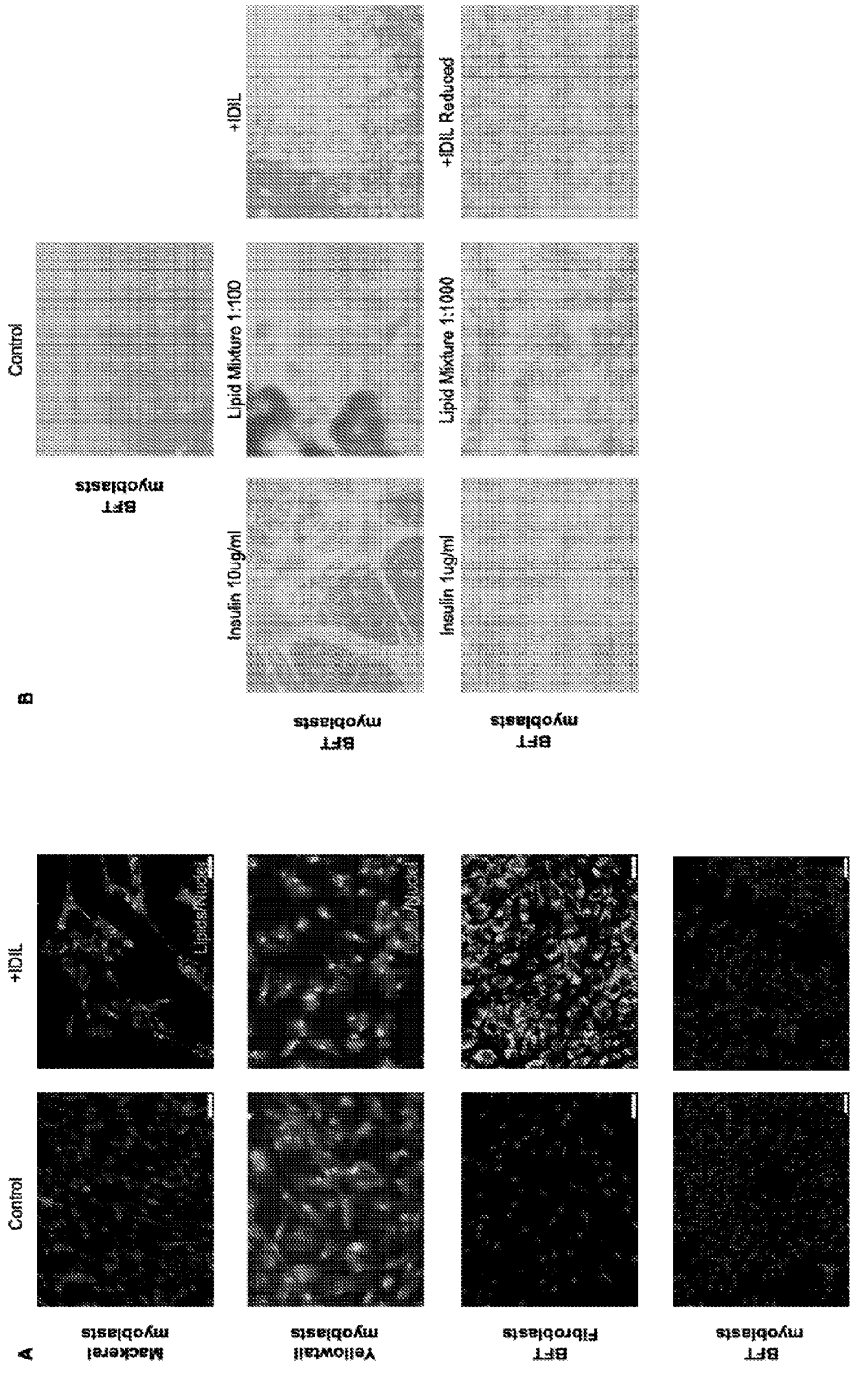

A
Blackeral myoblasts
Yellowtail myoblasts
BFT Fibroblasts
BFT myoblasts
Control
+IDIL
B
BFT myoblasts
Control
Lipid Mixture 1:100
Lipid Mixture 1:1000
+IDIL
+IDIL Reduced
Insulin 10ug/ml
Insulin 1ug/ml

