Figure 1

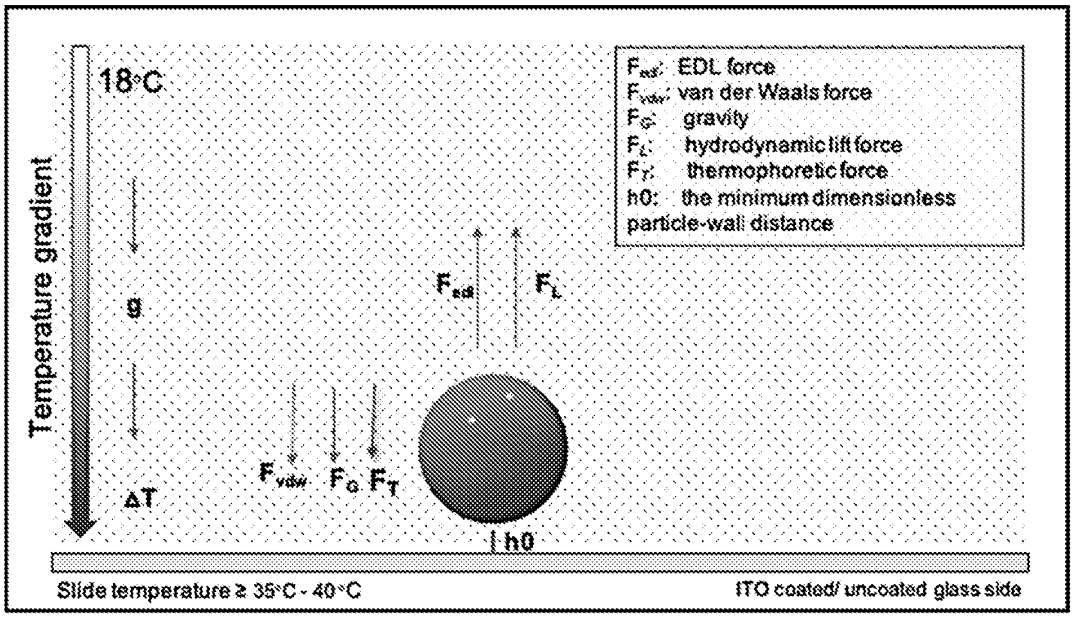

18°C
Temperature gradient
g
ΔT
F_{edl}: EDL force
F_{vdw}: van der Waals force
F_G: gravity
F_L: hydrodynamic lift force
F_T: thermophoretic force
h0: the minimum dimensionless particle-wall distance
F_{edl}
F_L
F_{vdw}
F_G
F_T
h0
Slide temperature ≥ 35°C - 40°C
ITO coated/ uncoated glass side

