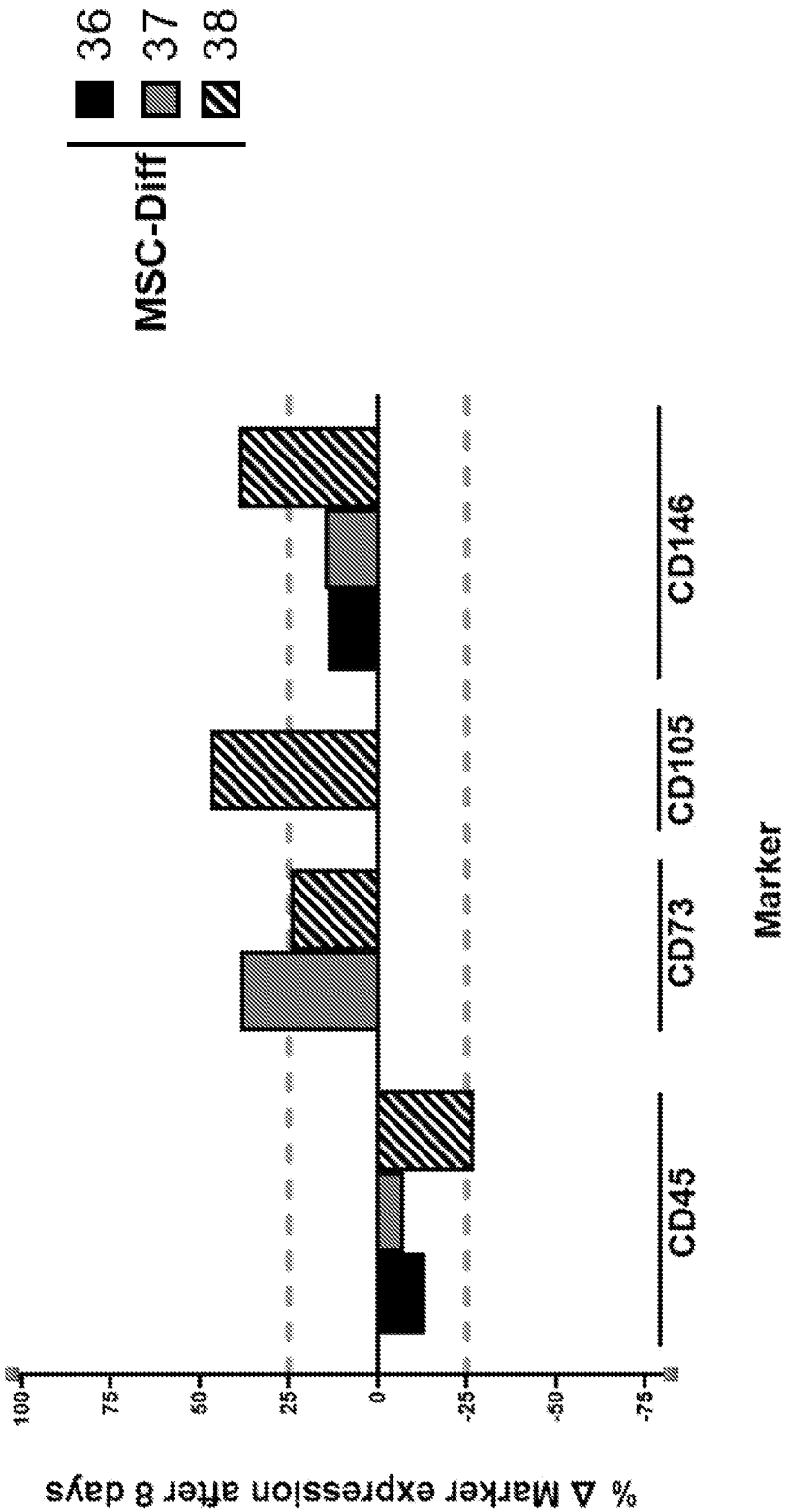