FIGURE 1

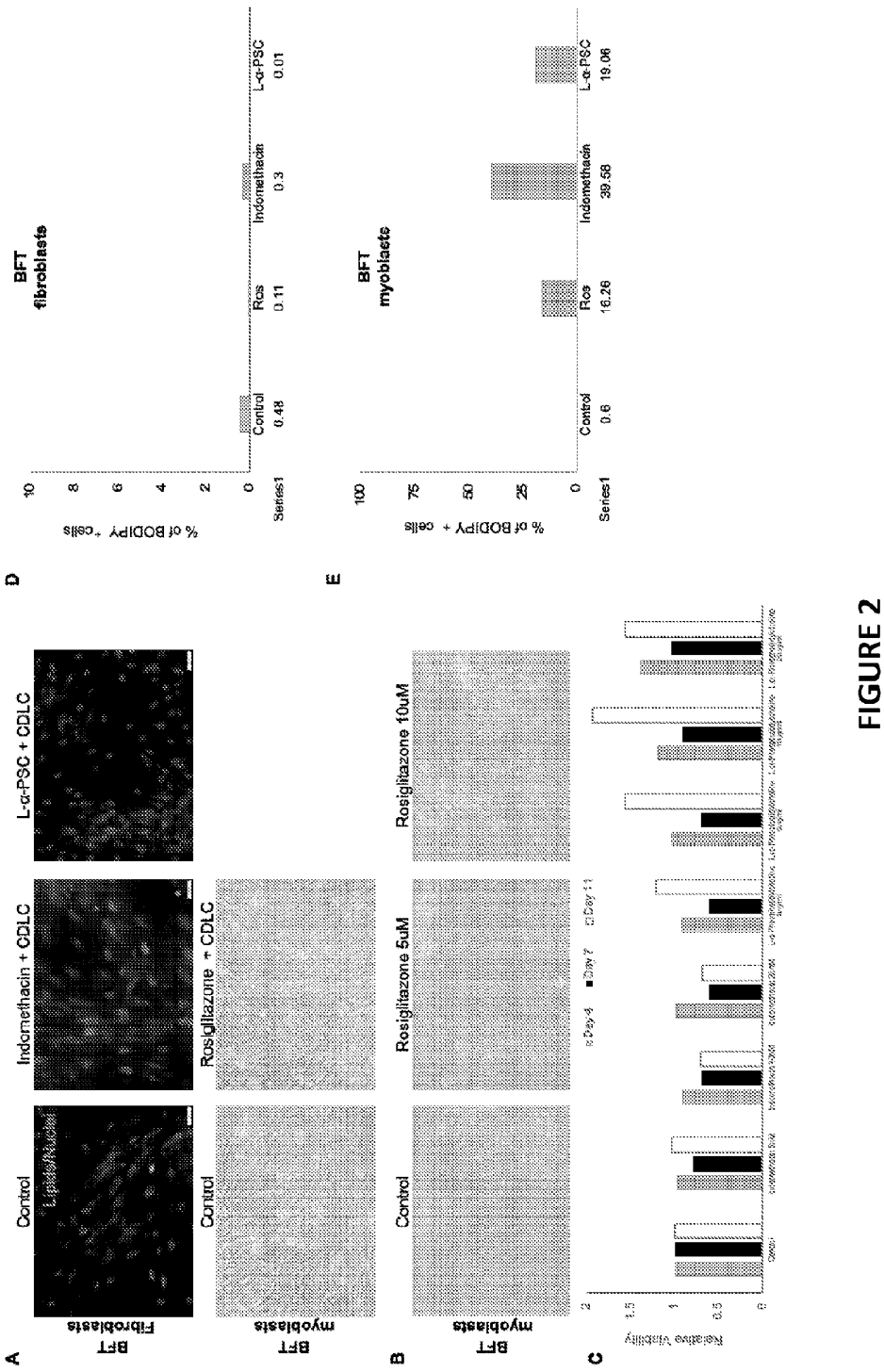

A
Control
Lipids/Nuclei
Indomethacin + CDLC
Rosiglitazone + CDLC
L-α-PSC + CDLC
BFT
Fibroblasts
myoblasts
B
Control
Rosiglitazone 5uM
Rosiglitazone 10uM
C
Relative Viability
Day 4
Day 7
Day 11
D
BFT
fibroblasts
% of BODIPY +cells
Control
Ros
Indomethacin
L-α-PSC
Series1
0.48
0.11
0.3
0.01
E
BFT
myoblasts
% of BODIPY + cells
Control
Ros
Indomethacin
L-α-PSC
Series1
0.6
16.26
39.58
19.06