Figure 2

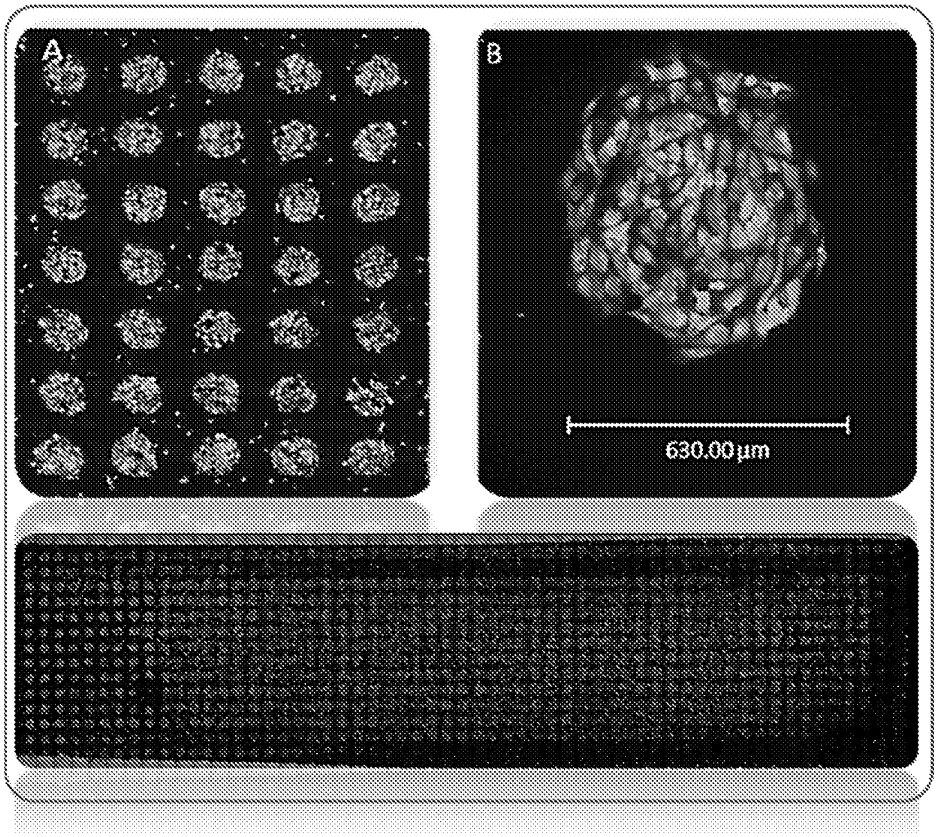


Figure 3

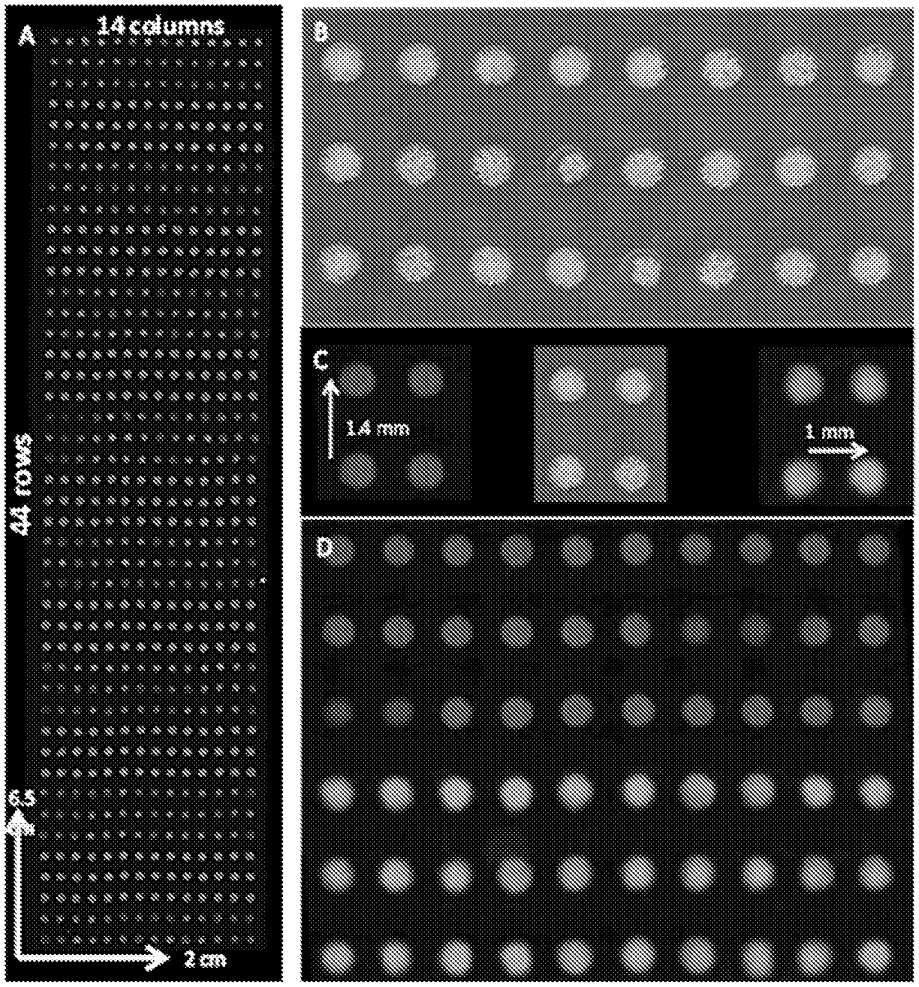


Figure 4

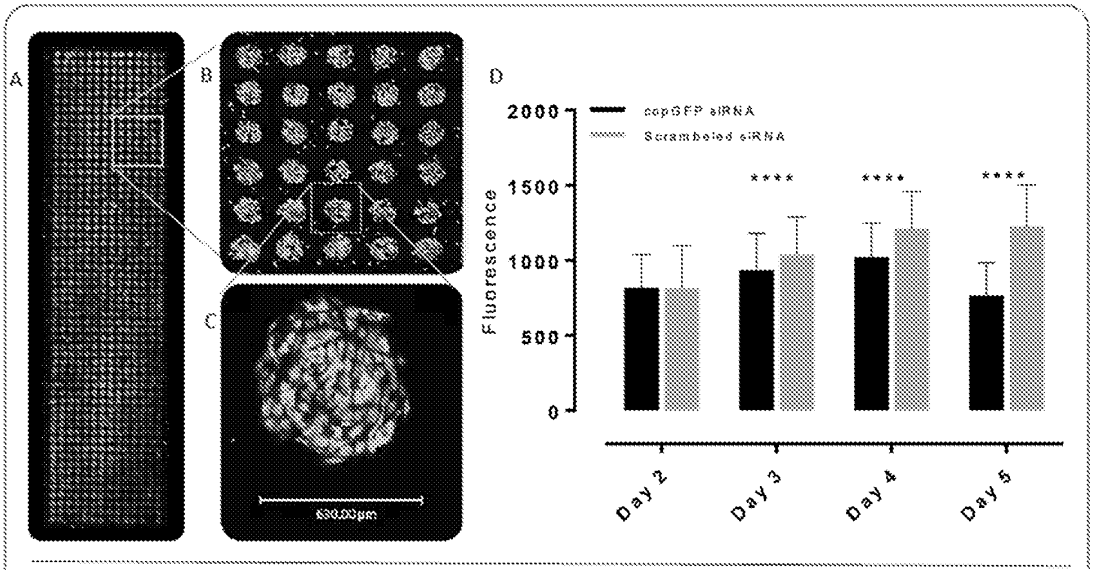

A
B
C
D
copGFP siRNA
Scrambled siRNA
Fluorescence
2000
1500
1000
500
0
****
****
****
Day 2
Day 3
Day 4
