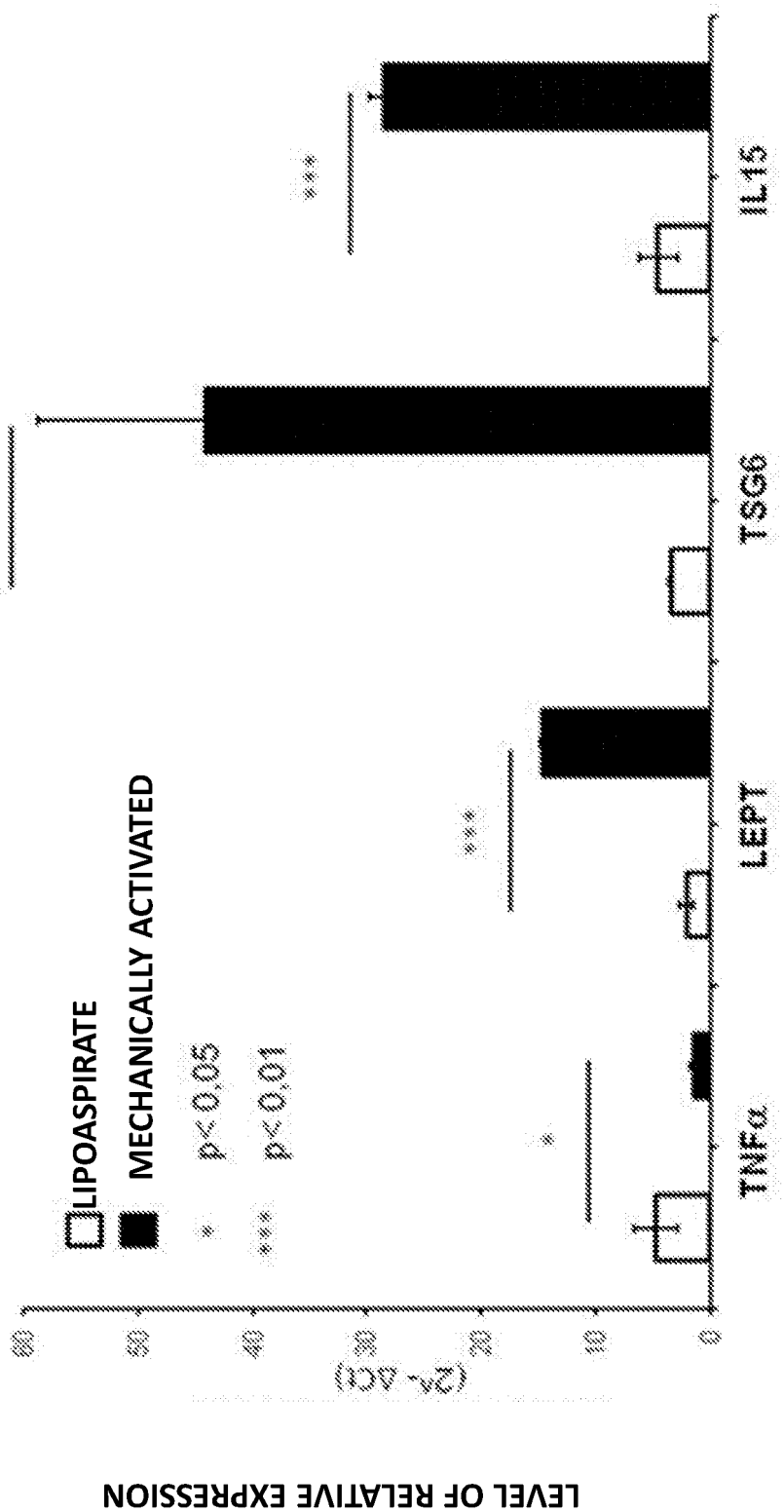

LEVEL OF RELATIVE EXPRESSION
(2^- ΔCt)
0
20
40
60
80
LIPOASPIRATE
MECHANICALLY ACTIVATED
* p<0,05
*** p<0,01
TNFα
LEPT
TSG6
IL15
***
***
*
***

Fig.1A

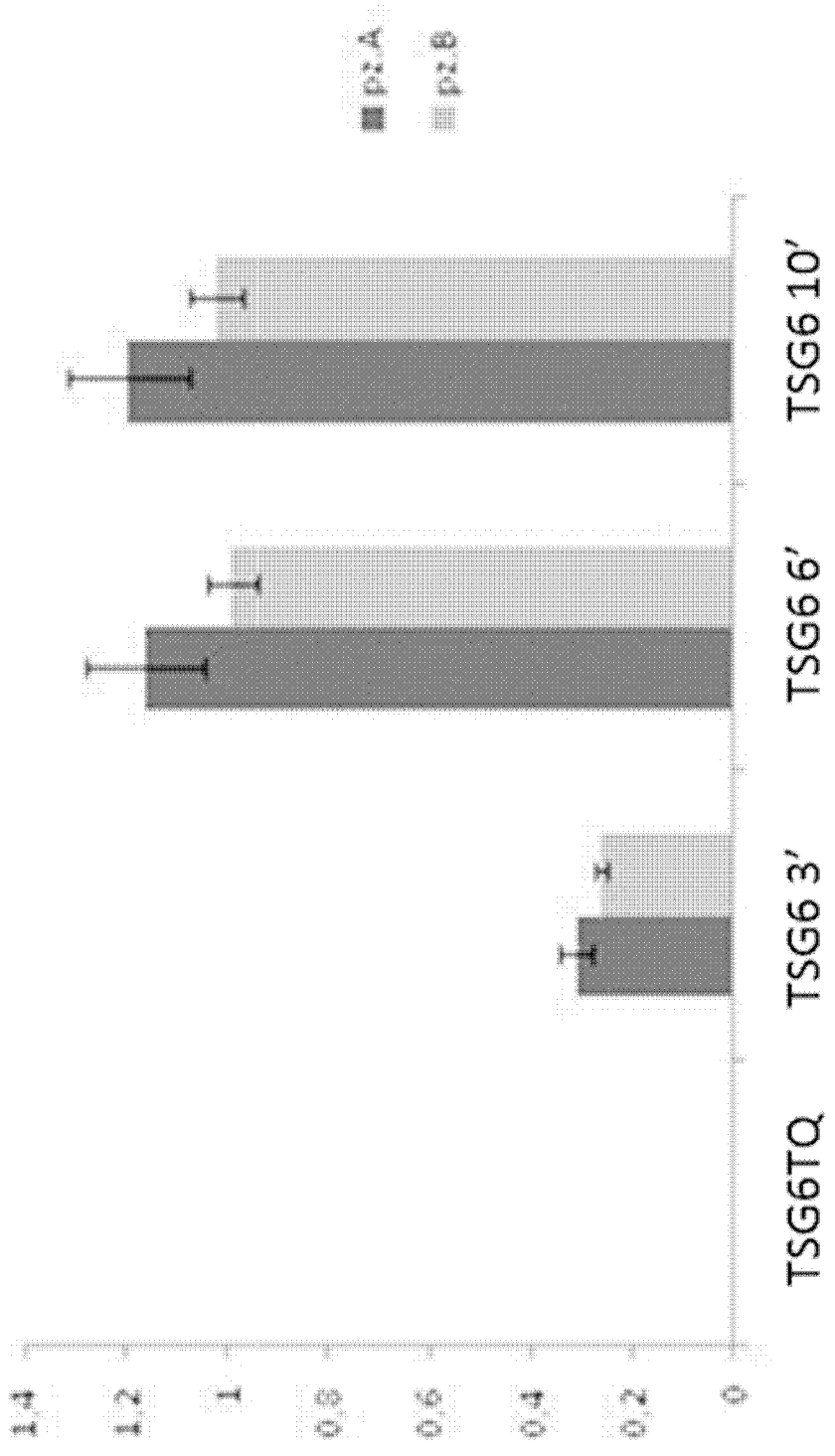

p2.A
p2.B
1.4
1.2
1
0.8
0.6
0.4
0.2
0
TSG6TQ
TSG6 3'
TSG6 6'
TSG6 10'
RELATIVE EXPRESSION

Fig.1B

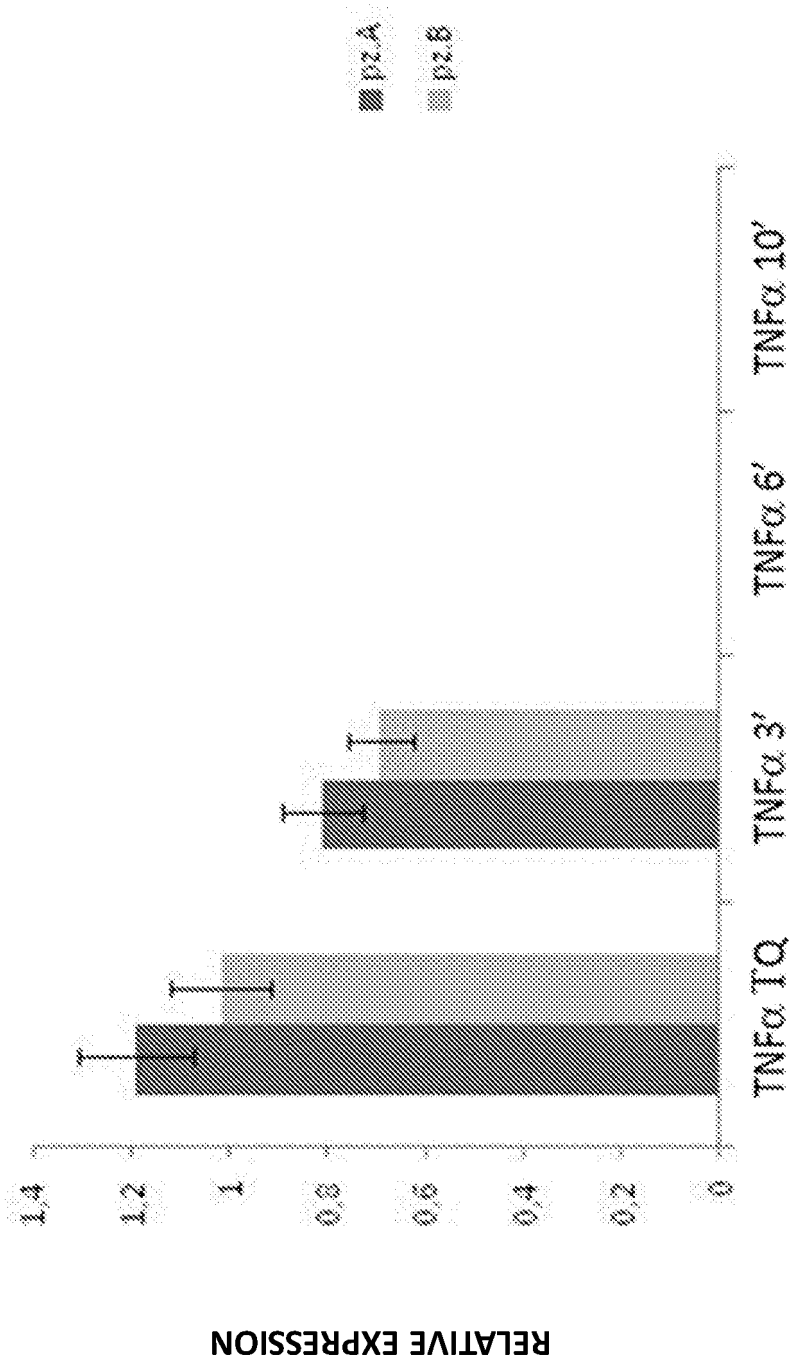

p2.A
p2.B
RELATIVE EXPRESSION
1,4
1,2
1
0,8
0,6
0,4
0,2
0
TNFα TQ
TNFα 3'
TNFα 6'
TNFα 10'

