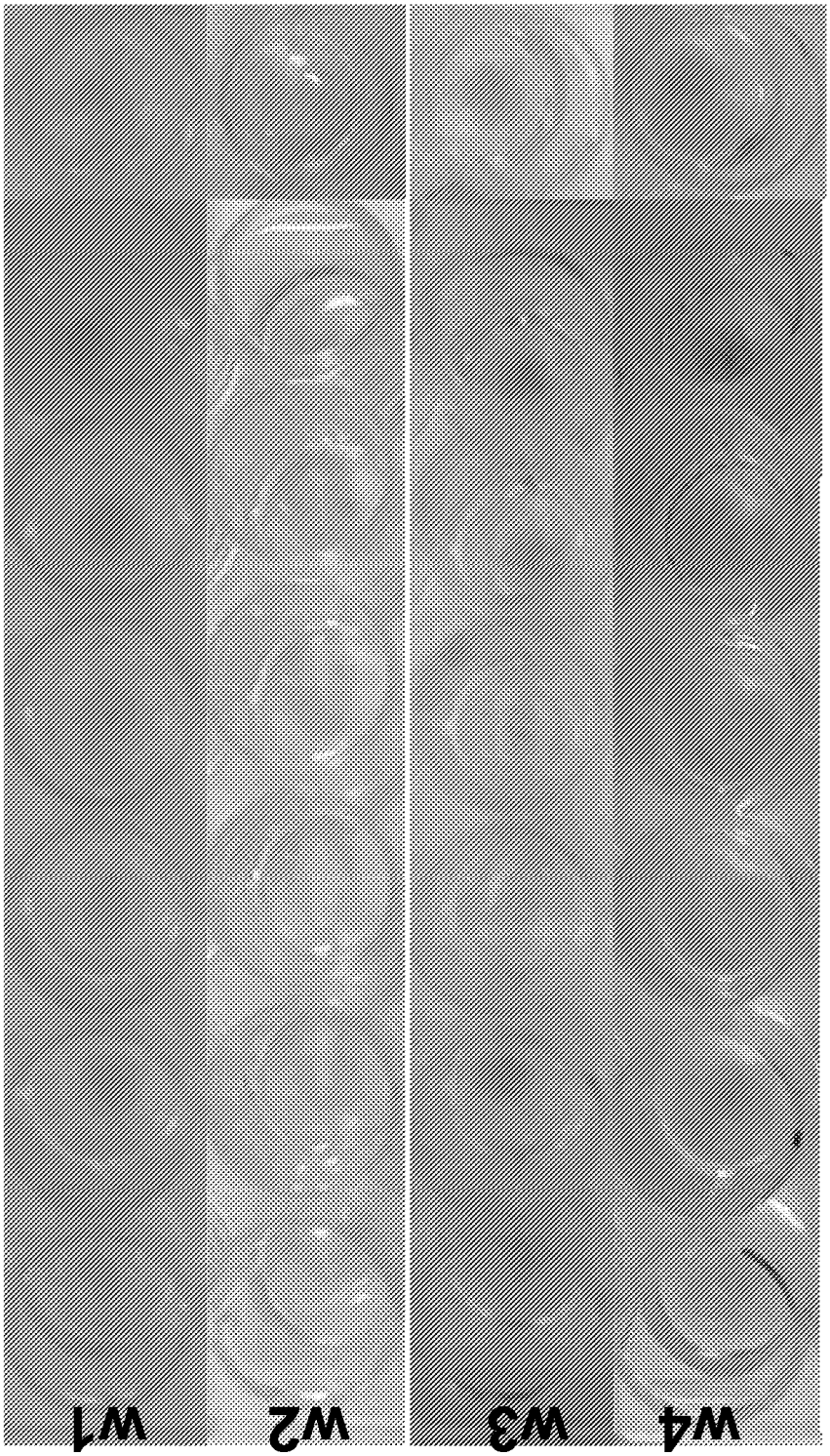


FIG. 1

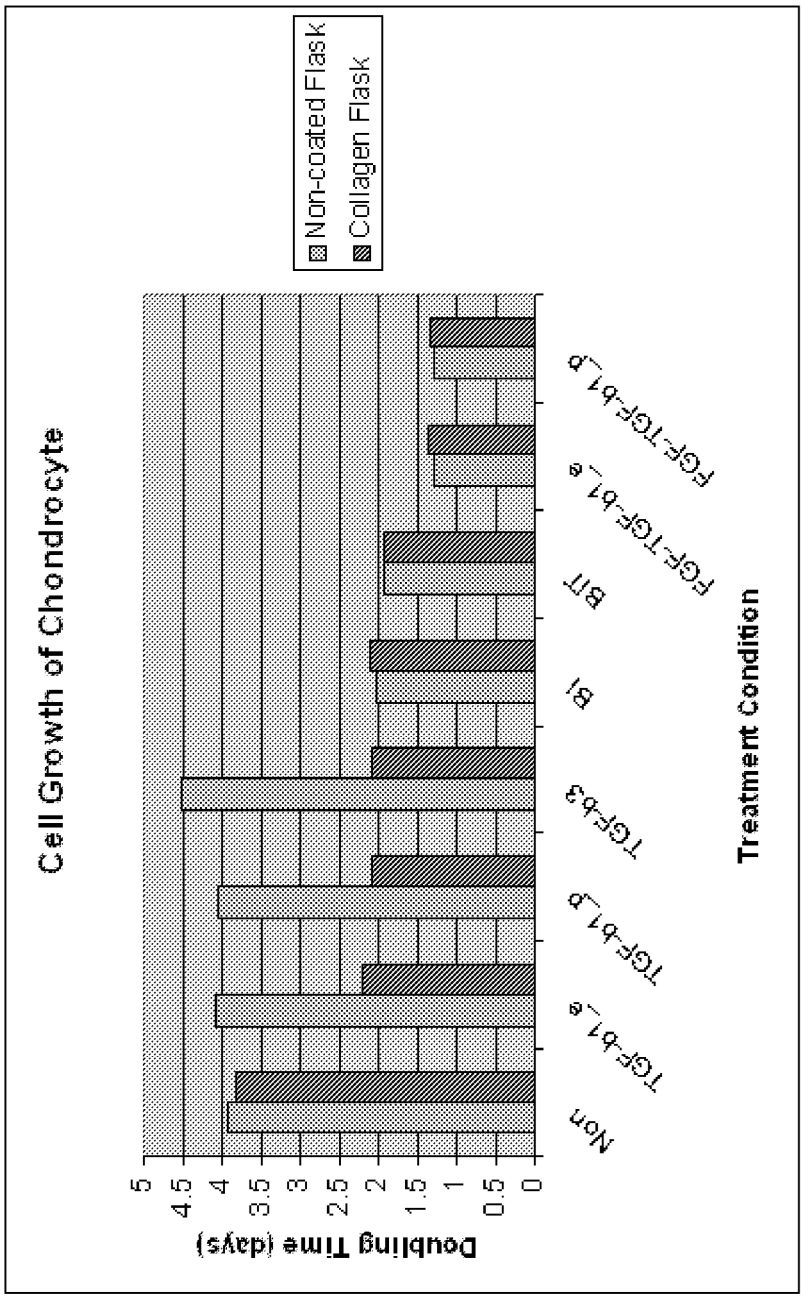

Cell Growth of Chondrocyte
Non-coated Flask
Collagen Flask
Doubling Time (days)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Non
TGF-b1_e
TGF-b1_p
TGF-b3
BI
BIT
FGF-TGF-b1_e
FGF-TGF-b1_p
Treatment Condition

