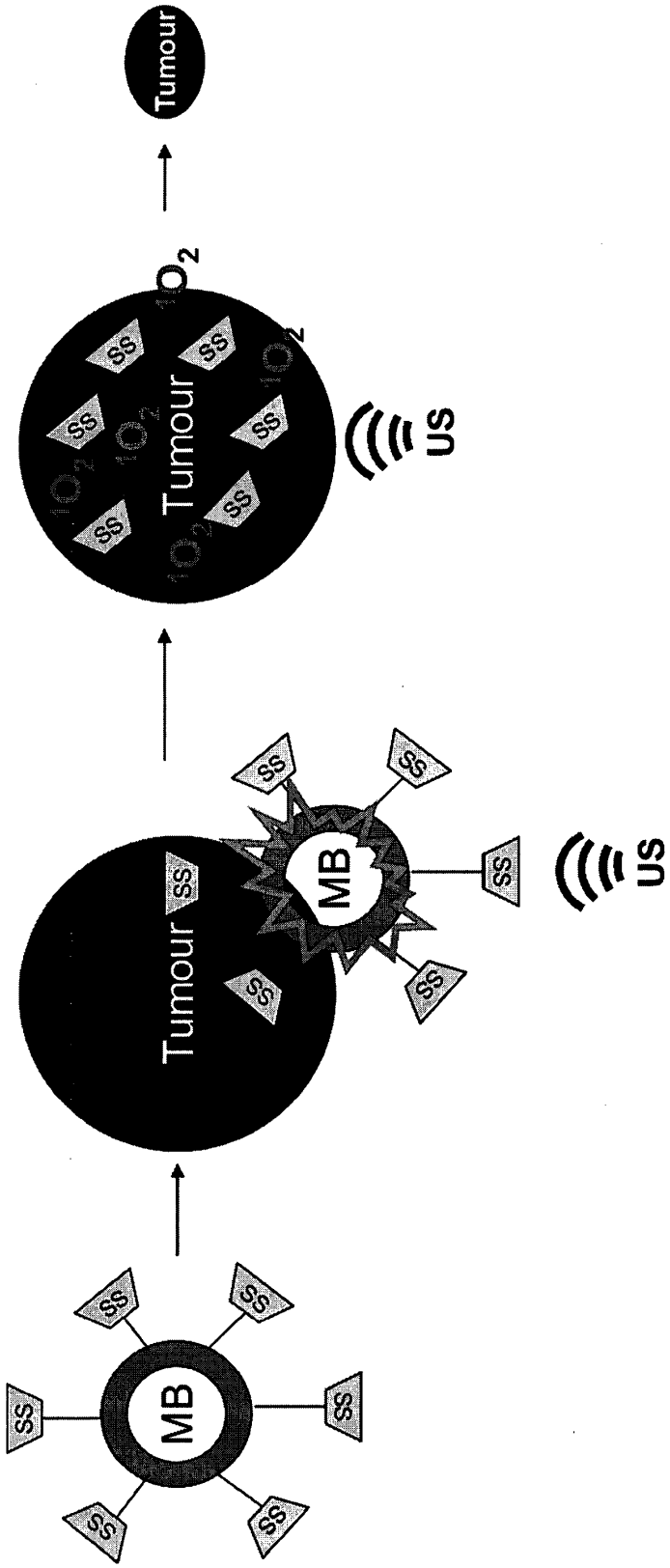


Figure 1

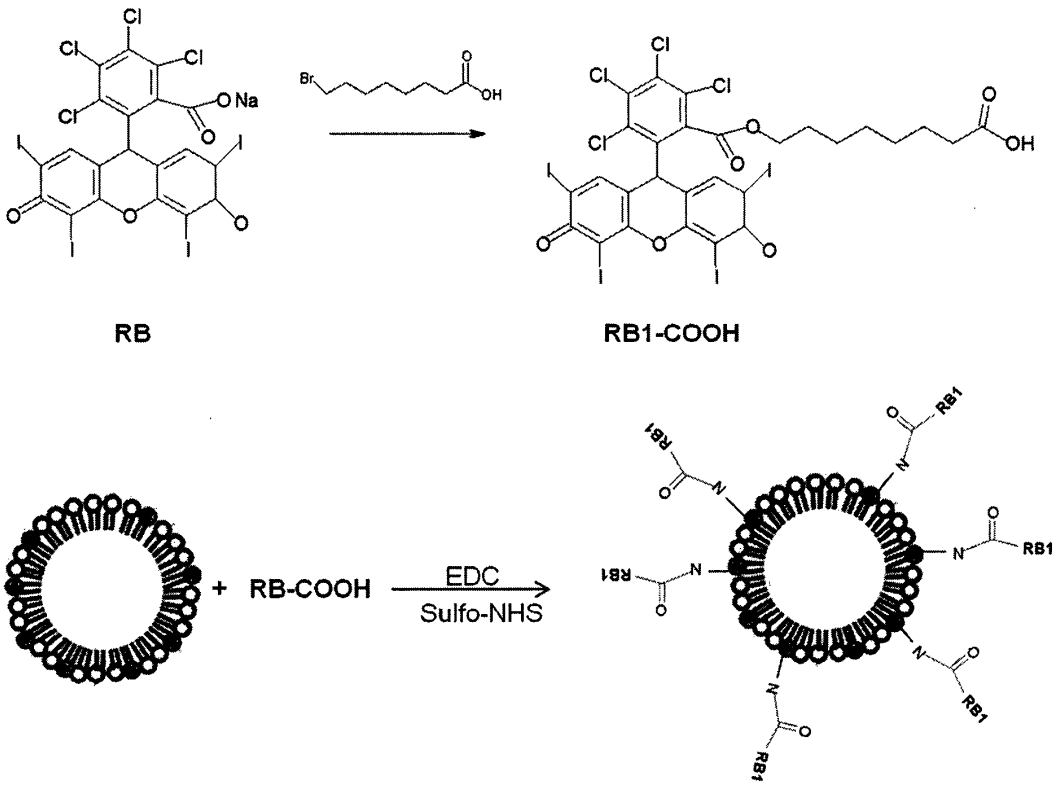


Figure 2

