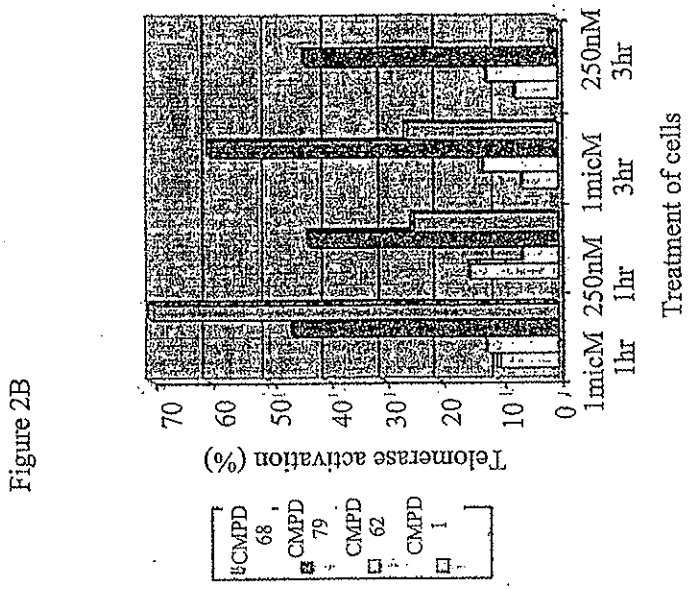


Figure 2B

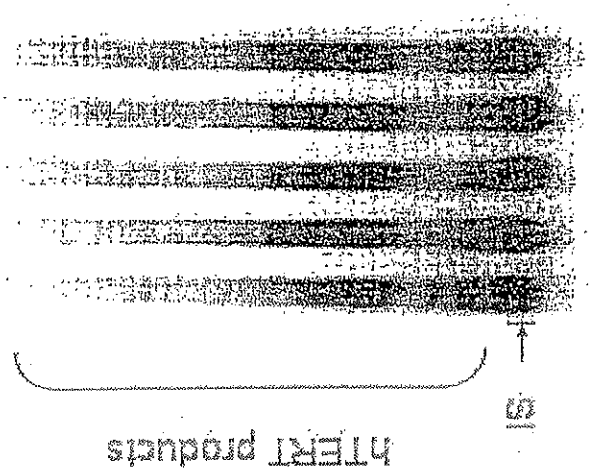


Figure 1A

Figure 1

Figure 2A



Figure 2B

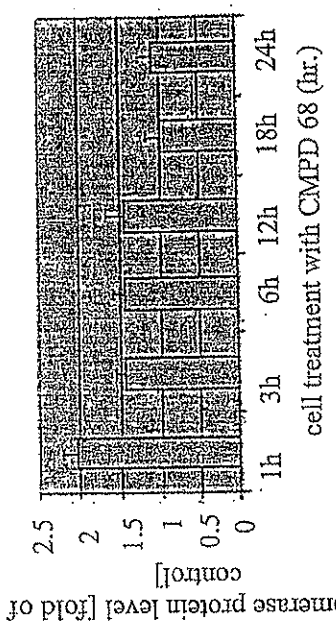


Figure 2

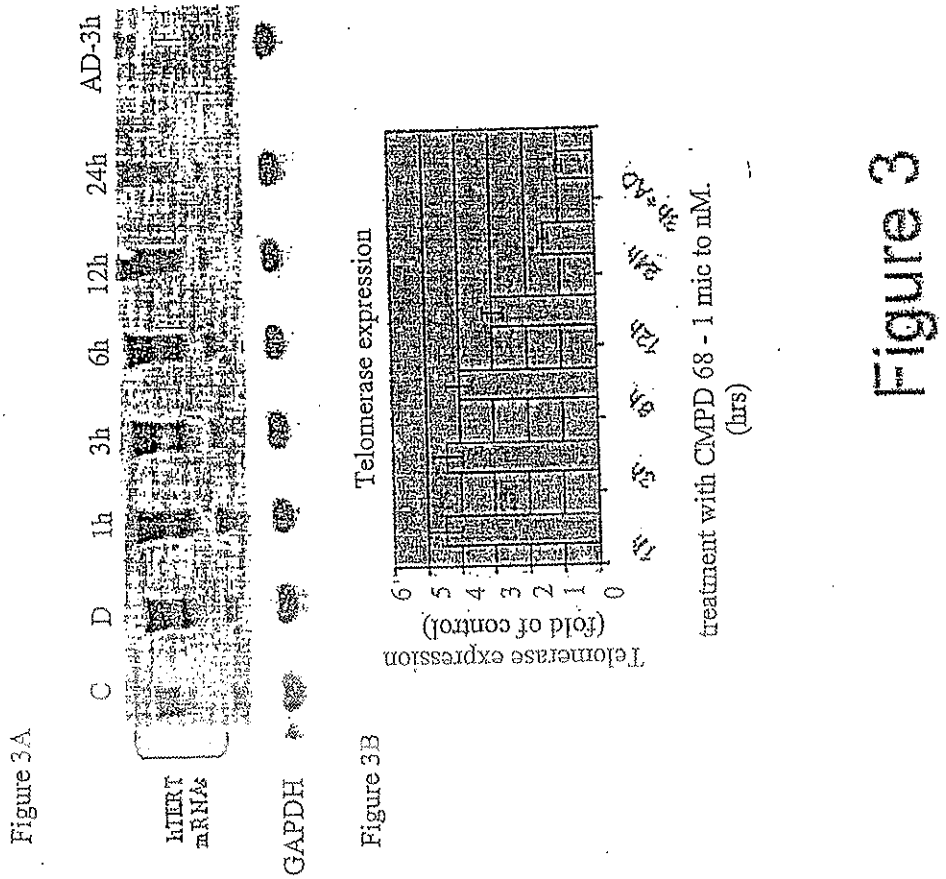

Figure 3A
C
D
1h
3h
6h
12h
24h
AD-3h
hTERT mRNAs
GAPDH
Figure 3B
Telomerase expression
Telomerase expression (fold of control)
0
1
2
3
4
5
6
treatment with CMPD 68 - 1 mic to nM.
(hrs)

