FIG. 1

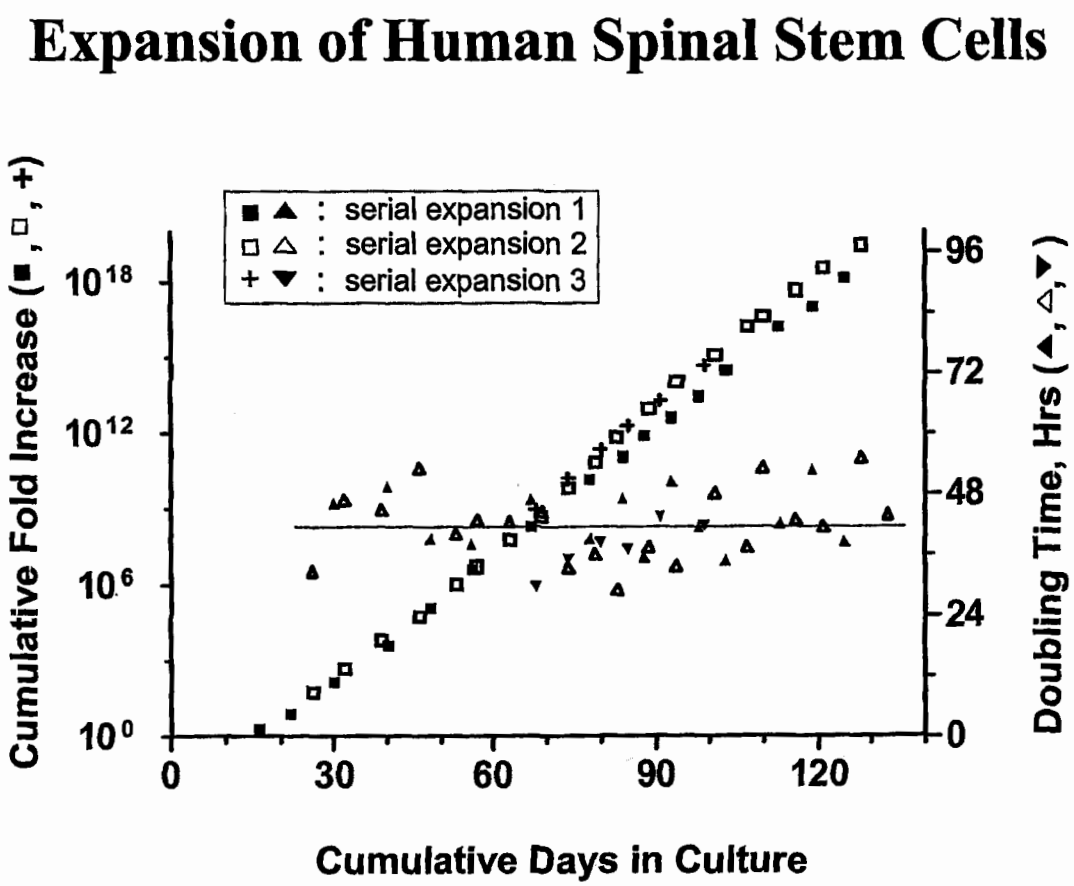

Expansion of Human Spinal Stem Cells
■ ▲ : serial expansion 1
□ △ : serial expansion 2
+ ▼ : serial expansion 3
Cumulative Fold Increase (■, □, +)
10^18
10^12
10^6
10^0
0
30
60
90
120
96
72
48
24
0
Doubling Time, Hrs (▲, △, ▼)
Cumulative Days in Culture