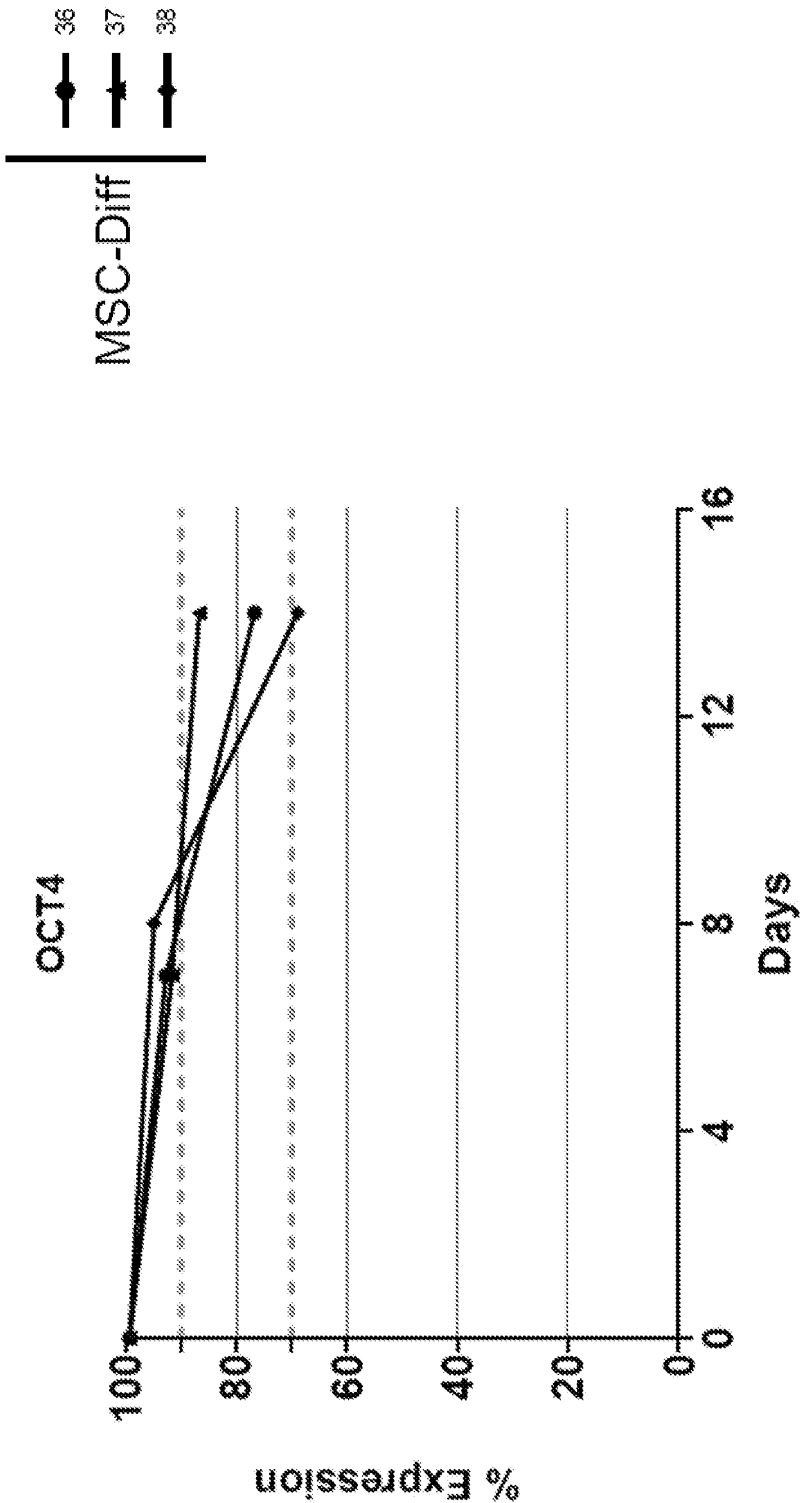


