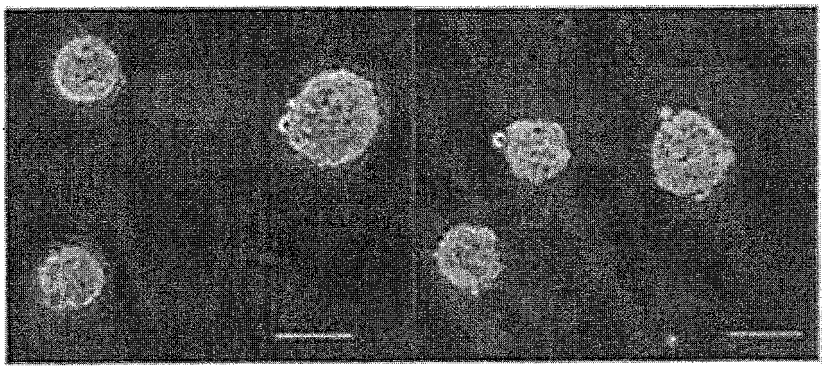
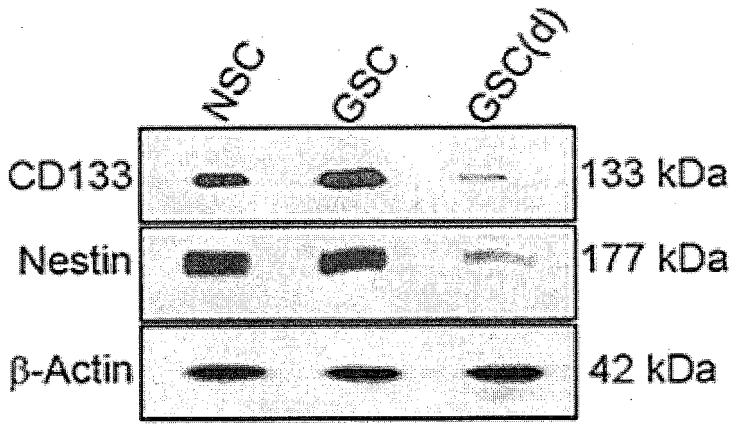
Fig. 1

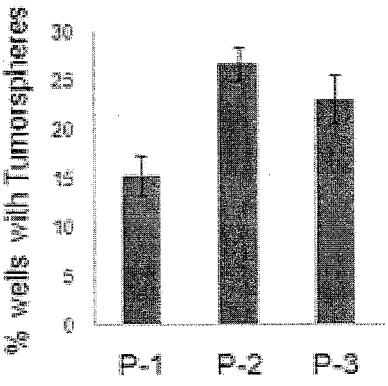
A.


NSC - Neurospheres GSC - Tumorspheres

B.


NSC
GSC
GSC(d)
CD133
133 kDa
Nestin
177 kDa
β-Actin
42 kDa

C.


% wells with Tumorspheres
30
25
20
15
10
5
0
P-1
P-2
P-3

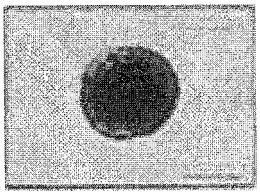
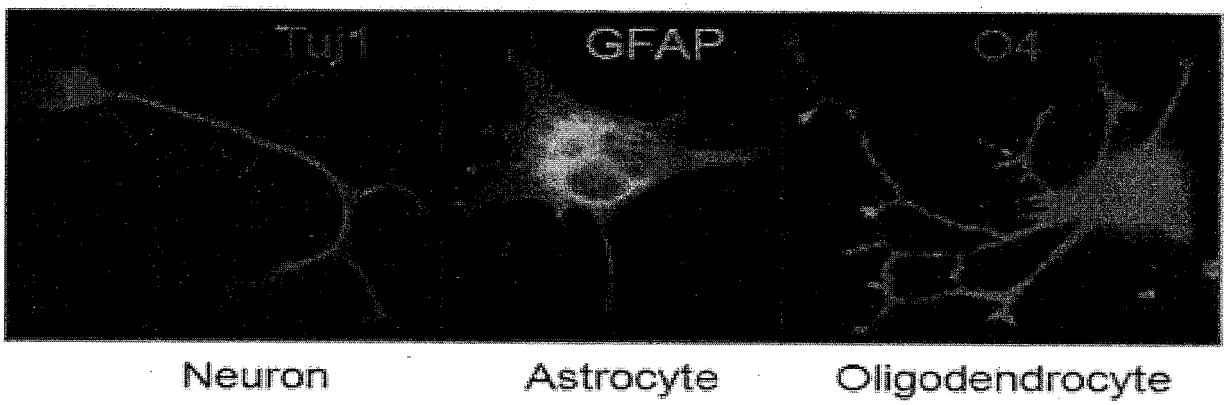


Fig. 1 (Cont'd)

D.



E.