FIG. 2

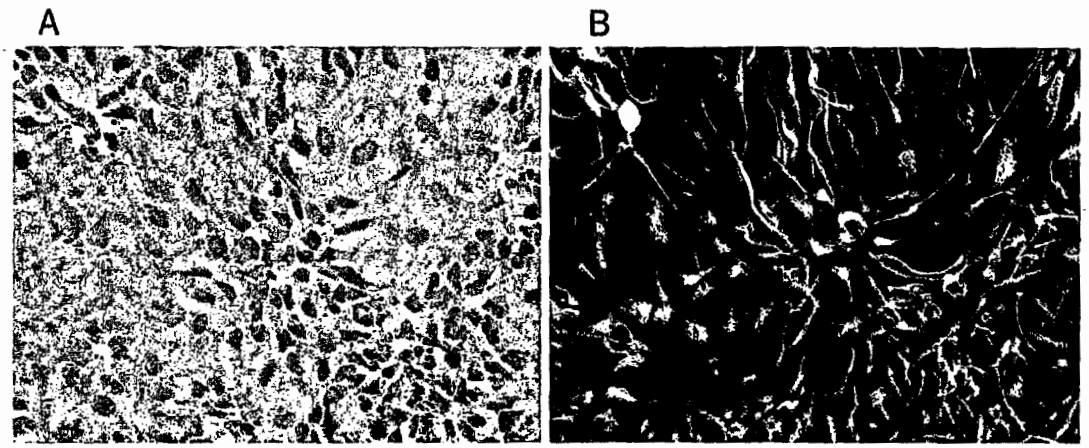


FIG. 3

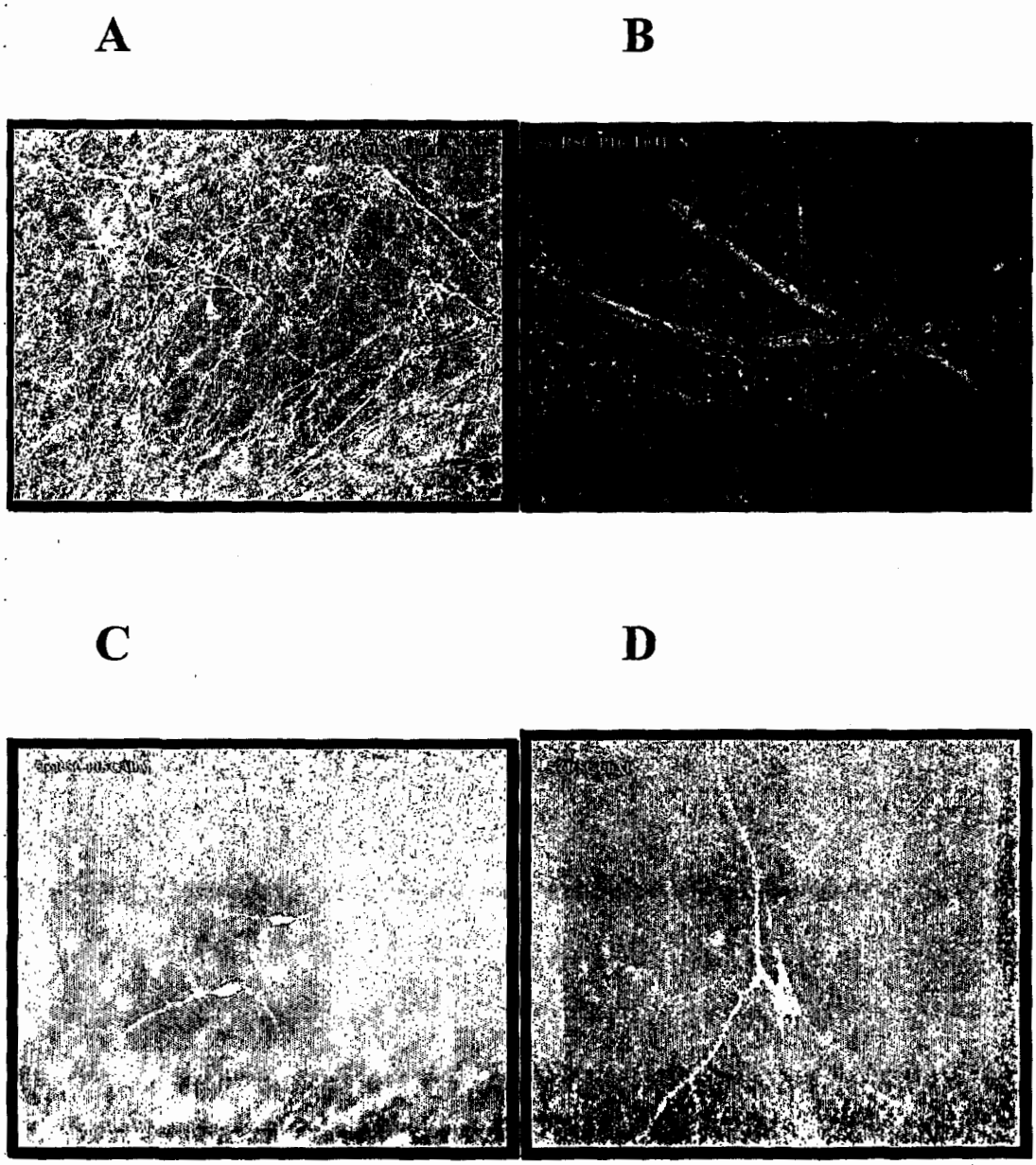


FIG. 4

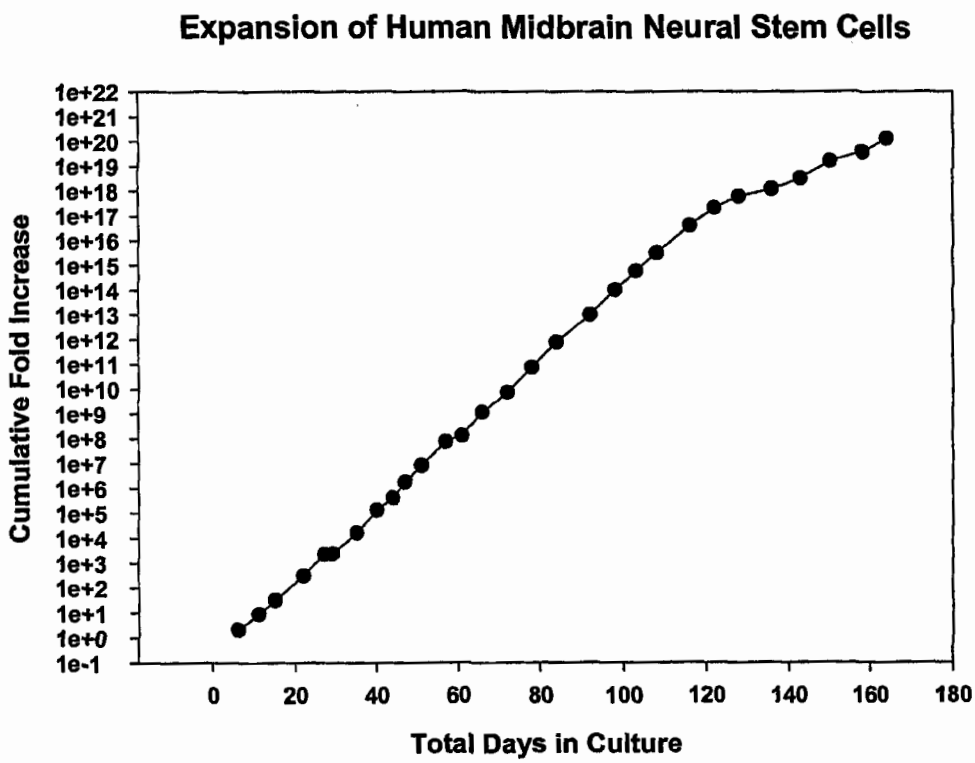

Expansion of Human Midbrain Neural Stem Cells
Cumulative Fold Increase
1e+22
1e+21
1e+20
1e+19
1e+18
1e+17
1e+16
1e+15
1e+14
1e+13
1e+12
1e+11
1e+10
1e+9
1e+8
1e+7
1e+6
1e+5
1e+4
1e+3
1e+2
1e+1
1e+0
1e-1
0
20
40
60
80
100
120
140
160
180
Total Days in Culture

