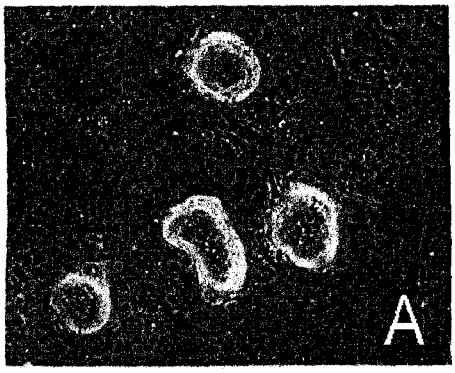


FIG. 1A

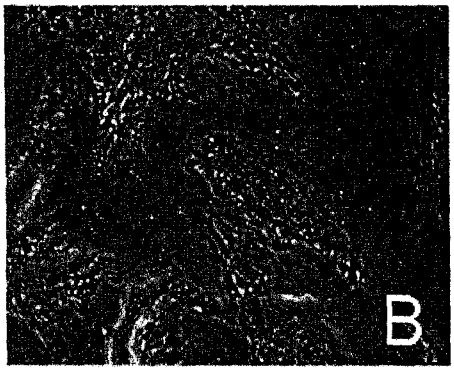


FIG. 1B

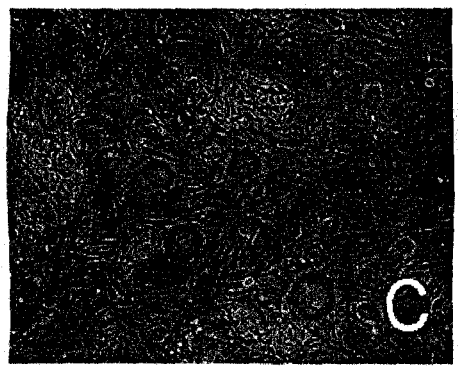


FIG. 1C

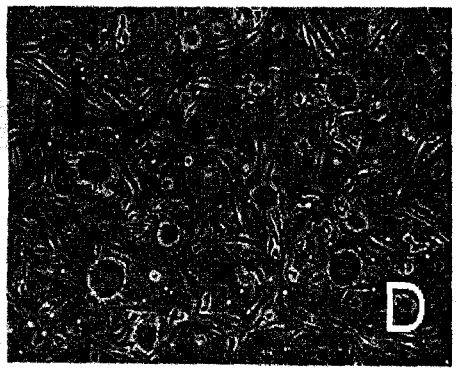


FIG. 1D

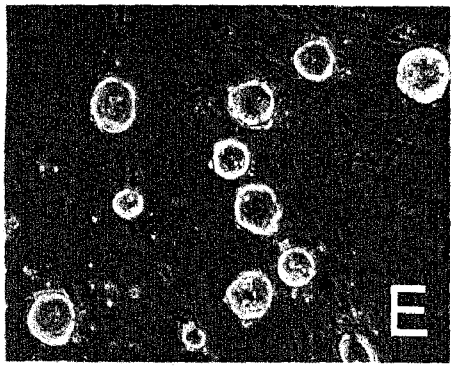


FIG. 1E

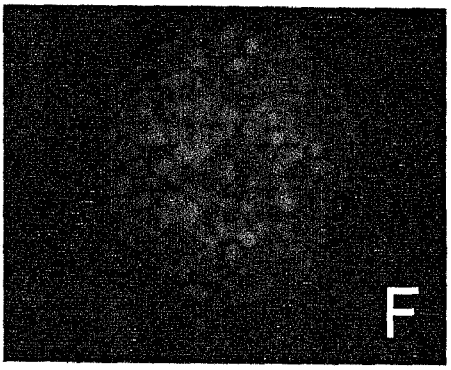


FIG. 1F

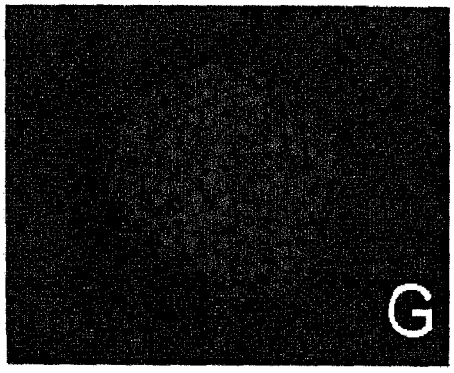


FIG. 1G

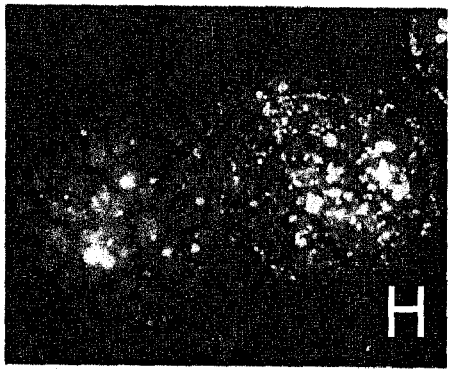


FIG. 1H

FIG. 1I

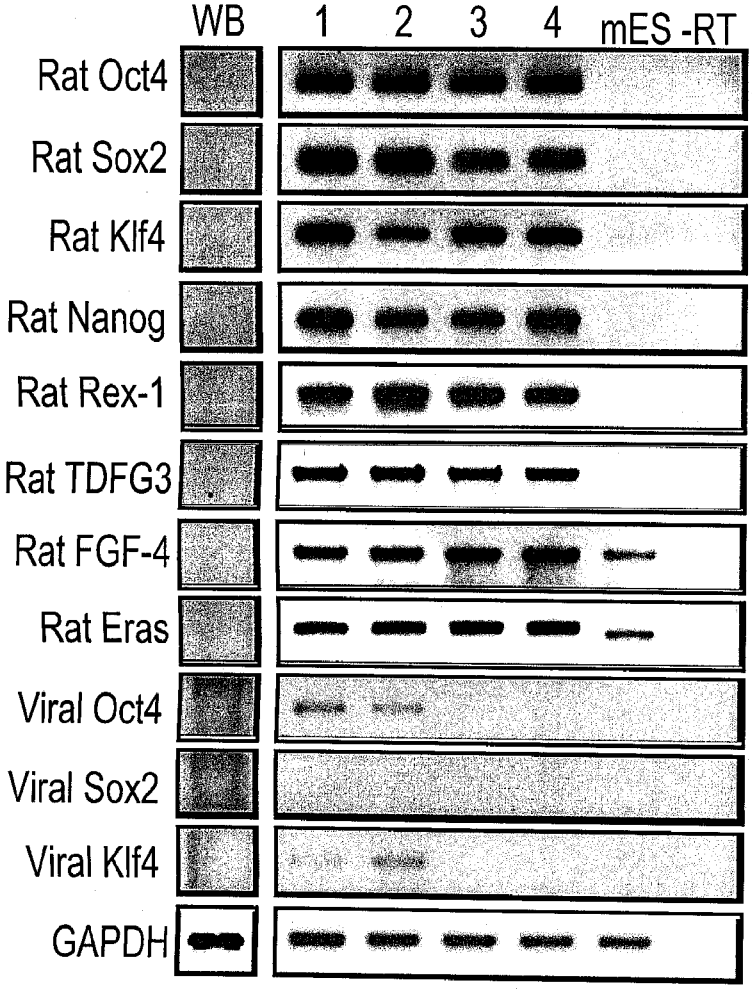


FIG. 1J

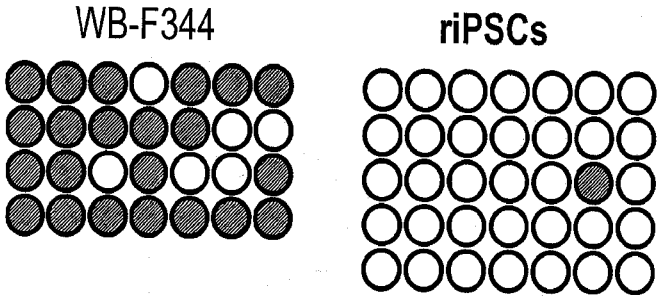
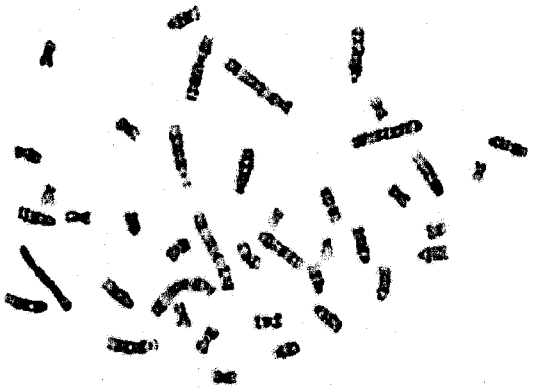