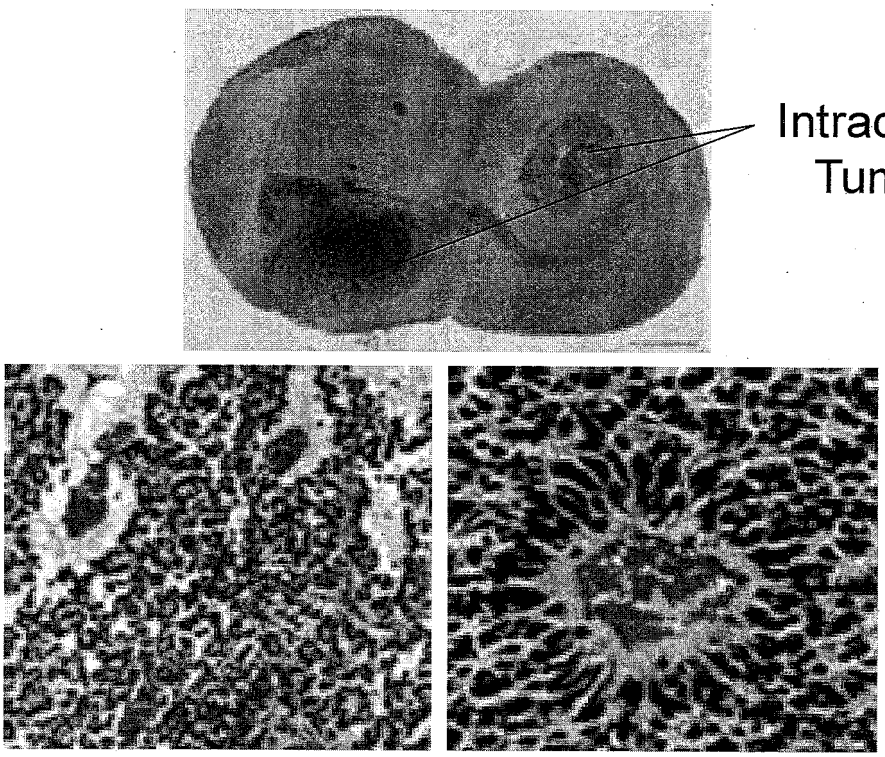
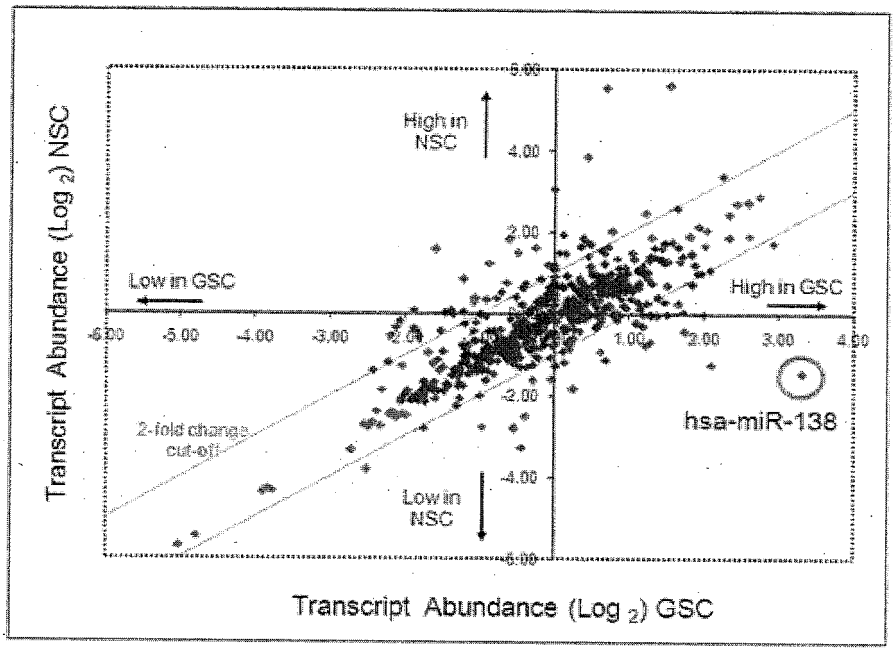


Fig. 2

A.


Transcript Abundance (Log 2) NSC
Transcript Abundance (Log 2) GSC
High in NSC
Low in GSC
High in GSC
Low in NSC
2-fold change cut-off
hsa-miR-138
5.00
4.00
2.00
-2.00
-4.00
-5.00
-4.00
-3.00
1.00
2.00
3.00
4.00

B

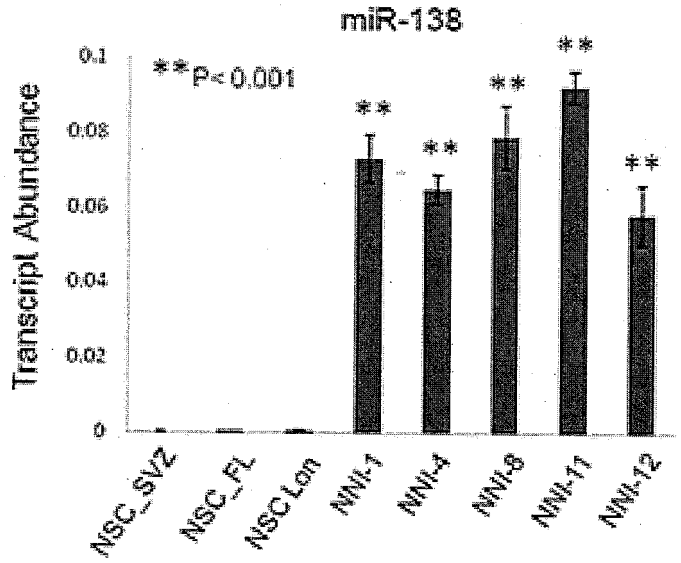
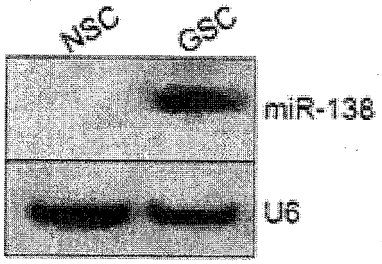
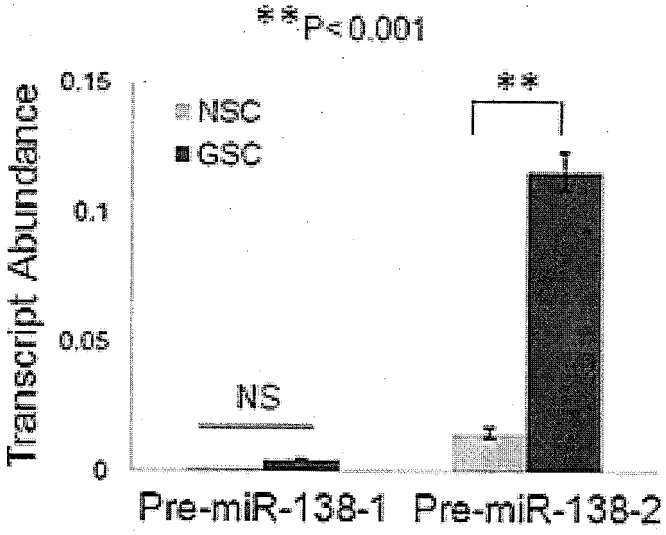