FIG. 5

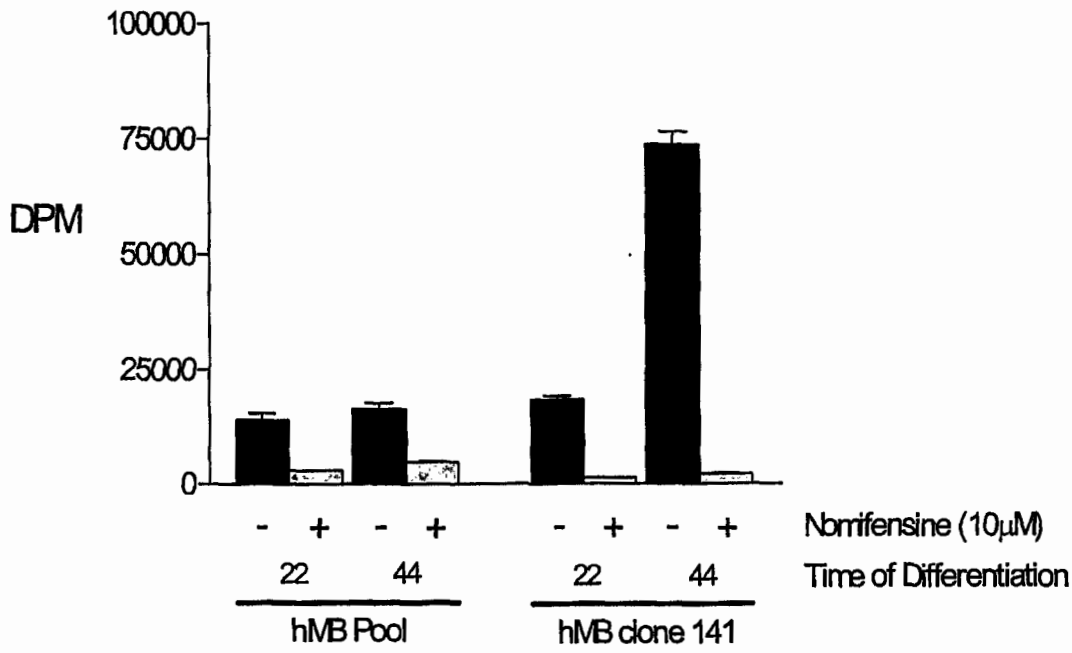

100000
75000
DPM
50000
25000
0
- + - + - + - +
Nomifensine (10μM)
22 44 22 44
Time of Differentiation
hMB Pool
hMB clone 141

FIG. 6A

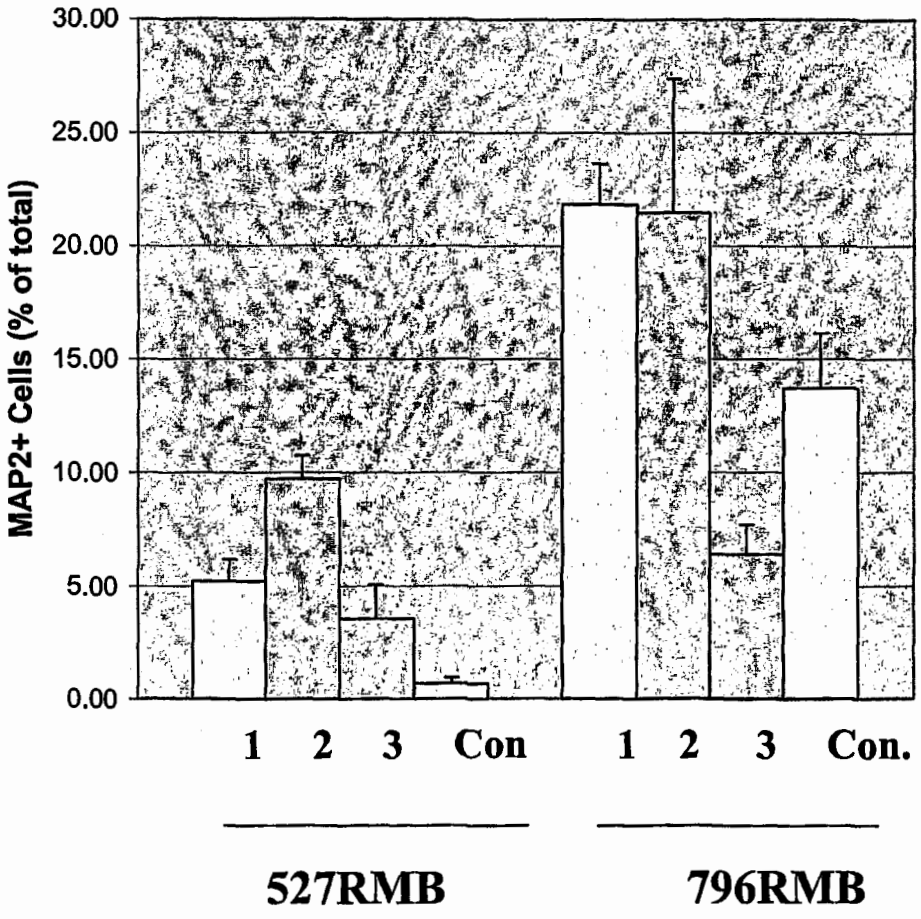

30.00
25.00
20.00
15.00
10.00
5.00
0.00
MAP2+ Cells (% of total)
1 2 3 Con 1 2 3 Con.
527RMB
796RMB