FIG. 2

FIG. 3

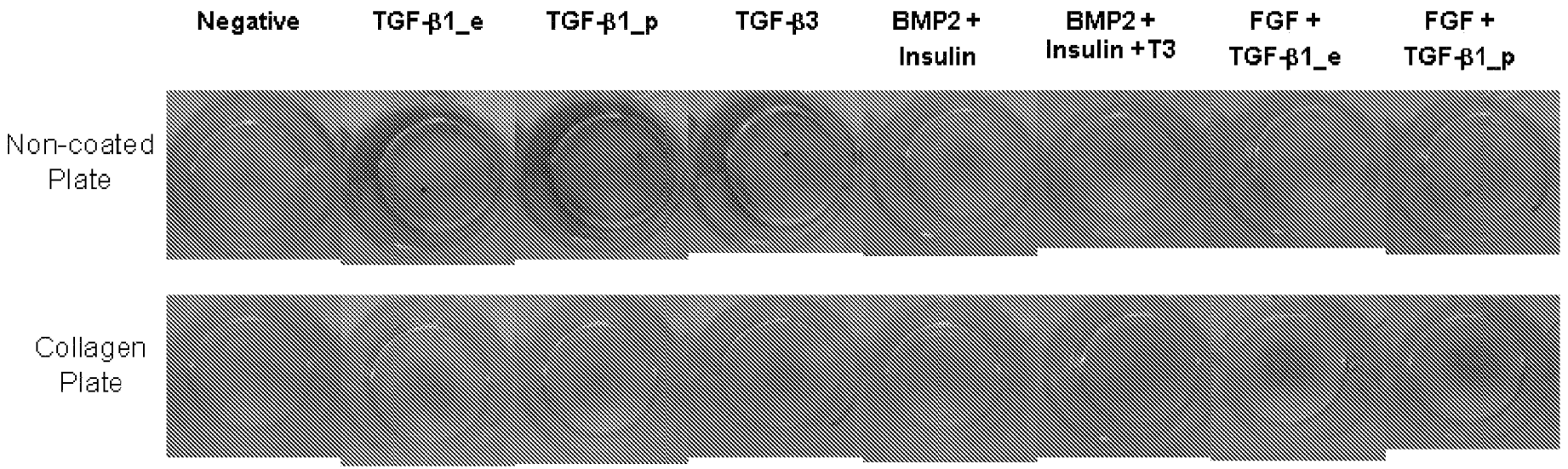

Negative
TGF-β1_e
TGF-β1_p
TGF-β3
BMP2 + Insulin
BMP2 + Insulin +T3
FGF + TGF-β1_e
FGF + TGF-β1_p
Non-coated Plate
Collagen Plate

FIG. 4

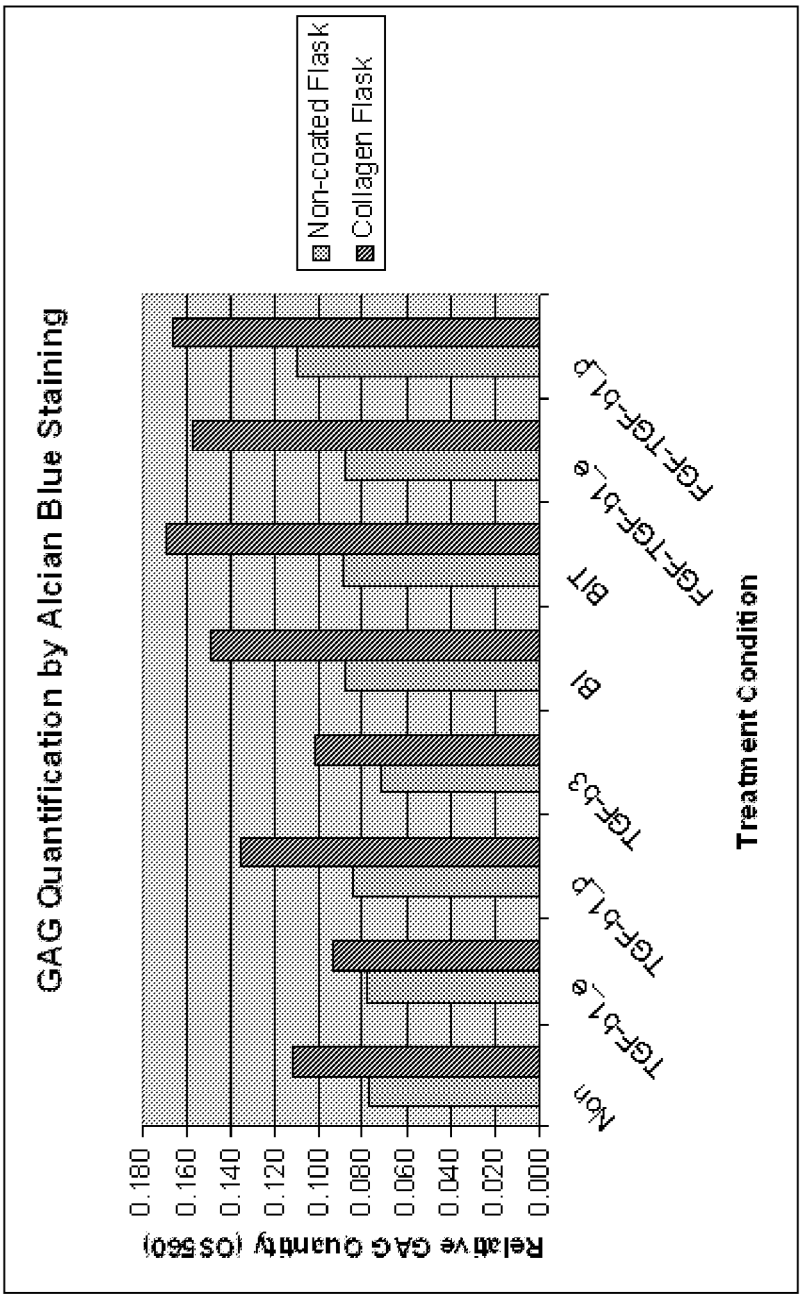

GAG Quantification by Alcian Blue Staining
Non-coated Flask
Collagen Flask
Relative GAG Quantity (OS560)
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
Non
TGF-b1_e
TGF-b1_p
TGF-b3
BI
BIT
FGF-TGF-b1_e
FGF-TGF-b1_p
Treatment Condition