Day 5

Figure 5

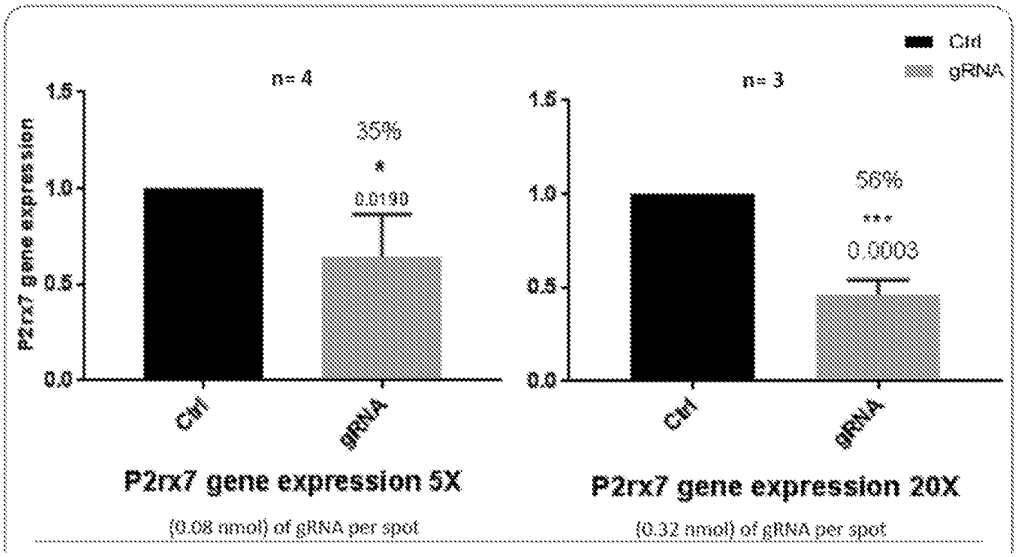

Ctrl
gRNA
n= 4
35%
*
0.0190
P2rx7 gene expression
1.5
1.0
0.5
0.0
Ctrl
gRNA
P2rx7 gene expression 5X
(0.08 nmol) of gRNA per spot
n= 3
56%
***
0.0003
P2rx7 gene expression 20X
(0.32 nmol) of gRNA per spot