FIG. 6B

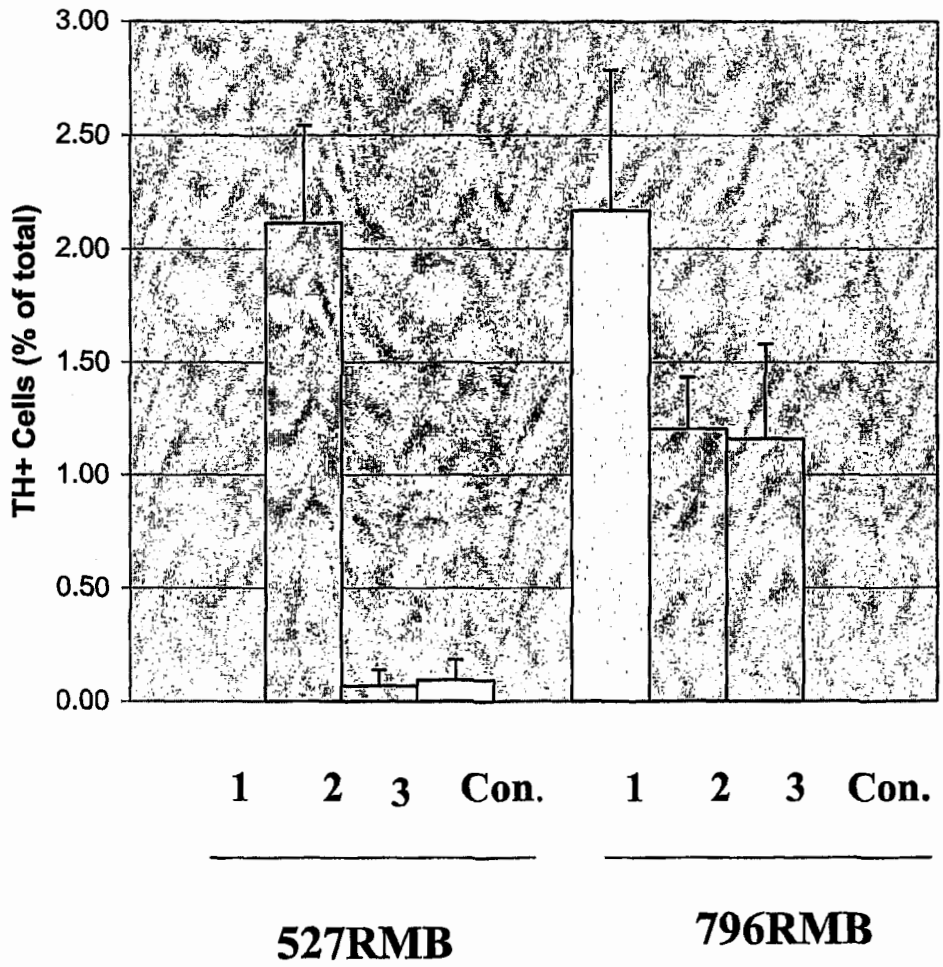

3.00
2.50
2.00
1.50
1.00
0.50
0.00
TH+ Cells (% of total)
1 2 3 Con. 1 2 3 Con.
527RMB
796RMB