Figure 3

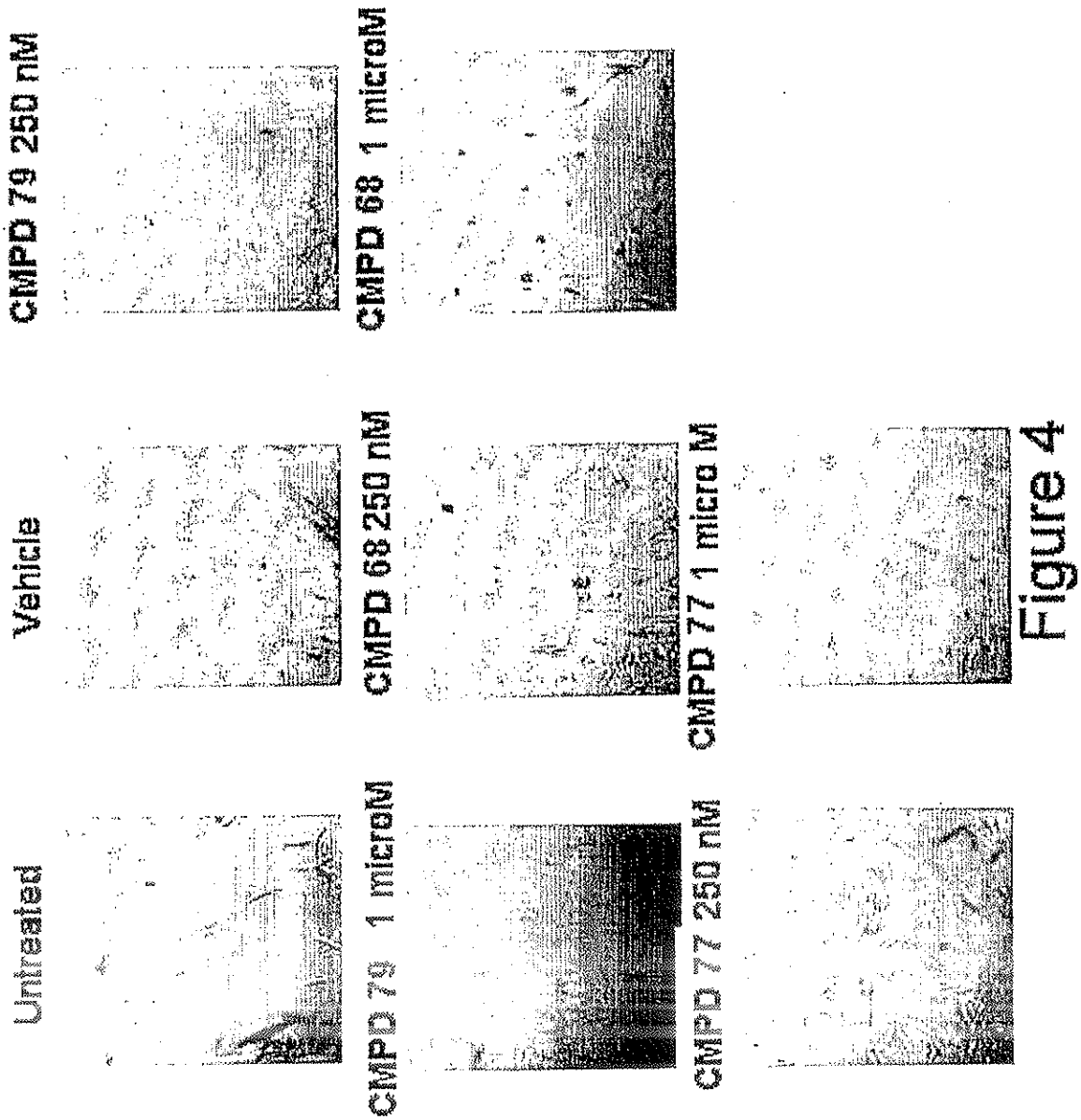

Untreated
Vehicle
CMPD 79 250 nM
CMPD 79 1 microM
CMPD 68 250 nM
CMPD 68 1 microM
CMPD 77 250 nM
CMPD 77 1 micro M