FIG. 1K



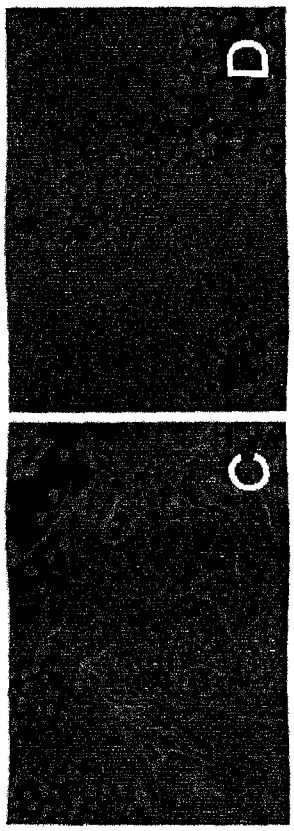


FIG. 2A

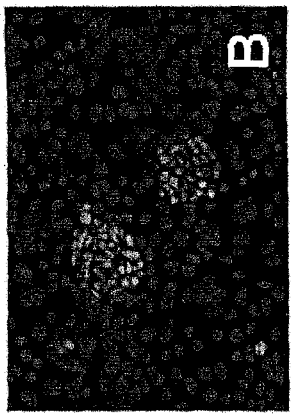


FIG. 2B

FIG. 2C

FIG. 2D



FIG. 2E



FIG. 2F



FIG. 2G

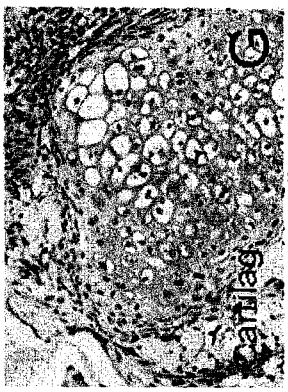


FIG. 2H

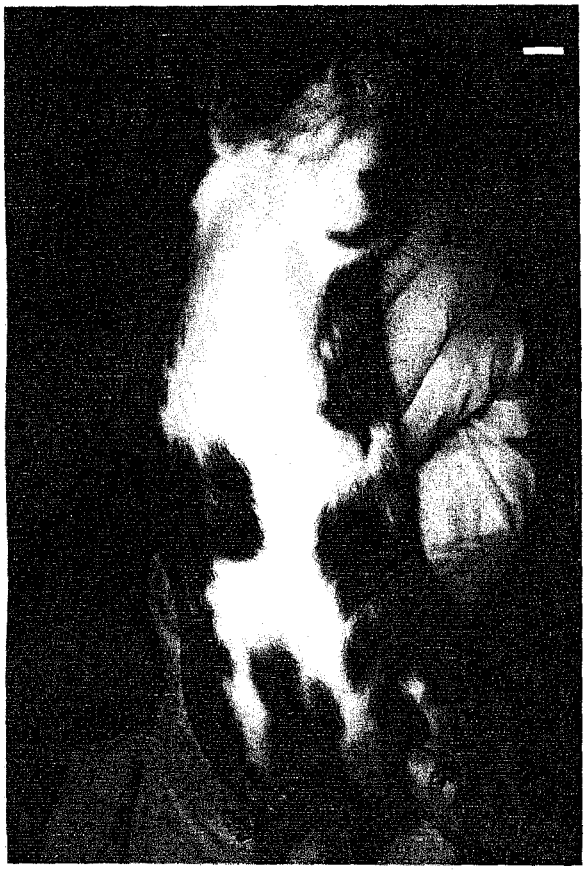


FIG. 2I

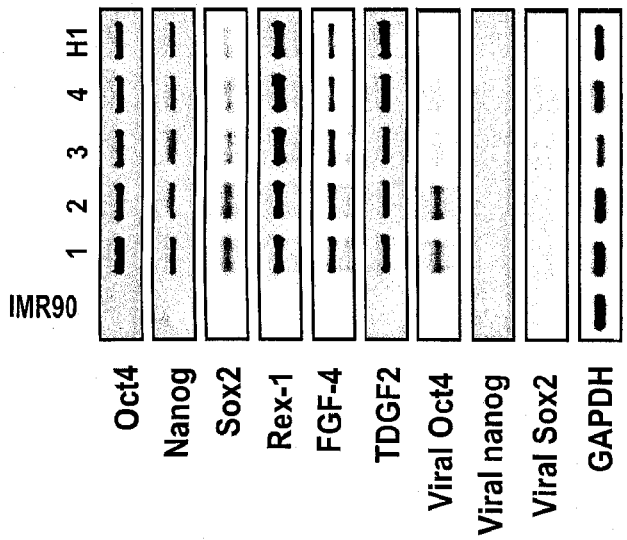


FIG. 3J

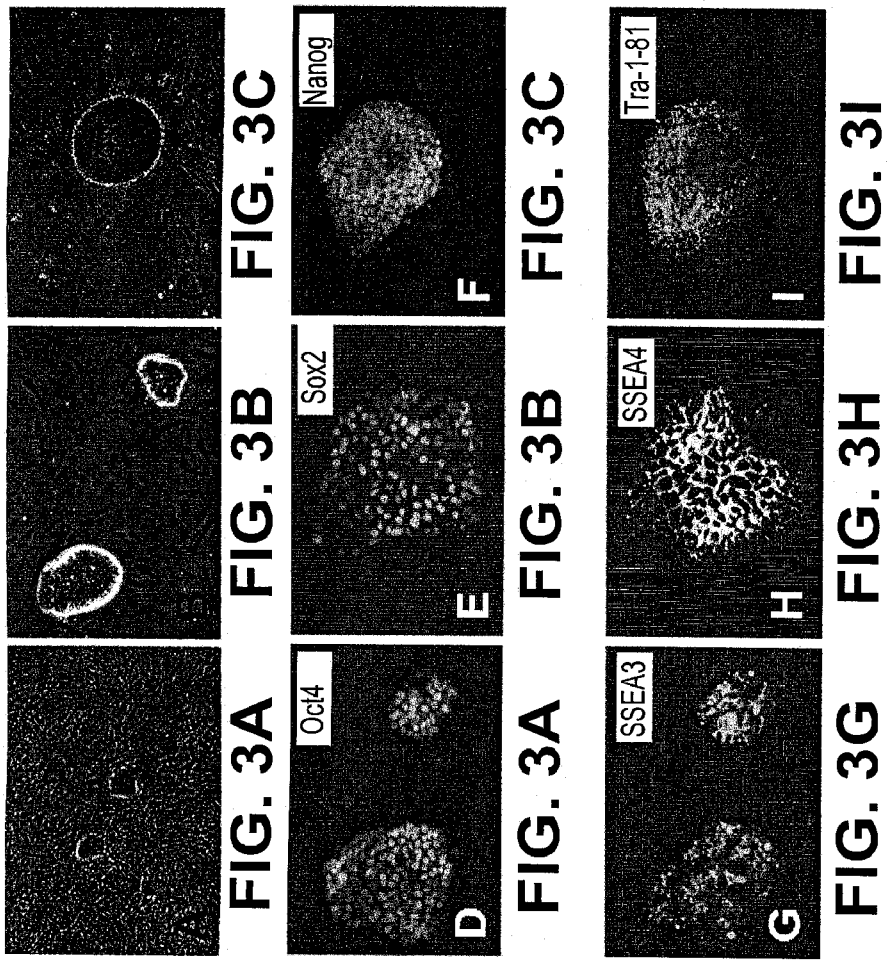


FIG. 3A FIG. 3B FIG. 3C