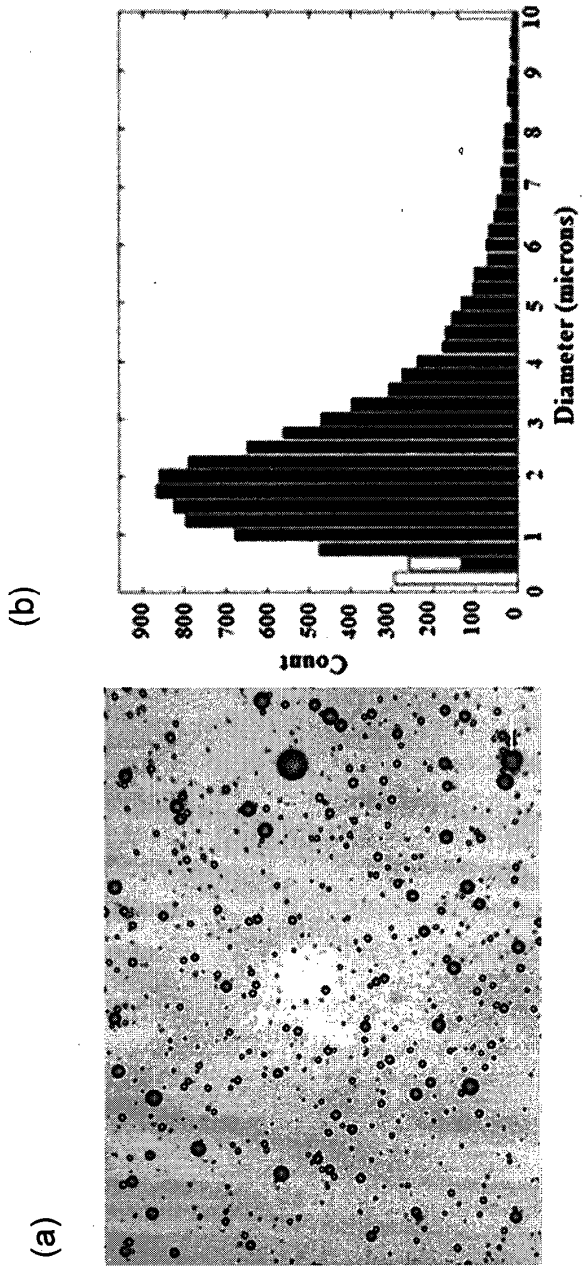

(b)
Count
900
800
700
600
500
400
300
200
100
0
Diameter (microns)
0
1
2
3
4
5
6
7
8
9
10
(a)