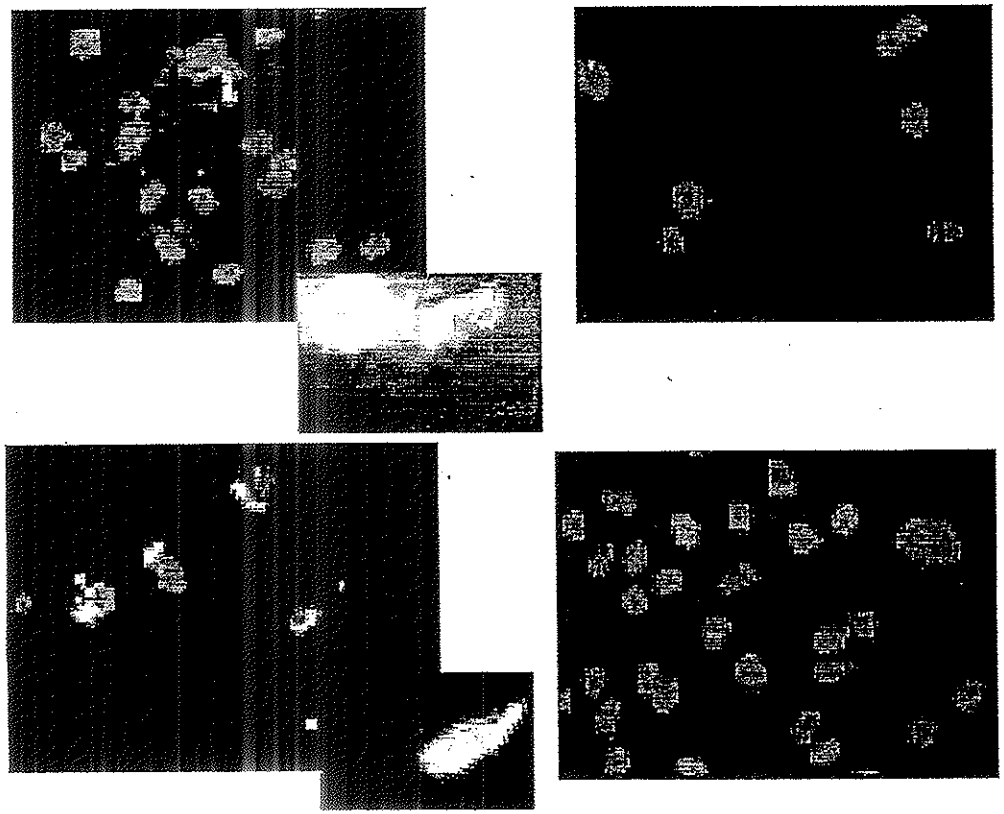
Figure 4

Figure 5A

Telomerase activation in hMSC

CMPD 79 250 nM (6hrs)

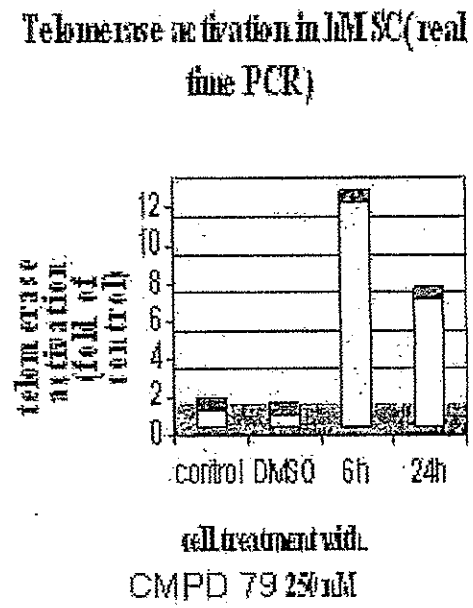
CMPD 77 nM (6 hrs)



CMPD 68 - 250 nM (6 hrs)

Vehicle (1%)

Figure 5B



A- immuno fluorescence with anti hTERT AB

B- telomerase activity using real time PCR specific kit.

Figure 5

SUBSTITUTE SHEET (RULE 26)