FIG. 15



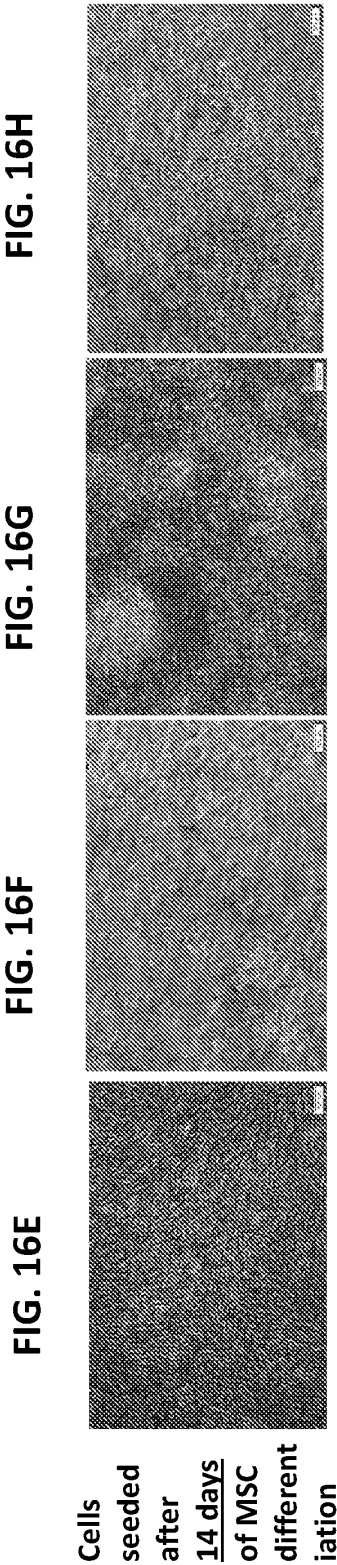
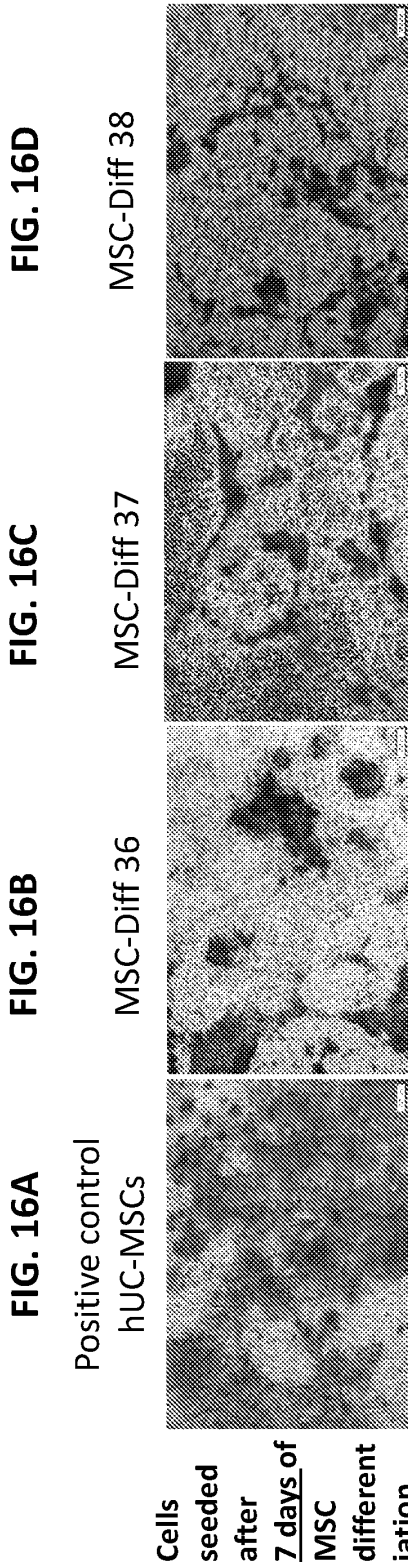