Figure 3

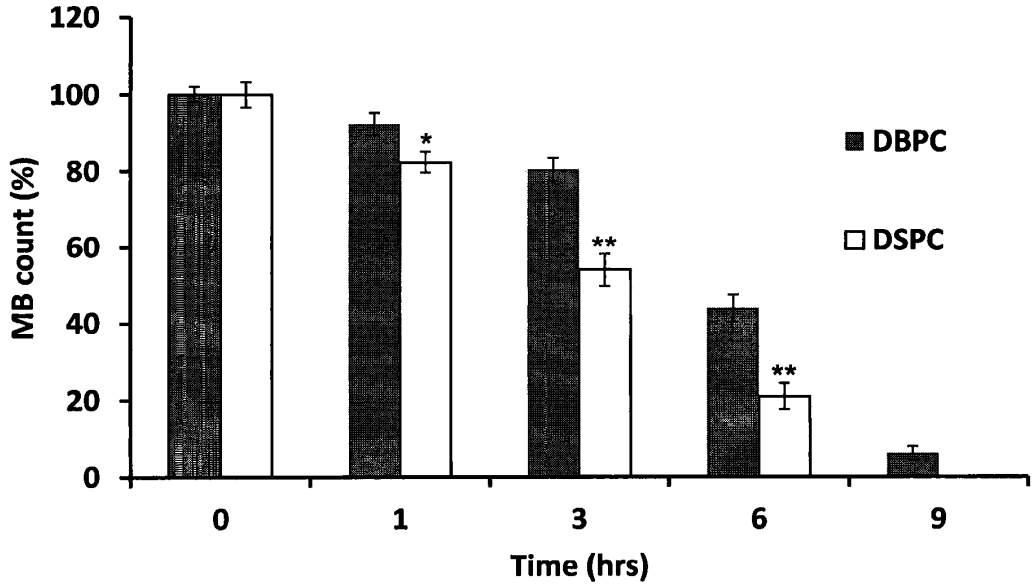


Figure 4

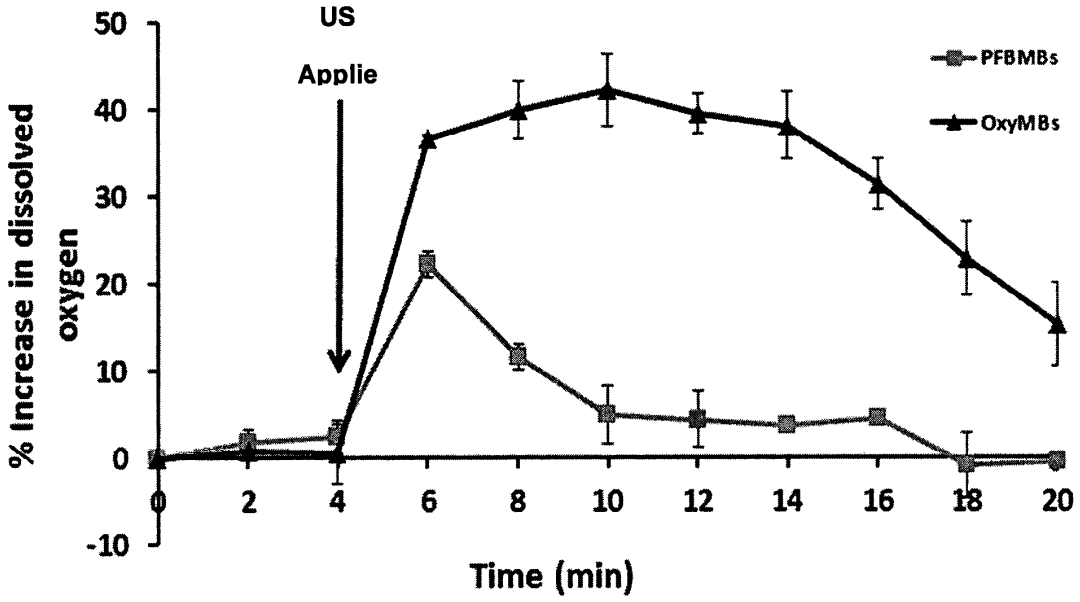
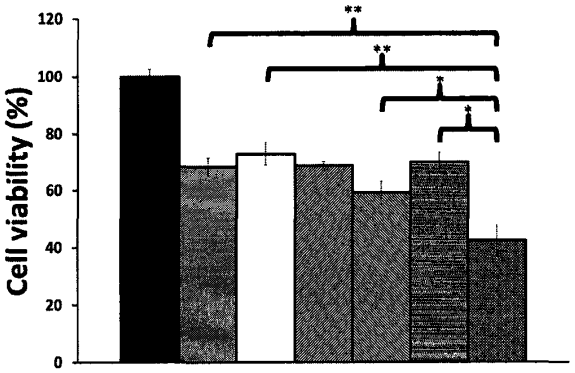
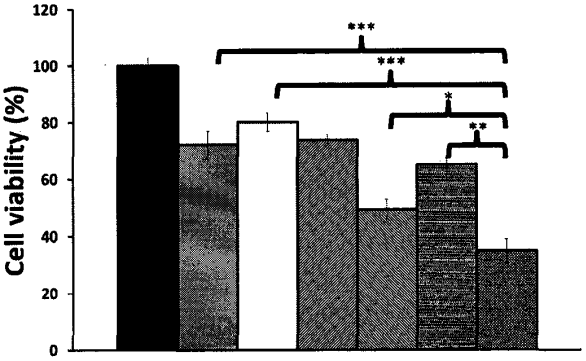


Figure 5

(a)


Cell viability (%)
120
100
80
60
40
20
0
**
**
*
*

(b)


Cell viability (%)
120
100
80
60
40
20
0
***
***
*
**

(c)

