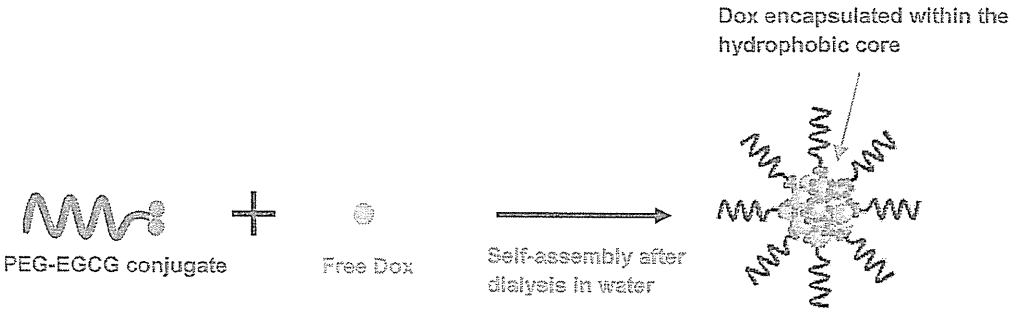

Dox encapsulated within the hydrophobic core
PEG-EGCG conjugate
Free Dox
Self-assembly after dialysis in water

FIGURE 1

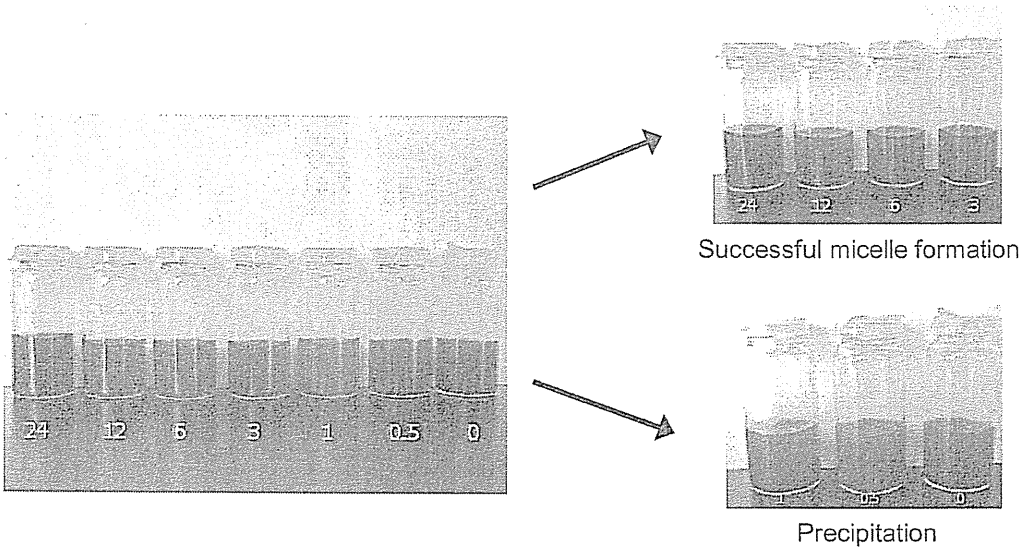
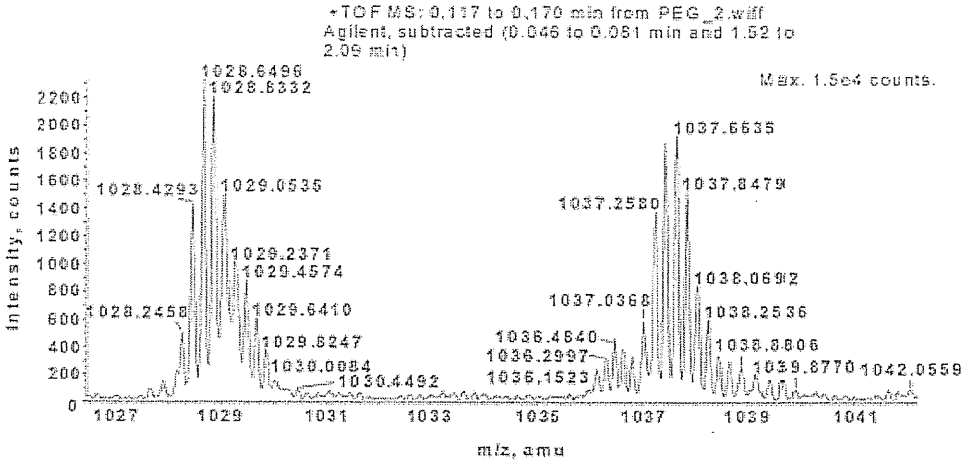