FIG. 7

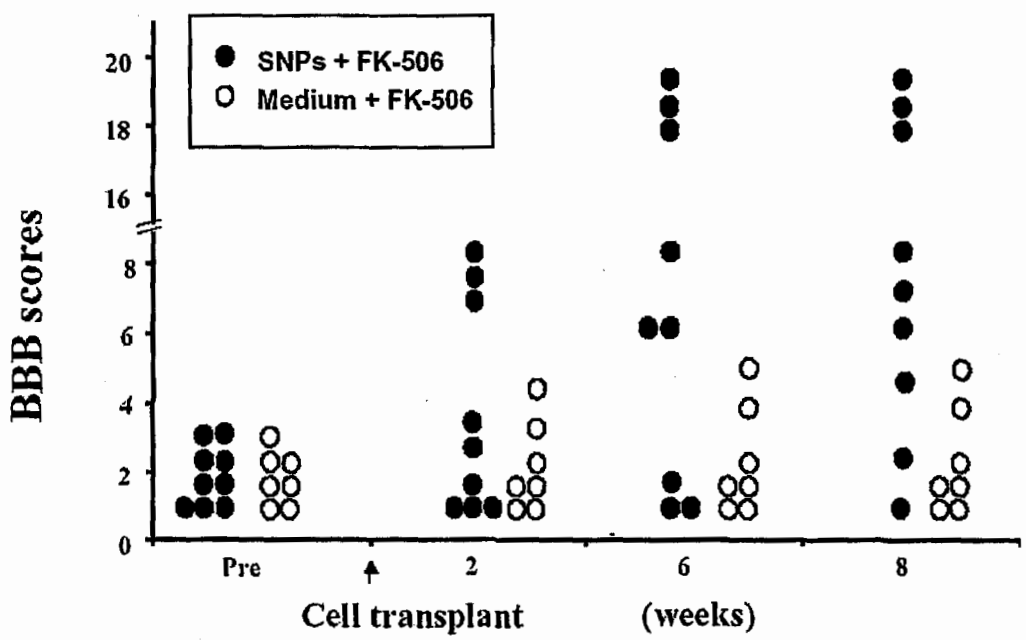

SNPs + FK-506
Medium + FK-506
BBB scores
20
18
16
8
6
4
2
0
Pre
2
6
8
Cell transplant
(weeks)