FIGURE 2

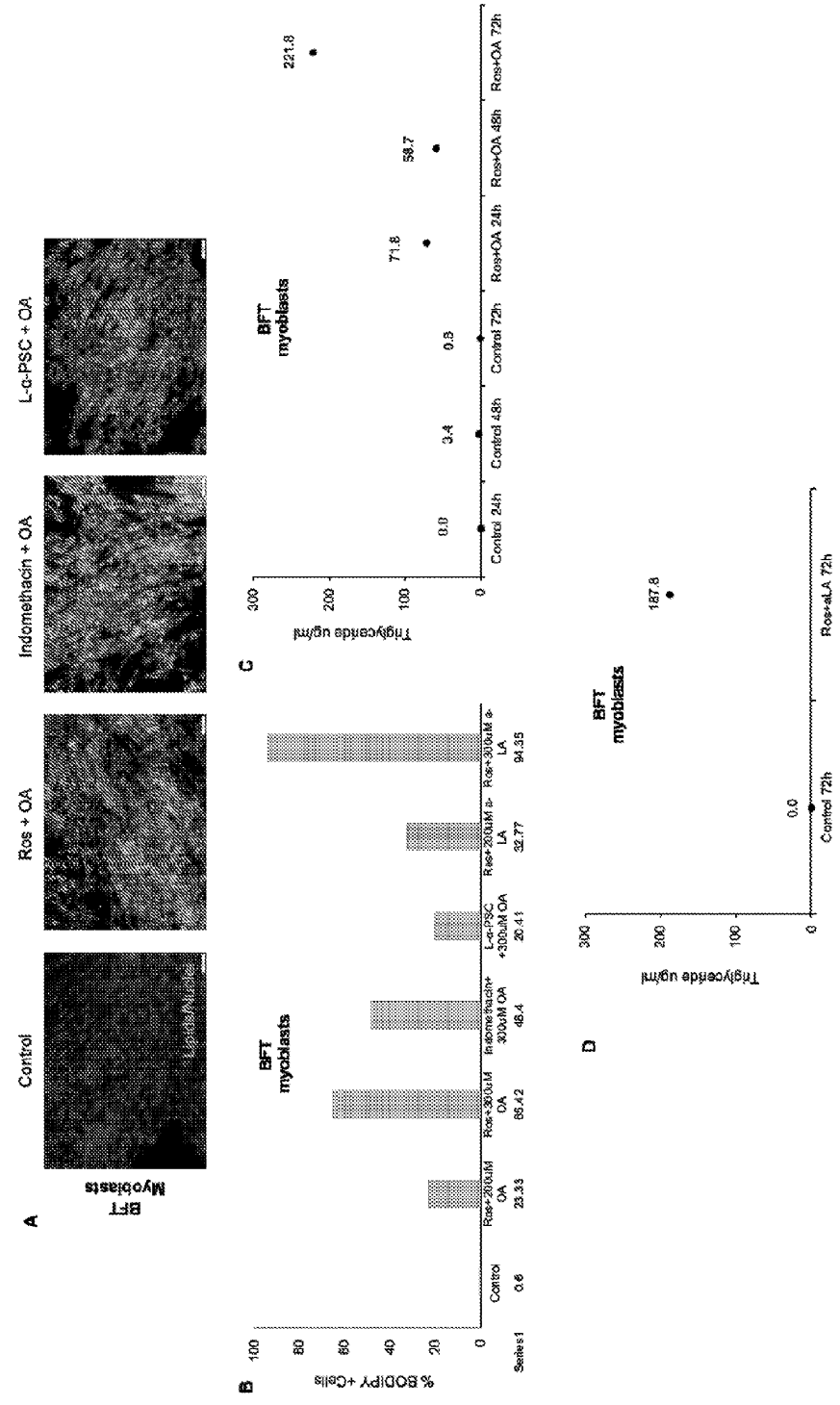

A
BFT
Myoblasts
Control
Ros + OA
Indomethacin + OA
L-α-PSC + OA
B
% BODIPY +Cells
BFT
myoblasts
Control
Ros+200uM OA
Ros+300uM OA
Indomethacin+ 300uM OA
L-α-PSC +300uM OA
Ros+200uM α-LA
Ros+300uM α-LA
0.6
23.33
65.42
46.4
20.41
32.77
94.35
C
Triglyceride ug/ml
BFT
myoblasts
0.0
3.4
0.8
71.8
58.7
221.8
Control 24h
Control 48h
Control 72h
Ros+OA 24h
Ros+OA 48h
Ros+OA 72h
D
Triglyceride ug/ml
BFT
myoblasts
0.0
187.8
Control 72h
Ros+aLA 72h