24
12
6
3
1
0.5
0
24
12
6
3
Successful micelle formation
1
0.5
0
Precipitation

FIGURE 2

(a)


+TOF MS: 0.117 to 0.170 min from PEG_2.wiff
Agilent, subtracted (0.046 to 0.051 min and 1.52 to
2.09 min)
Max. 1.5e4 counts.
Intensity, counts
m/z, amu
1028.6496
1028.6332
1028.4293
1029.0535
1029.2371
1029.4574
1028.2458
1029.6410
1029.8247
1030.0084
1030.4492
1037.6635
1037.8479
1037.2580
1038.0692
1037.0368
1038.2536
1036.4640
1038.8806
1036.2997
1039.8770
1036.1523
1042.0559

(b)

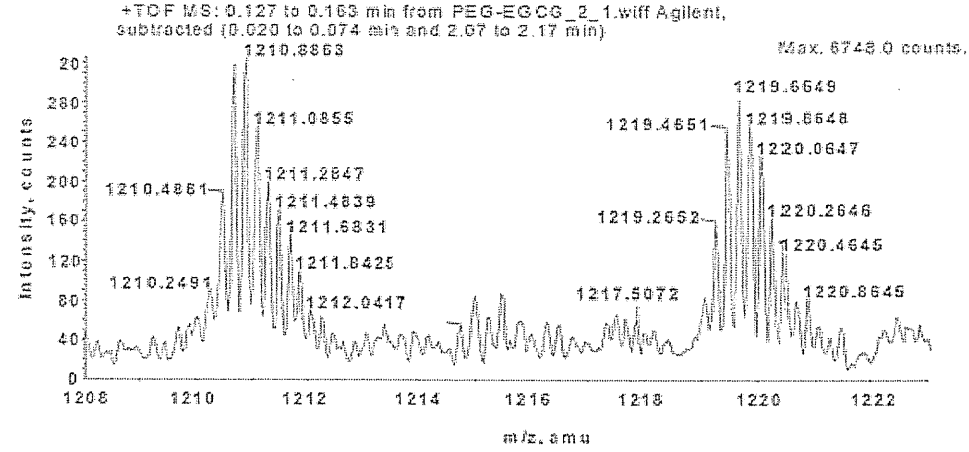

+TOF MS: 0.127 to 0.163 min from PEG-EGCG_2_1.wiff Agilent,
subtracted (0.020 to 0.074 min and 2.07 to 2.17 min)
Max. 6748.0 counts.
Intensity, counts
m/z, amu
1210.8863
1211.0855
1211.2847
1210.4861
1211.4839
1211.6831
1211.8825
1210.2491
1212.0417
1219.6649
1219.6548
1219.4651
1220.0647
1220.2646
1219.2652
1220.4645
1217.5072
1220.8645

FIGURE 3

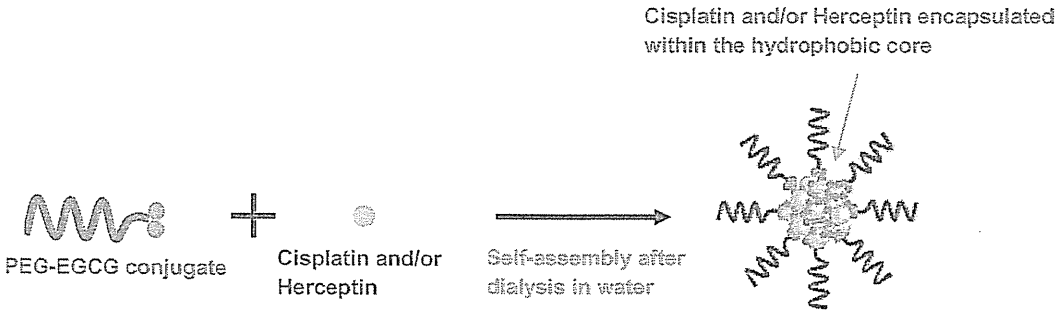

Cisplatin and/or Herceptin encapsulated within the hydrophobic core
PEG-EGCG conjugate
Cisplatin and/or Herceptin
Self-assembly after dialysis in water