miR-138
**P< 0.001
Transcript Abundance
0.1
0.08
0.06
0.04
0.02
0
NSC_SVZ
NSC_FL
NSC Lan
NNI-1
NNI-4
NNI-8
NNI-11
NNI-12

Fig. 2 (Cont'd)

C



D.



E.

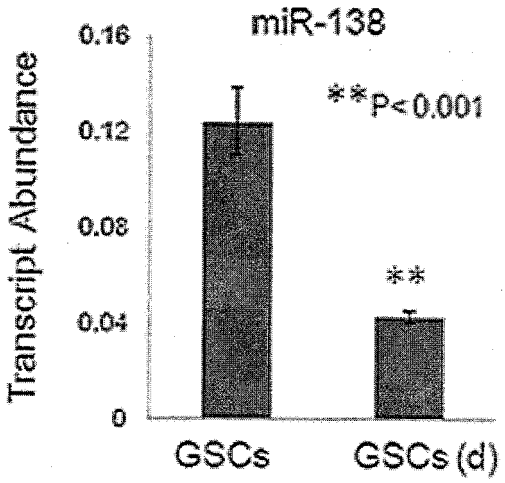
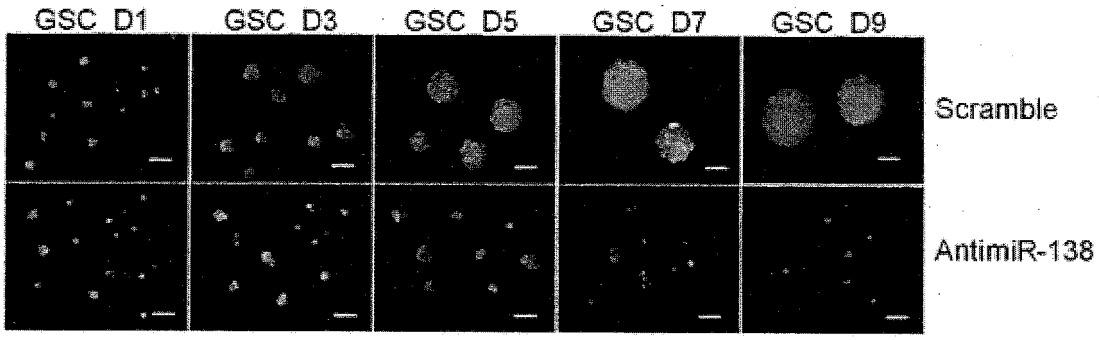


Fig. 3

A.


GSC D1
GSC D3
GSC D5
GSC D7
GSC D9
Scramble
AntimiR-138

B.

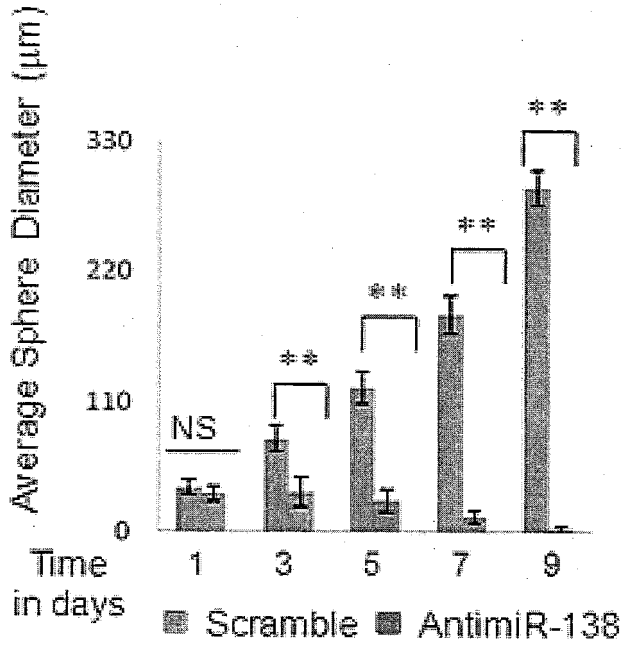
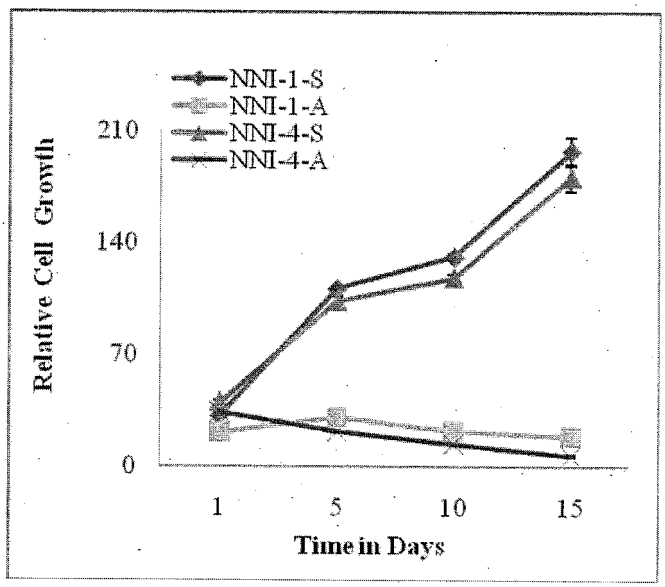
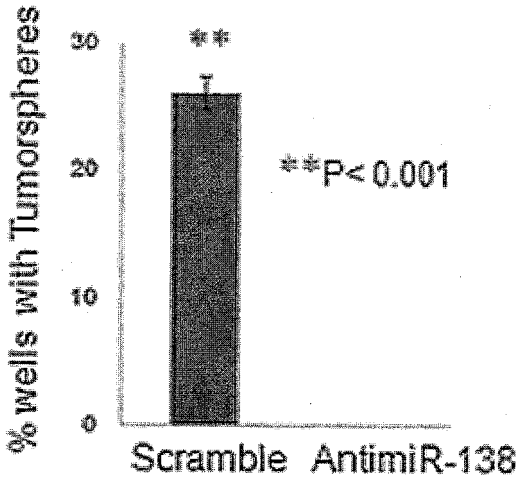