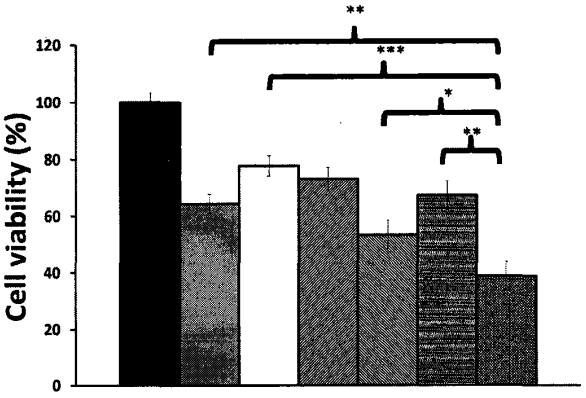

Cell viability (%)
120
100
80
60
40
20
0
**
***
*
**

Figure 6

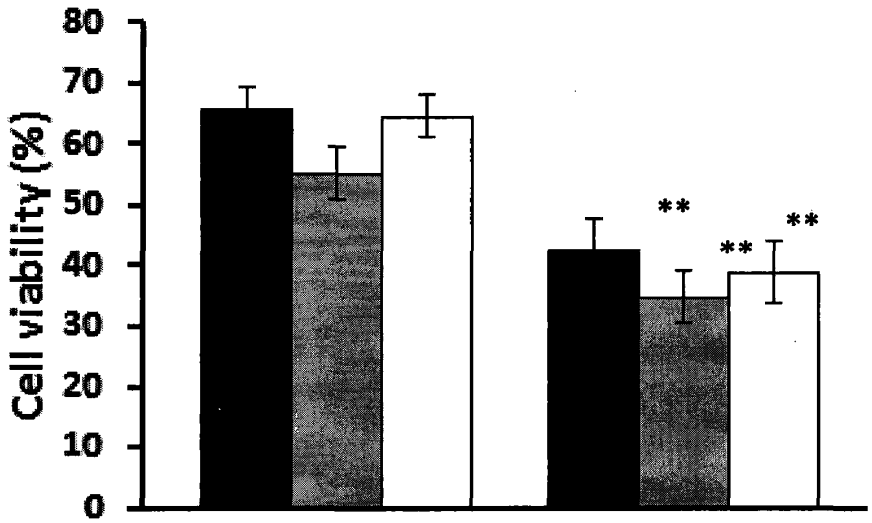


Figure 7

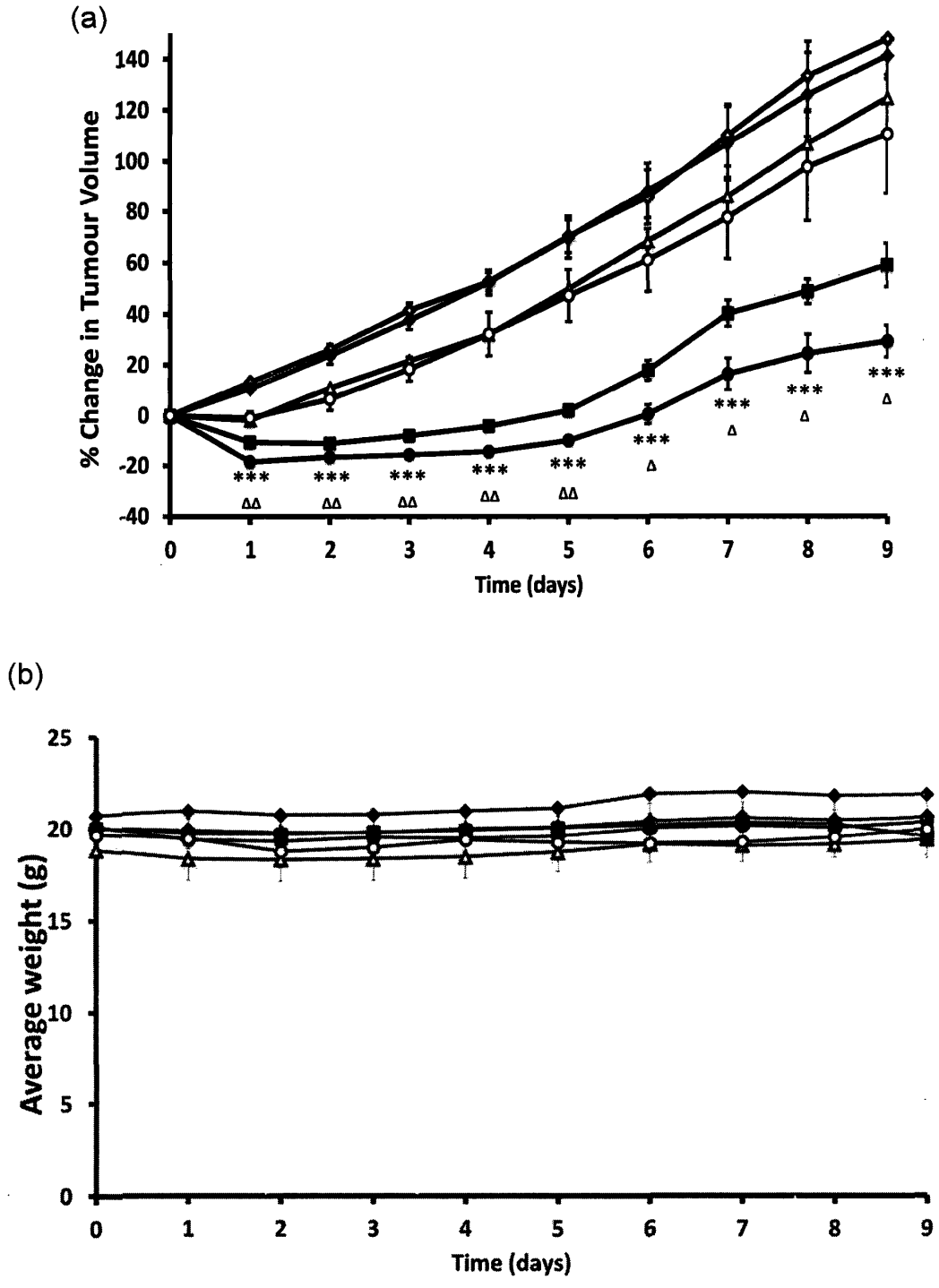

(a)
% Change in Tumour Volume
140
120
100
80
60
40
20
0
-20
-40
0
1
2
3
4
5
6
7
8
9
Time (days)
***
ΔΔ
***
Δ
(b)
Average weight (g)
25
20
15
10
5
0
0
1
2
3
4
5
6
7
8
9
Time (days)

Figure 8

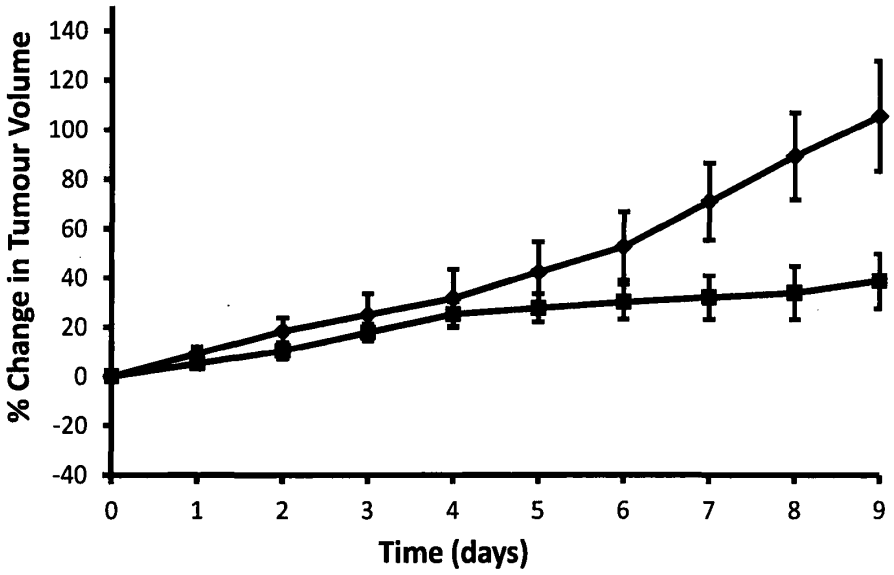

% Change in Tumour Volume
140
120
100
80
60
40
20
0
-20
-40
0
1
2
3
4
5
6
7
8
9
Time (days)