FIGURE 4

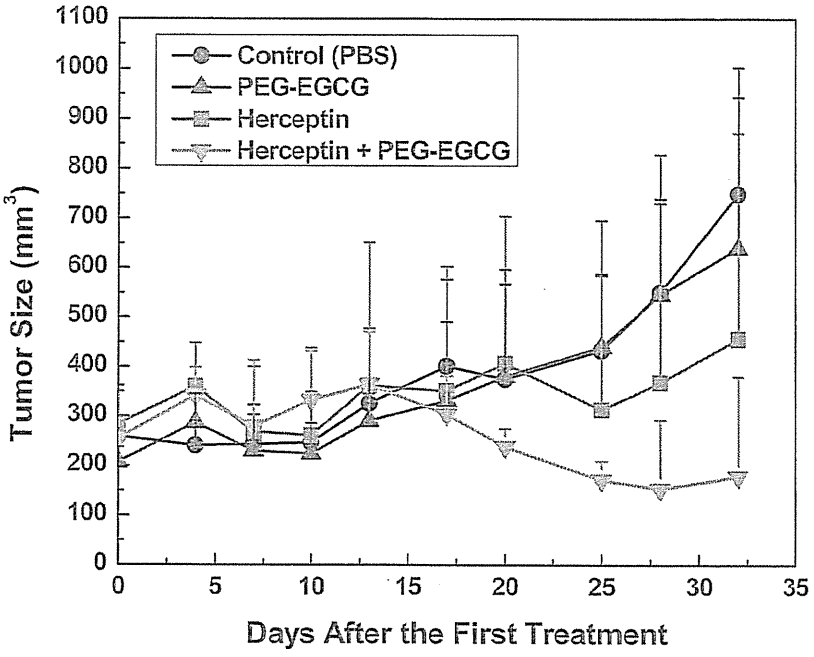

Control (PBS)
PEG-EGCG
Herceptin
Herceptin + PEG-EGCG
Tumor Size (mm3)
Days After the First Treatment
0
100
200
300
400
500
600
700
800
900
1000
1100
0
5
10
15
20
25
30
35