Fig.1C

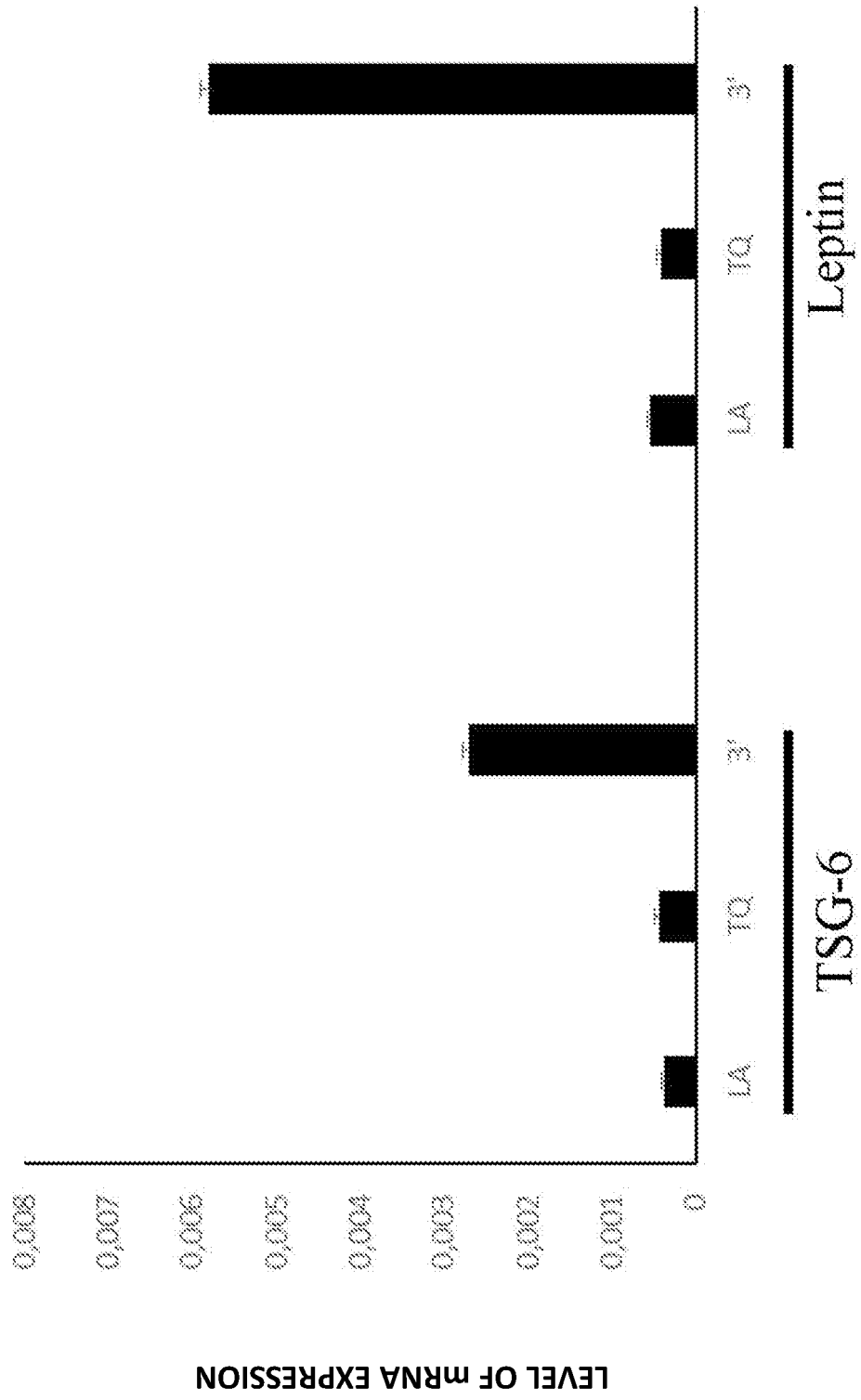

LEVEL OF mRNA EXPRESSION
0,008
0,007
0,006
0,005
0,004
0,003
0,002
0,001
0
LA
TQ
3'
TSG-6
LA
TQ
3'
Leptin

Fig.1D

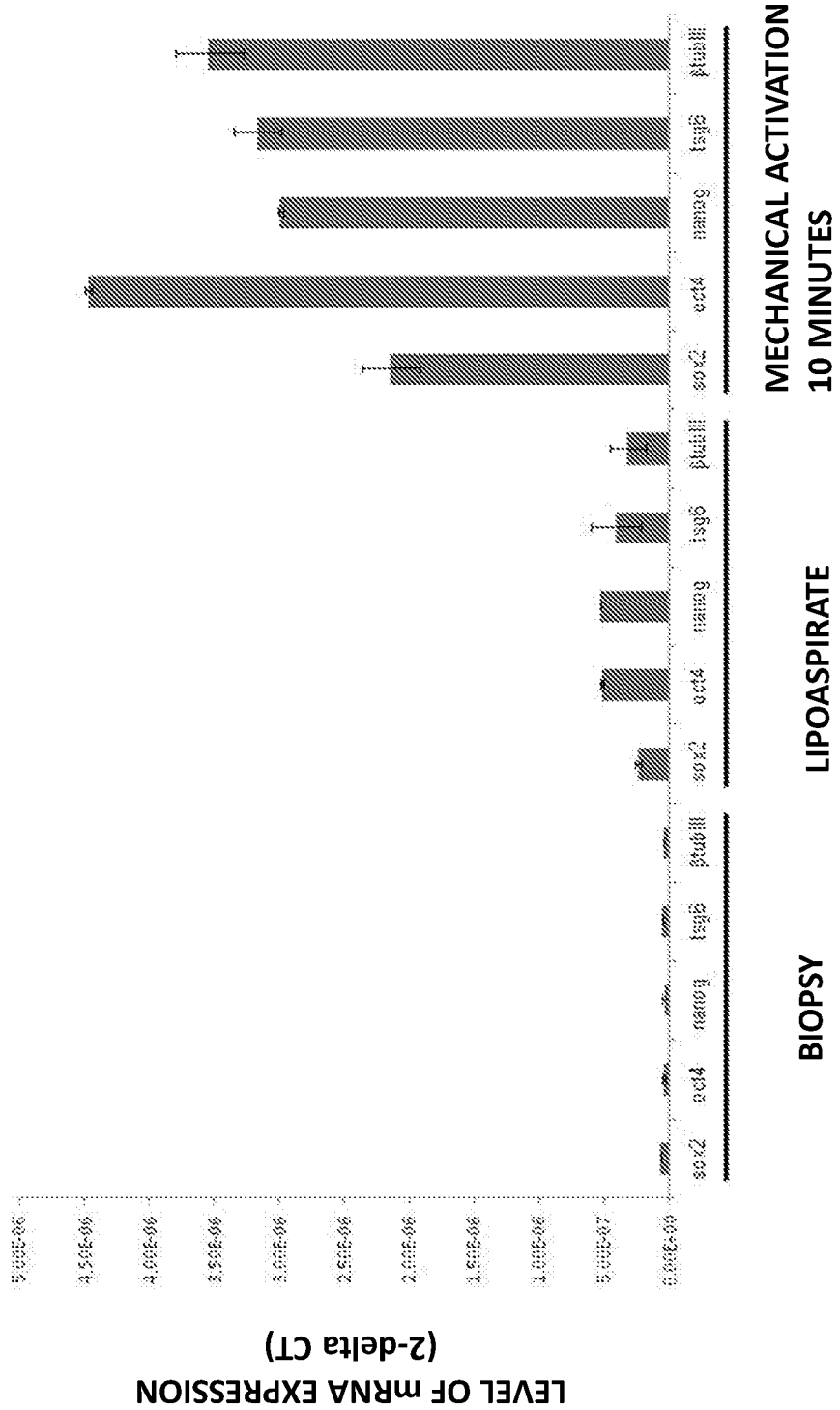

LEVEL OF mRNA EXPRESSION
(2-delta CT)
BIOPSY
LIPOASPIRATE
MECHANICAL ACTIVATION
10 MINUTES
sox2
oct4
nanog
tsg6
βtubIII

Fig.2

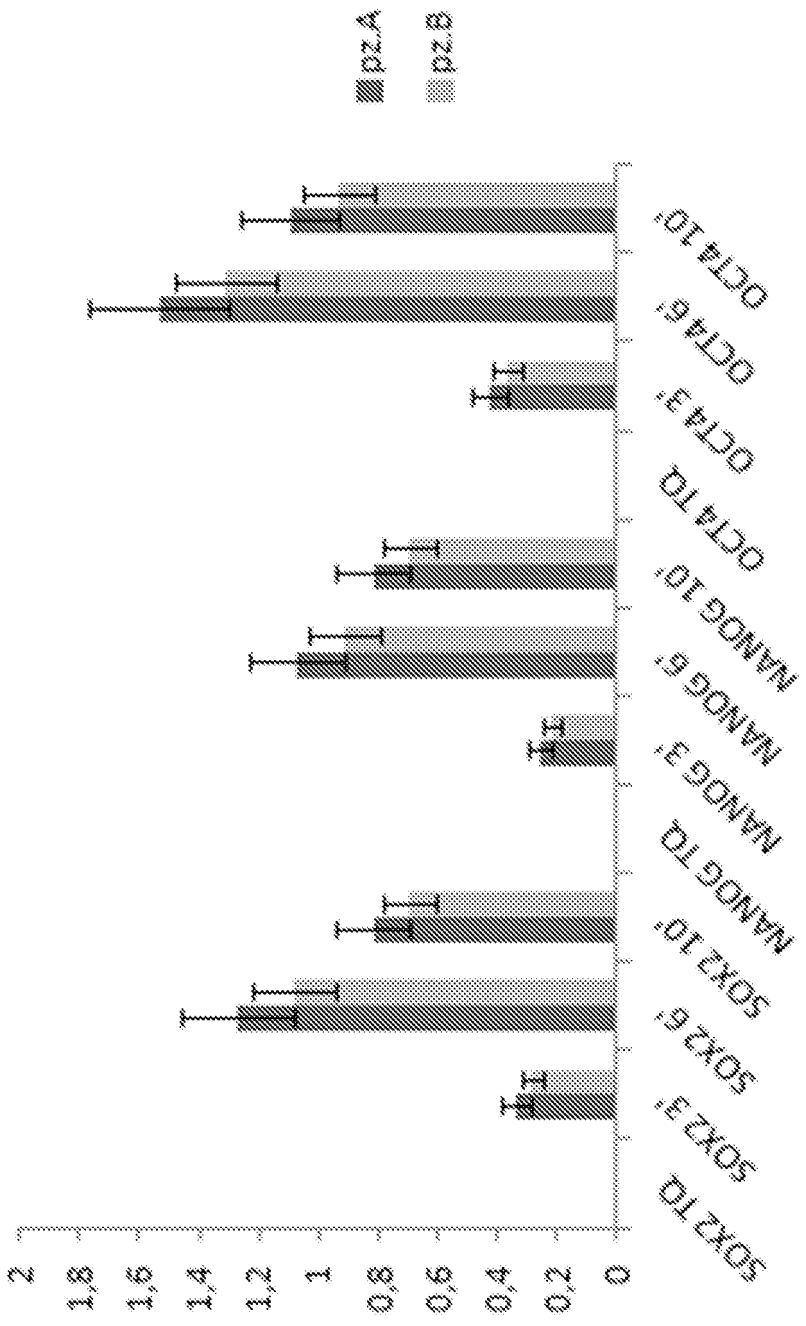

pz.A
pz.B
2
1,8
1,6
1,4
1,2
1
0,8
0,6
0,4
0,2
0
SOX2 TG
SOX2 3'
SOX2 6'
SOX2 10'
NANOG TG
NANOG 3'
NANOG 6'
NANOG 10'
OCT4 TG
OCT4 3'
OCT4 6'
OCT4 10'

Fig.3

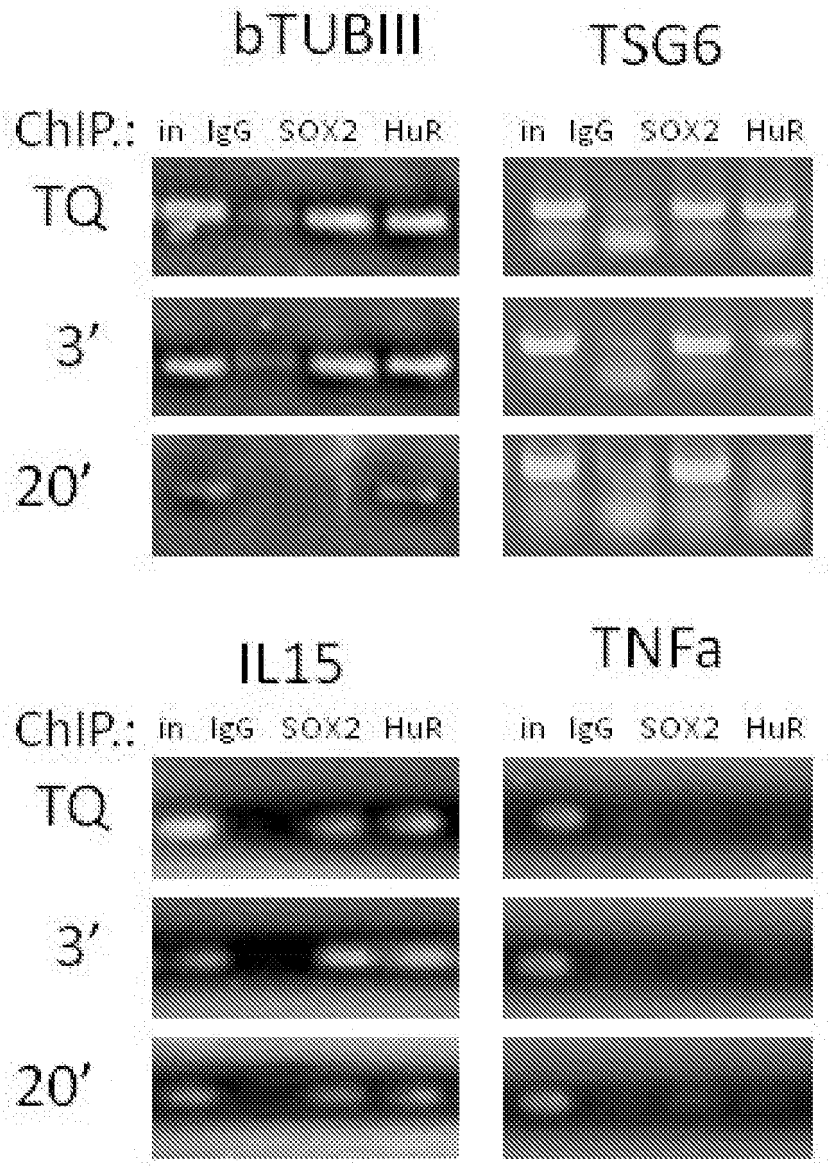

bTUBIII
TSG6
ChIP.: in IgG SOX2 HuR
in IgG SOX2 HuR
TQ
3'
20'
IL15
TNFa
ChIP.: in IgG SOX2 HuR
in IgG SOX2 HuR
TQ
3'
20'