Figure 9

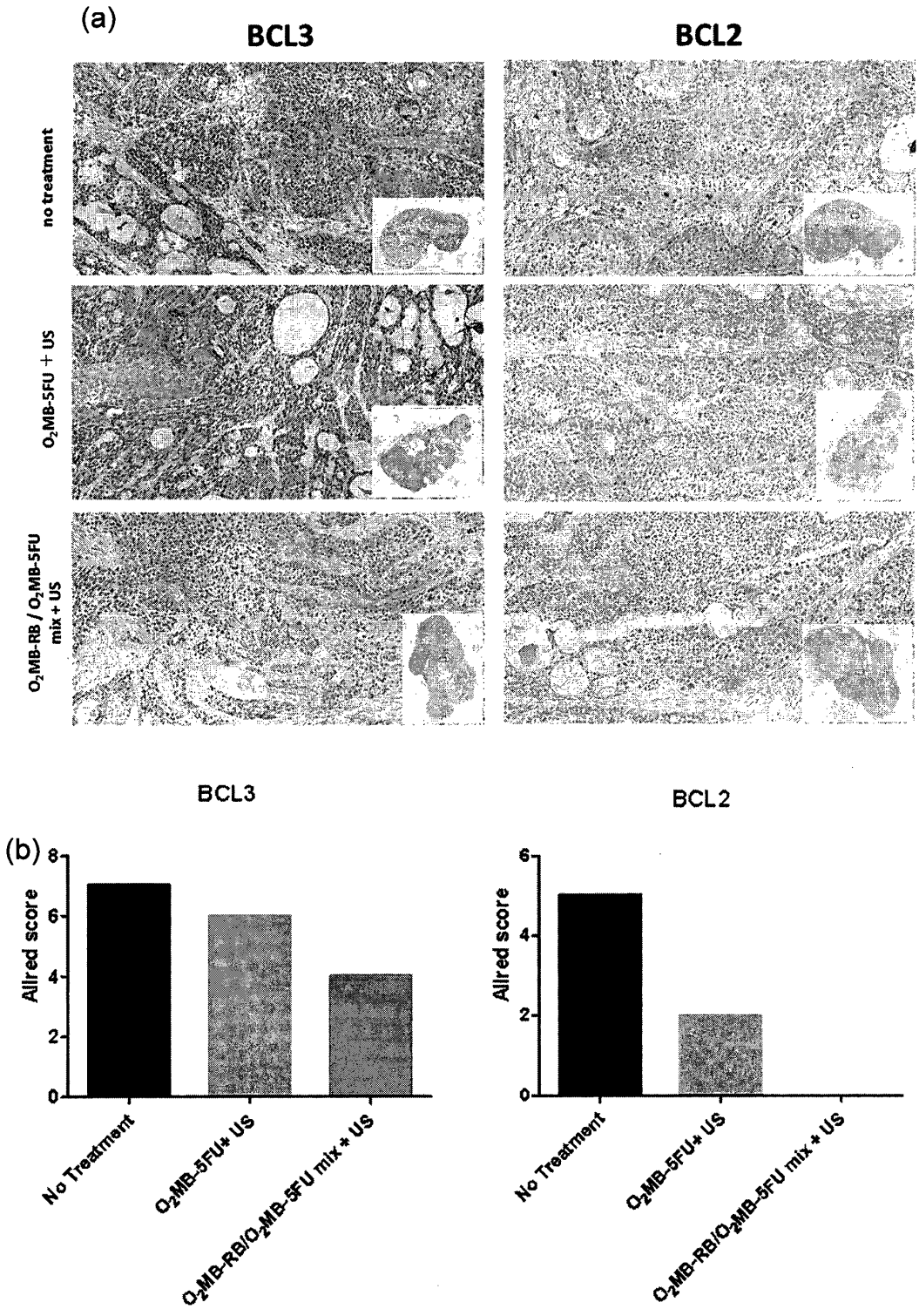
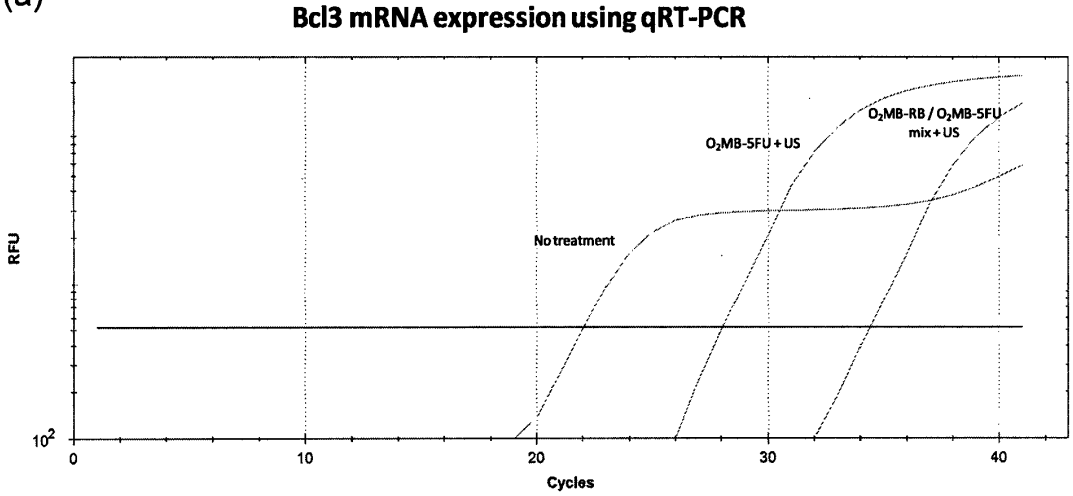

(a)
BCL3
BCL2
no treatment
O2MB-5FU + US
O2MB-RB / O2MB-5FU mix + US
BCL3
BCL2
(b)
Allred score
0
2
4
6
8
No Treatment
O2MB-5FU* US
O2MB-RB/O2MB-5FU mix * US
Allred score
0
2
4
6
No Treatment
O2MB-5FU* US
O2MB-RB/O2MB-5FU mix * US

Figure 10

(a)


Bcl3 mRNA expression using qRT-PCR
RFU
10^2
0
10
20
30
40
Cycles
No treatment
O_2MB-5FU + US
O_2MB-RB / O_2MB-5FU mix + US

(b)