FIGURE 5

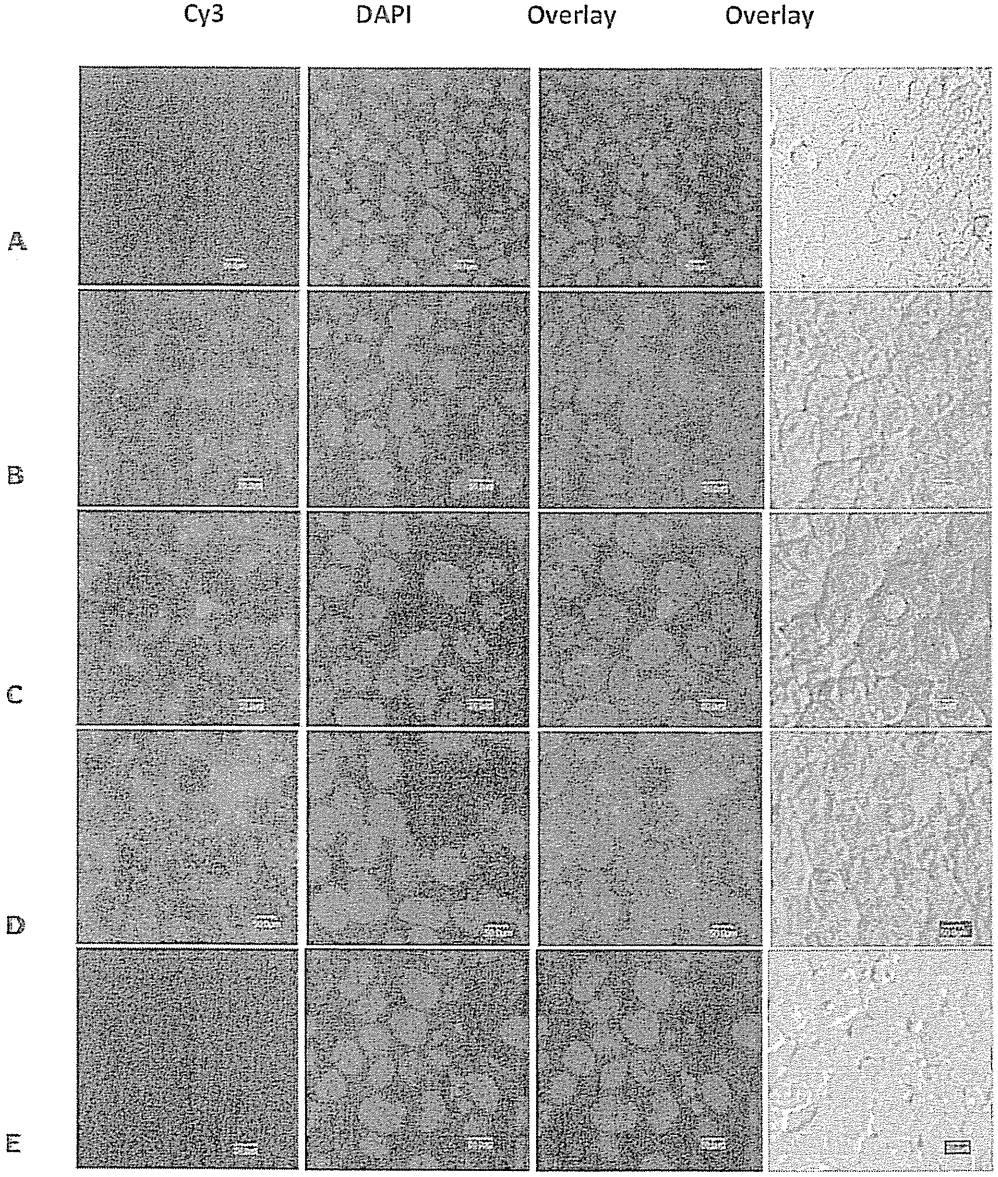



FIGURE 6

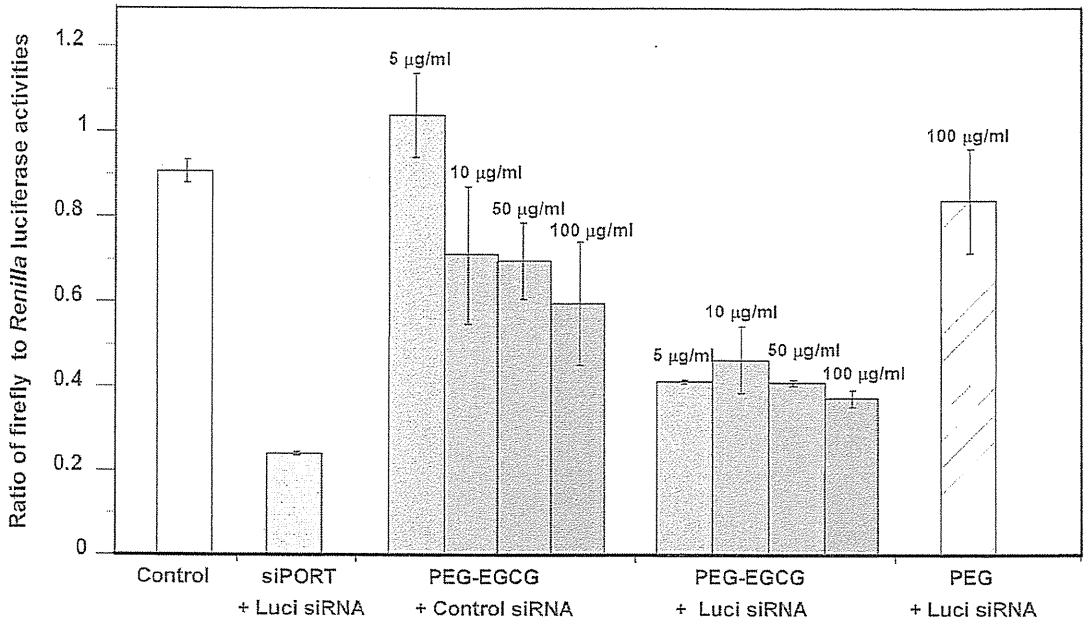

Ratio of firefly to Renilla luciferase activities
1.2
1
0.8
0.6
0.4
0.2
0
5 µg/ml
10 µg/ml
50 µg/ml
100 µg/ml
5 µg/ml
10 µg/ml
50 µg/ml
100 µg/ml
100 µg/ml
Control
siPORT
+ Luci siRNA
PEG-EGCG
+ Control siRNA
PEG-EGCG
+ Luci siRNA
PEG
+ Luci siRNA