Average Sphere Diameter (µm)
330
220
110
0
NS
**
**
**
**
Time in days
1
3
5
7
9
Scramble
AntimiR-138

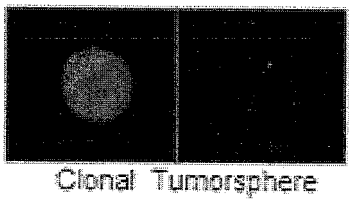
Fig. 3 (Cont'd)

C.



D

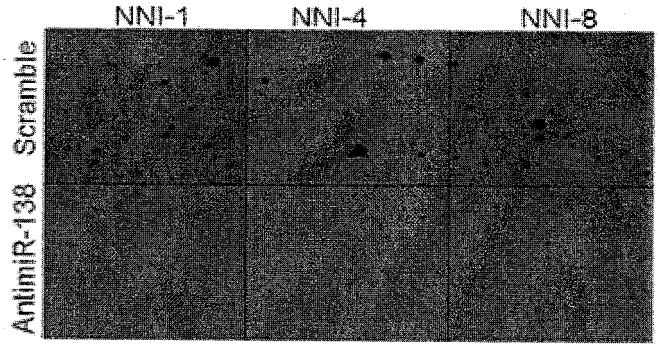




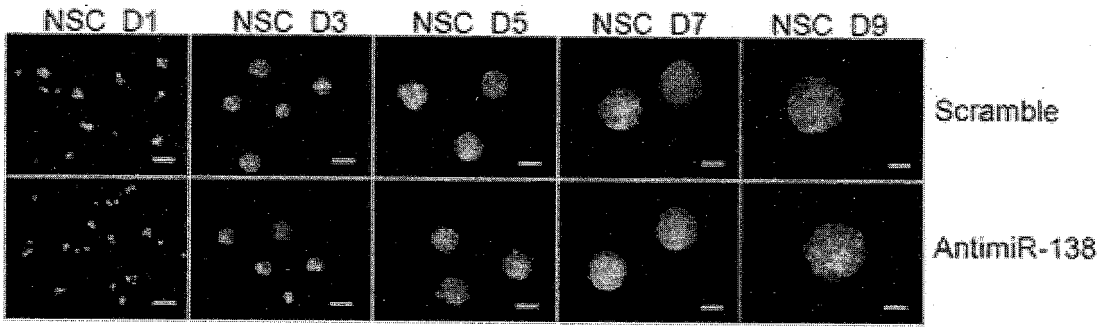
Clonal Tumorsphere

Fig. 3 (Cont'd)

E.



F.



G.