FIG. 17A
Positive control
hUC-MSCs

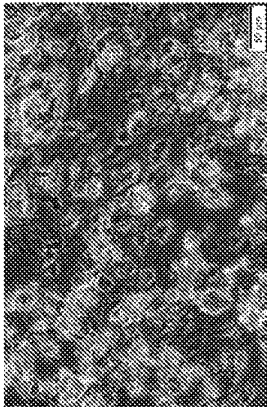


FIG. 17B
MSC-Diff 36

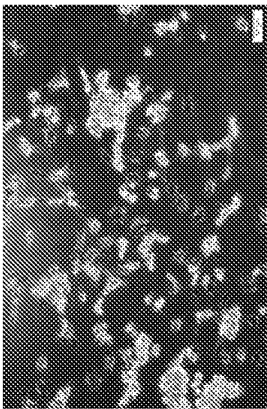


FIG. 17C
MSC-Diff 37



FIG. 17D
MSC-Diff 38

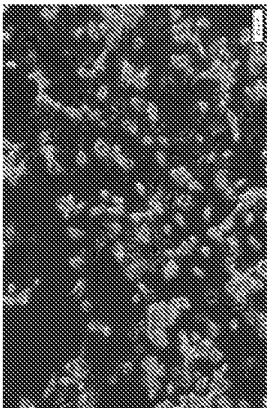