FIGURE 3

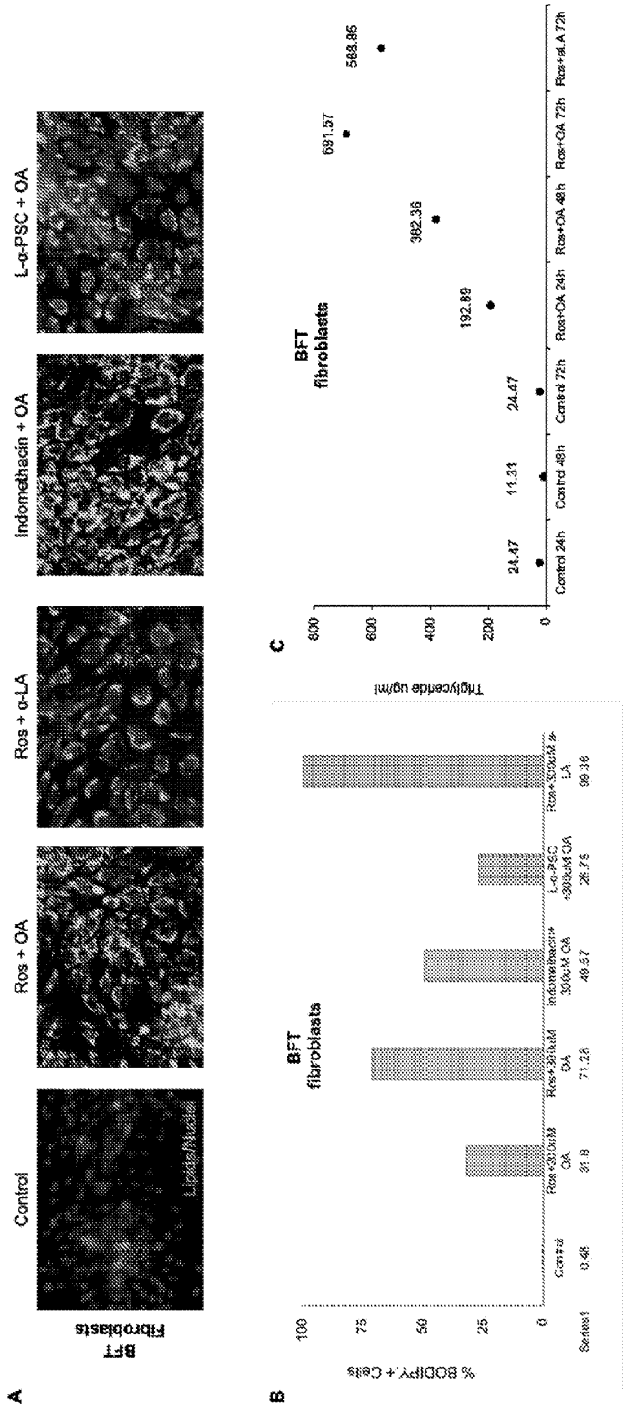

A
BFT fibroblasts
Control
Ros + OA
Ros + α-LA
Indomethacin + OA
L-α-PSC + OA
Lipids/Nuclei
B
BFT fibroblasts
% BODIPY + Cells
Control
Ros+50nM OA
Ros+50nM OA
Indomethacin+ 50nM OA
L-α-PSC +50nM OA
Ros+50nM α-LA
Series1
0.48
31.8
71.26
49.37
26.75
99.36
C
BFT fibroblasts
Triglyceride ug/ml
24.47
11.31
24.47
192.89
382.36
591.57
568.85
Control 24h
Control 48h
Control 72h
Ros+OA 24h
Ros+OA 48h
Ros+OA 72h
Ros+α-LA 72h