Fig.4

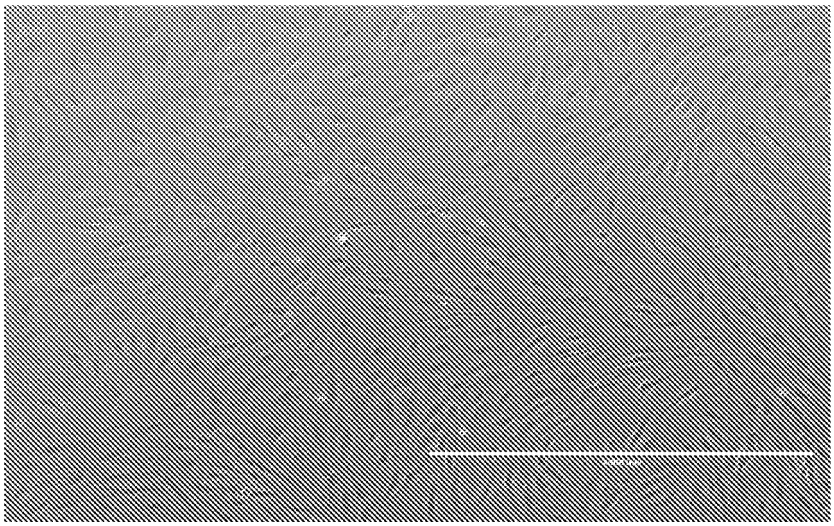


Fig.5A

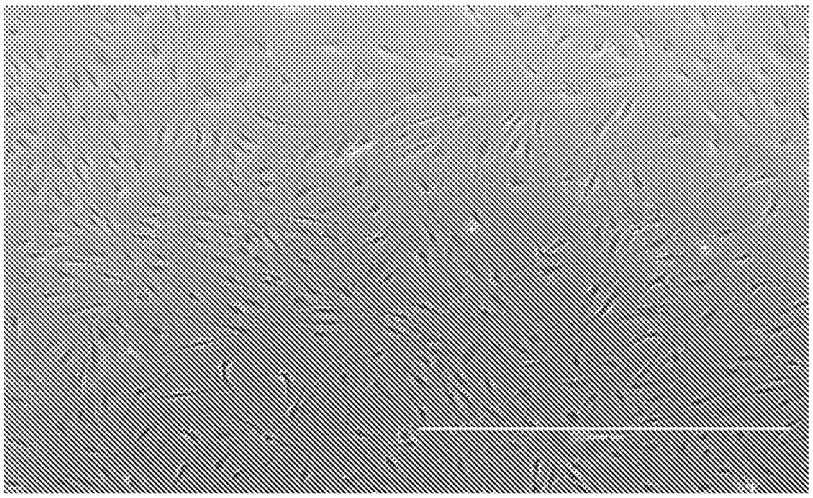


Fig.5B

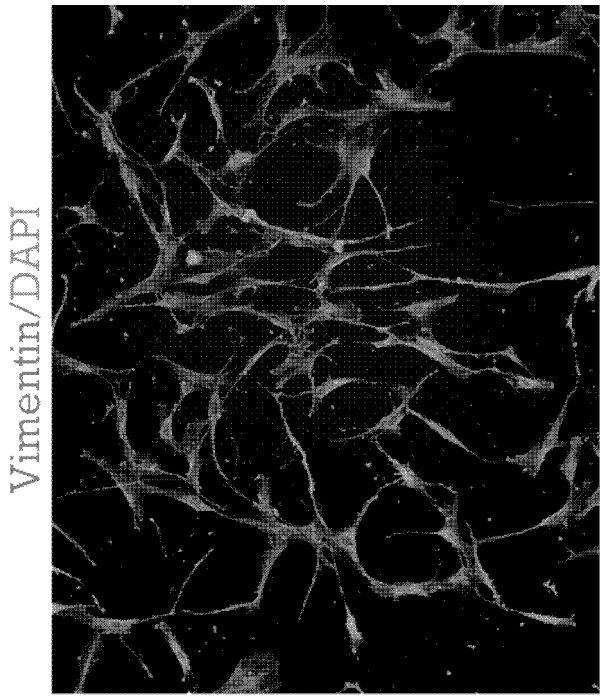


Fig.6B

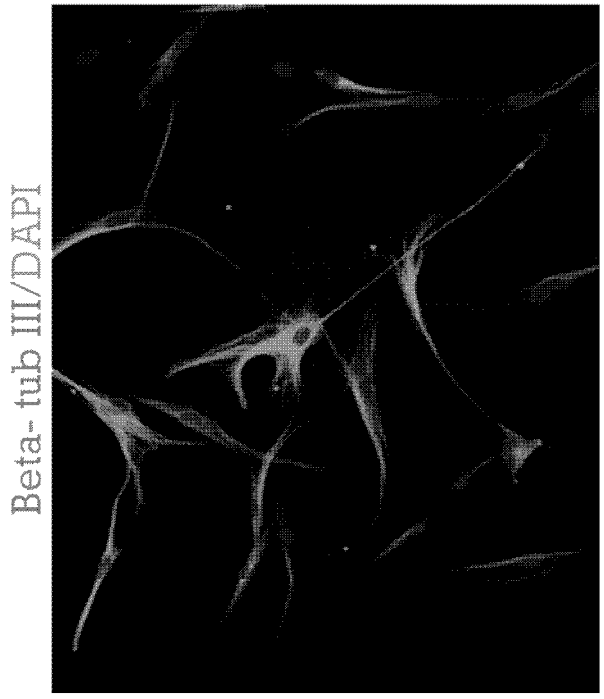


Fig.6A

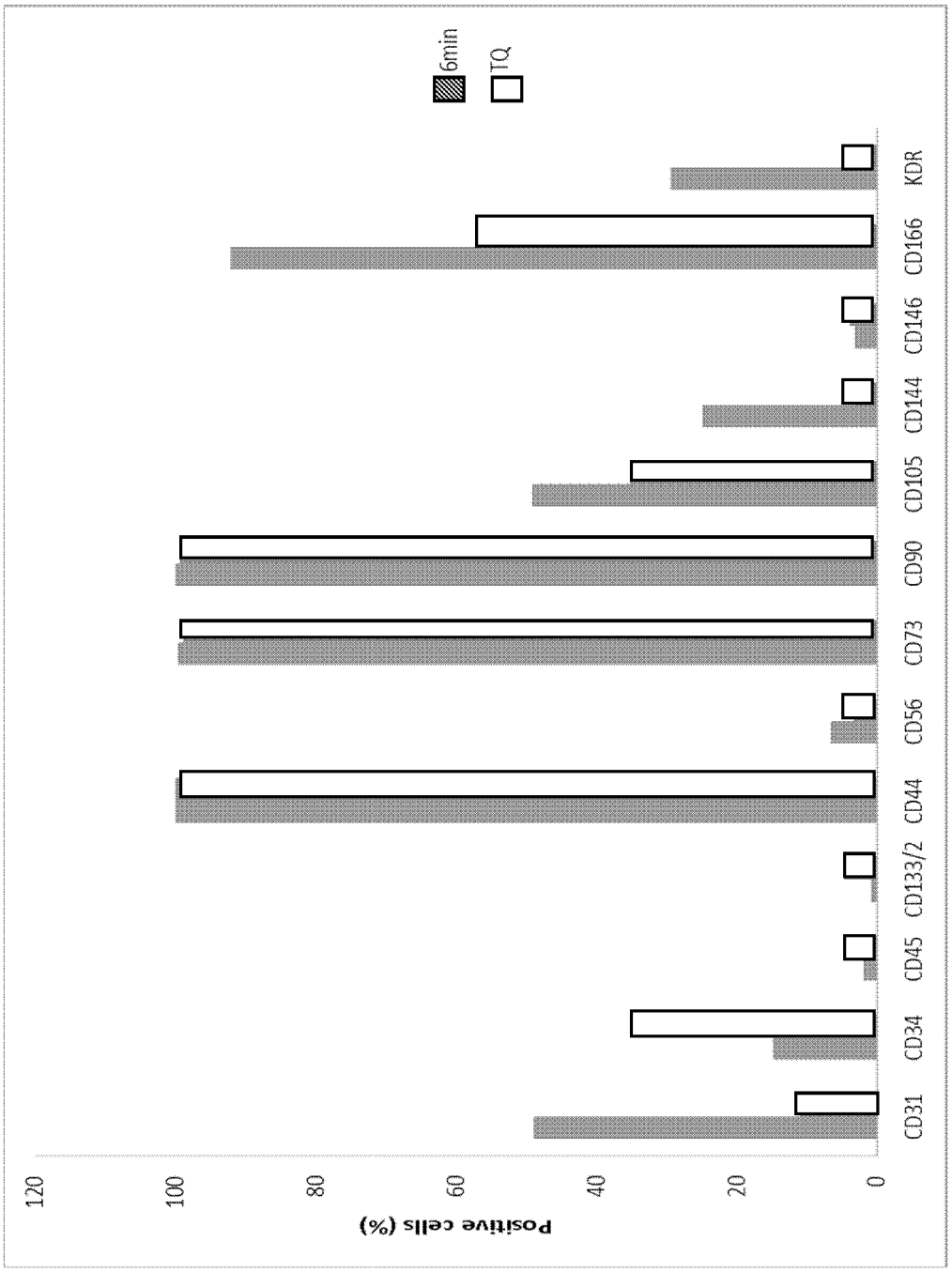

6min
TQ
Positive cells (%)
120
100
80
60
40
20
0
CD31
CD34
CD45
CD133/2
CD44
CD56
CD73
CD90
CD105
CD144
CD146
CD166
KDR
POSITIVE CELLS (%)