FIGURE 7

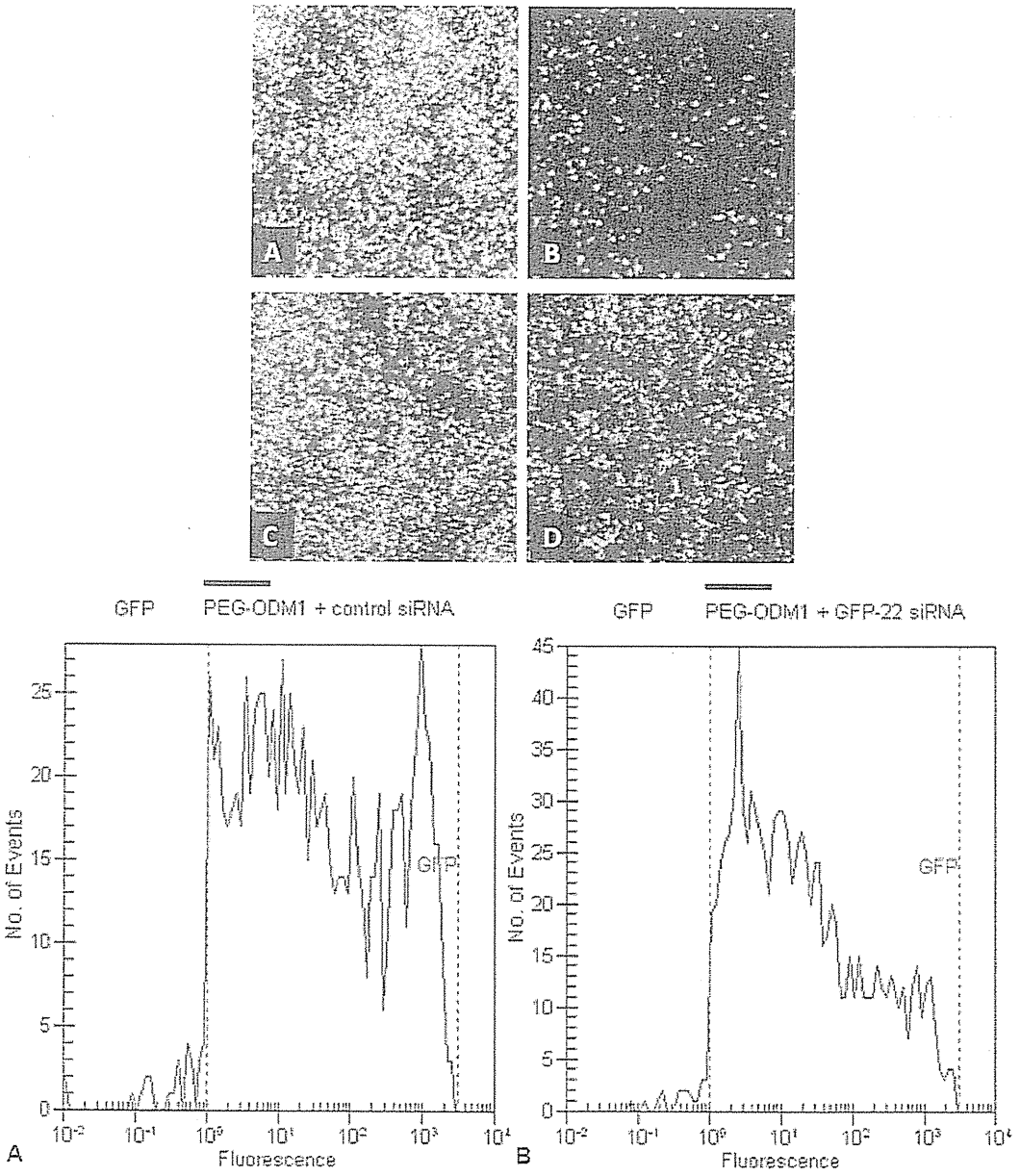

A
B
C
D
GFP
PEG-ODM1 + control siRNA
GFP
PEG-ODM1 + GFP-22 siRNA
No. of Events
Fluorescence
GFP
A
B

FIGURE 8