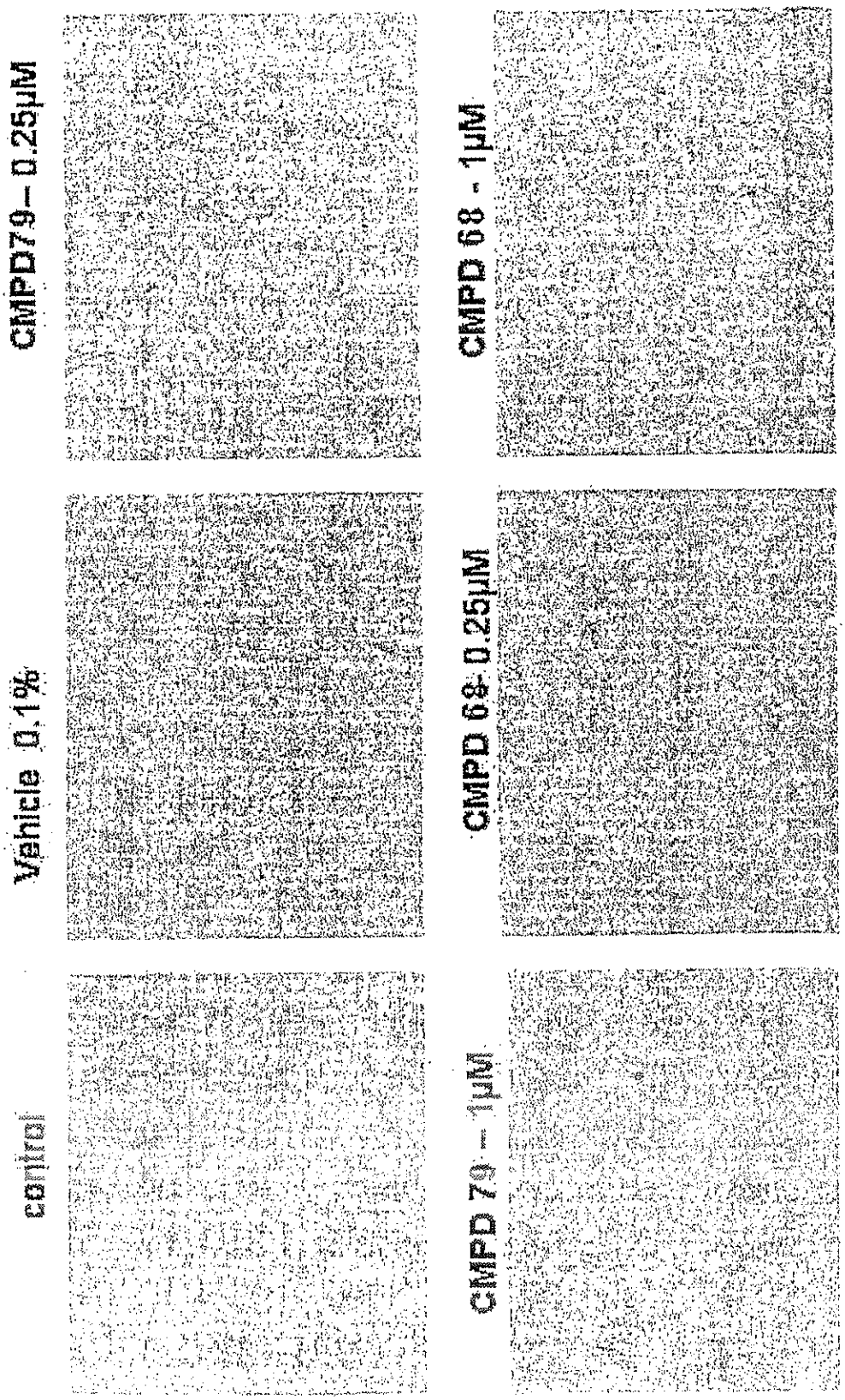

CMPD79– 0.25µM
CMPD 68 - 1µM
Vehicle 0.1%
CMPD 68- 0.25µM
control
CMPD 79 – 1µM
x10