FIG. 18A

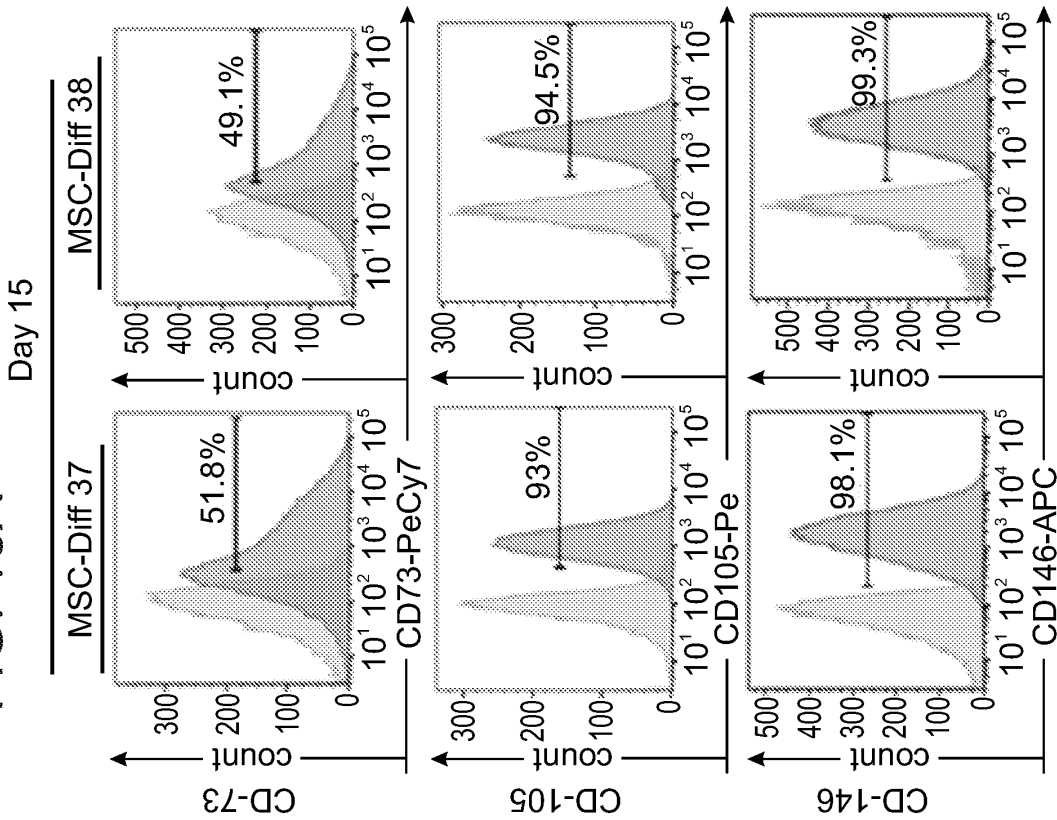


FIG. 18B

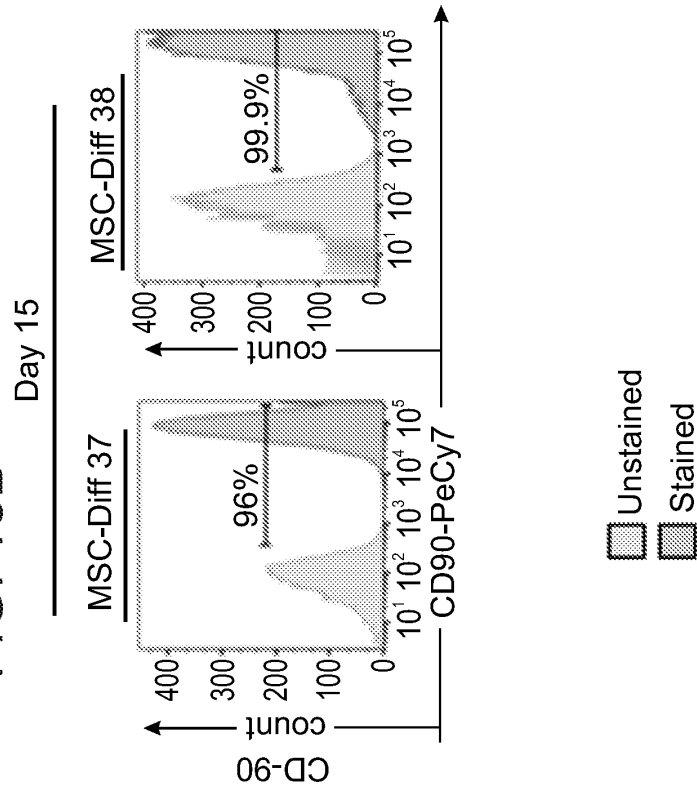


FIG. 19

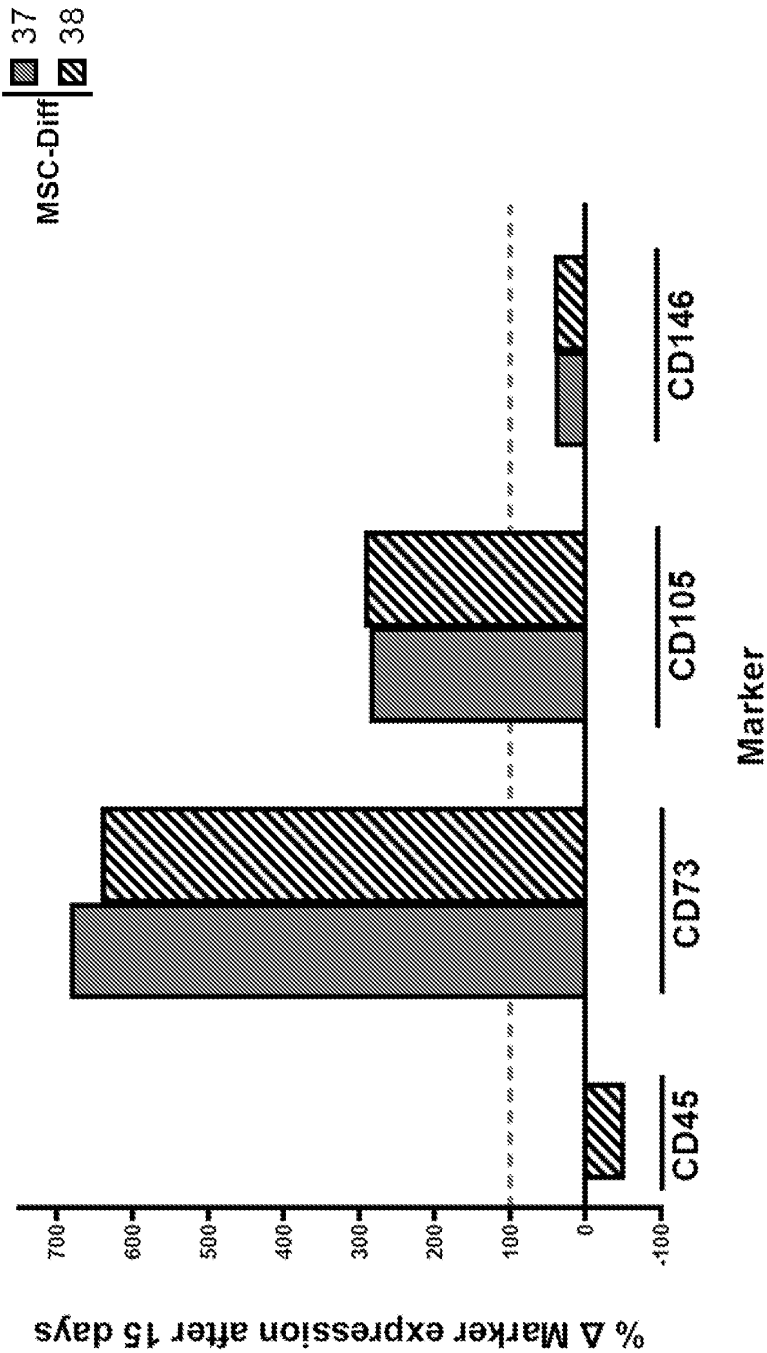


FIG. 20A
Positive control
hUC-MSCs

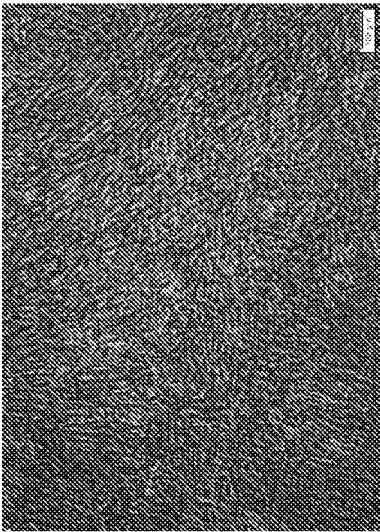