Fig.7

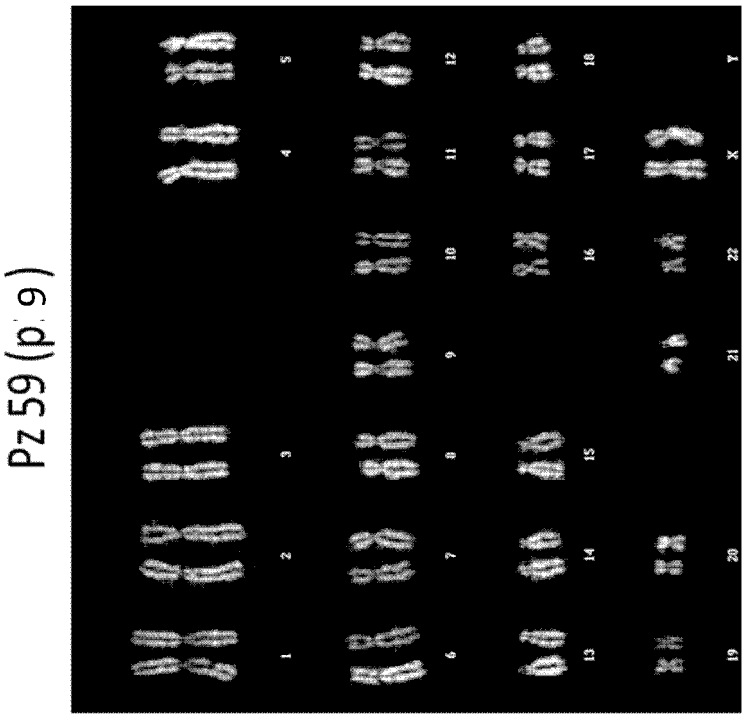


Fig.8B

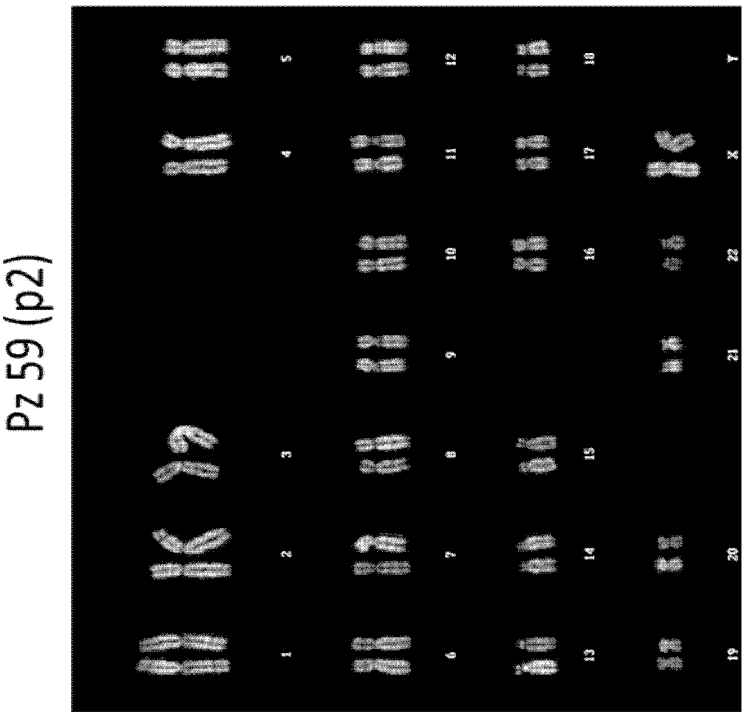
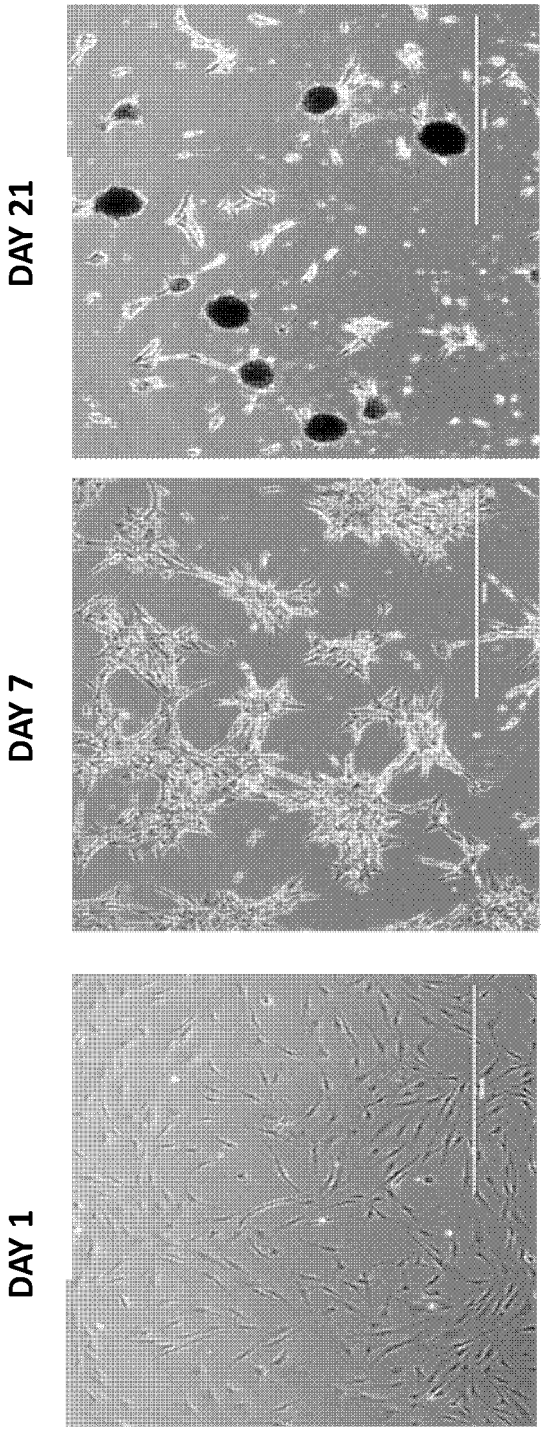


Fig.8A


DAY 1
DAY 7
DAY 21

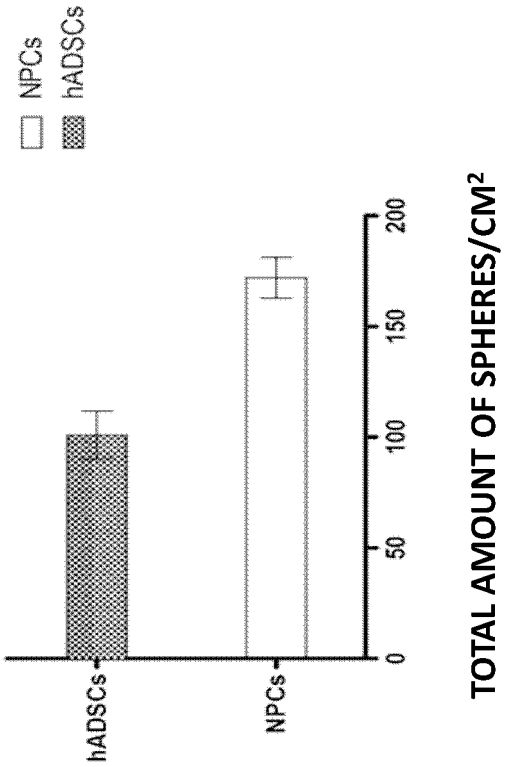

NPCs
hADSCs
0
50
100
150
200
hADSCs
NPCs
TOTAL AMOUNT OF SPHERES/CM²

Fig.9

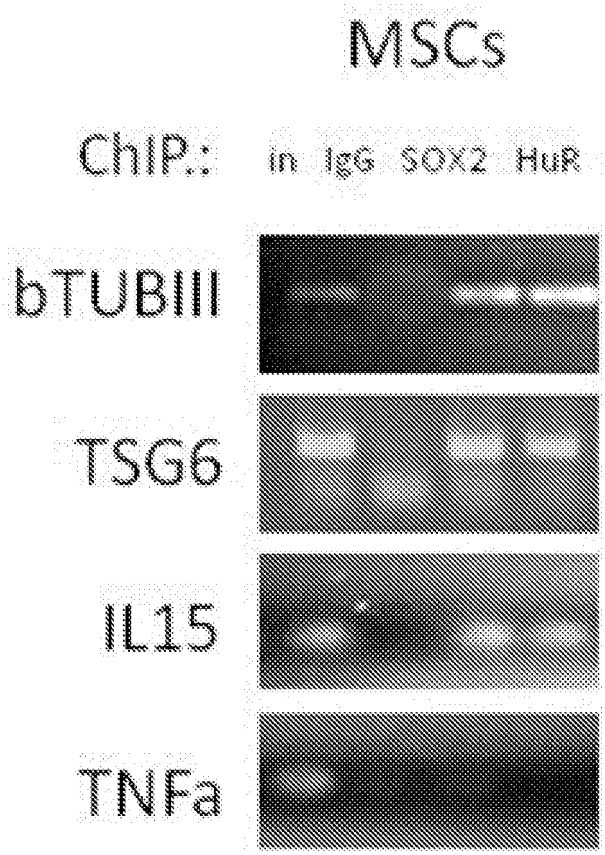


Fig.10

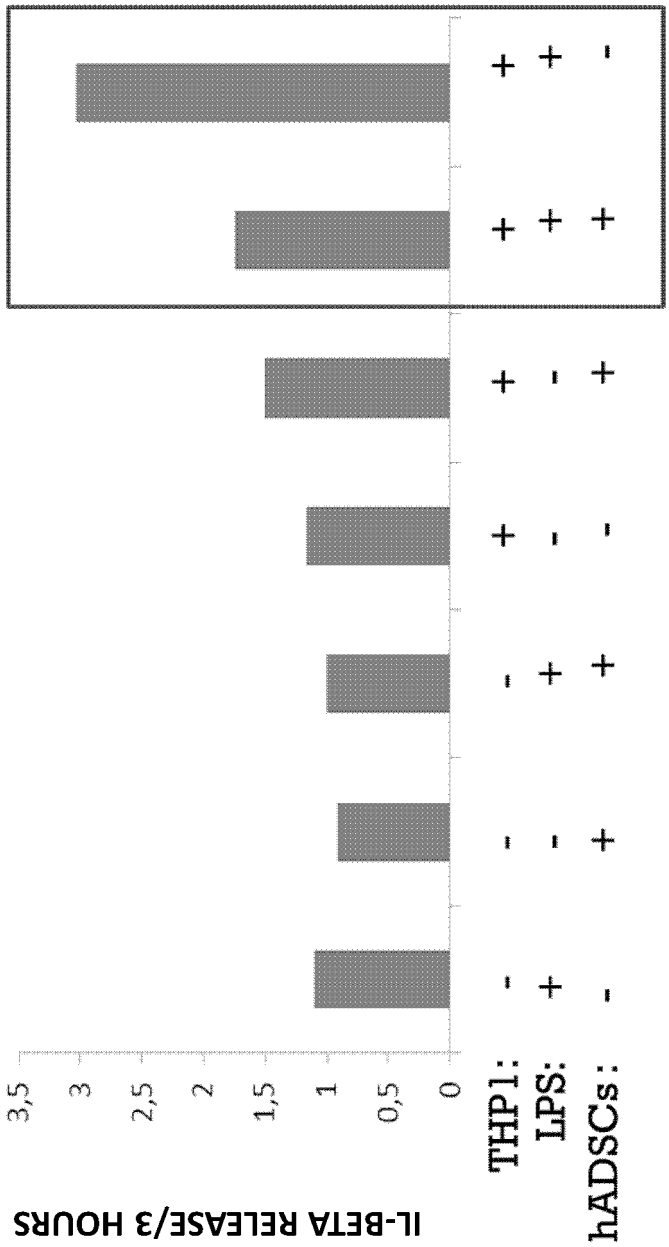


Fig.11

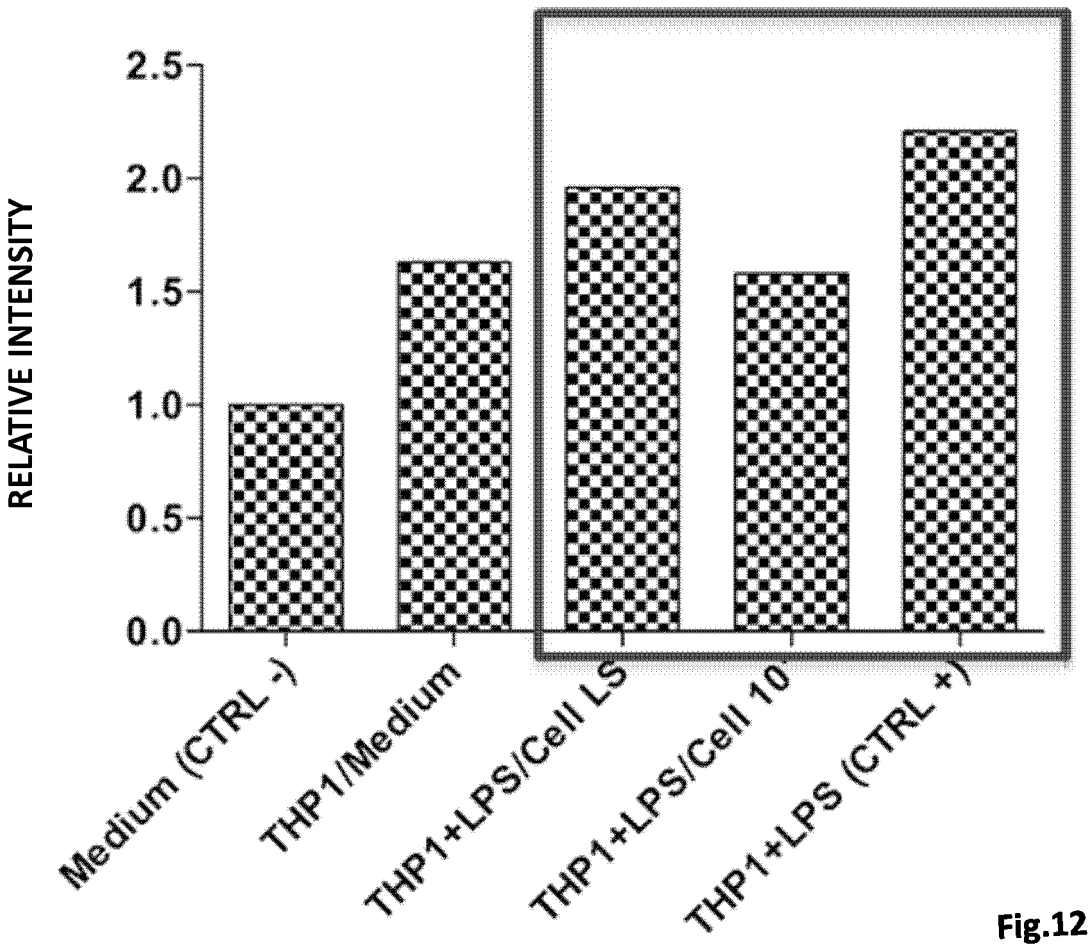
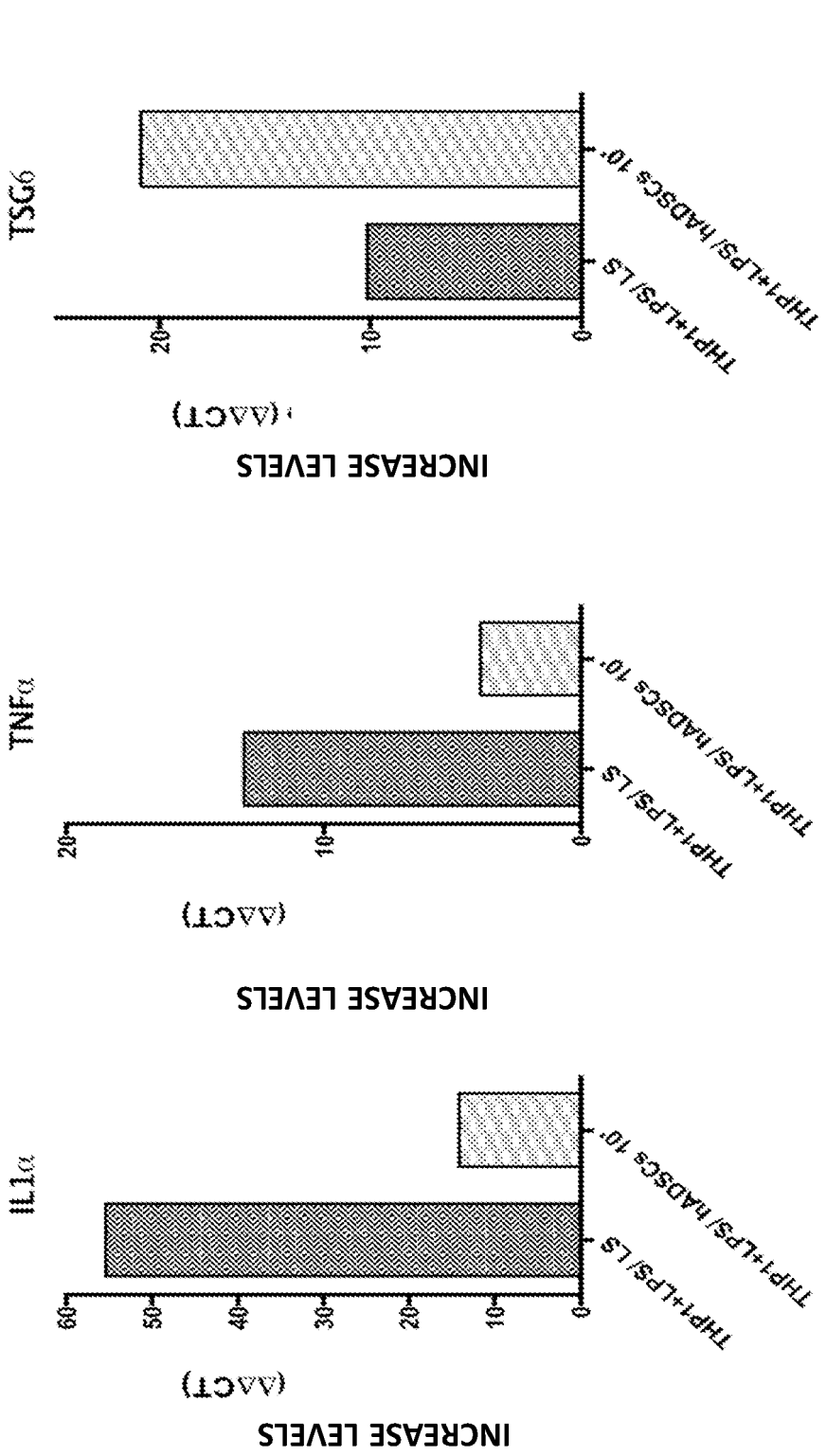