Figure 6

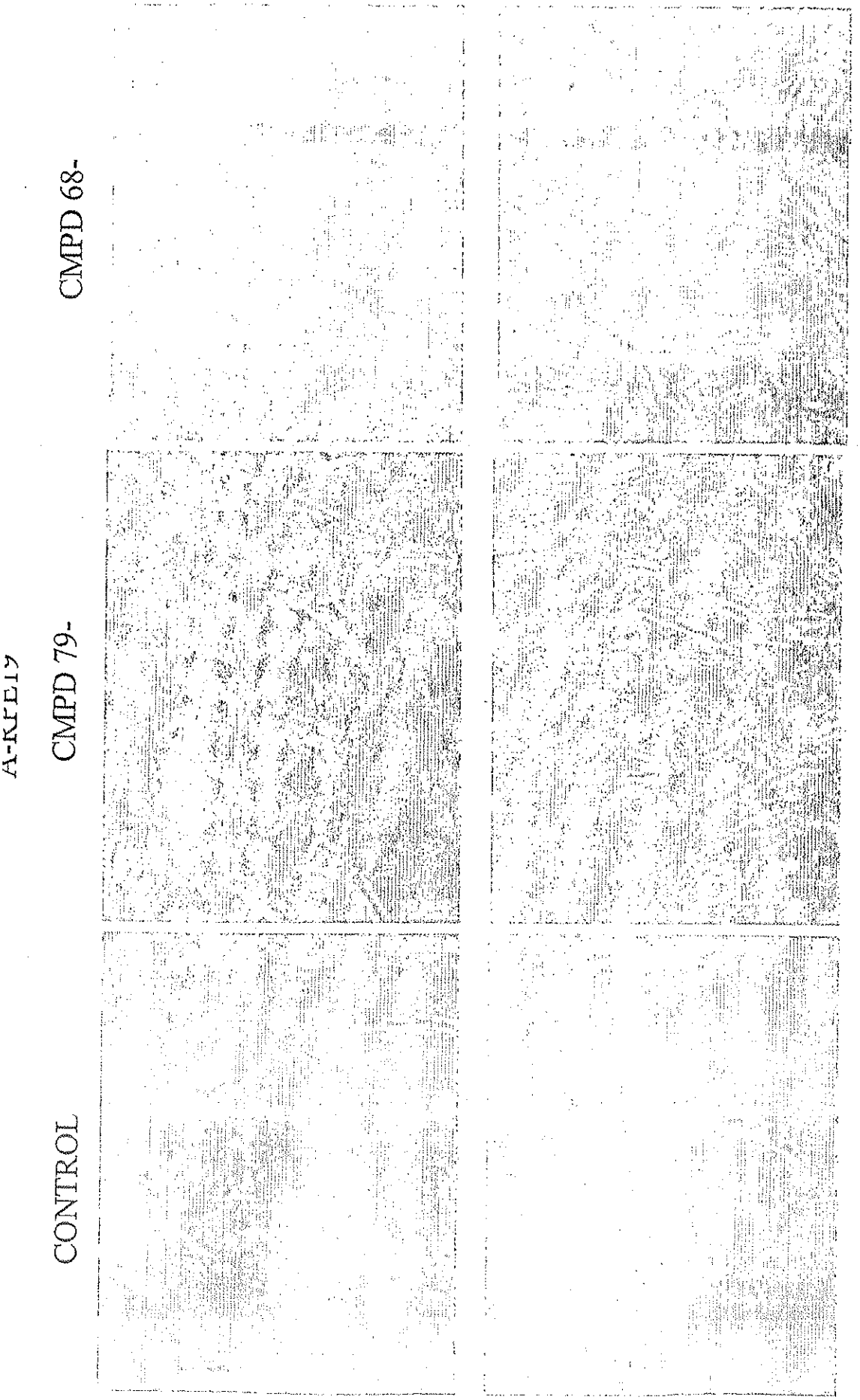


FIGURE 7A

telomerase activation in RPE cells (24 hrs treatment) using real time PCR kit

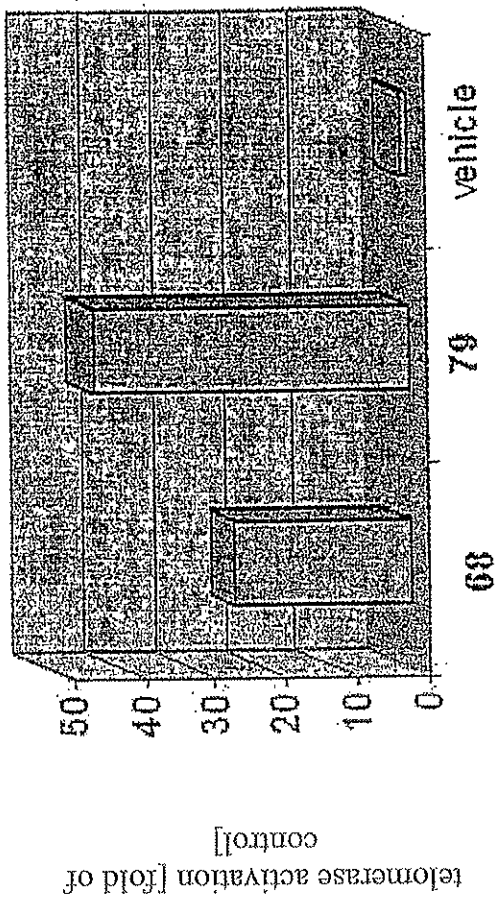


Figure 7B

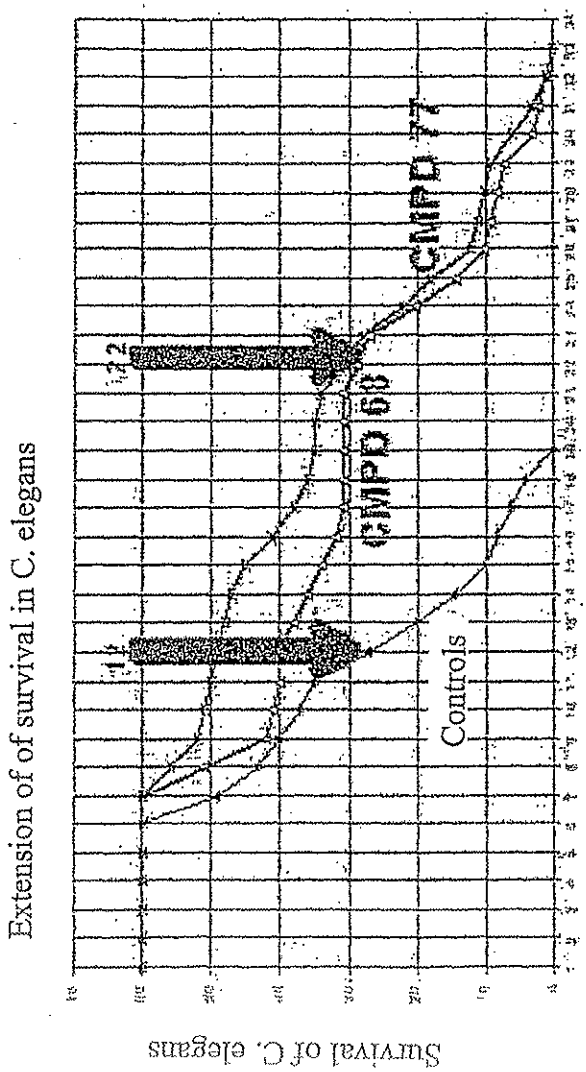

Survival of C. elegans
Extension of of survival in C. elegans
Days
Controls
CMPD 68
CMPD 77