FIG. 3A FIG. 3B FIG. 3C

FIG. 3G FIG. 3H FIG. 3I

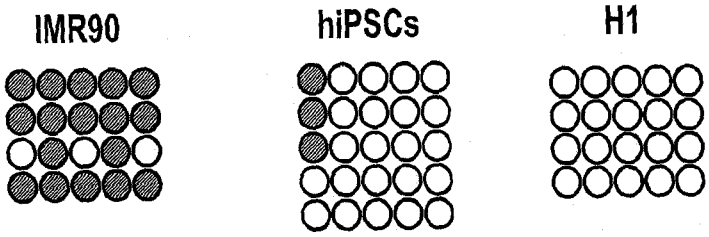

IMR90
hiPSCs
H1

FIG. 3K

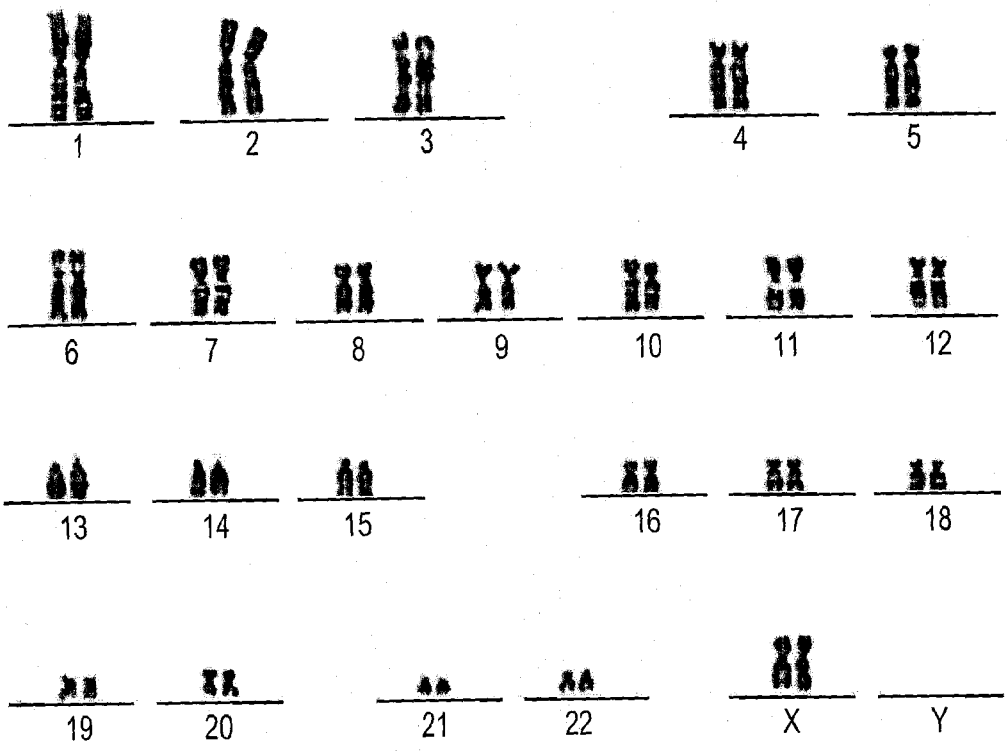

1
2
3
4
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6
7
8
9
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11
12
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14
15
16
17
18
19
20
21
22
X
Y

