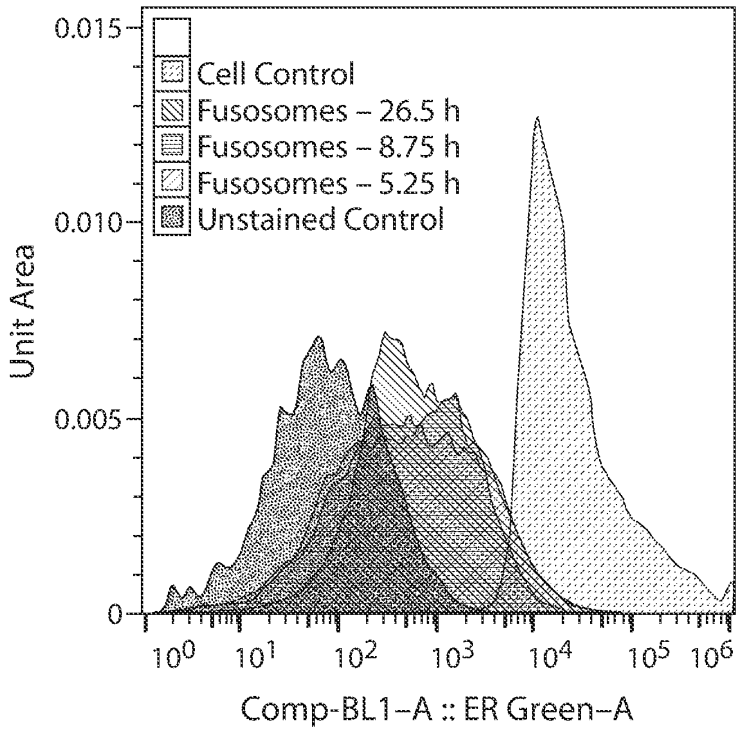

0.015
0.010
0.005
0
Unit Area
Cell Control
Fusosomes – 26.5 h
Fusosomes – 8.75 h
Fusosomes – 5.25 h
Unstained Control
10^0
10^1
10^2
10^3
10^4
10^5
10^6
Comp-BL1–A :: ER Green–A

Figure 1

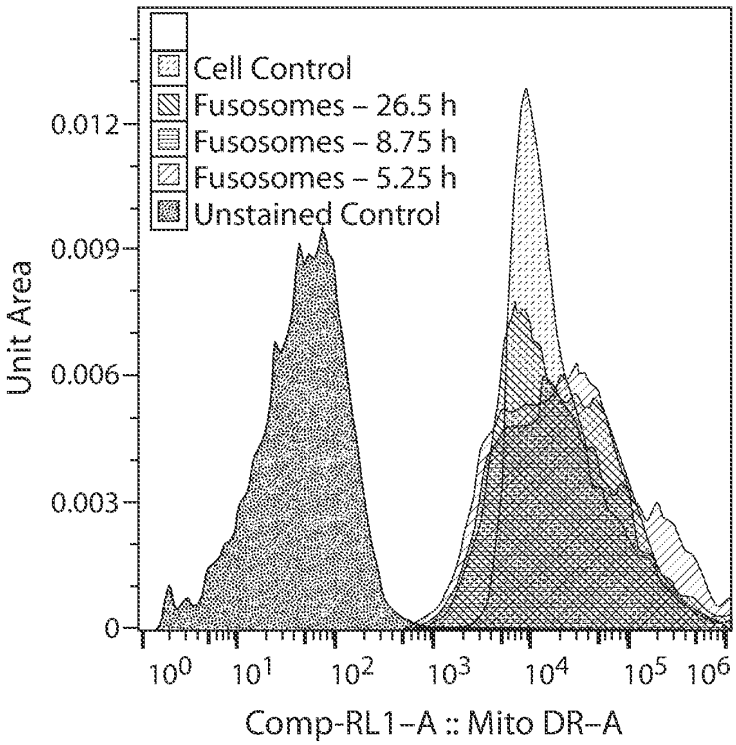

Cell Control
Fusosomes – 26.5 h
Fusosomes – 8.75 h
Fusosomes – 5.25 h
Unstained Control
Unit Area
0.012
0.009
0.006
0.003
0
10^0 10^1 10^2 10^3 10^4 10^5 10^6
Comp-RL1–A :: Mito DR–A