Figure 8

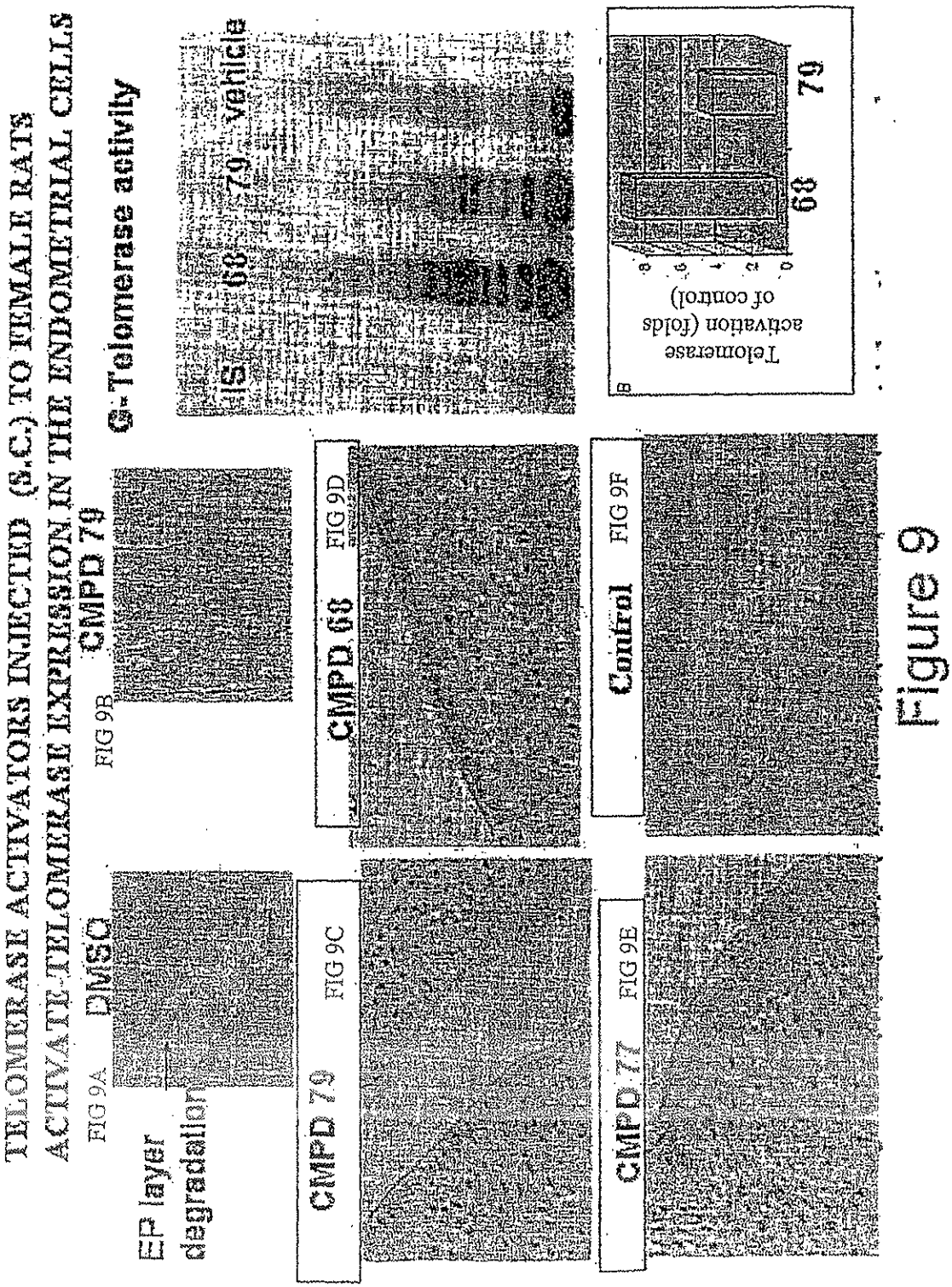

TELOMERASE ACTIVATORS INJECTED (S.C.) TO FEMALE RATS
ACTIVATE TELOMERASE EXPRESSION IN THE ENDOMETRIAL CELLS
FIG 9A
DMSO
EP layer degradation
FIG 9B
CMPD 79
G- Telomerase activity
IS 68 79 vehicle
B
Telomerase activation (folds of control)
68
79
CMPD 79
FIG 9C
CMPD 68
FIG 9D
CMPD 77
FIG 9E
Control
FIG 9F