FIG. 3L

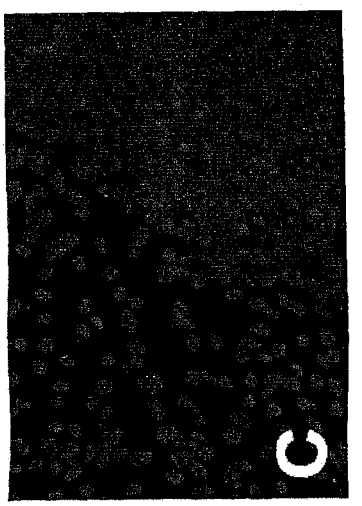


FIG. 4C

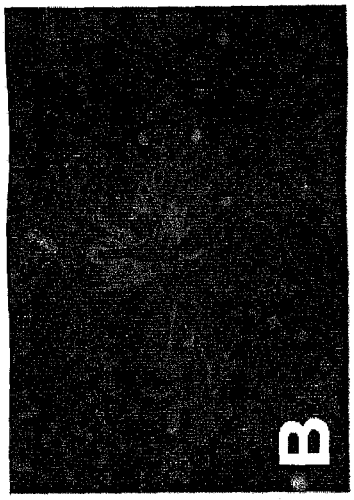


FIG. 4B

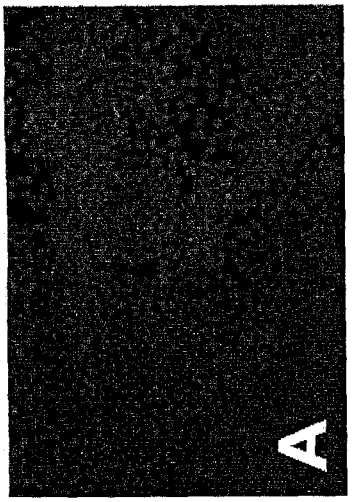


FIG. 4A

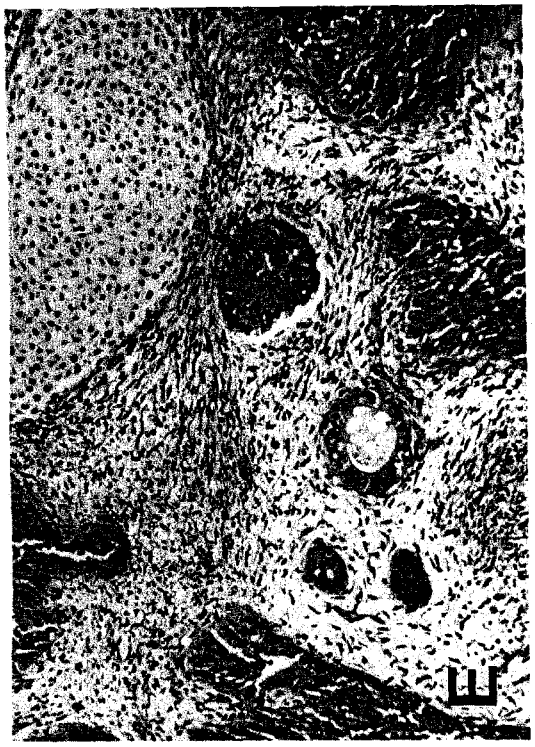


FIG. 4E

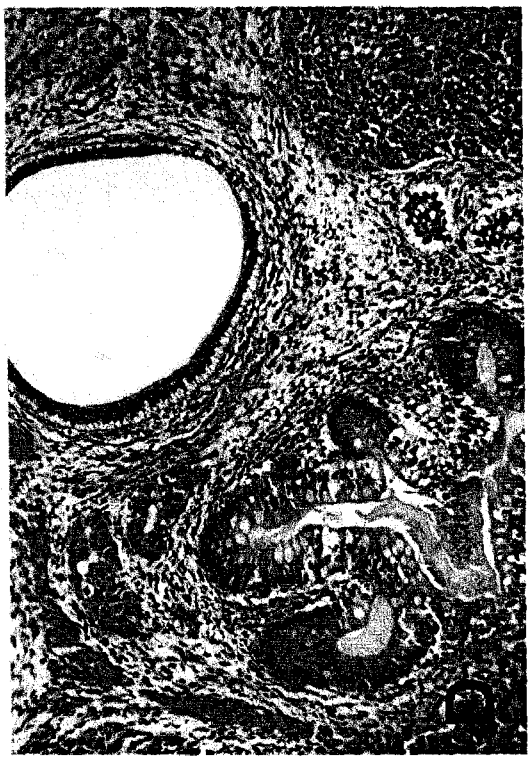


FIG. 4D

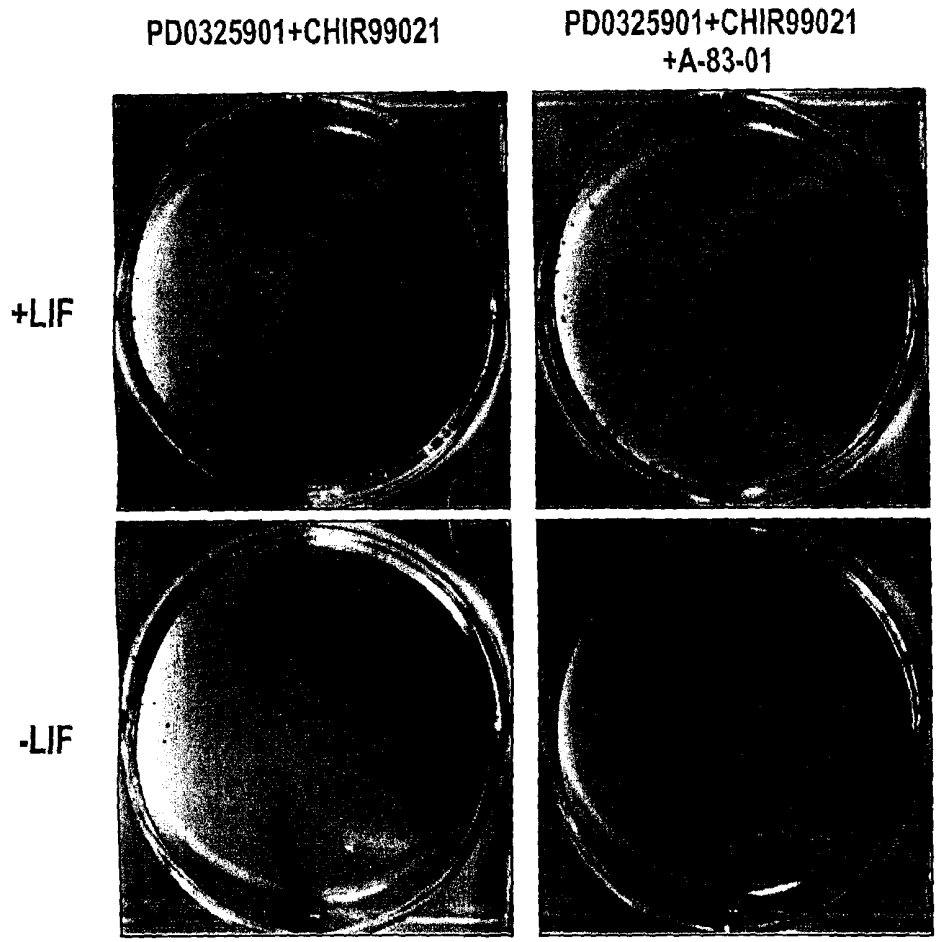

PD0325901+CHIR99021
PD0325901+CHIR99021
+A-83-01
+LIF
-LIF

FIG. 5A

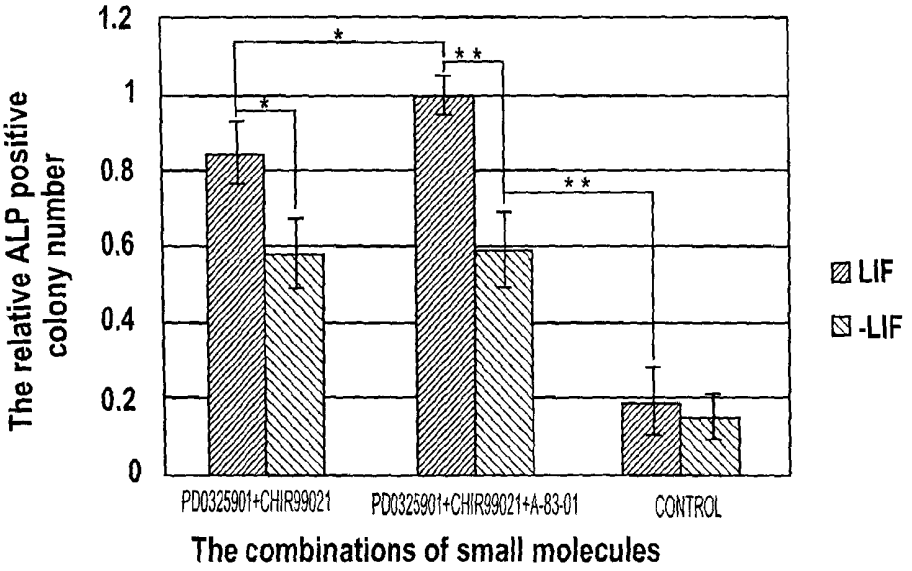

1.2
1
0.8
0.6
0.4
0.2
0
The relative ALP positive colony number
*
**
*
**
PD0325901+CHIR99021
PD0325901+CHIR99021+A-83-01
CONTROL
The combinations of small molecules
LIF
-LIF