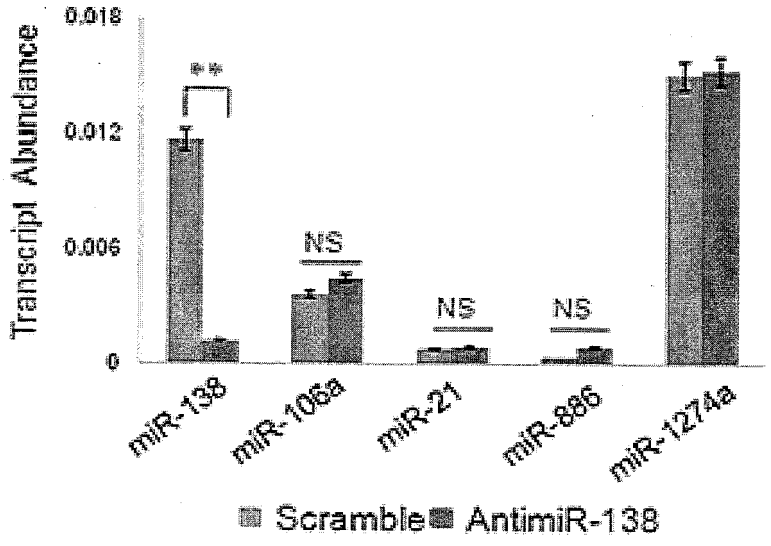
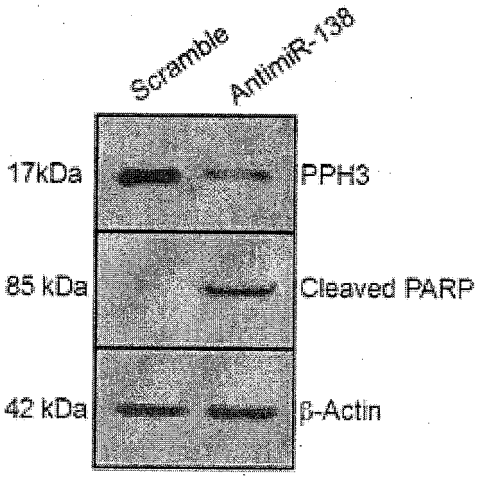
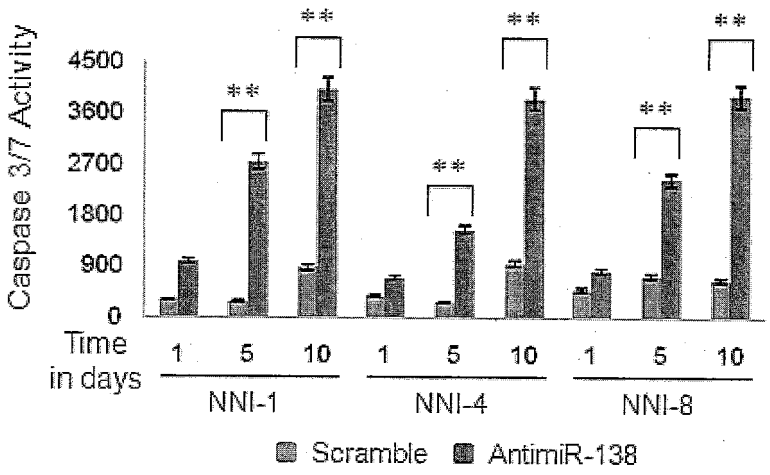


Fig. 4

A


Scramble
AntimiR-138
17kDa
PPH3
85 kDa
Cleaved PARP
42 kDa
β-Actin

B


Caspase 3/7 Activity
4500
3600
2700
1800
900
0
**
Time in days
1 5 10 1 5 10 1 5 10
NNI-1
NNI-4
NNI-8
Scramble
AntimiR-138

C.

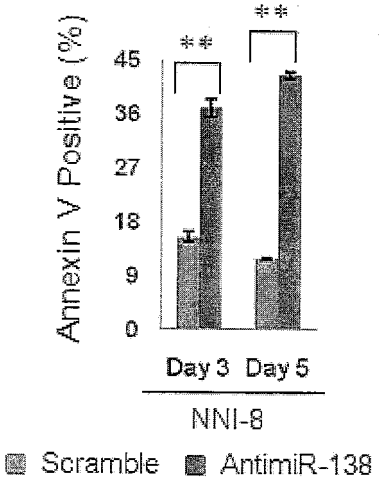
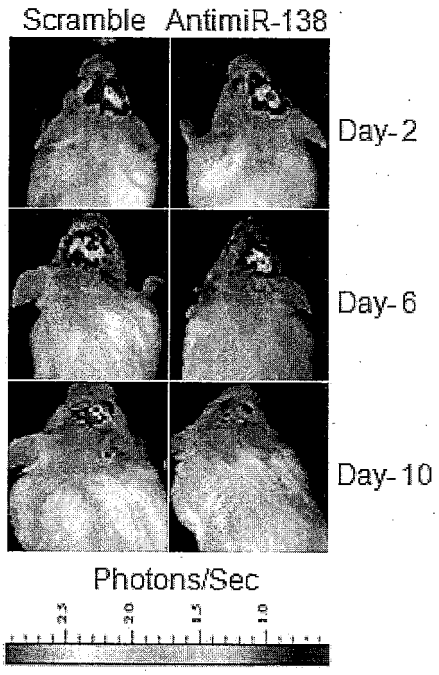

Annexin V Positive (%)
45
36
27
18
9
0
**
Day 3 Day 5
NNI-8
Scramble
AntimiR-138

Fig. 5

A.


Scramble
AntimiR-138
Day-2
Day-6
Day-10
Photons/Sec

B.

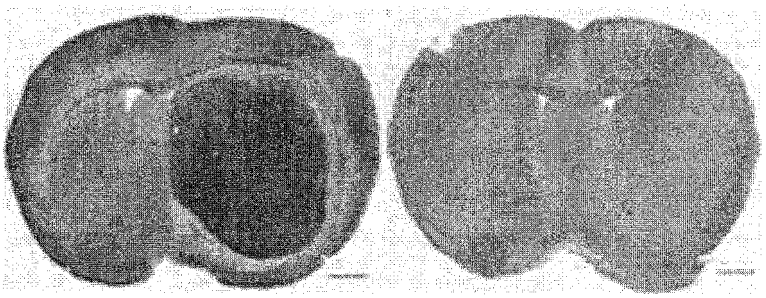

GSCs-Scramble
GSCs-AntimiR-138

Fig. 5 (Cont'd)

C.