RELATIVE INTENSITY
2.5
2.0
1.5
1.0
0.5
0.0
Medium (CTRL -)
THP1/Medium
THP1+LPS/Cell LS
THP1+LPS/Cell 10
THP1+LPS (CTRL +)

Fig.12

Fig.13


TSG6
INCREASE LEVELS
(ΔΔCT)
THP1+LPS/ LS
THP1+LPS/ hADSCs 10:
TNFα
INCREASE LEVELS
(ΔΔCT)
THP1+LPS/ LS
THP1+LPS/ hADSCs 10:
IL1α
INCREASE LEVELS
(ΔΔCT)
THP1+LPS/ LS
THP1+LPS/ hADSCs 10:

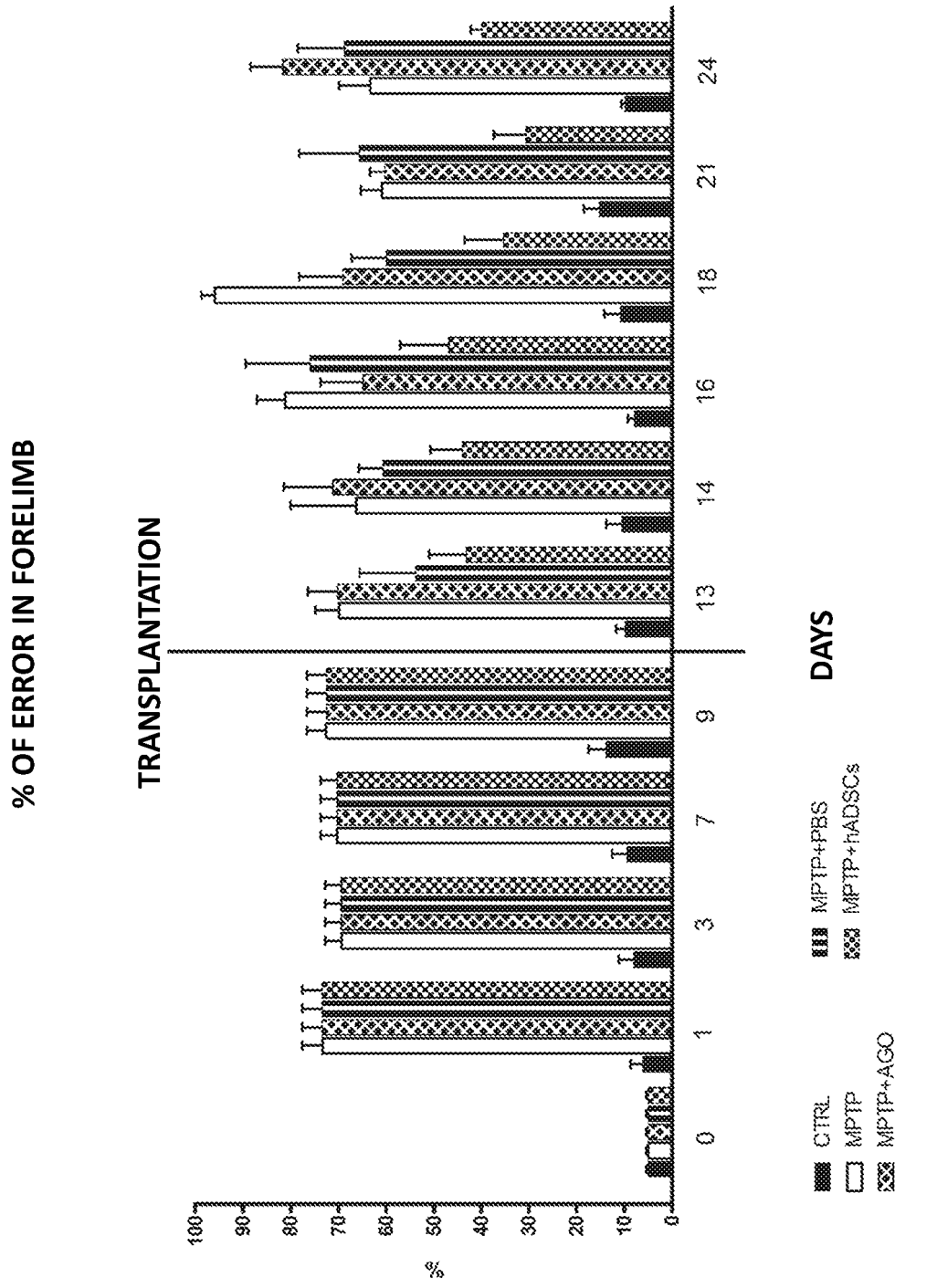

% OF ERROR IN FORELIMB
TRANSPLANTATION
DAYS
%
100
90
80
70
60
50
40
30
20
10
0
0
1
3
7
9
13
14
16
18
21
24
CTRL
MPTP
MPTP+AGO
MPTP+PBS
MPTP+hADSCs

Fig.14

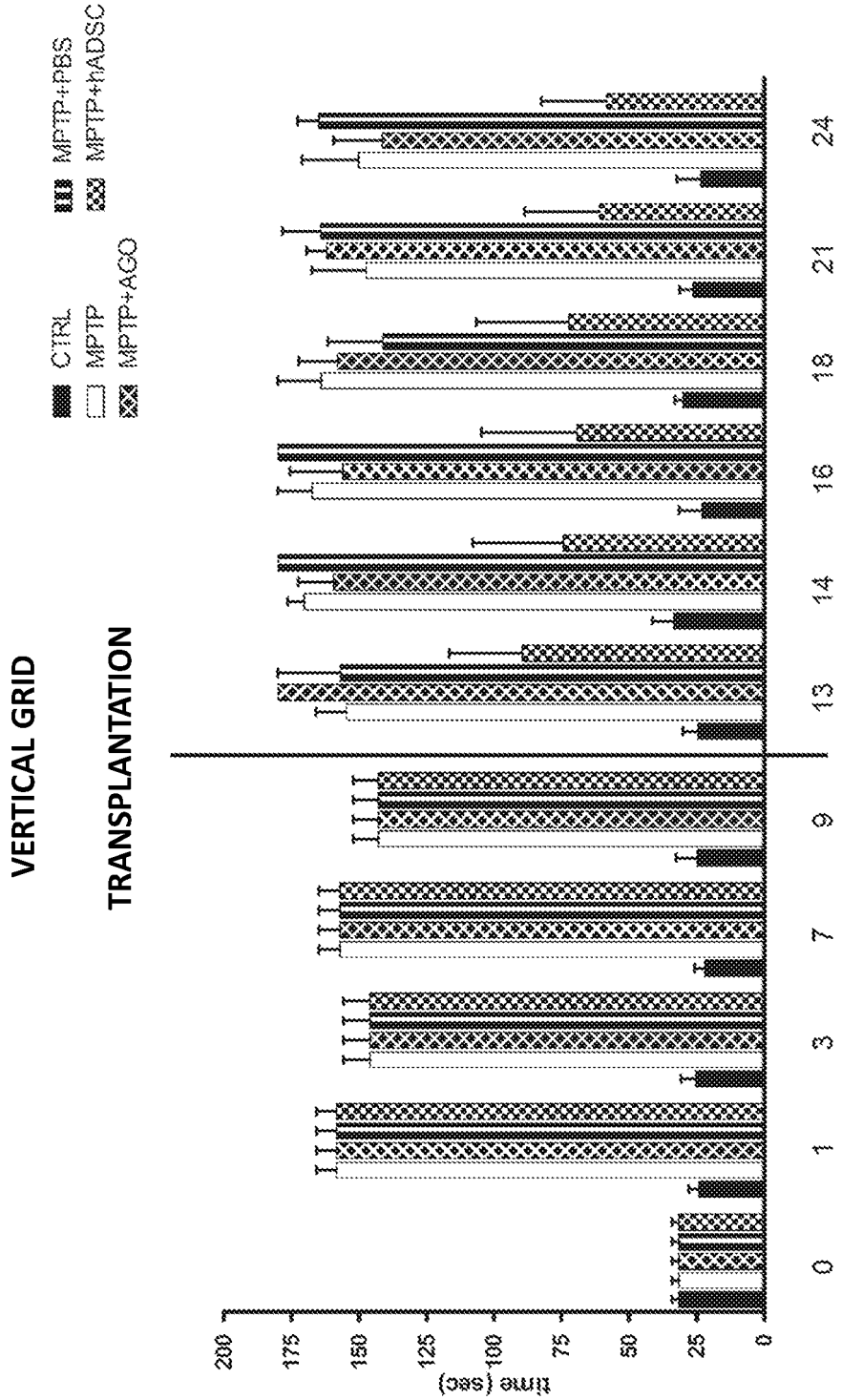

VERTICAL GRID
TRANSPLANTATION
CTRL
MPTP
MPTP+AGO
MPTP+PBS
MPTP+hADSC
time (sec)
200
175
150
125
100
75
50
25
0
0
1
3
7
9
13
14
16
18
21
24
DAYS