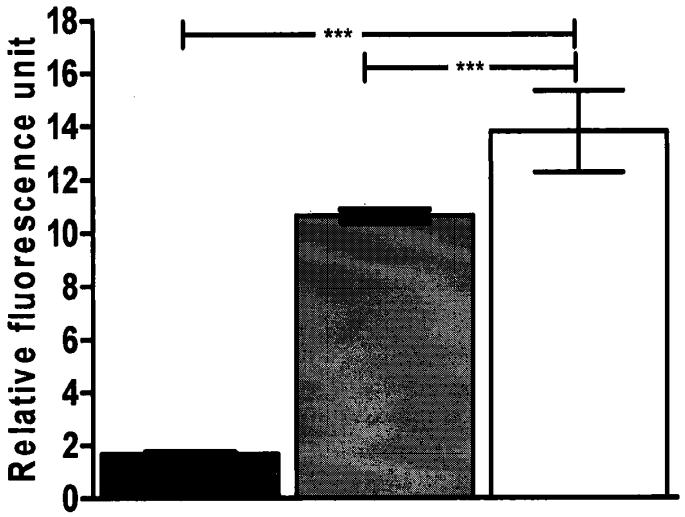

Relative fluorescence unit
18
16
14
12
10
8
6
4
2
0
***
***

Figure 11

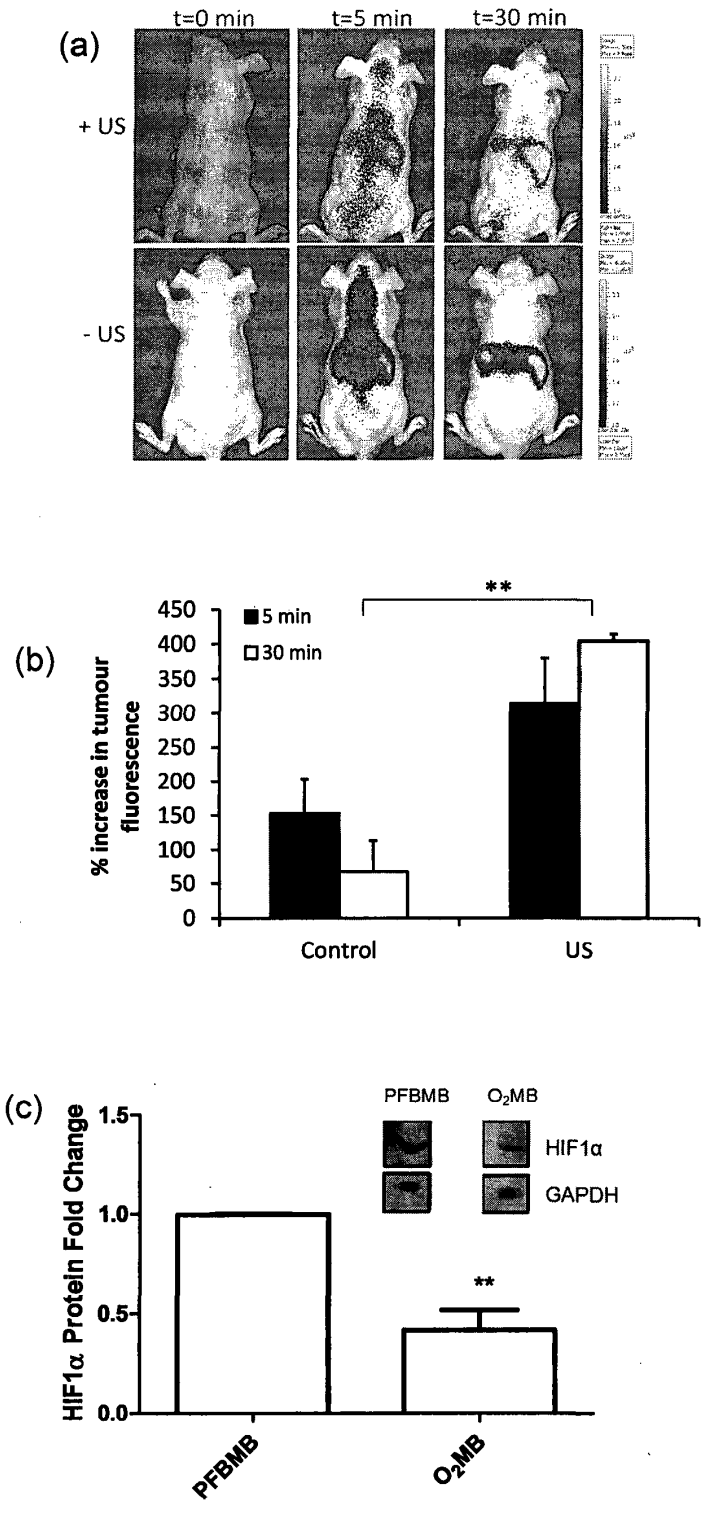

(a)
t=0 min
t=5 min
t=30 min
+ US
- US
(b)
**
5 min
30 min
% increase in tumour fluorescence
450
400
350
300
250
200
150
100
50
0
Control
US
(c)
PFBMB
O2MB
HIF1α
GAPDH
HIF1α Protein Fold Change
1.5
1.0
0.5
0.0
**
PFBMB
O2MB