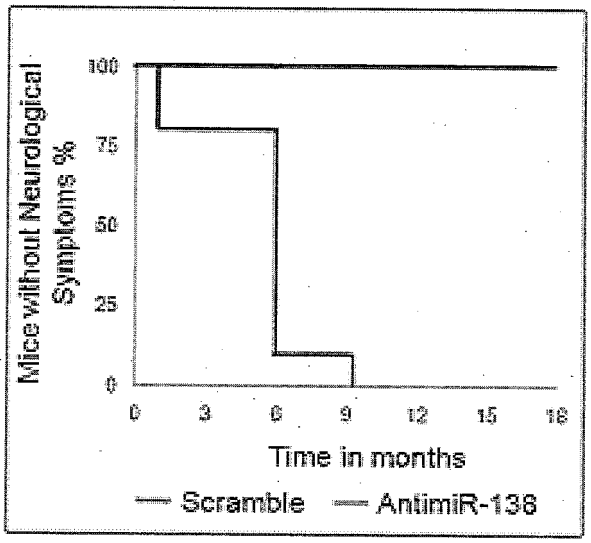
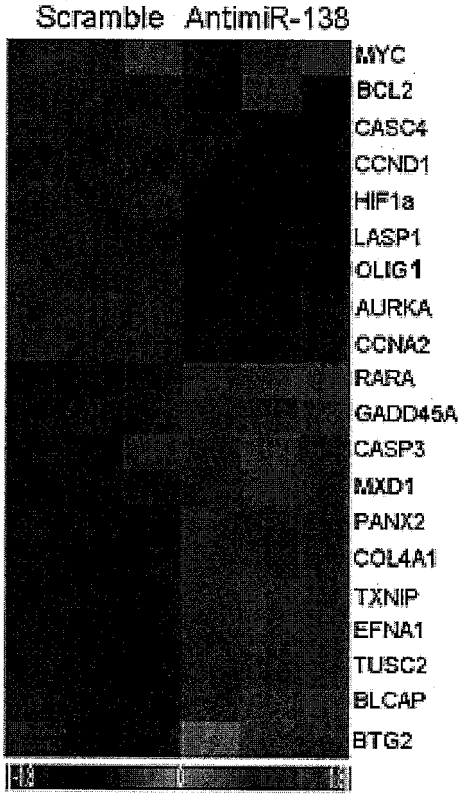

Mice without Neurological Symptoms %
100
75
50
25
0
0
3
6
9
12
15
18
Time in months
Scramble
AntimiR-138

Fig. 6

A.


Scramble
AntimiR-138
MYC
BCL2
CASC4
CCND1
HIF1a
LASP1
OLIG1
AURKA
CCNA2
RARA
GADD45A
CASP3
MXD1
PANX2
COL4A1
TXNIP
EFNA1
TUSC2
BLCAP
BTG2

B.

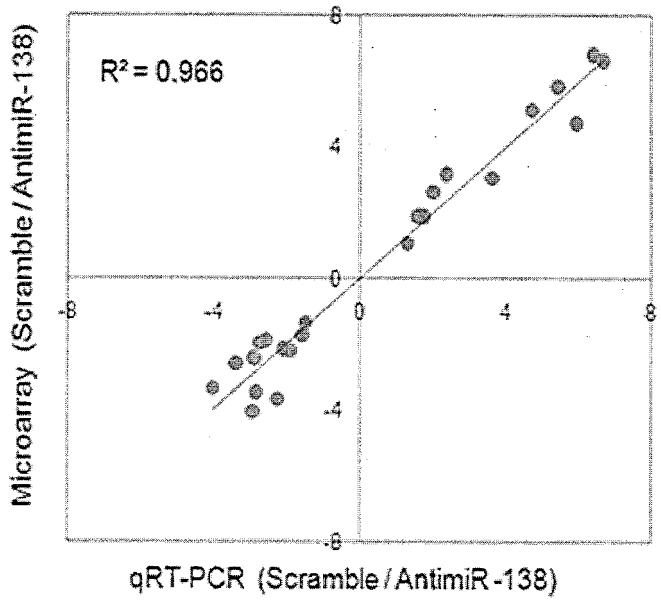
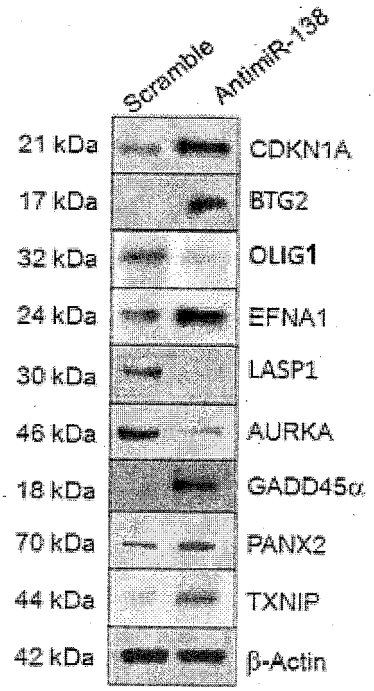

R² = 0.966
8
4
0
-4
-8
-8
-4
0
4
8
Microarray (Scramble / AntimiR-138)
qRT-PCR (Scramble / AntimiR-138)

Fig. 6 (Cont'd)

C.



D.