Fig.15

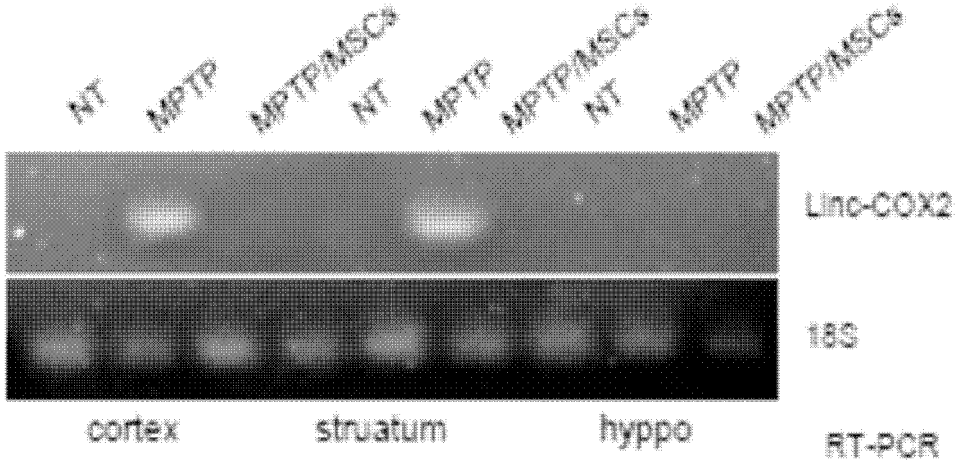


Fig.16A

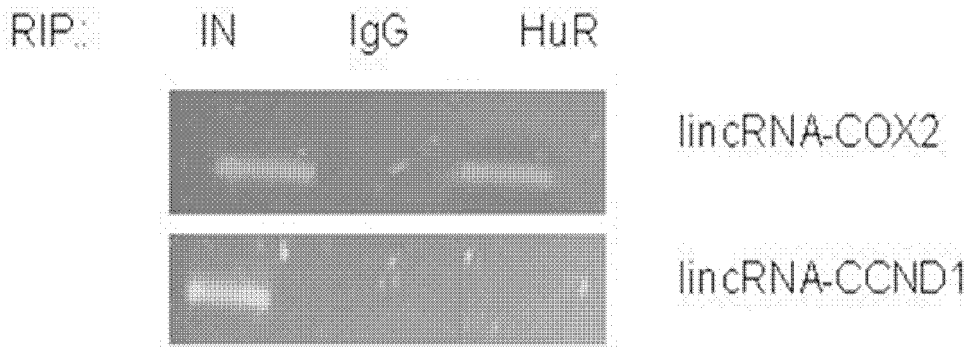


Fig.16B

ERROR IN FORELIMB

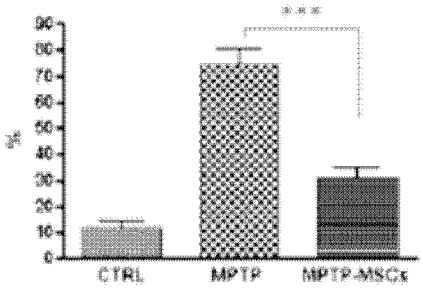


Fig.16C

VERTICAL GRID

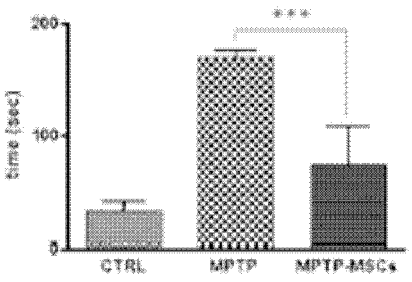


Fig.16D

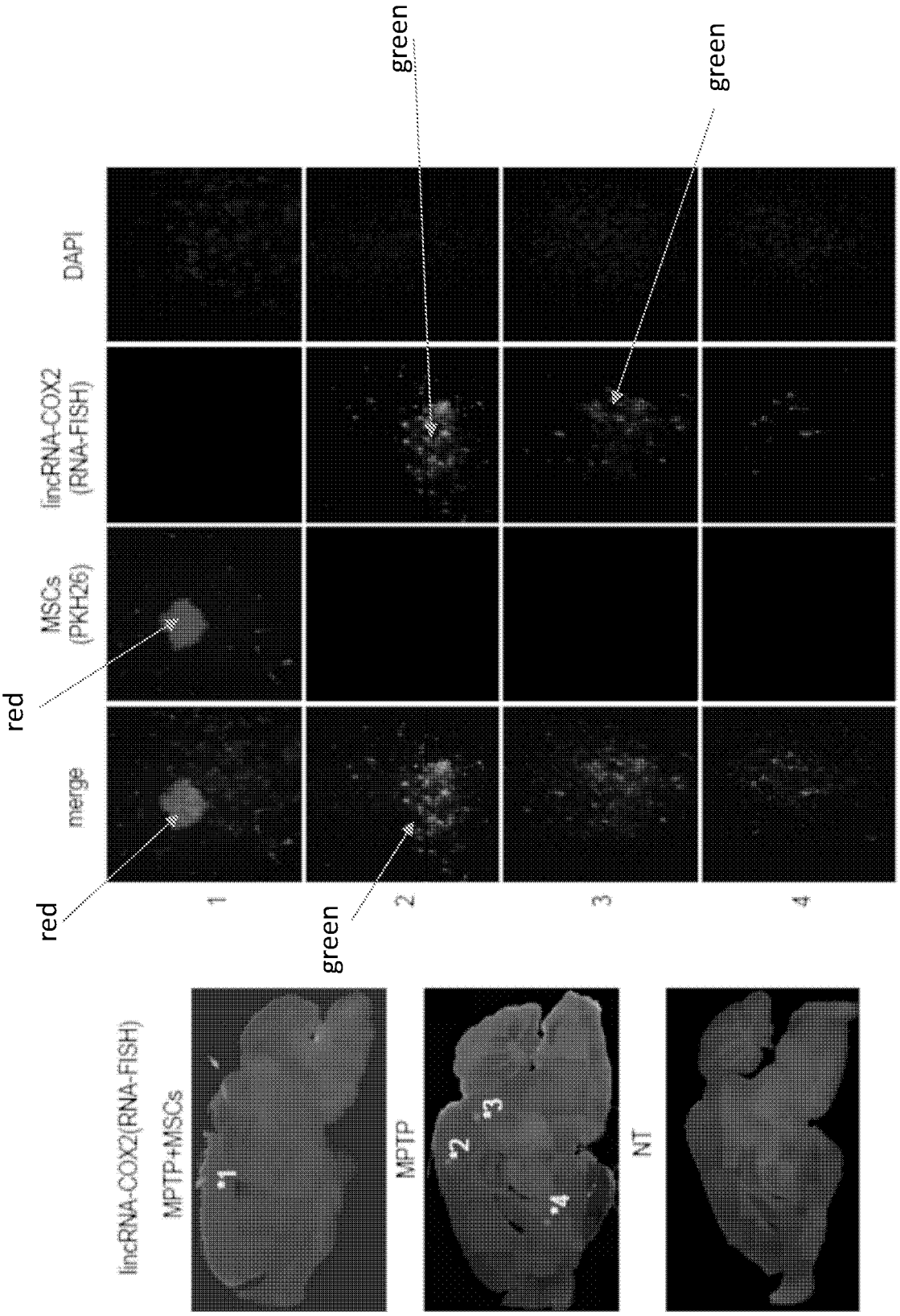

lincRNA-COX2/(RNA-FISH)
MPTP+MSCs
1
MPTP
2
3
4
NT
green
red
merge
MSCs (PKH26)
lincRNA-COX2 (RNA-FISH)
DAPI
green
green
red
1
2
3
4
1= MSCs Injection site

Fig. 17

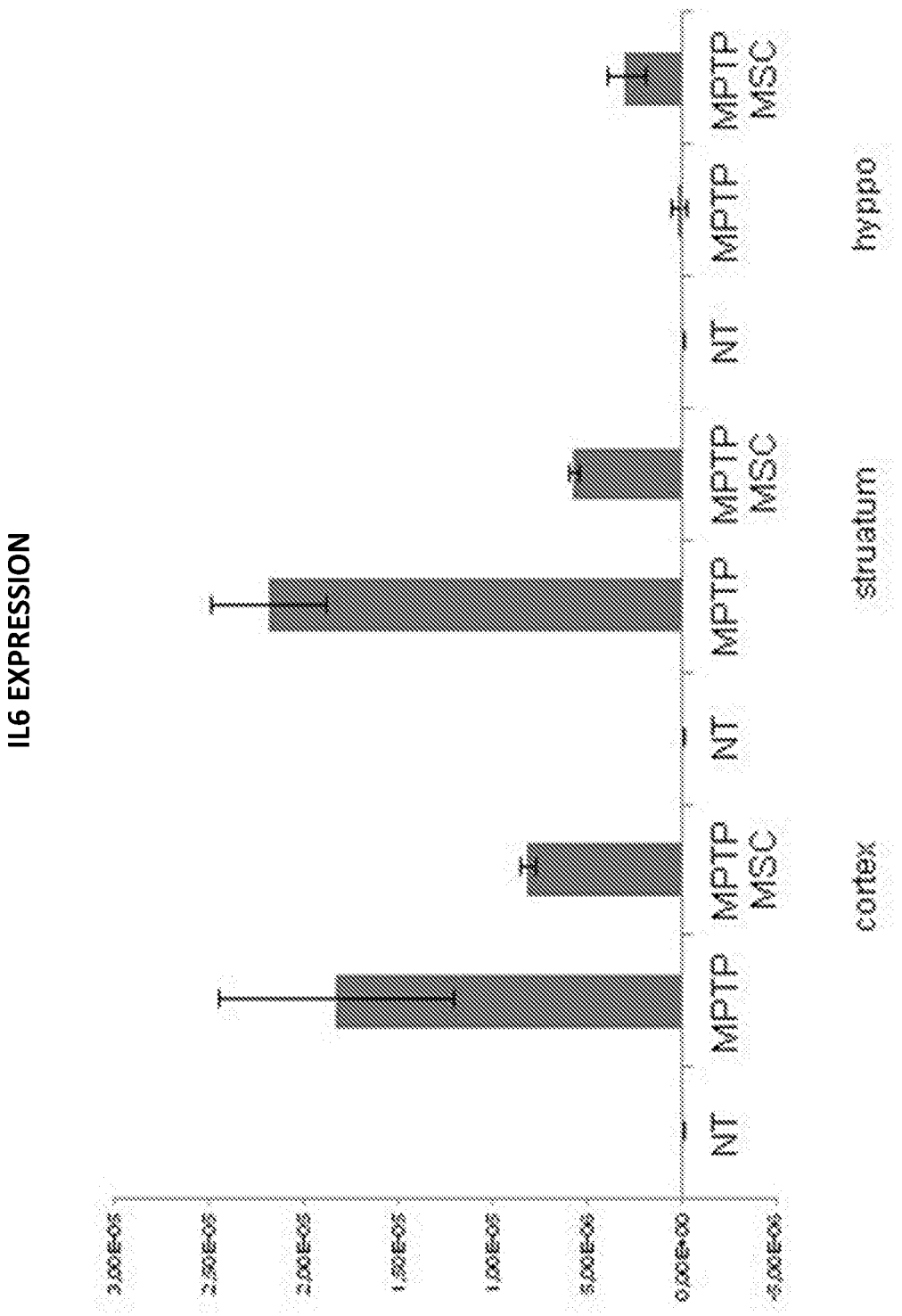

IL6 EXPRESSION
3,00E-05
2,50E-05
2,00E-05
1,50E-05
1,00E-05
5,00E-06
0,00E+00
-5,00E-06
NT
MPTP
MPTP MSC
NT
MPTP
MPTP MSC
NT
MPTP
MPTP MSC
cortex
striatum
hyppo