FIGURE 4

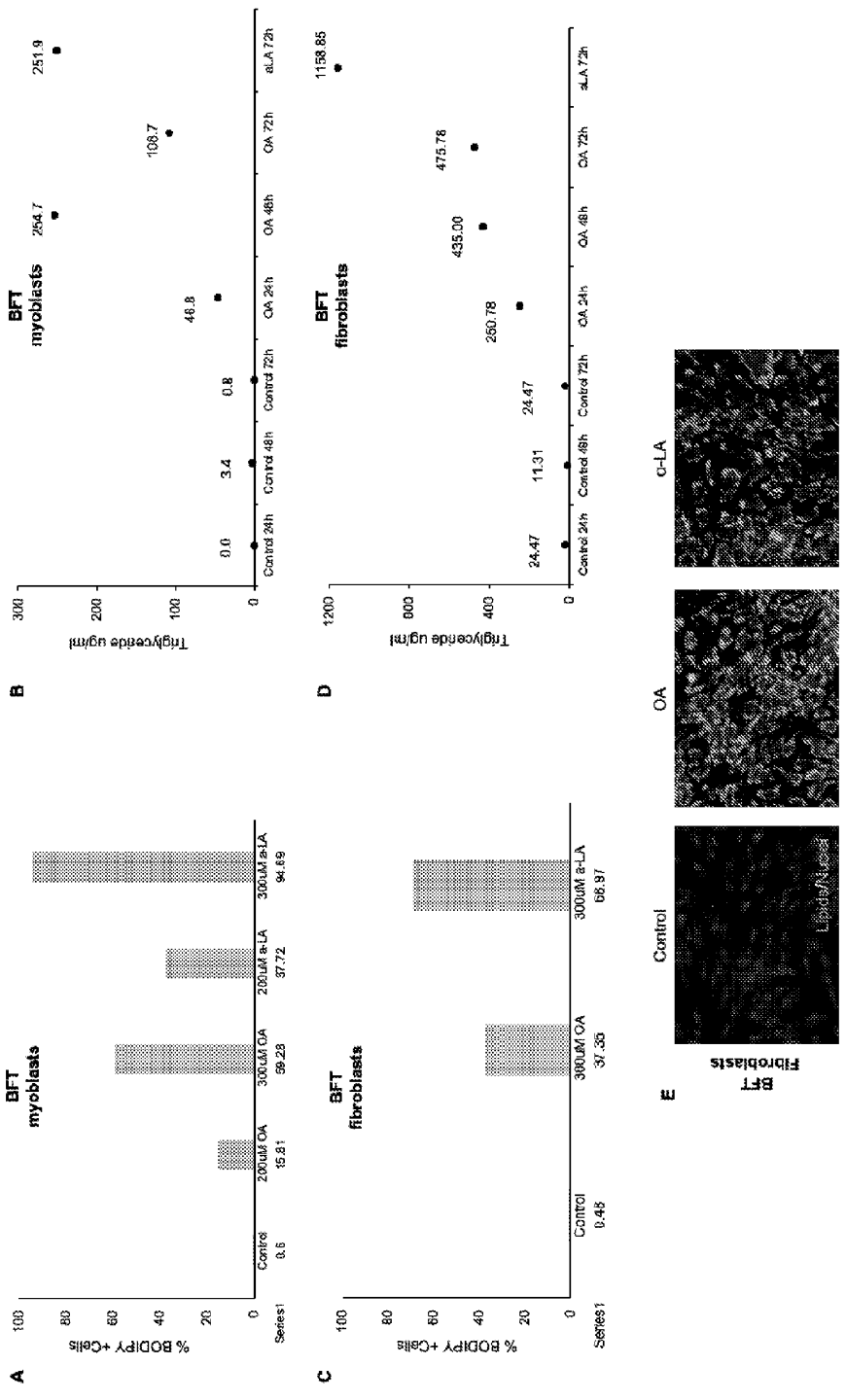

A
BFT myoblasts
% BODIPY +Cells
Control 0.6
200uM OA 15.81
300uM OA 59.28
200uM a-LA 37.72
300uM a-LA 94.69
B
BFT myoblasts
Triglyceride ug/ml
Control 24h 0.0
Control 48h 3.4
Control 72h 0.8
OA 24h 46.8
OA 48h 264.7
OA 72h 108.7
aLA 72h 251.9
C
BFT fibroblasts
% BODIPY +Cells
Control 0.48
300uM OA 37.36
300uM a-LA 68.97
D
BFT fibroblasts
Triglyceride ug/ml
Control 24h 24.47
Control 48h 11.31
Control 72h 24.47
OA 24h 260.78
OA 48h 435.00
OA 72h 475.78
aLA 72h 1158.85
E
BFT Fibroblasts
Control
OA
α-LA
Lipids/Nuclei