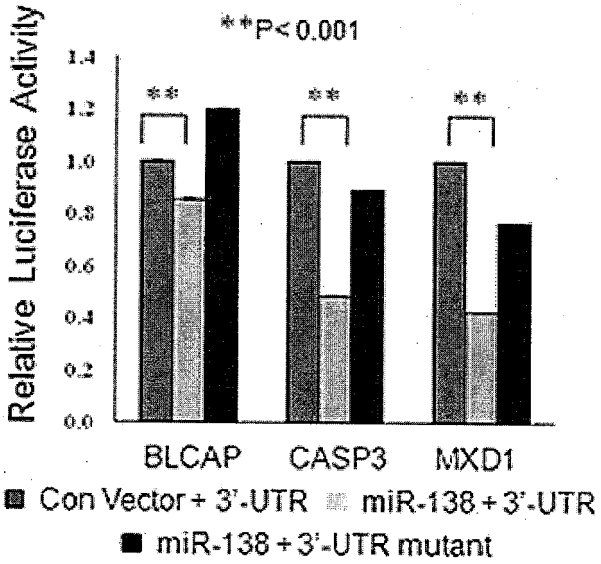
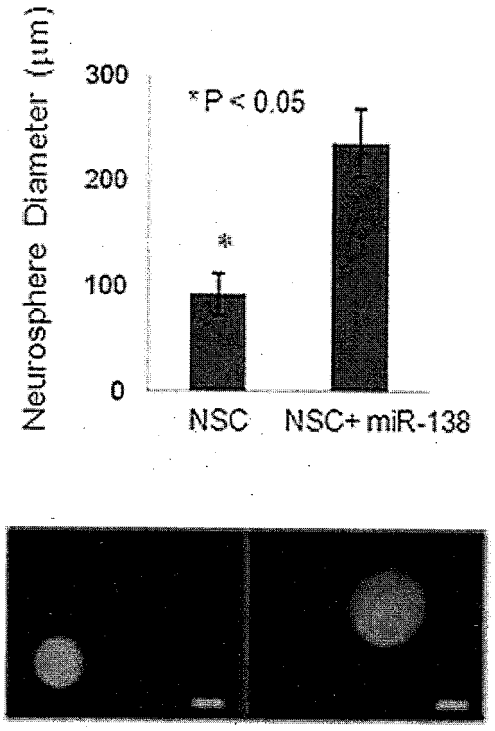


Fig. 7

A.


Neurosphere Diameter (μm)
300
200
100
0
*P < 0.05
*
NSC
NSC+ miR-138

B

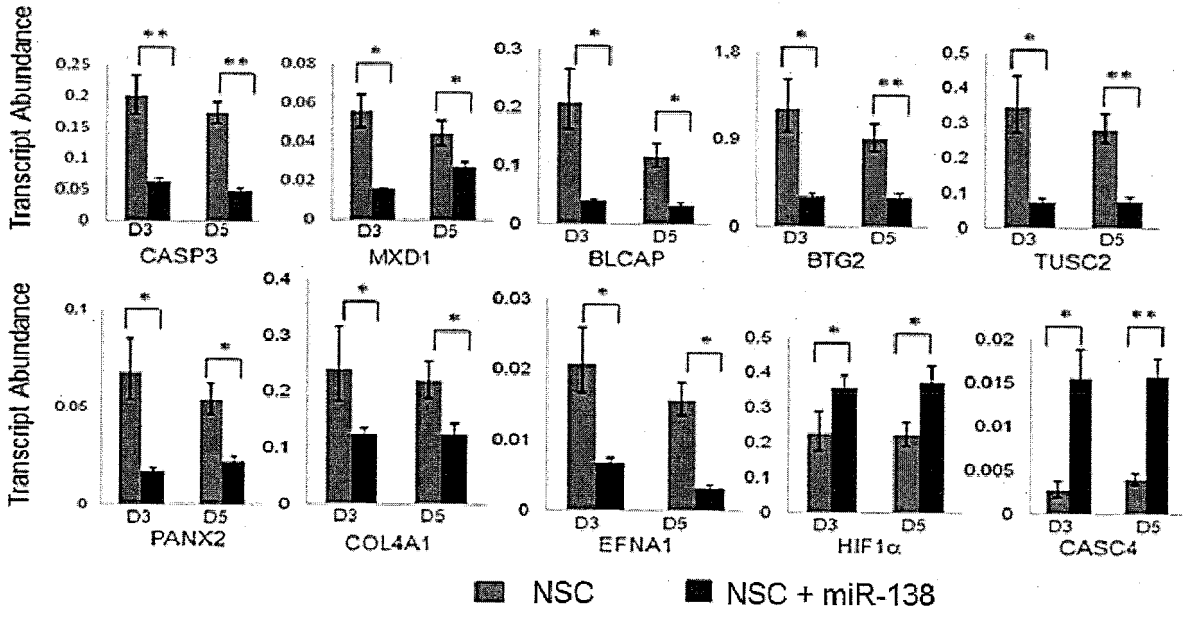
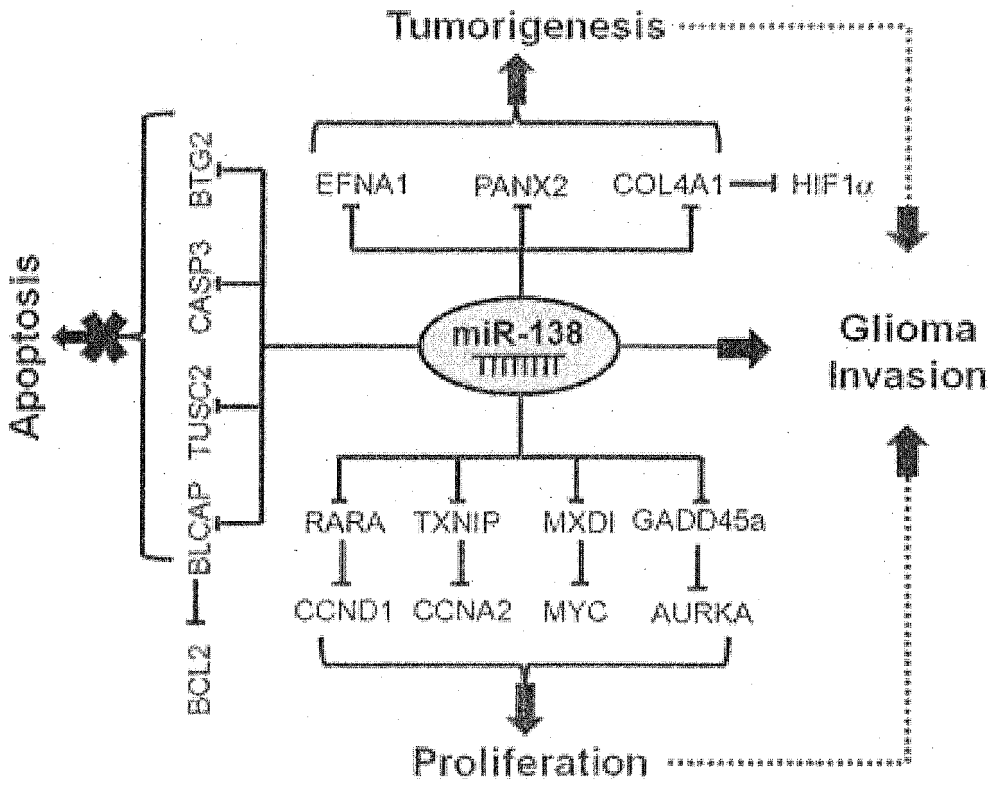