Fig. 18

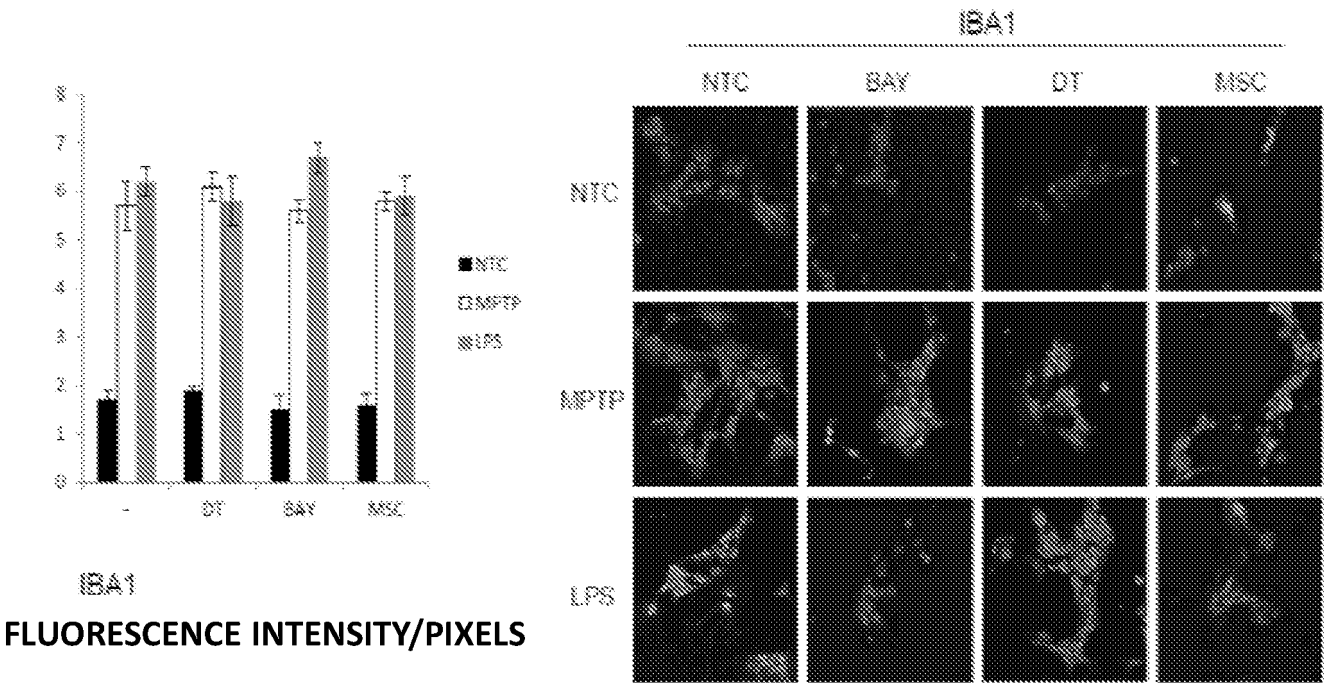


Fig. 19A

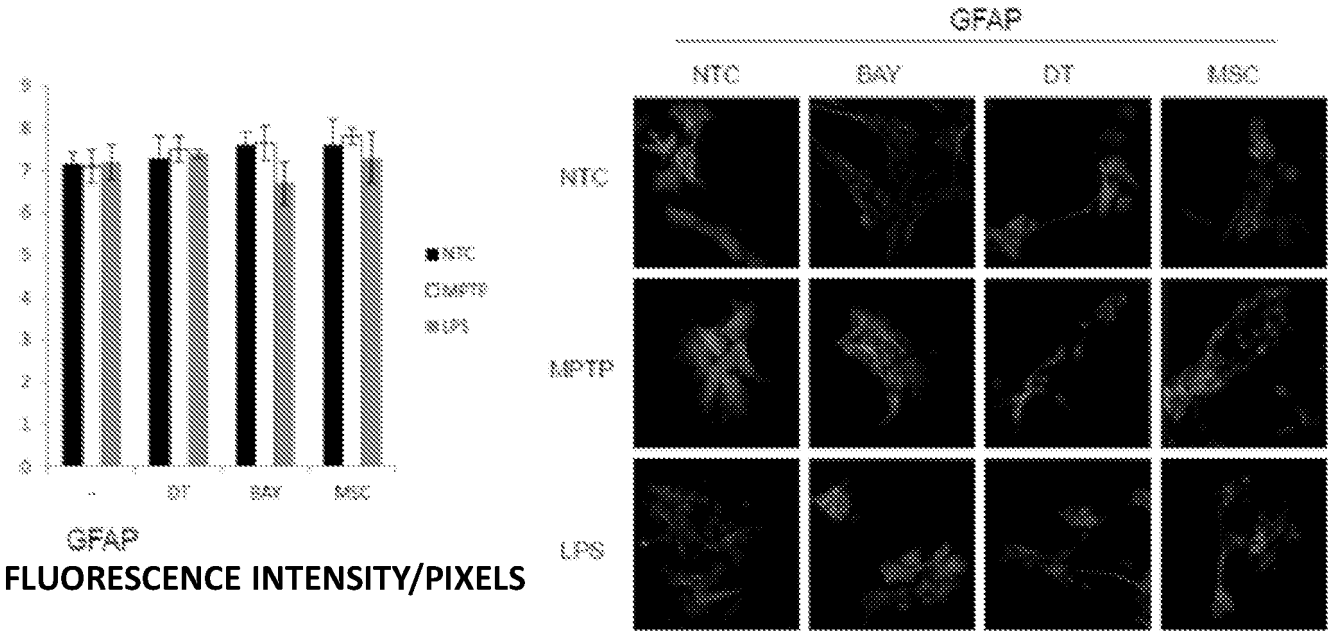


Fig. 19B

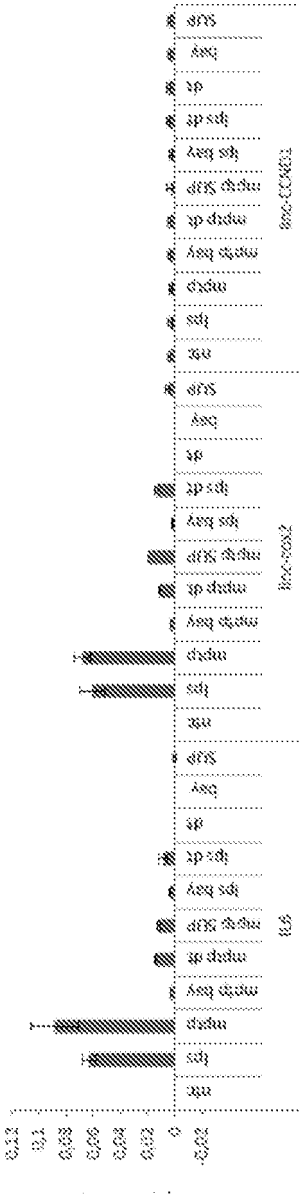

LEVEL OF mRNA EXPRESSION
2exp (-deltaCt)
0.12
0.1
0.08
0.06
0.04
0.02
0
mtc
tps
mpcp
mpcp dt
mpcp beg
mpcp dt
mpcp SUP
tps beg
tps dt
dt
beg
SUP
mtc
tps
mpcp
mpcp beg
mpcp dt
mpcp SUP
tps beg
tps dt
dt
beg
SUP
mtc
tps
mpcp
mpcp dt
mpcp beg
mpcp dt
mpcp SUP
tps beg
tps dt
dt
beg
SUP
Wnt-CCND1
Wnt-TCF4
Wnt-CTNNB1

Fig. 20

CYTOKINE EXPRESSION (48 HOURS)

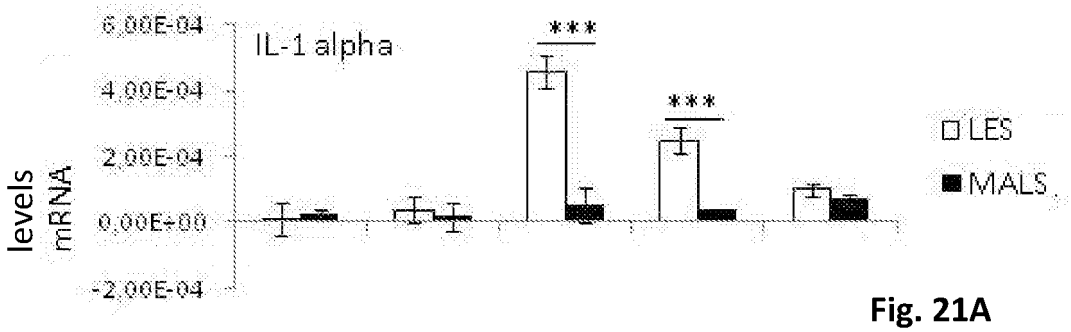


Fig. 21A

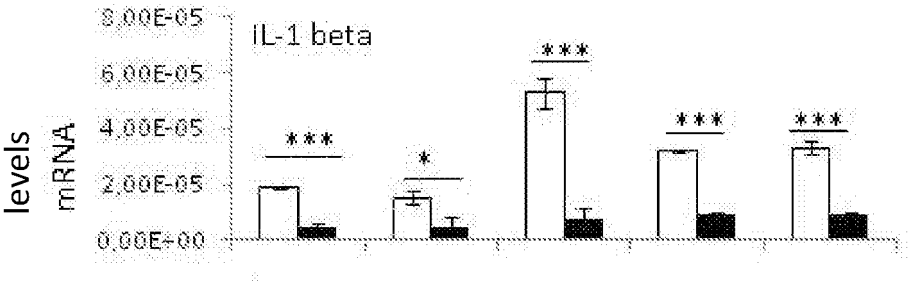
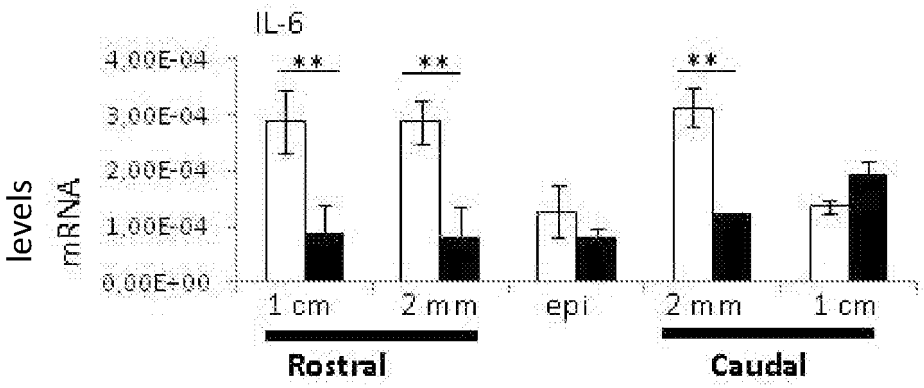


Fig. 21B



* p< 0.05; ** p<0.01; *** p<0.001 vs LES

Fig. 21C

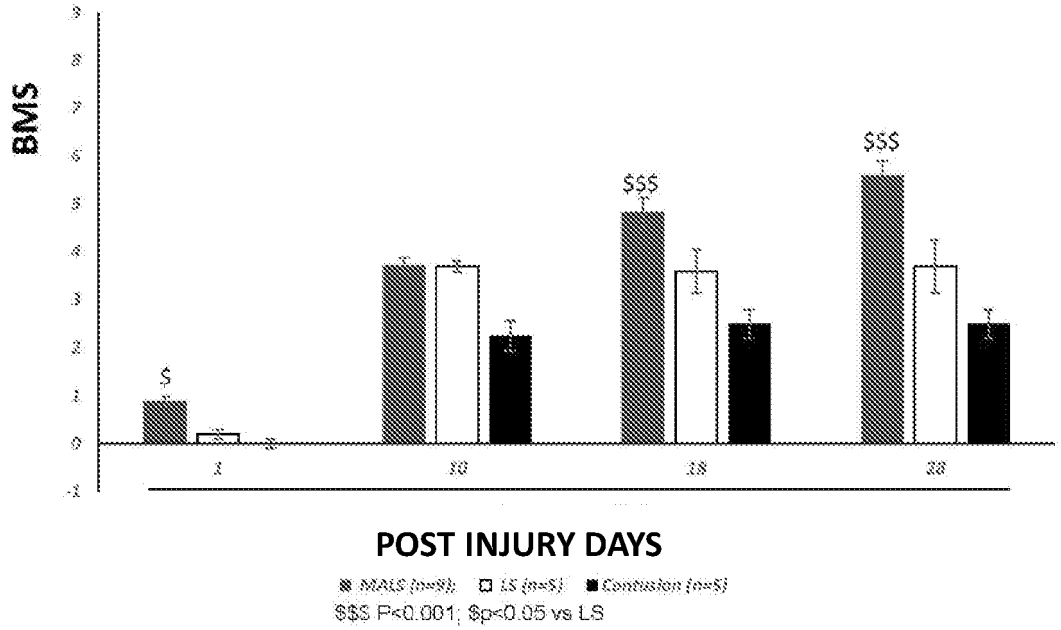

BMS
$
$$$
$$$
1
10
18
28
POST INJURY DAYS
MALS (n=9)
LS (n=5)
Contusion (n=5)
$$$ P<0.001; $p<0.05 vs LS

Fig. 22

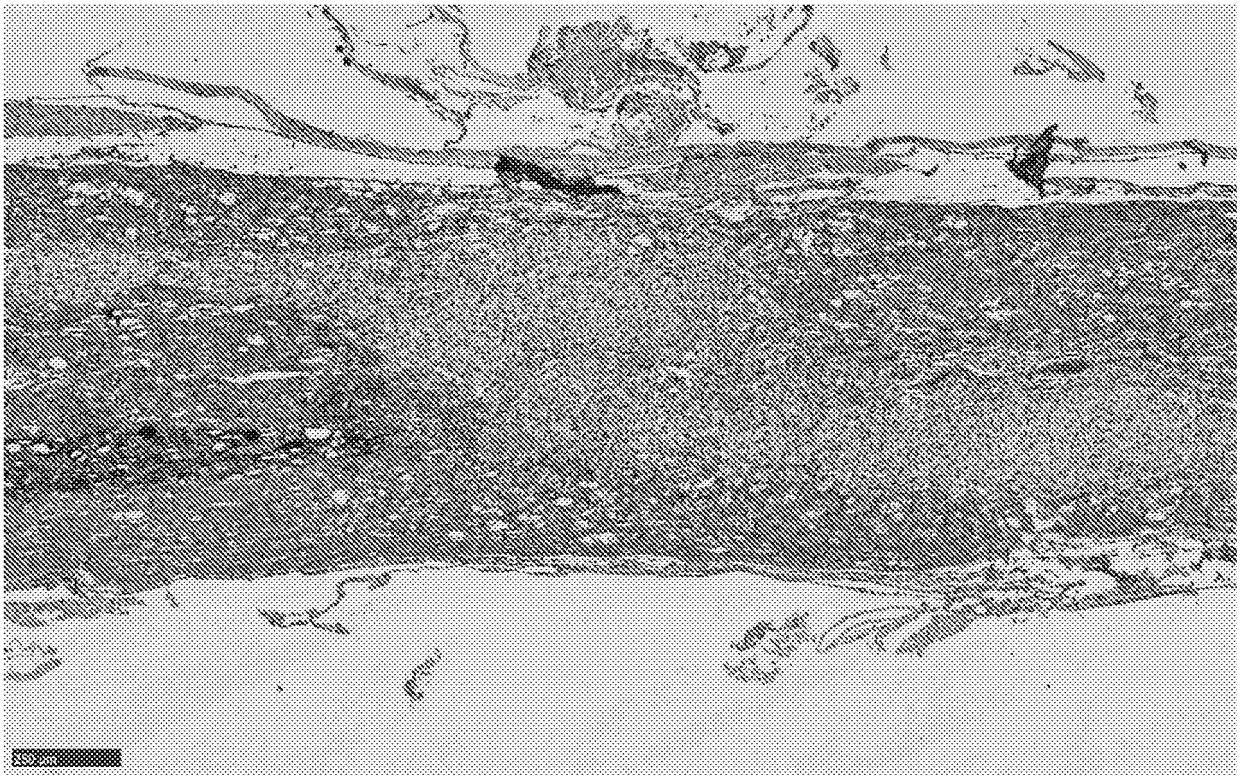
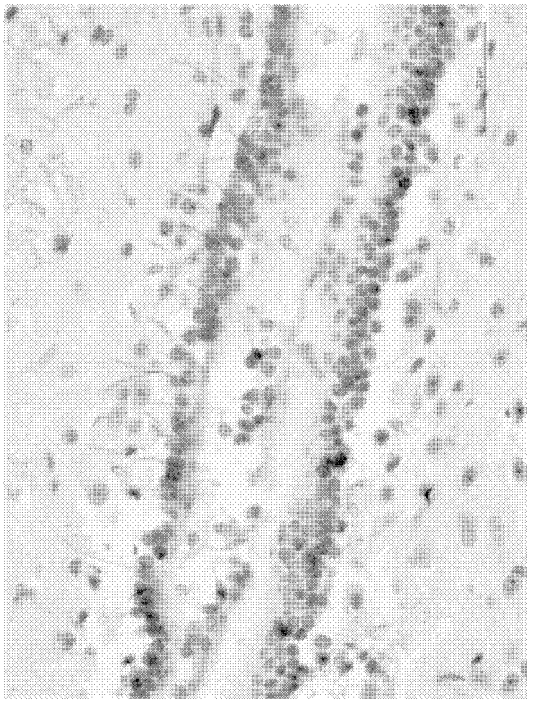