FIG. 8

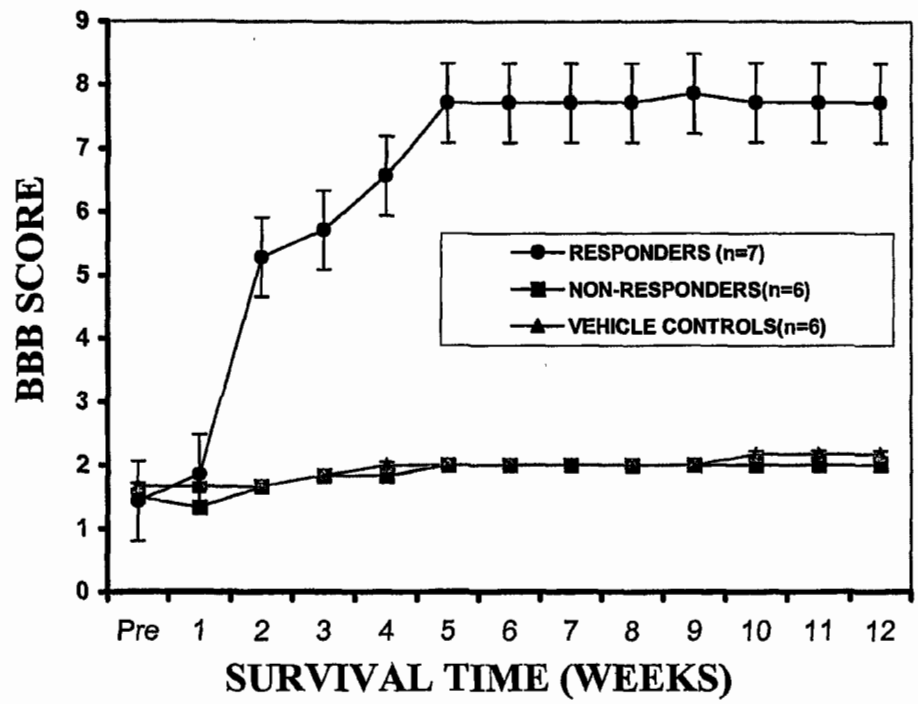
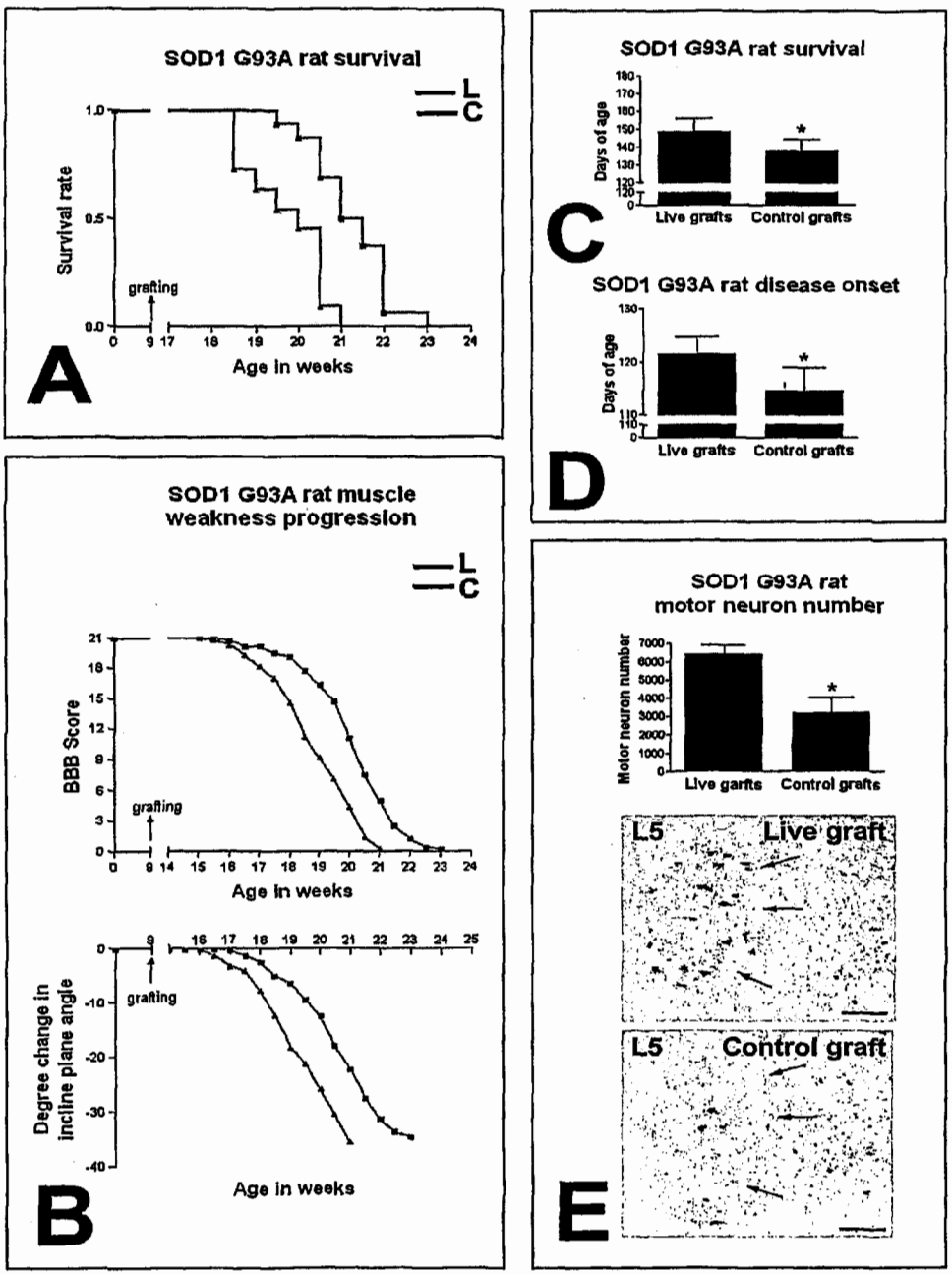

BBB SCORE
0
1
2
3
4
5
6
7
8
9
Pre
1
2
3
4
5
6
7
8
9
10
11
12
SURVIVAL TIME (WEEKS)
RESPONDERS (n=7)
NON-RESPONDERS(n=6)
VEHICLE CONTROLS(n=6)

FIG. 9


SOD1 G93A rat survival
L
C
Survival rate
grafting
Age in weeks
A
SOD1 G93A rat muscle weakness progression
BBB Score
Degree change in incline plane angle
B
SOD1 G93A rat survival
Days of age
Live grafts
Control grafts
C
SOD1 G93A rat disease onset
D
SOD1 G93A rat motor neuron number
Motor neuron number
L5
Live graft
Control graft
E