Figure 6

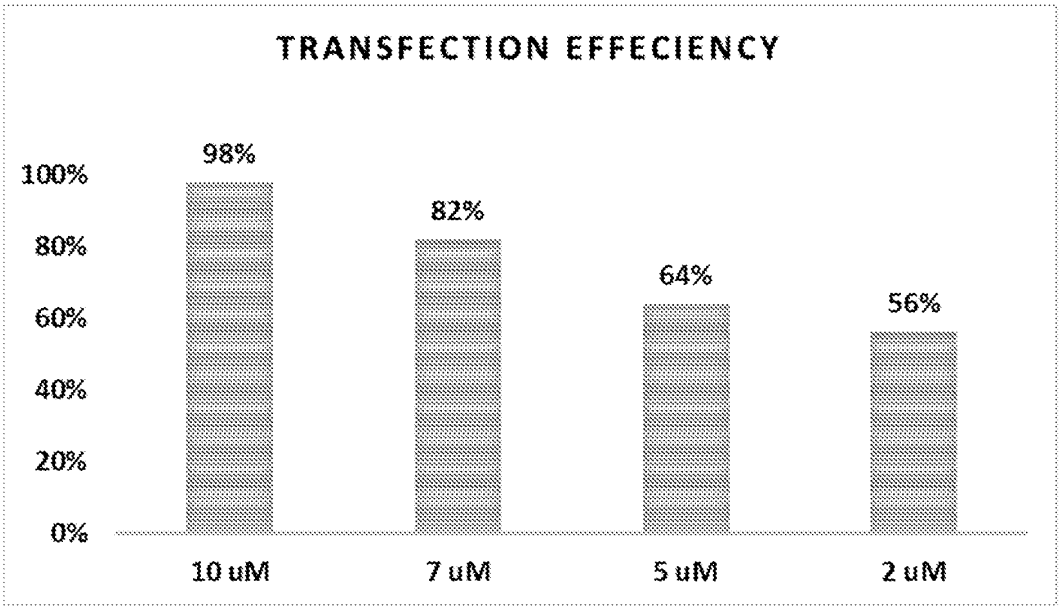

TRANSFECTION EFFECIENCY
100%
80%
60%
40%
20%
0%
98%
82%
64%
56%
10 uM
7 uM
5 uM
2 uM
gRNA Concentration

Figure 7

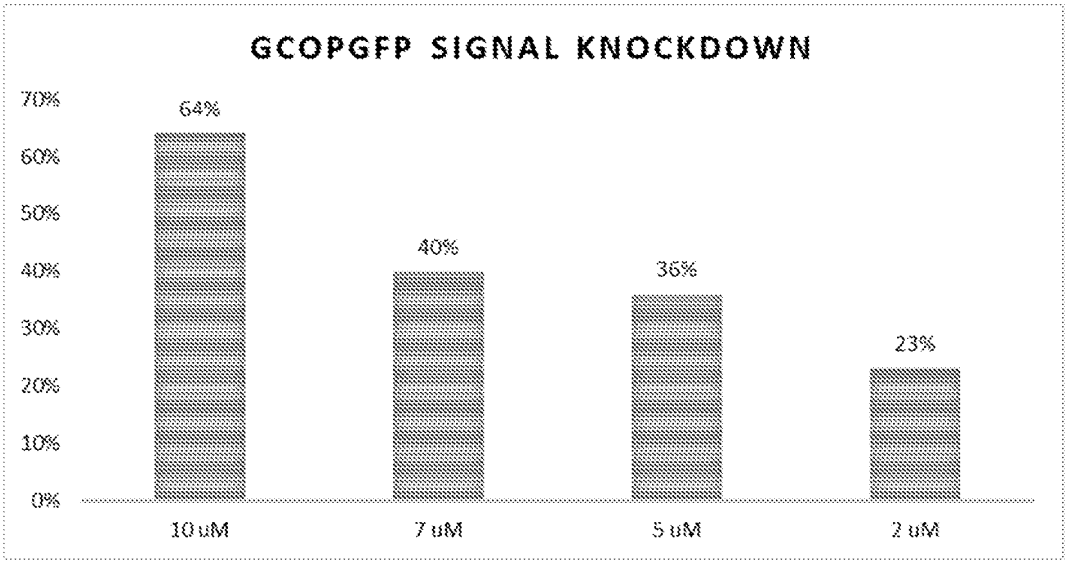

GCOPGFP SIGNAL KNOCKDOWN
70%
60%
50%
40%
30%
20%
10%
0%
64%
40%
36%
23%
10 uM
7 uM
5 uM
2 uM
gRNA Concentration