Figure 9

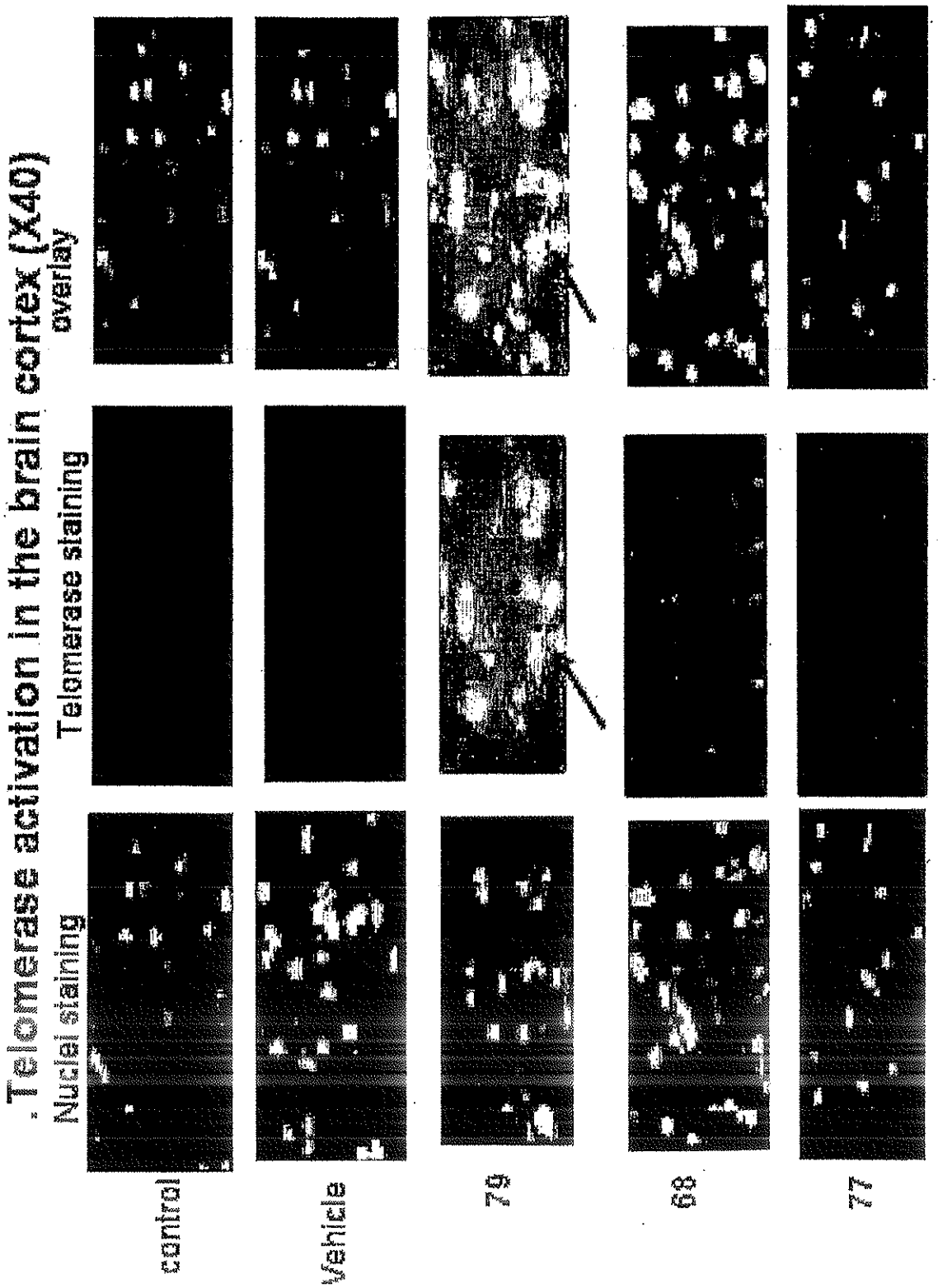

Telomerase activation in the brain cortex (X40)
Nuclei staining
Telomerase staining
overlay
control
Vehicle
79
68
77

Figure 10

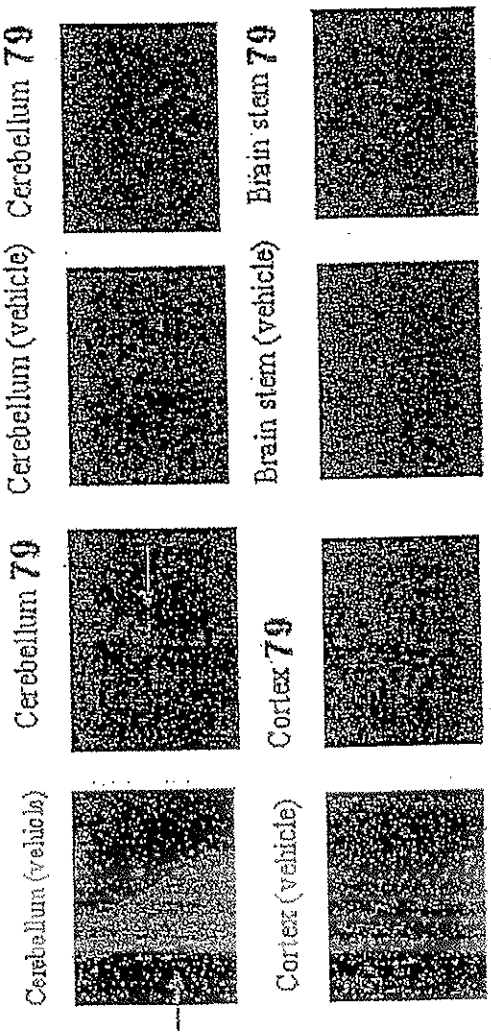

Cerebellum (vehicle)
Cerebellum 79
Cortex (vehicle)
Cortex 79
Cerebellum (vehicle)
Cerebellum 79
Brain stem (vehicle)
Brain stem 79