FIG. 5B

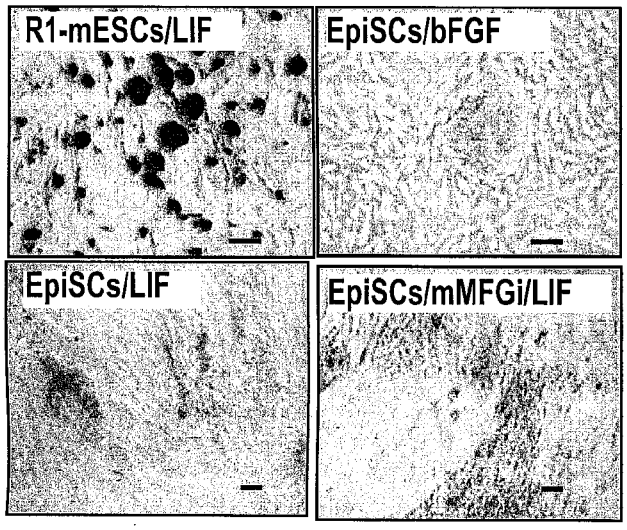
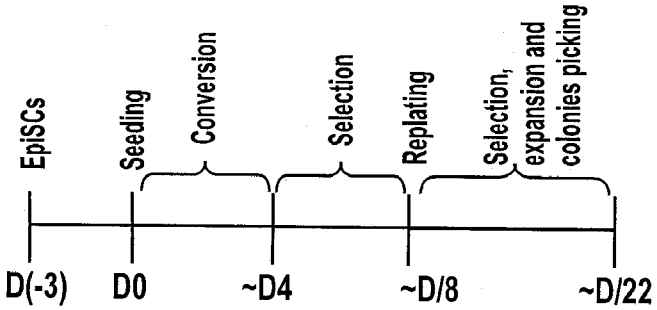


FIG. 6A

FIG. 6B



EpiSC/A-83-01/LIF

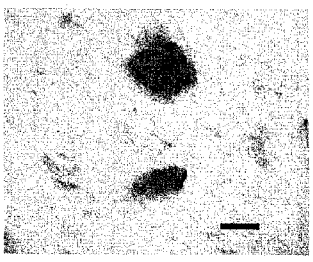


FIG. 6C

mAMFGi/LIF

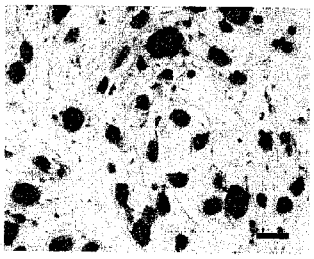


FIG. 6D

Parnate/mMFGi/LIF

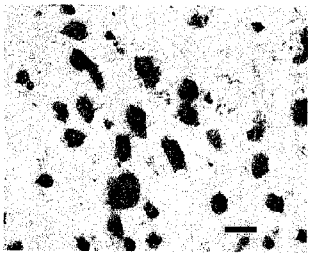


FIG. 6E

Parnate/mAMFGi/LIF

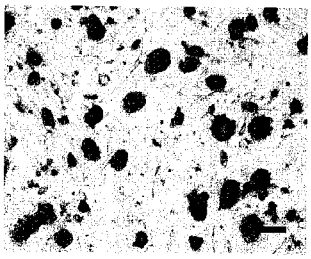


FIG. 6F

Efficiency of chimera generation

Clone	Number of transferred embryos	Number of recovered embryos/mice	Number of chimeras
mAMFGi	32	2 (Embryo)	0
	21	3 (Embryo)	0
Parnate/mMFGi	29	0 (Embryo)	0
Parnate/mAMFGi	43	4 (Embryo)	2
	15	3 (live-adult)	2
	21	6 (live-adult)	5

FIG. 7A

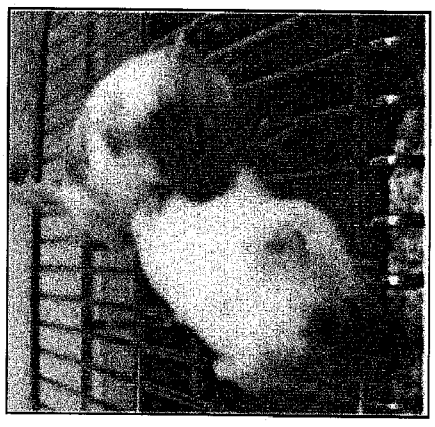


FIG. 7B

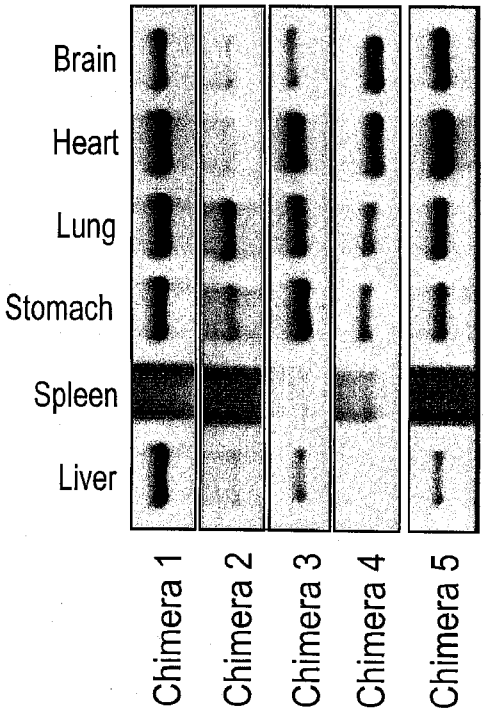


FIG. 7C

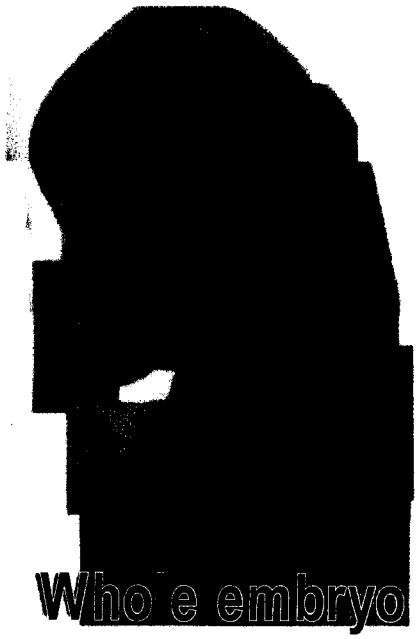

Whole embryo

FIG. 7D

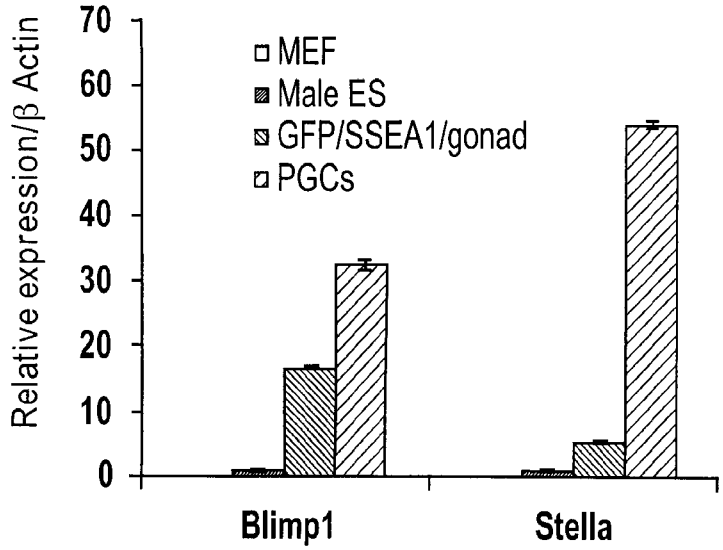

Relative expression/β Actin
70
60
50
40
30
20
10
0
MEF
Male ES
GFP/SSEA1/gonad
PGCs
Blimp1
Stella