Figure 2

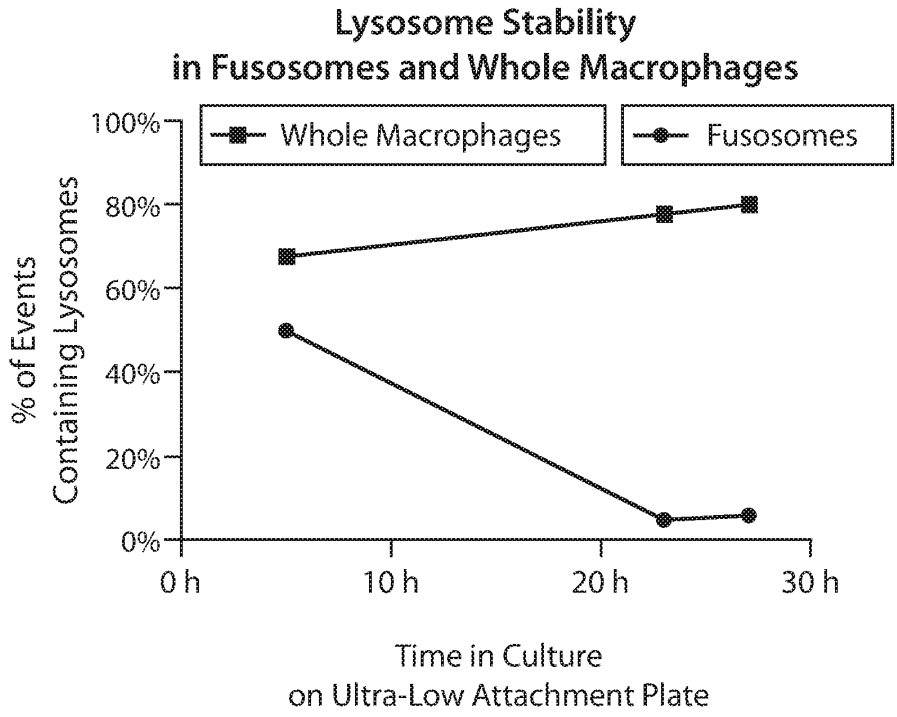

Lysosome Stability
in Fusosomes and Whole Macrophages
Whole Macrophages
Fusosomes
100%
80%
60%
40%
20%
0%
% of Events
Containing Lysosomes
0 h
10 h
20 h
30 h
Time in Culture
on Ultra-Low Attachment Plate