FIGURE 5

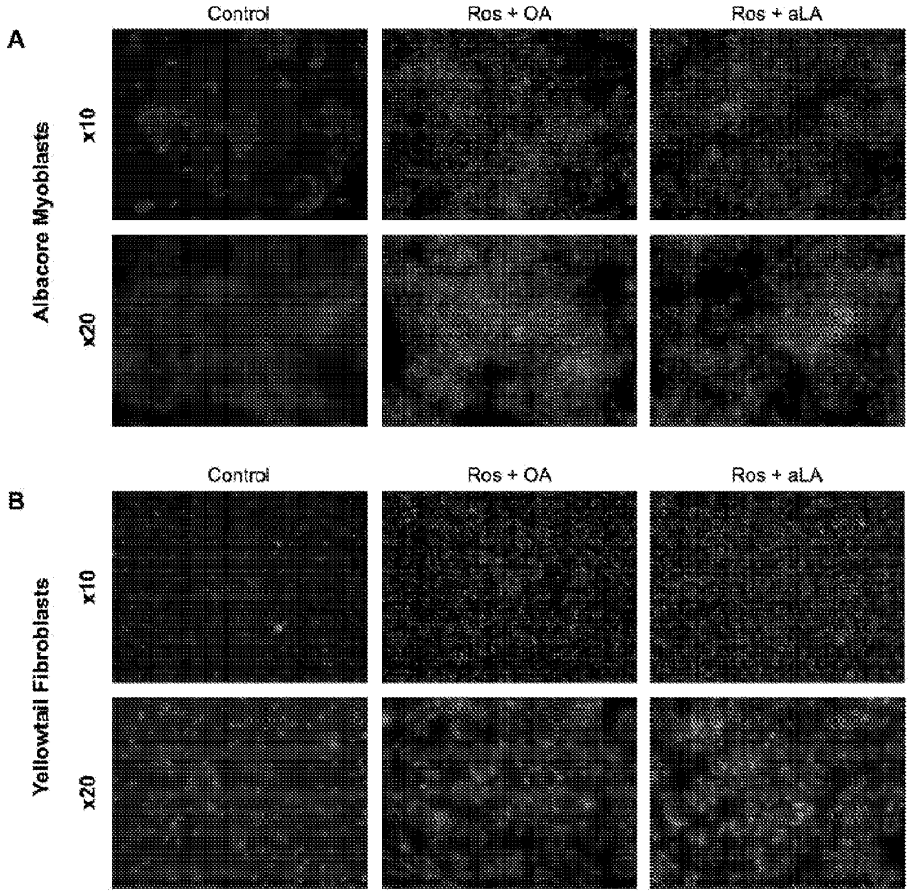

A
Control
Ros + OA
Ros + aLA
Albacore Myoblasts
x10
x20
B
Control
Ros + OA
Ros + aLA