FIG. 7E

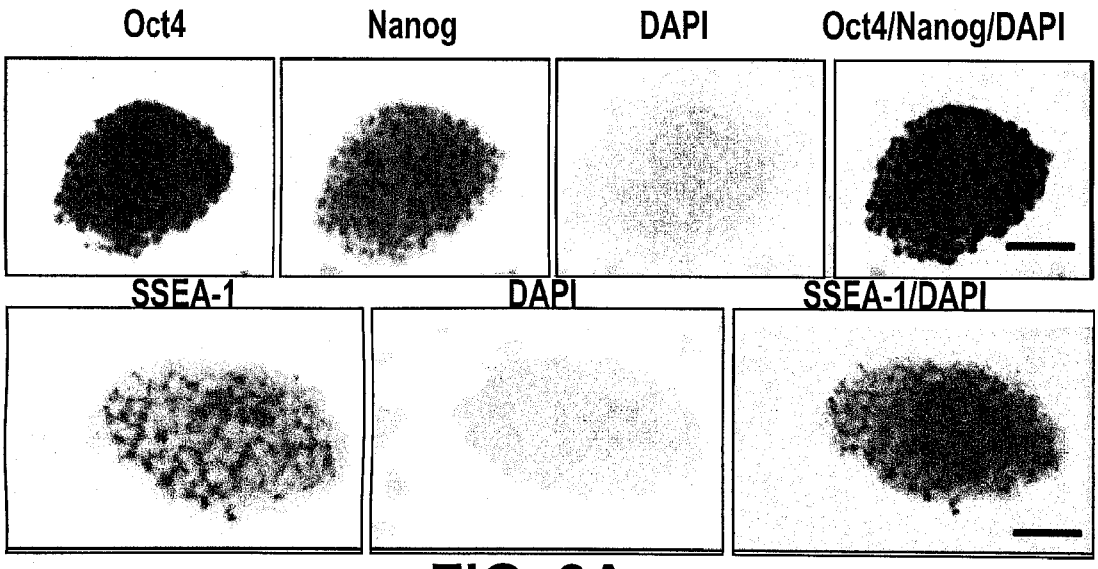

Oct4
Nanog
DAPI
Oct4/Nanog/DAPI
SSEA-1
DAPI
SSEA-1/DAPI

FIG. 8A

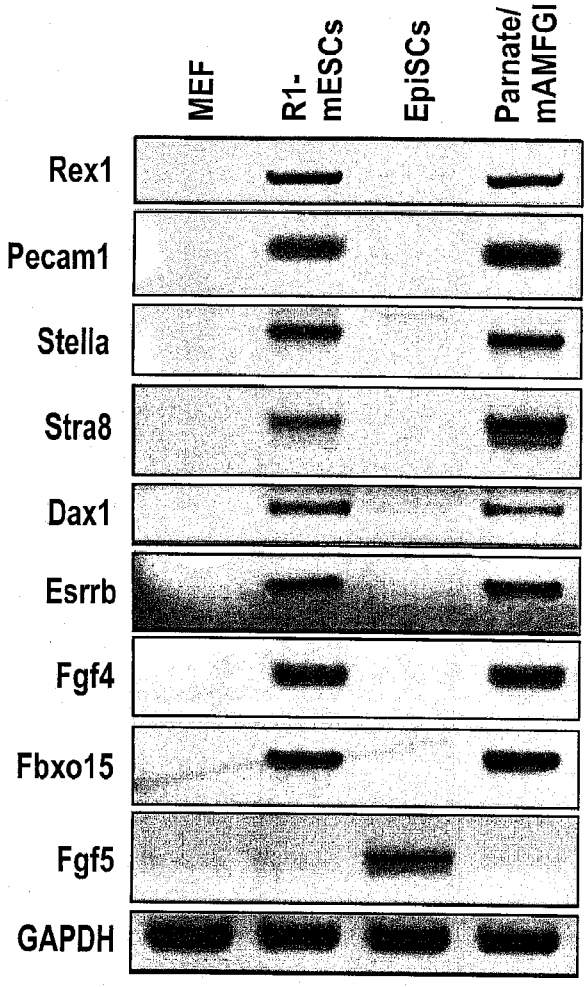

MEF
R1-mESCs
EpiSCs
Parnate/mAMFGI
Rex1
Pecam1
Stella
Stra8
Dax1
Esrrb
Fgf4
Fbxo15
Fgf5
GAPDH