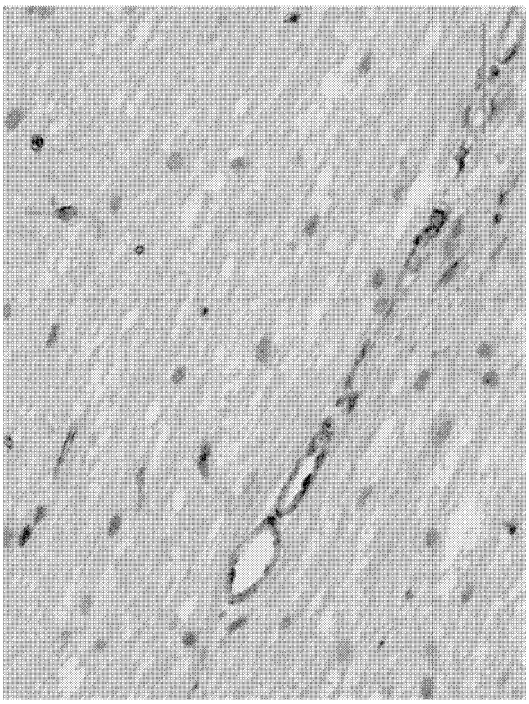
Fig. 23



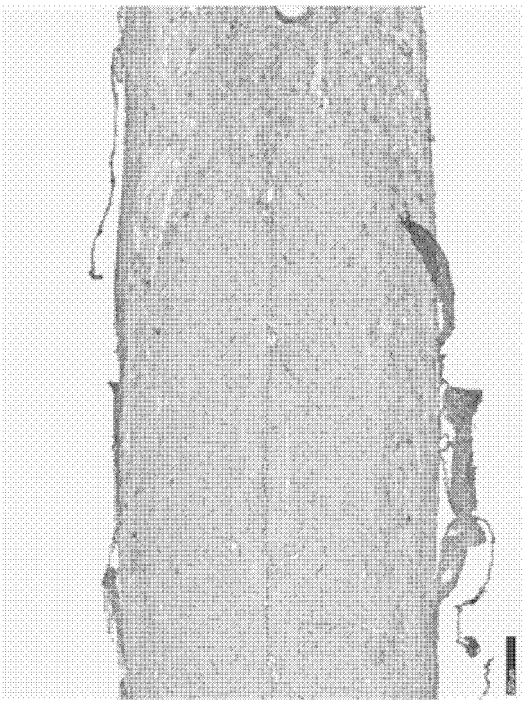
Contusion 70Kdyne Fig. 24 b



Contusion 70Kdyne + MALS
Fig. 24 d



CTRL NESTIN
Fig. 24 a



Contusion 70Kdyne + LS
Fig. 24 c

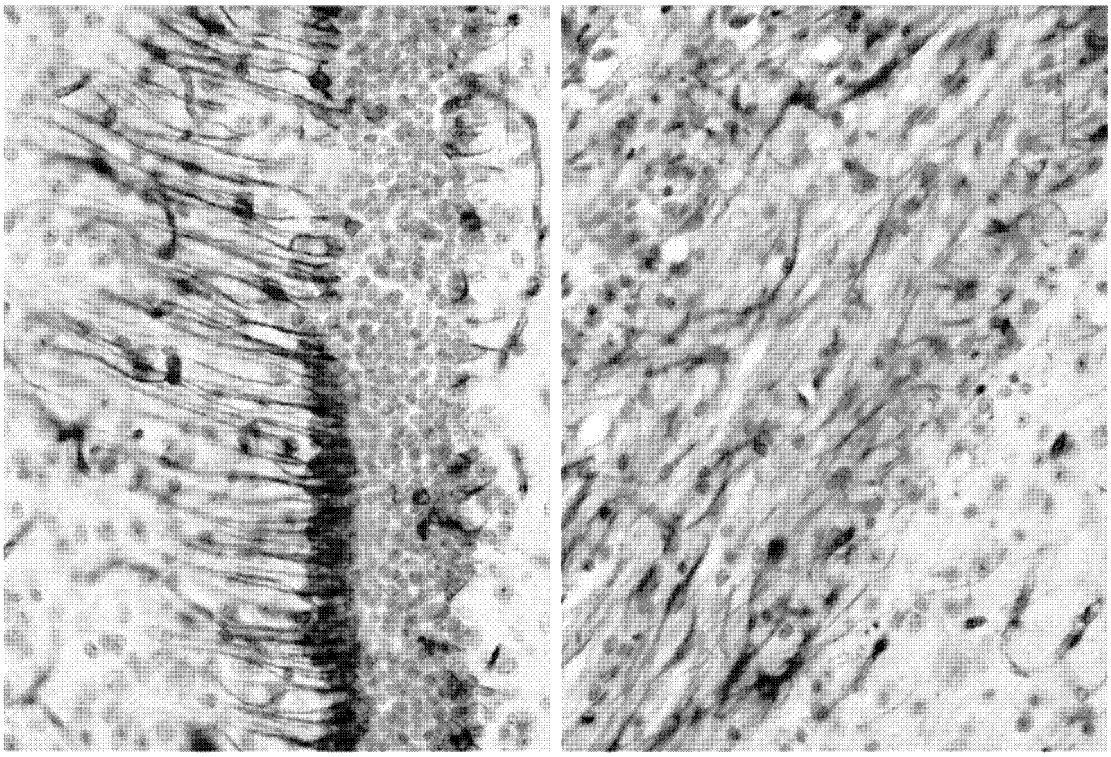


Fig. 25 a

Fig. 25 b

Fig. 25 c

Fig. 25 d

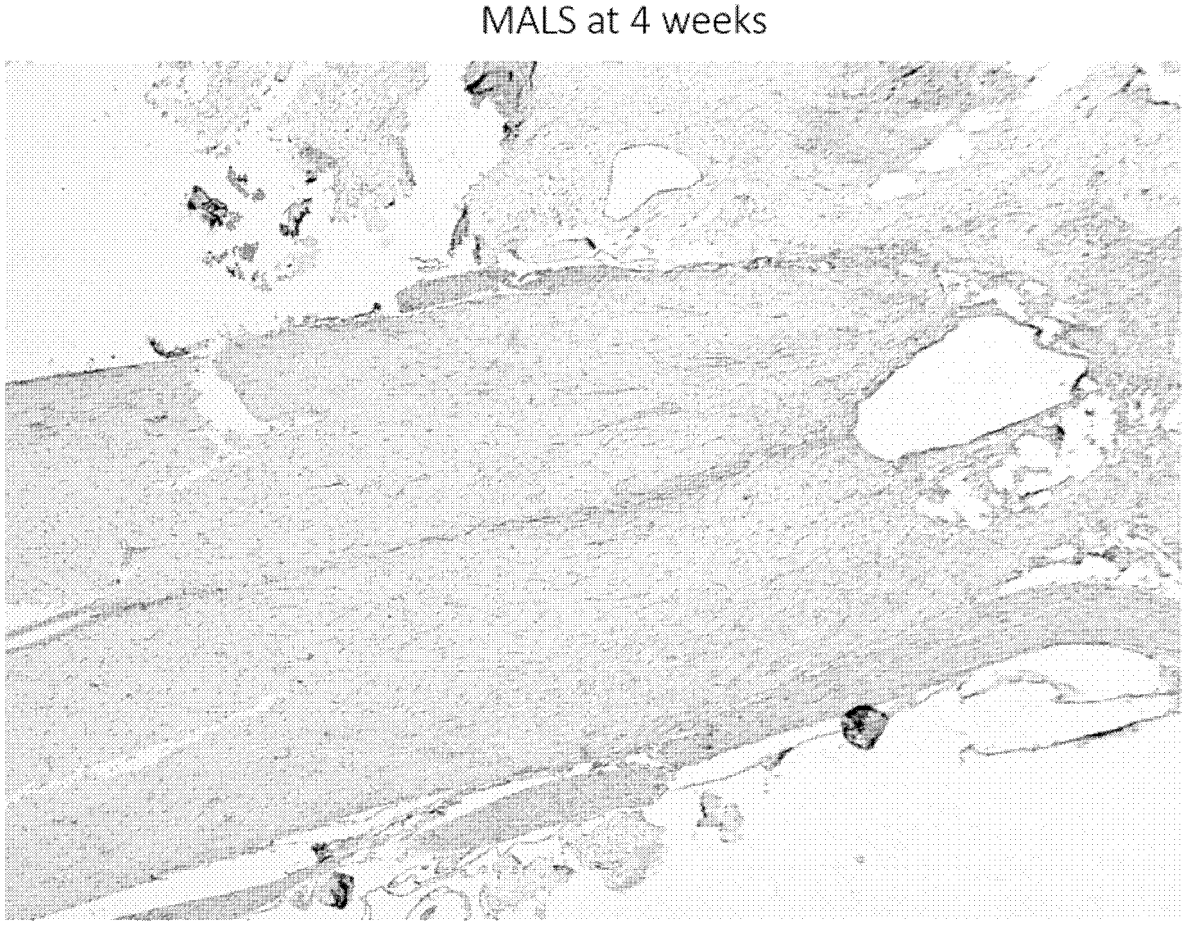


Fig. 26

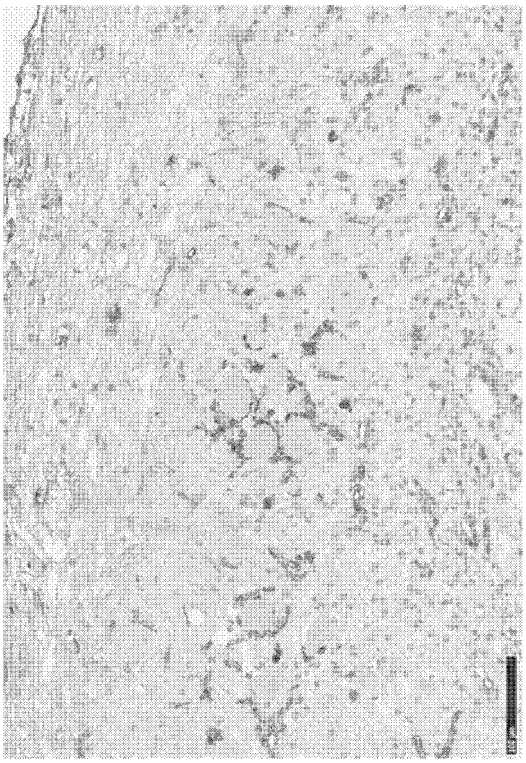


Fig. 27b

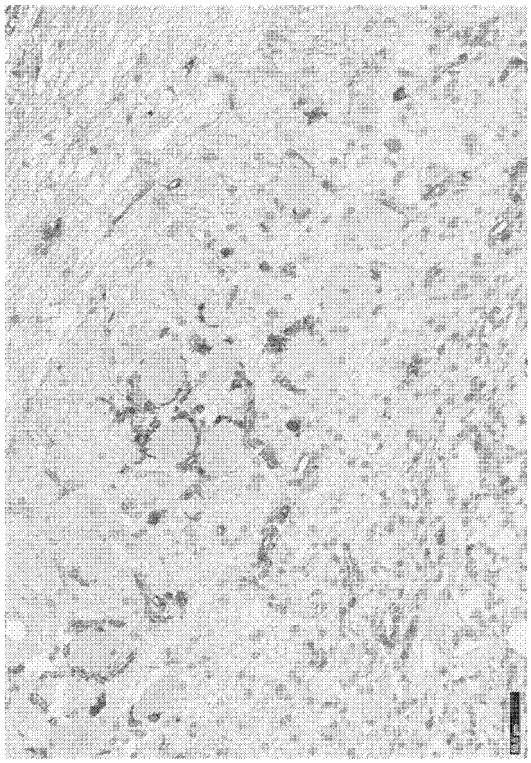


Fig. 27 c



Fig. 27 a