Yellowtail Fibroblasts
x10
x20

FIGURE 6

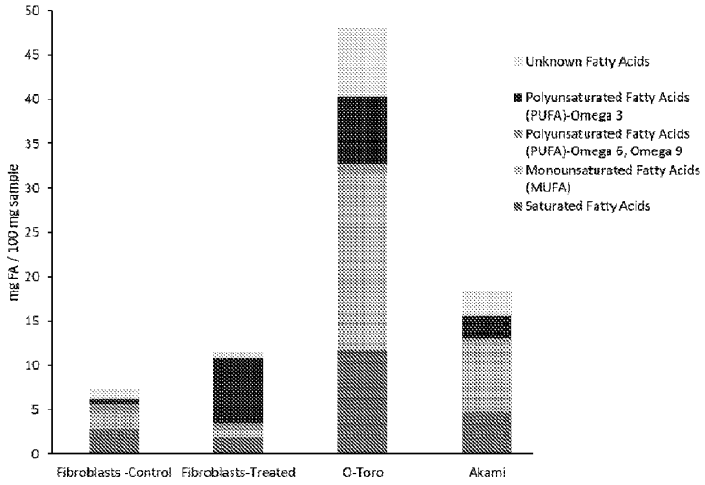


FIGURE 7A

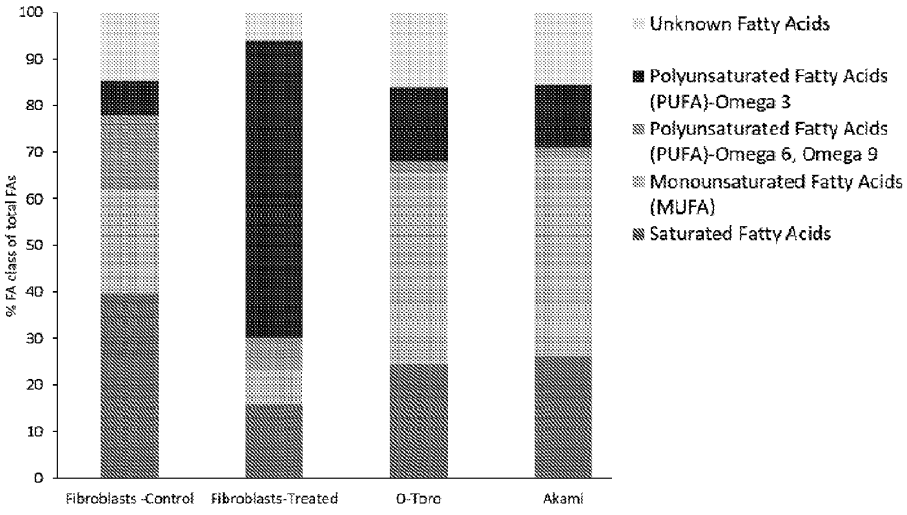


FIGURE 7B