Figure 3

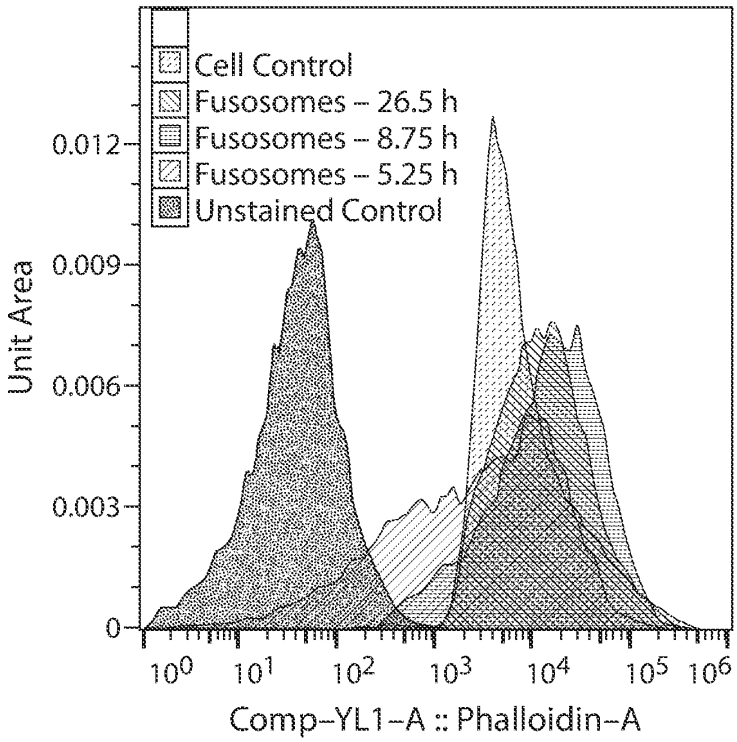

Cell Control
Fusosomes – 26.5 h
Fusosomes – 8.75 h
Fusosomes – 5.25 h
Unstained Control
Unit Area
0.012
0.009
0.006
0.003
0
10^0 10^1 10^2 10^3 10^4 10^5 10^6
Comp–YL1–A :: Phalloidin–A

Figure 4

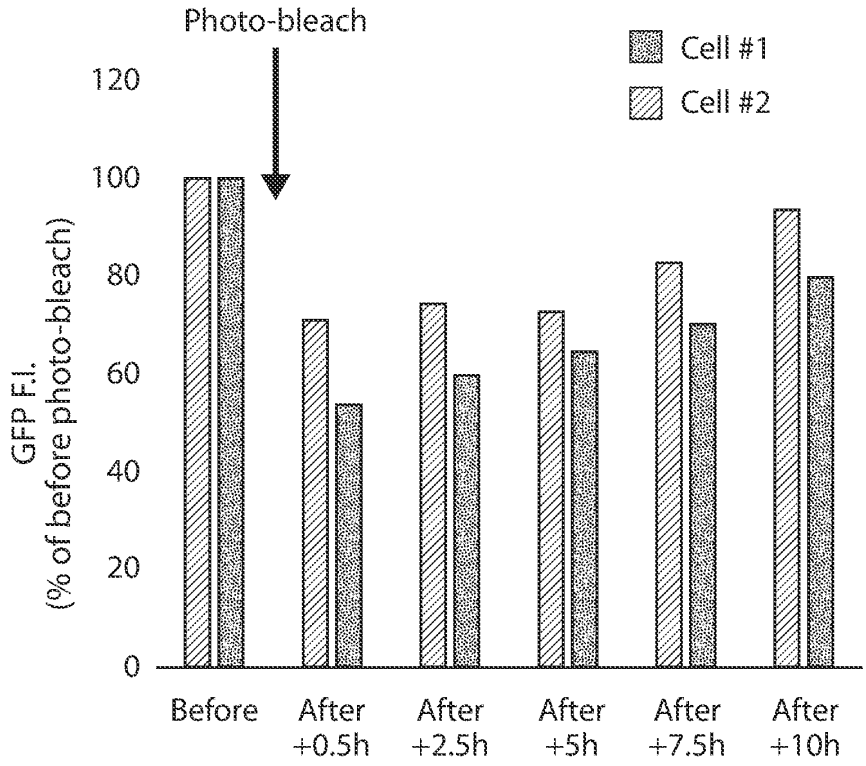
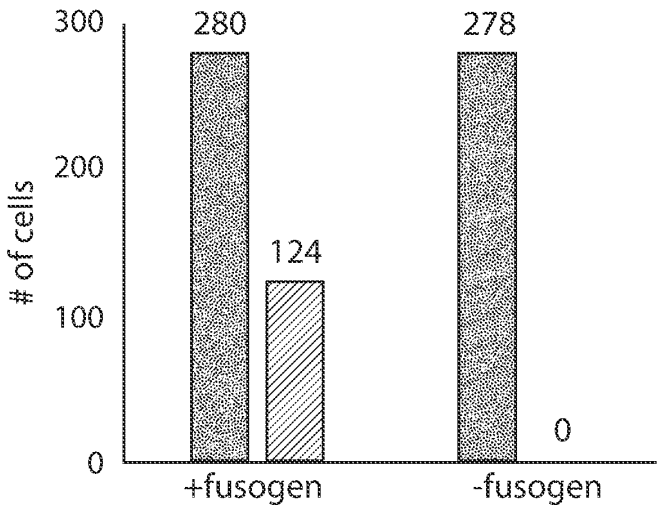