Figure 8

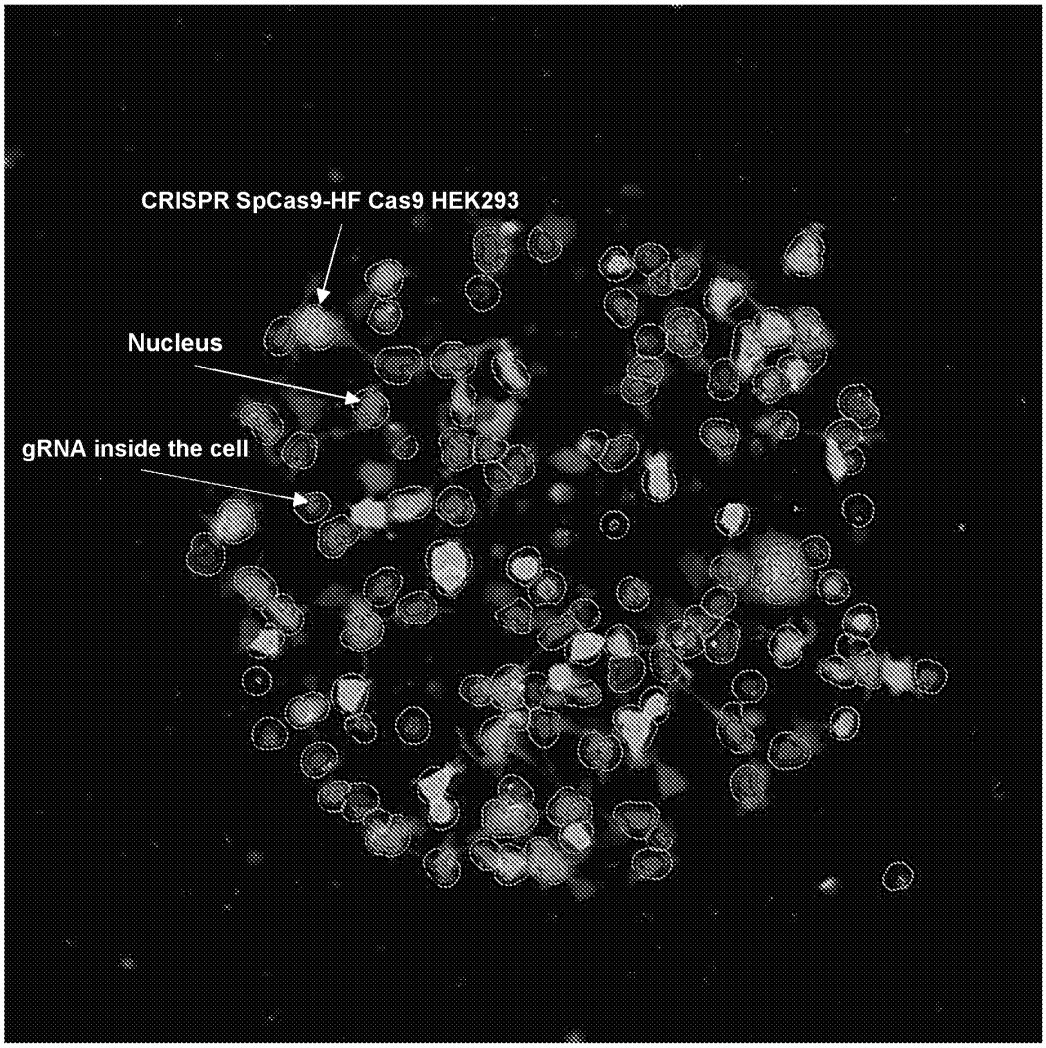
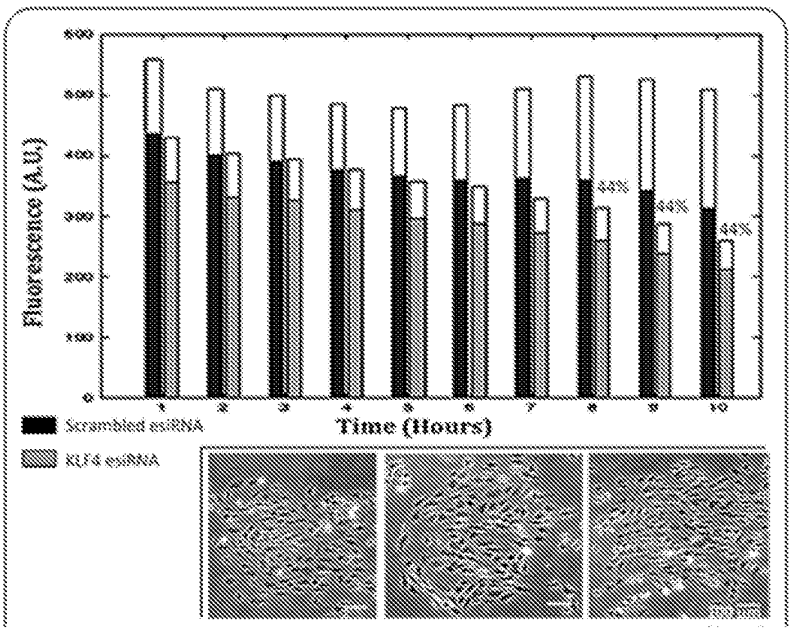


Figure 9


Fluorescence (A.U.)
Time (Hours)
Scrambled esiRNA
KLF4 esiRNA
68%
44%
4%