FIG. 8B

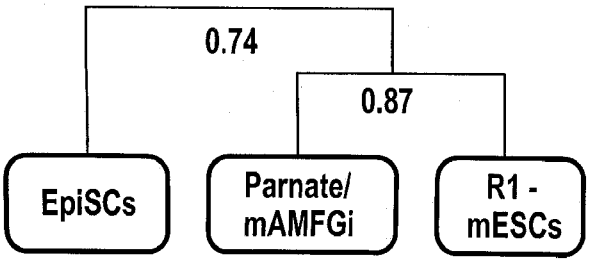


FIG. 8C

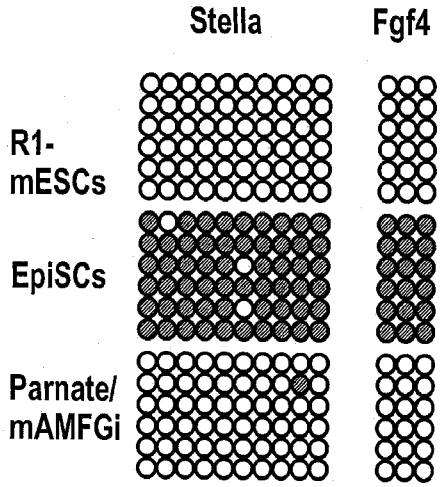


FIG. 8D

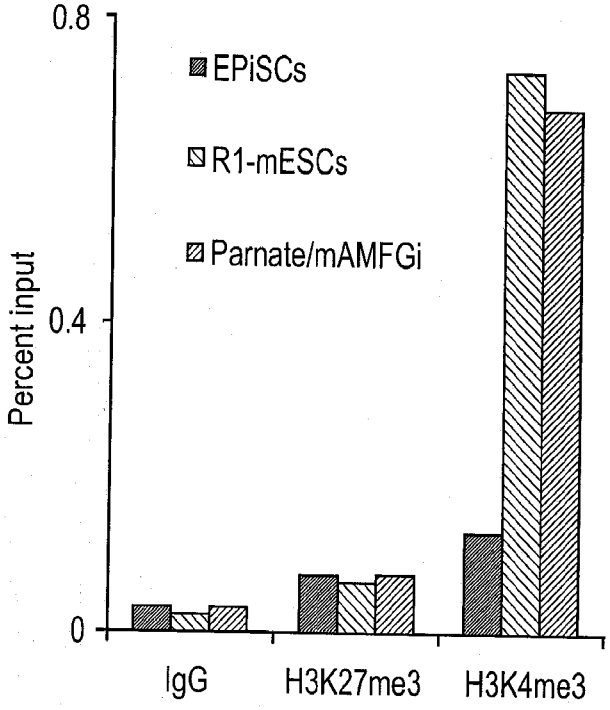


FIG. 8E

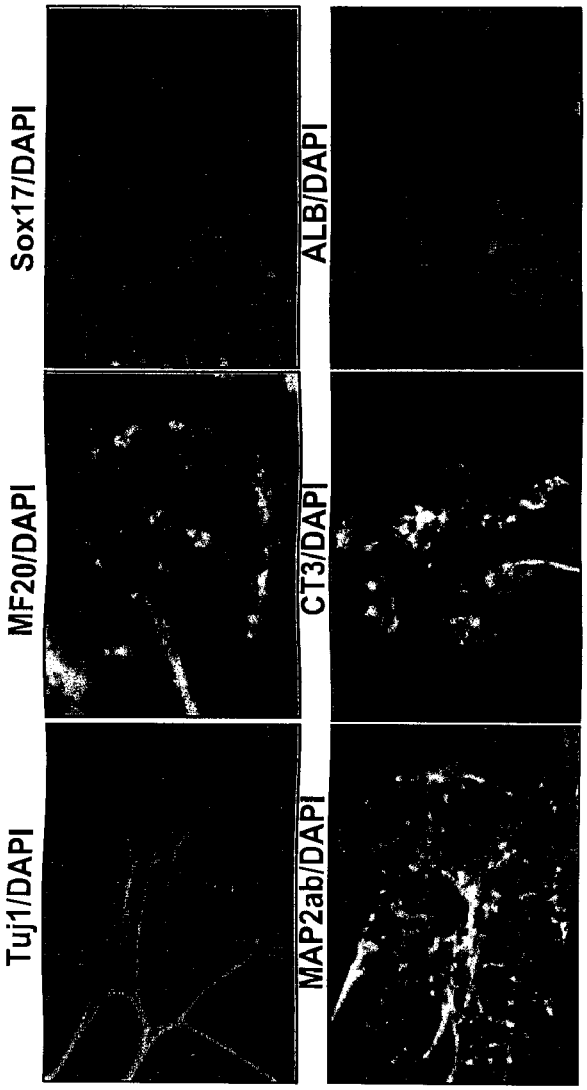


FIG. 9B

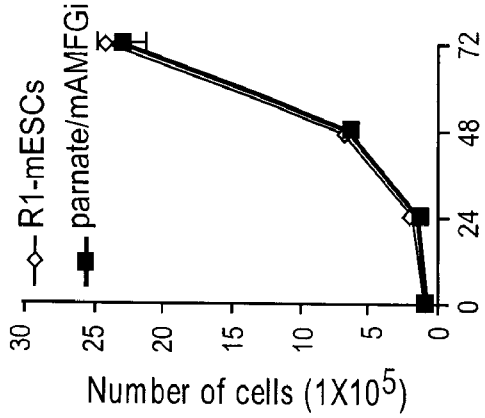


FIG. 9A

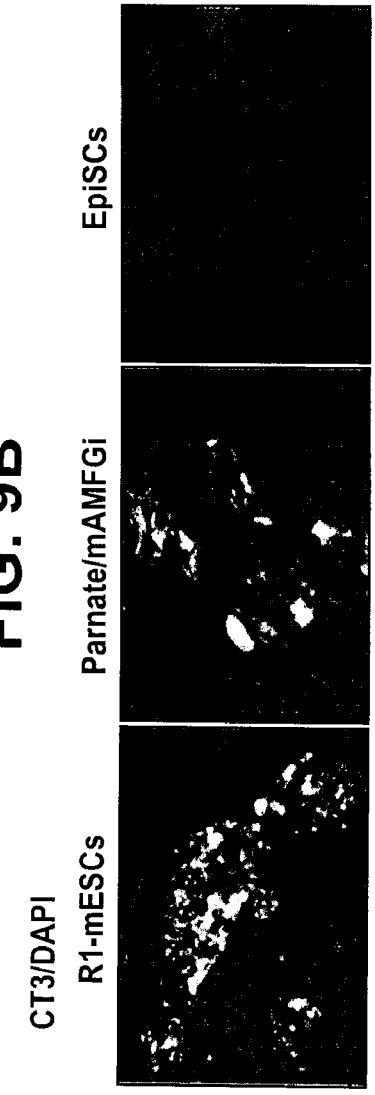


FIG. 9D

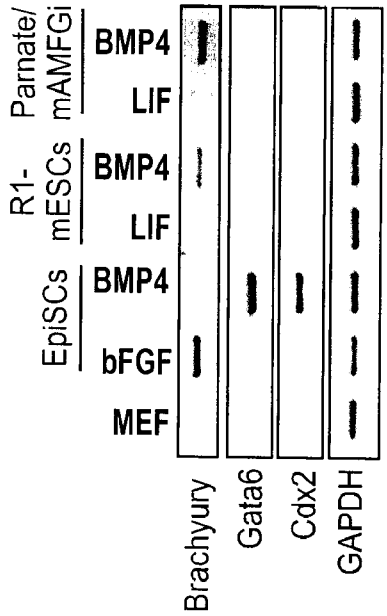


FIG. 9C

S1

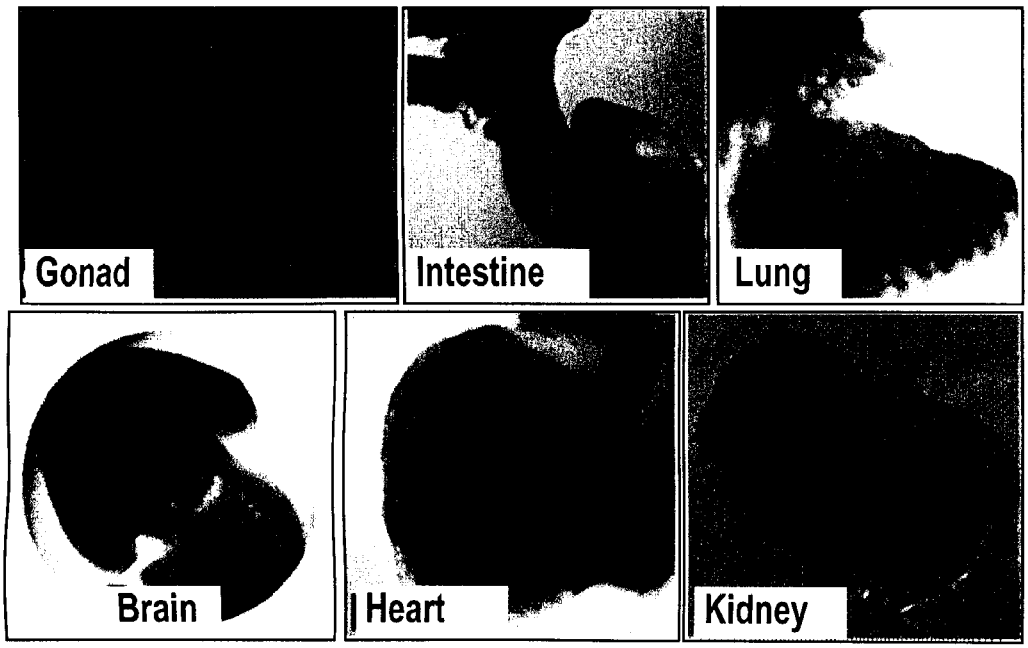


FIG. 10A

Summary of GFP genotyping

	Heart	Lung	Liver	Brain	Spleen
Chimera-1	+	+	+	+	-
Chimera-2	+	+	+	+	-
Chimera-3	+	+	+	+	+
Chimera-4	+	+	+	+	+
Chimera-5	+	+	+	+	-