Figure 12

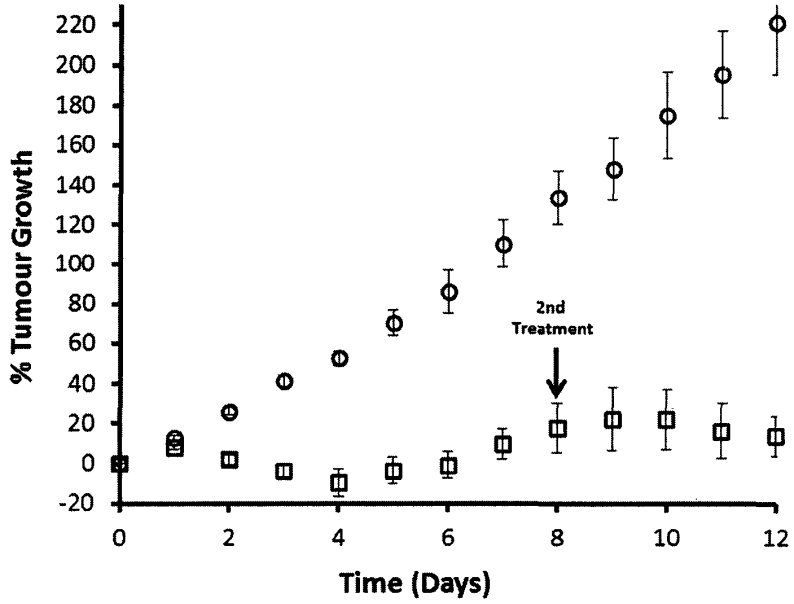


Figure 13

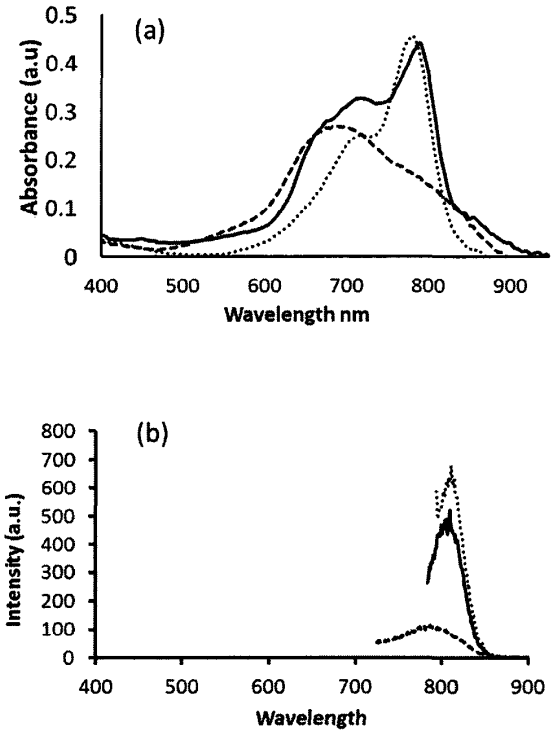


Figure 14

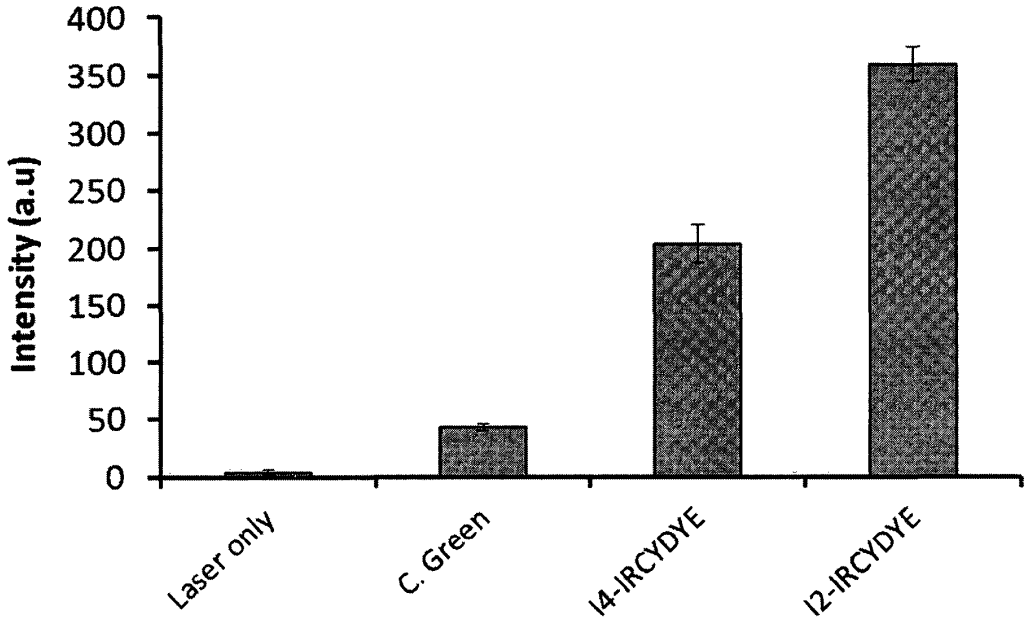

400
350
300
250
200
150
100
50
0
Intensity (a.u)
Laser only
C. Green
I4-IRCYDYE
I2-IRCYDYE

Figure 15

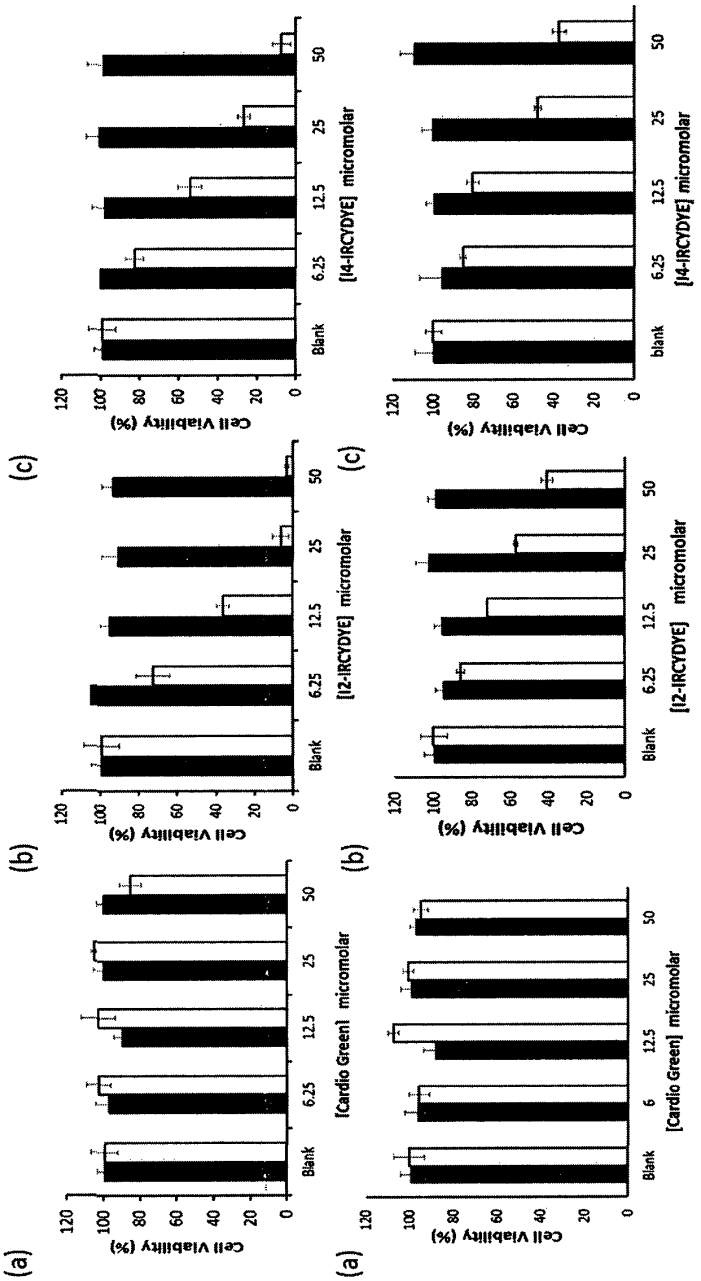

(a)
(b)
(c)
Cell Viability (%)
120
100
80
60
40
20
0
Blank
6.25
12.5
25
50
[Cardio Green] micromolar
[12-IRCYDYE] micromolar
[14-IRCYDYE] micromolar