FIG. 20B
MSC-Diff 37

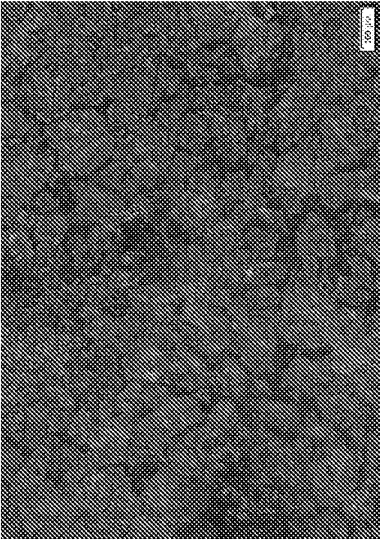


FIG. 20C
MSC-Diff 38

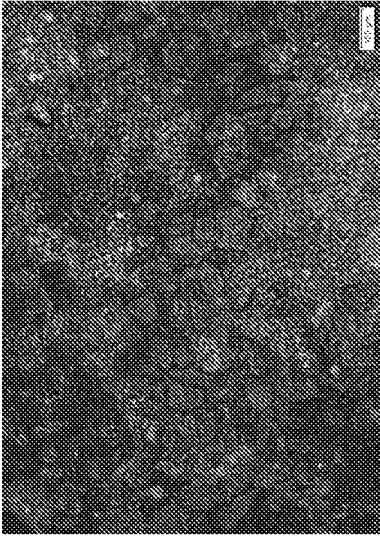


FIG. 21A

Positive control
hUC-MSCs

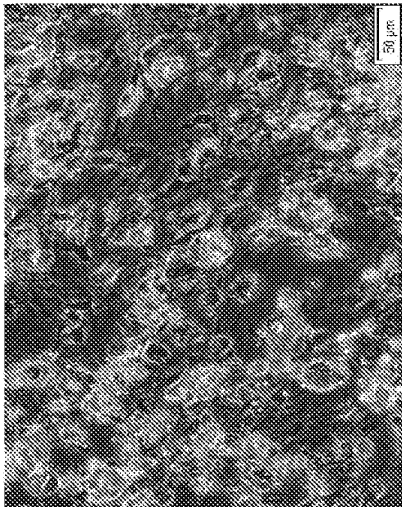


FIG. 21B