Photo-bleach
Cell #1
Cell #2
120
100
80
60
40
20
0
GFP F.I.
(% of before photo-bleach)
Before
After +0.5h
After +2.5h
After +5h
After +7.5h
After +10h

Figure 5



Fraction fusosome delivery: 0.44 0.00

Figure 6

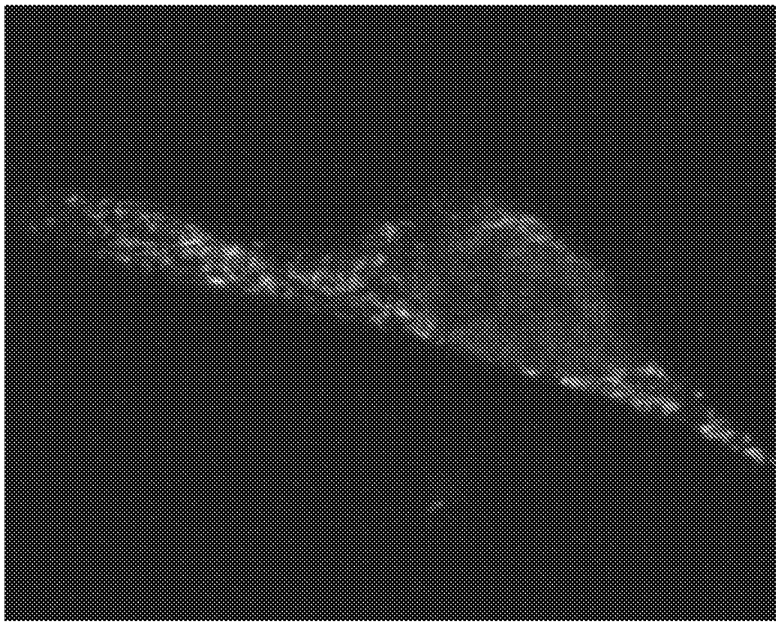


Figure 7

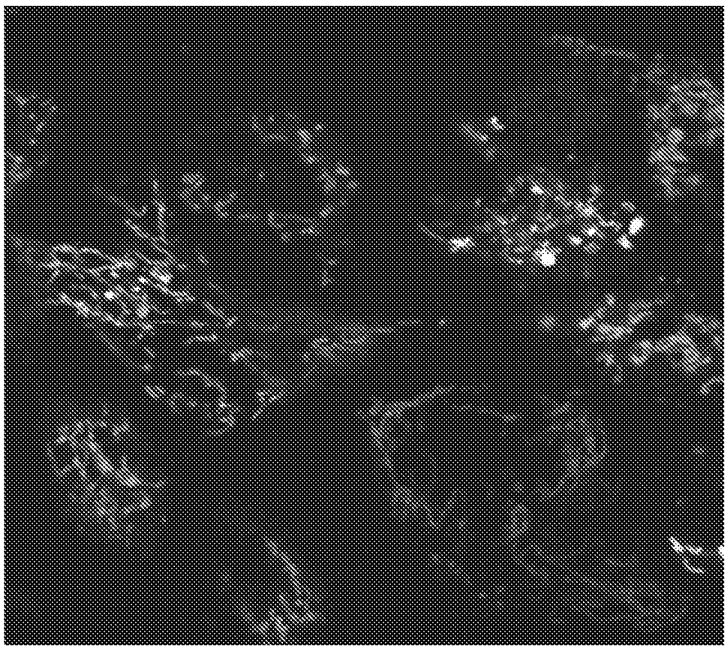


Figure 8

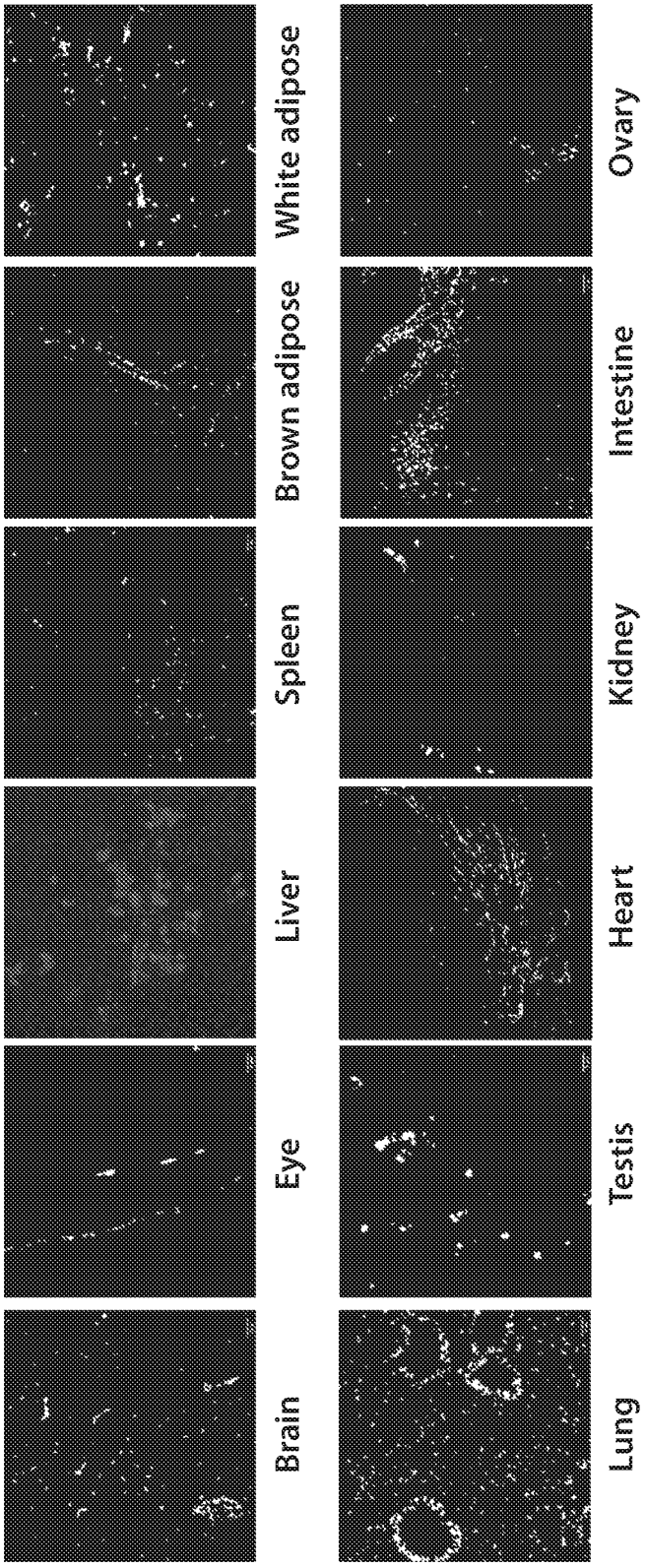

Brain
Eye
Liver
Spleen
Brown adipose
White adipose
Lung
Testis
Heart
Kidney
Intestine
Ovary