Figure 11

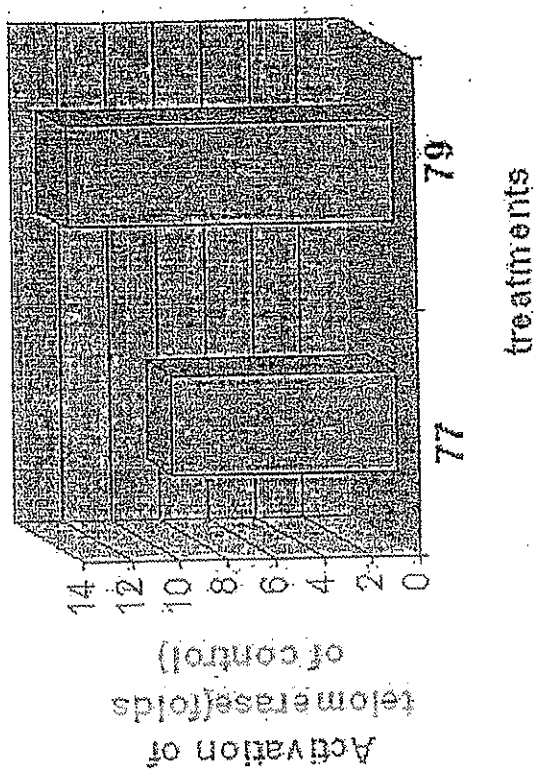

Activation of
telomerase(folds
of control)
14
12
10
8
6
4
2
0
77
79
treatments

Figure 12

PREVENTION OF GLUTAMATE INDUCED APOPTOSIS IN MOUSE CEREBELLUM

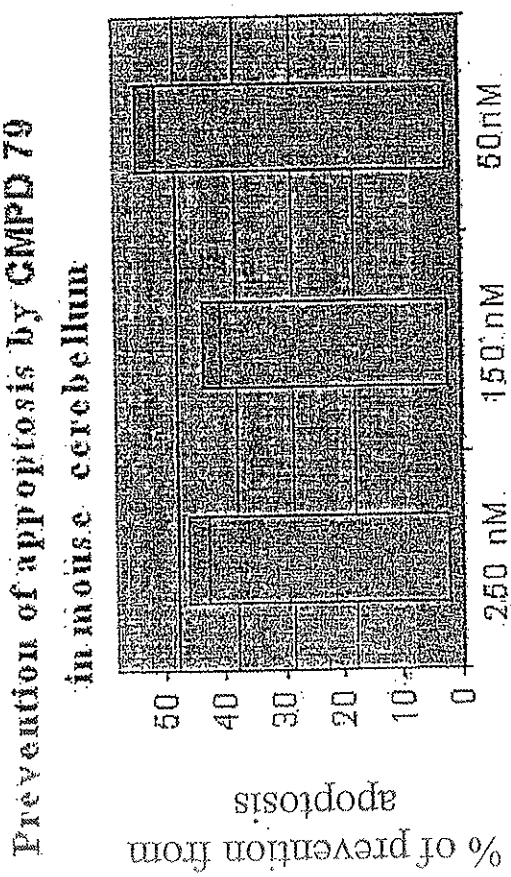


Figure 13

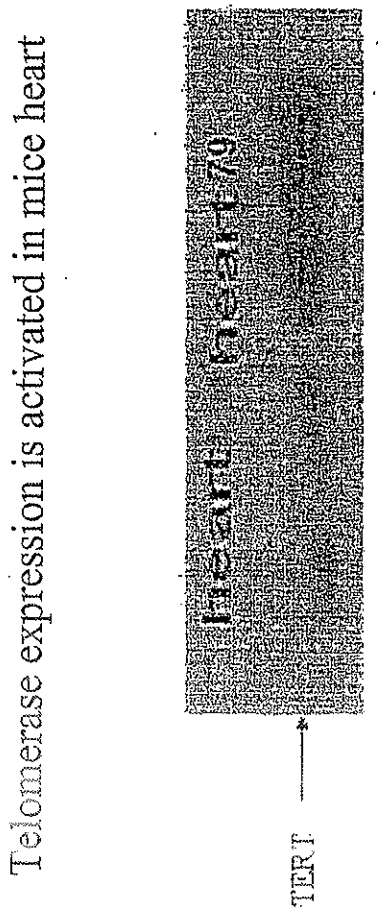

Telomerase expression is activated in mice heart
Heart
TERT

Figure 14

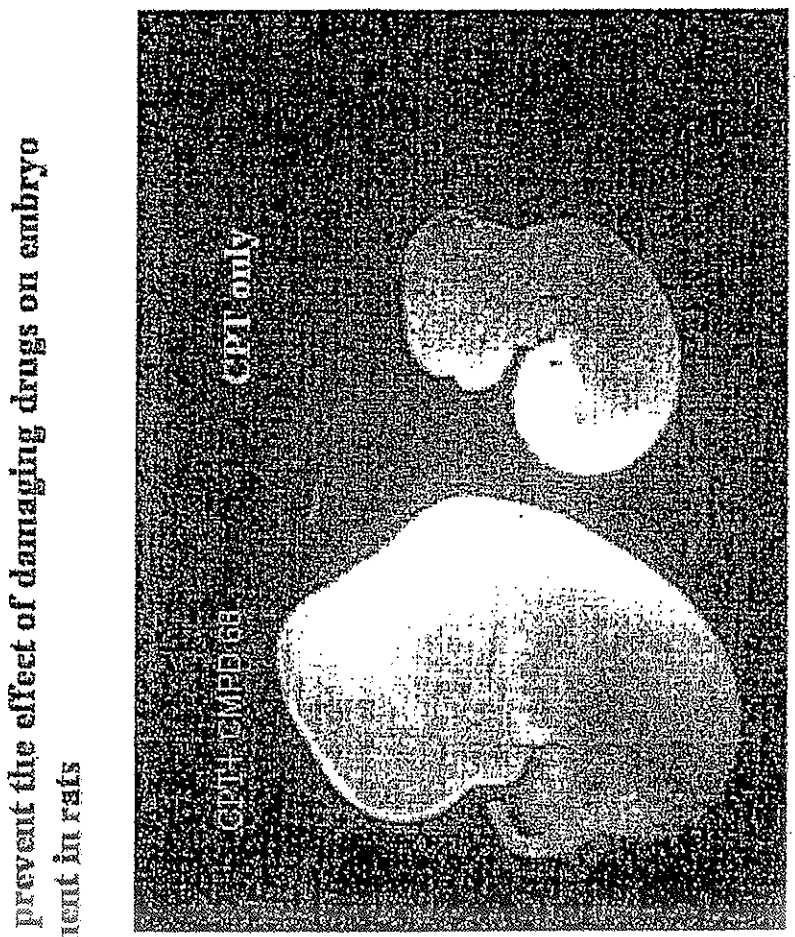

CMPD 68 prevent the effect of damaging drugs on embryo development in rats
CMPD 68 + CPT
CPT only

Figure 15