MSC-Diff 37

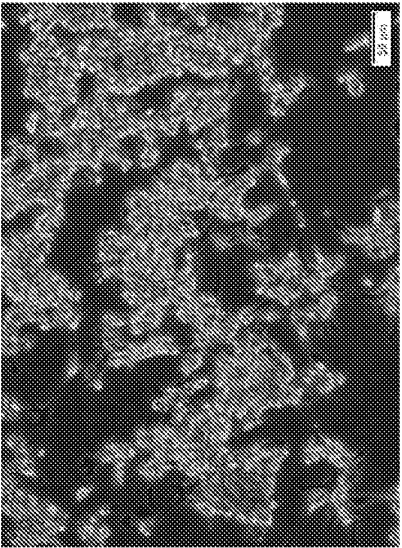


FIG. 21C

MSC-Diff 38

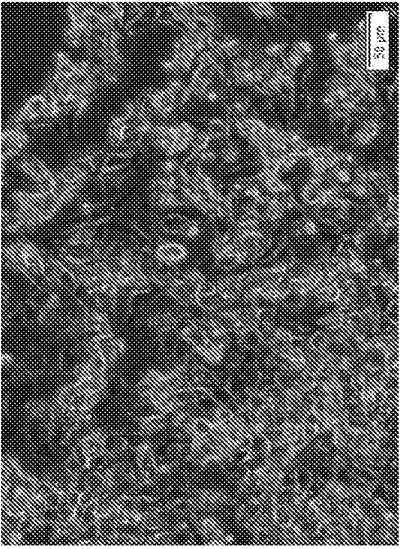


FIG. 22A

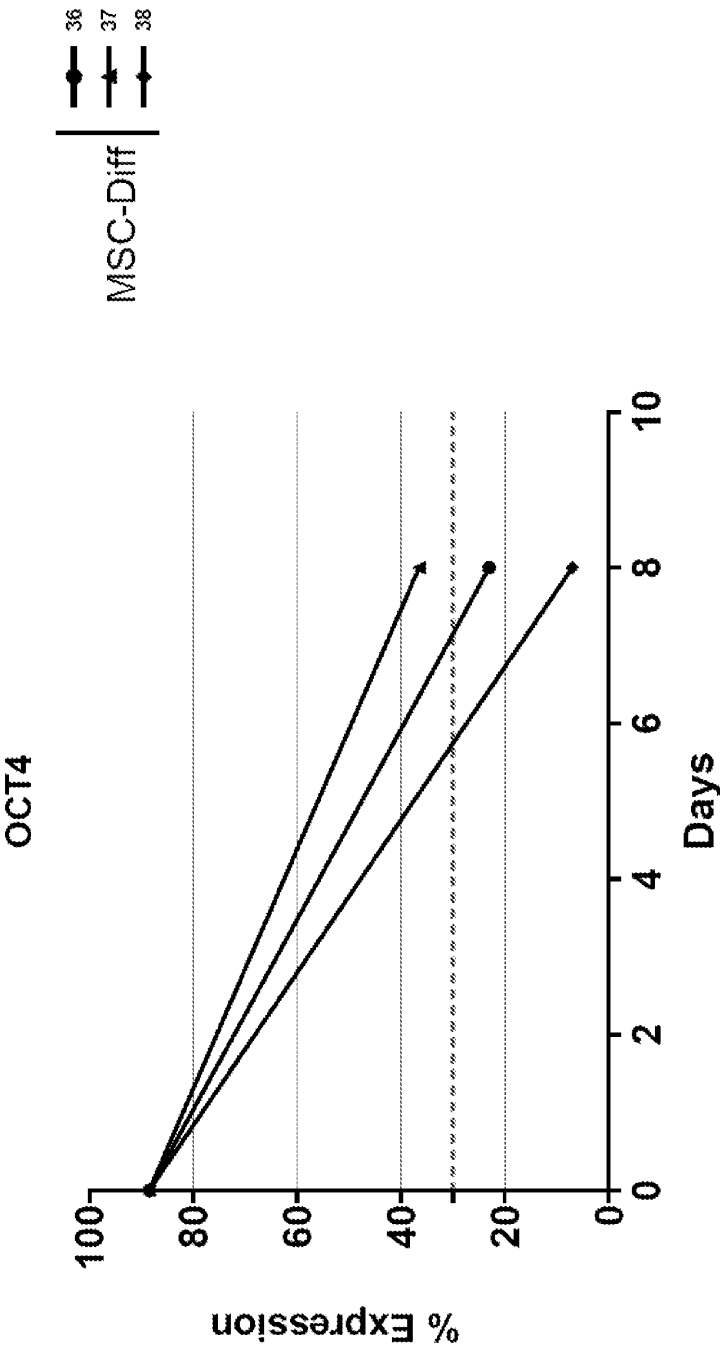


FIG. 22B

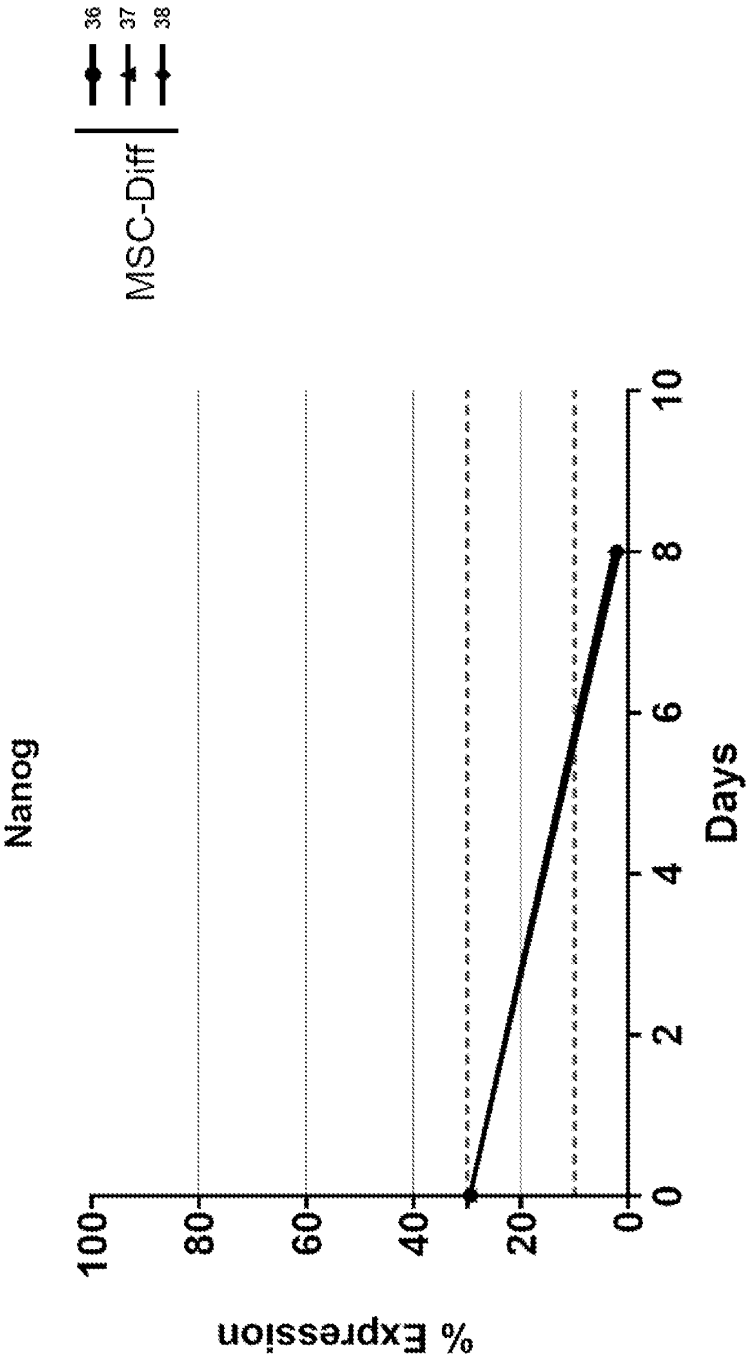


FIG. 23A