Transcript Abundance
CASP3
MXD1
BLCAP
BTG2
TUSC2
PANX2
COL4A1
EFNA1
HIF1α
CASC4
D3
D5
NSC
NSC + miR-138

Fig. 8

A


Tumorigenesis
EFNA1
PANX2
COL4A1
HIF1α
BTG2
CASP3
TUSC2
BLCAP
BCL2
Apoptosis
miR-138
Glioma Invasion
RARA
TXNIP
MXDI
GADD45a
CCND1
CCNA2
MYC
AURKA
Proliferation

B

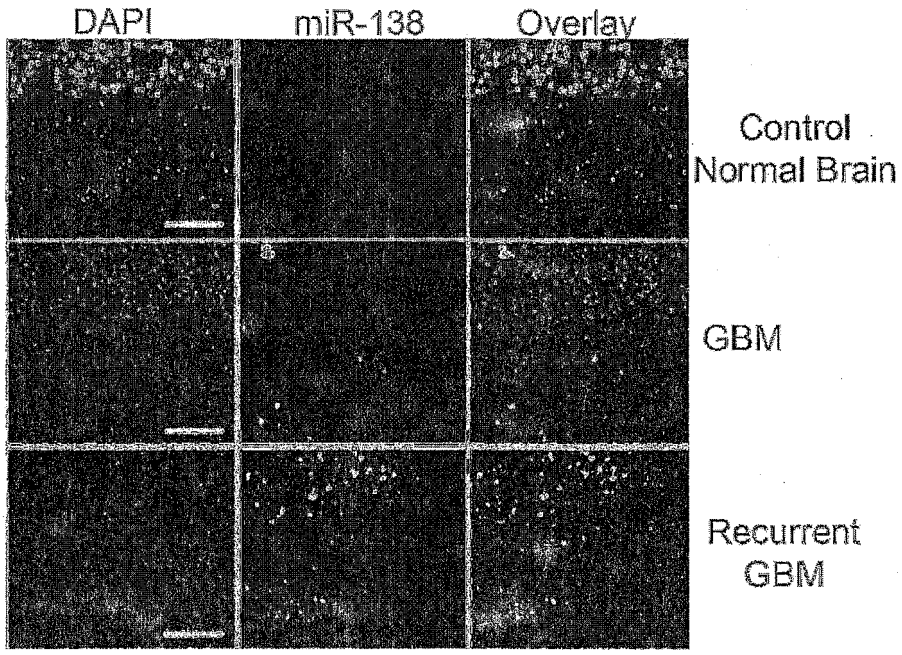
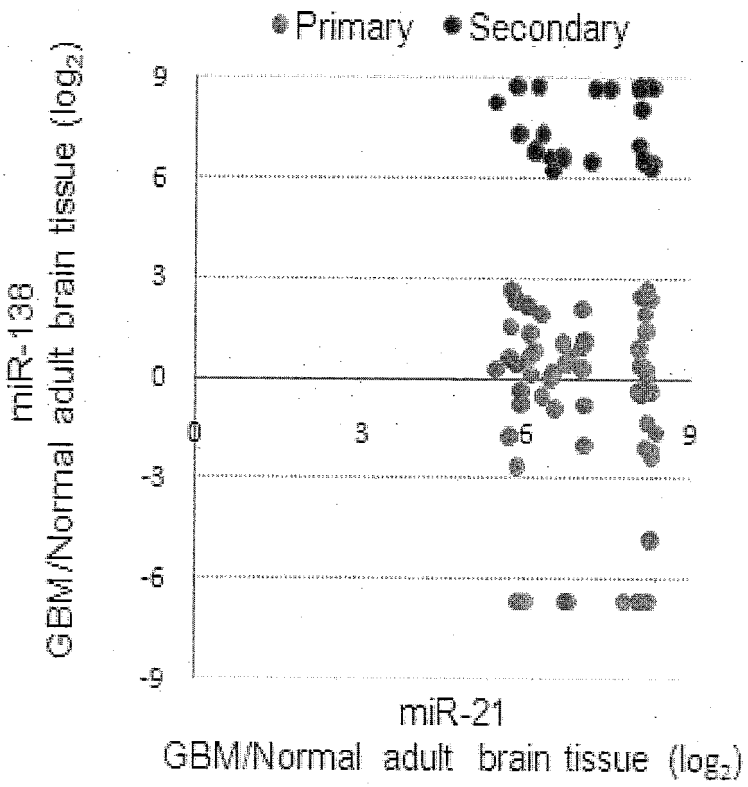

DAPI
miR-138
Overlay
Control Normal Brain
GBM
Recurrent GBM

Fig. 8 (Cont'd)

C.


Primary
Secondary
miR-138
GBM/Normal adult brain tissue (log2)
9
6
3
0
-3
-6
-9
0
3
6
9
miR-21
GBM/Normal adult brain tissue (log2)