FIG. 10B

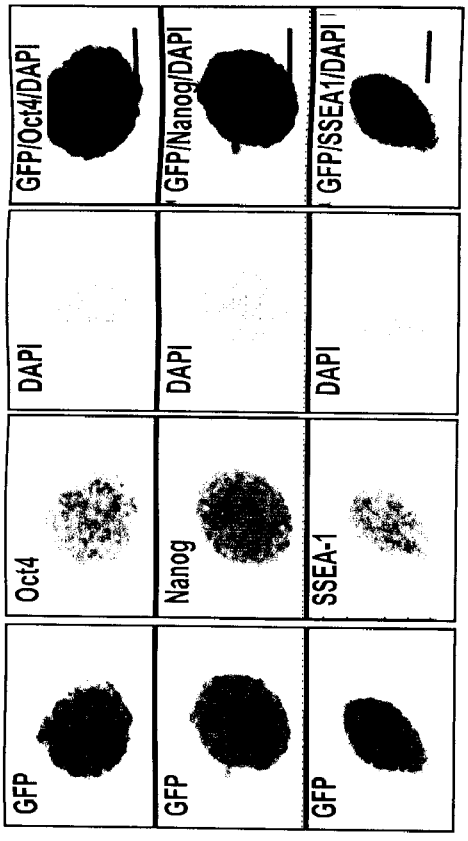


FIG. 11A

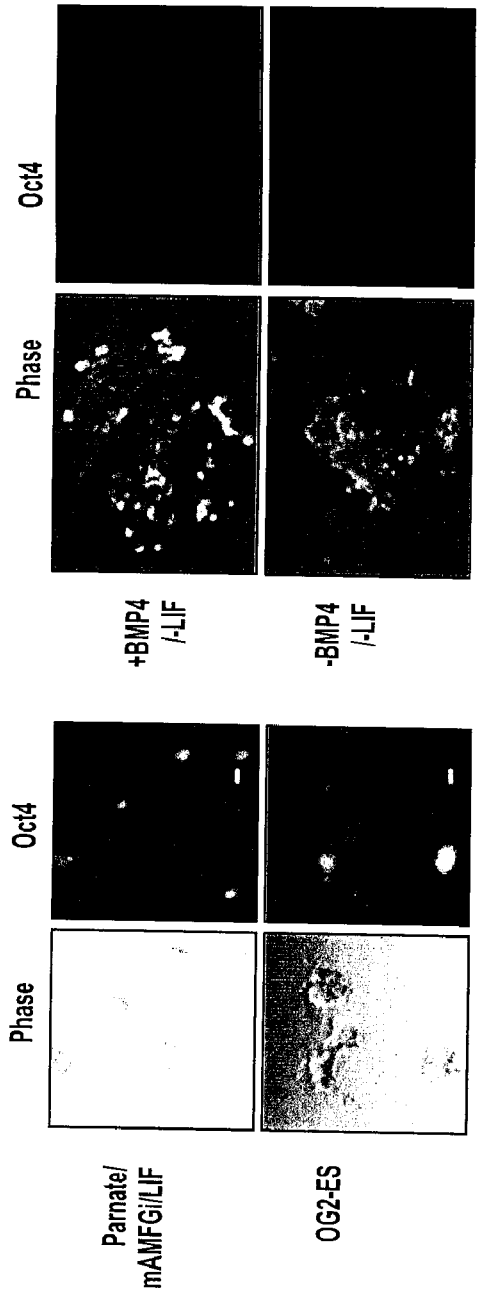


FIG. 11B

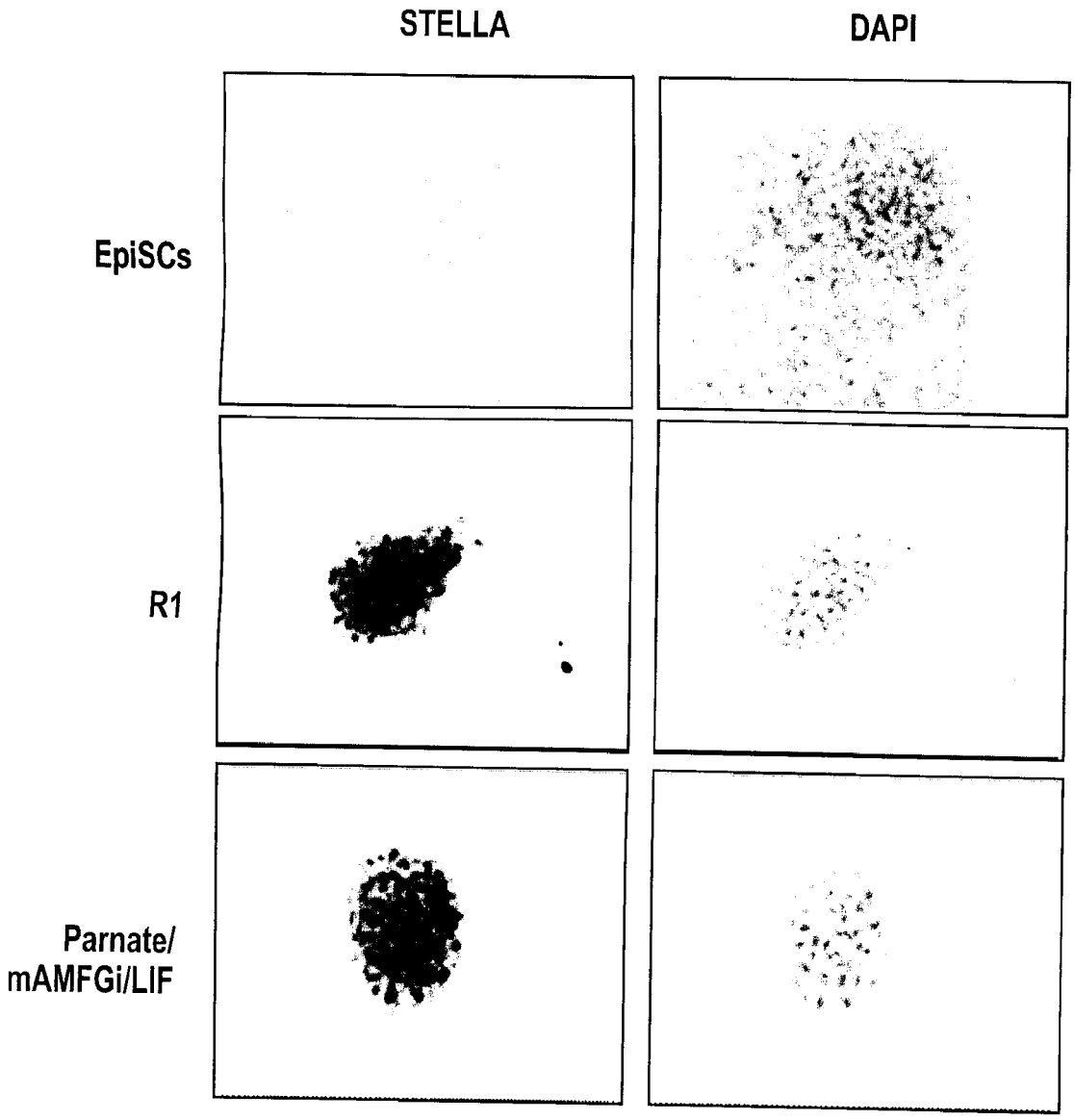


FIG. 12