Positive control
ahUC-MSCs

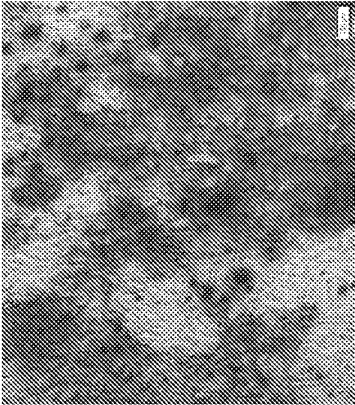


FIG. 23B

MSC-Diff 36

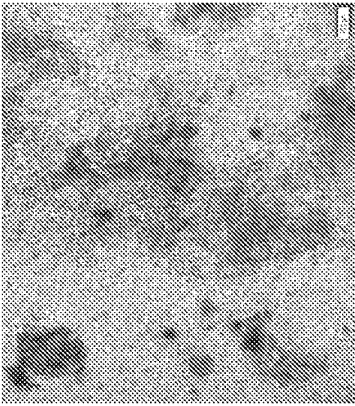


FIG. 23C

MSC-Diff 37

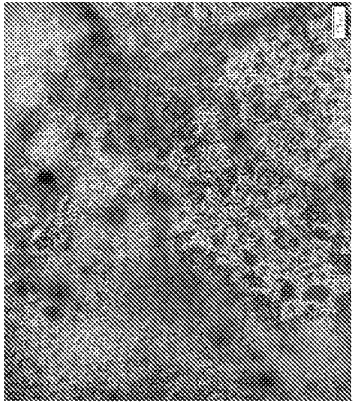


FIG. 23D

MSC-Diff 38