Figure 16

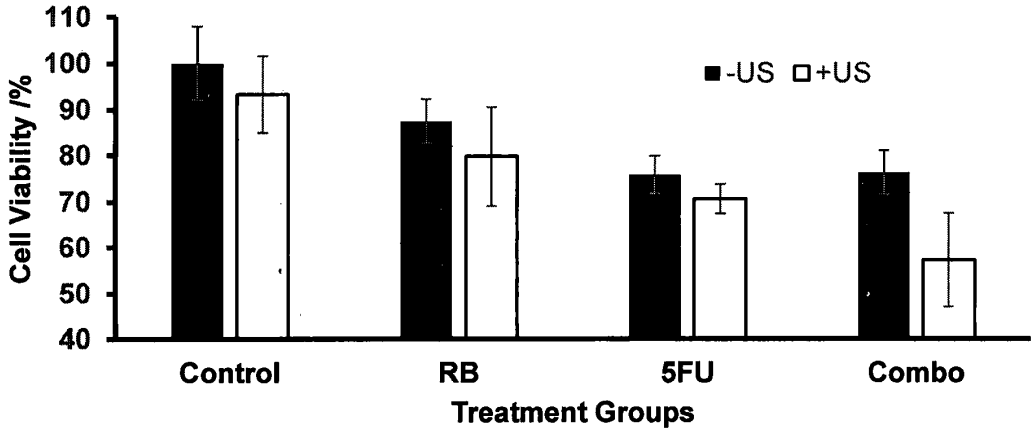


Figure 17

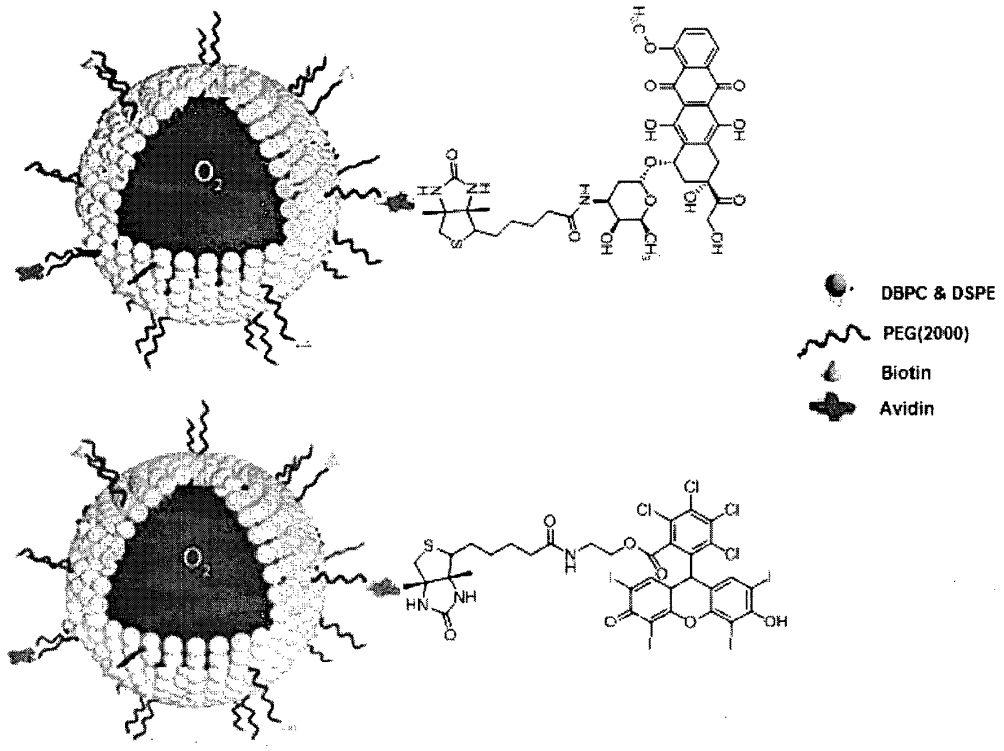


Figure 18

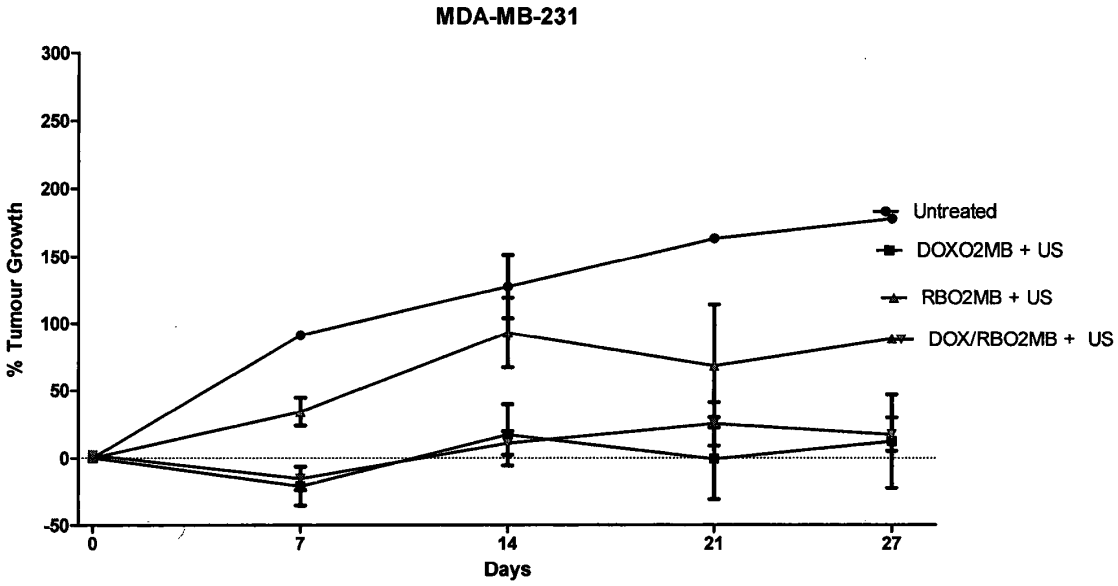

MDA-MB-231
% Tumour Growth
300
250
200
150
100
50
0
-50
0
7
14
21
27
Days
Untreated
DOXO2MB + US
RBO2MB + US
DOX/RBO2MB + US

Figure 19