Figure 9

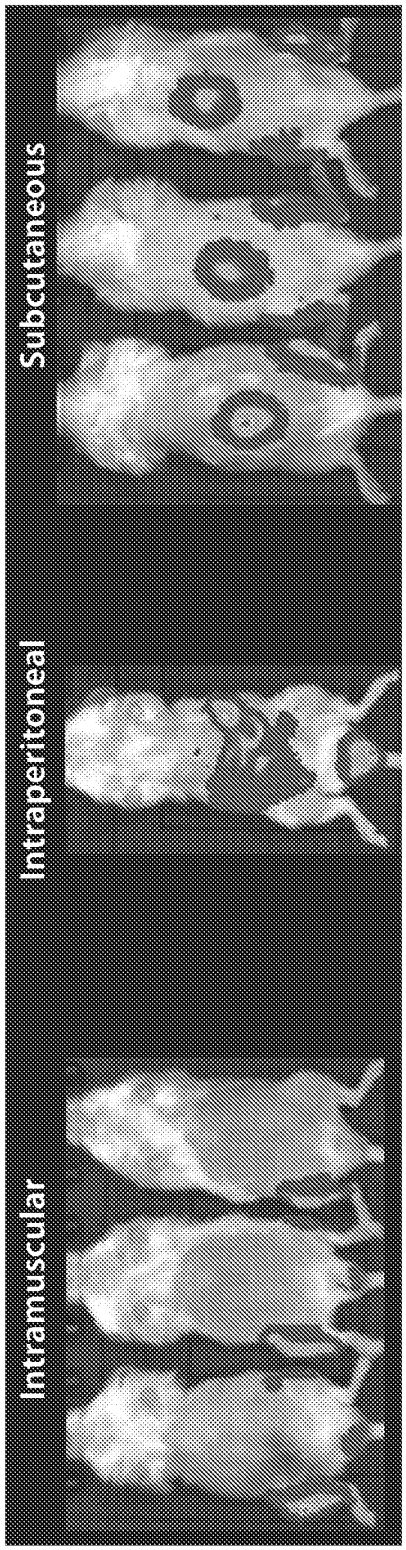


Figure 10

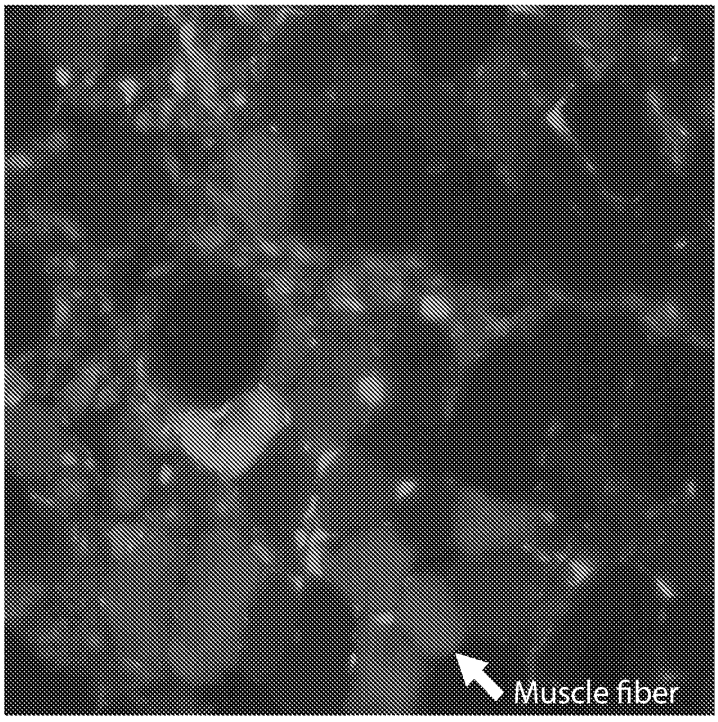


Figure 11