FIG. 5

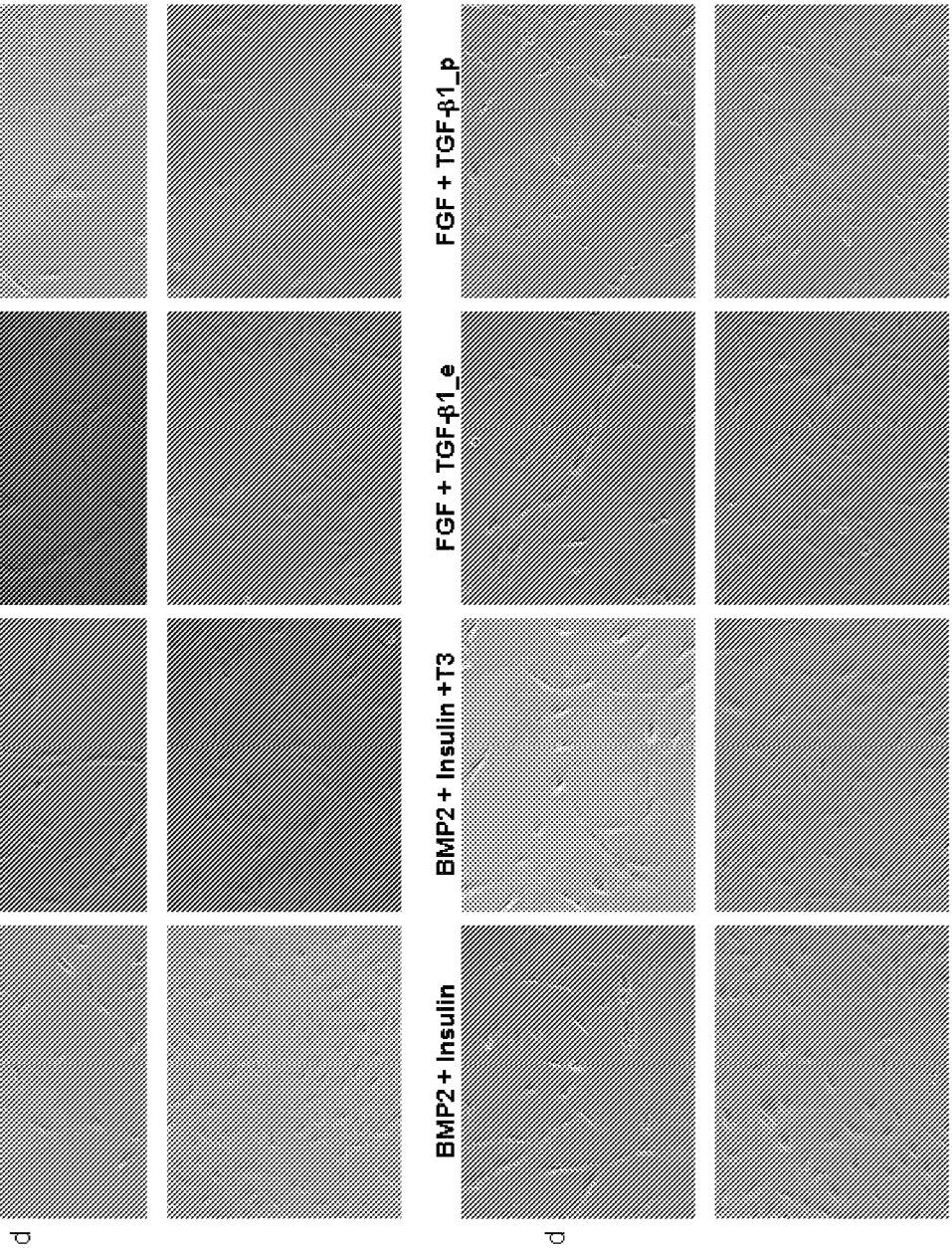
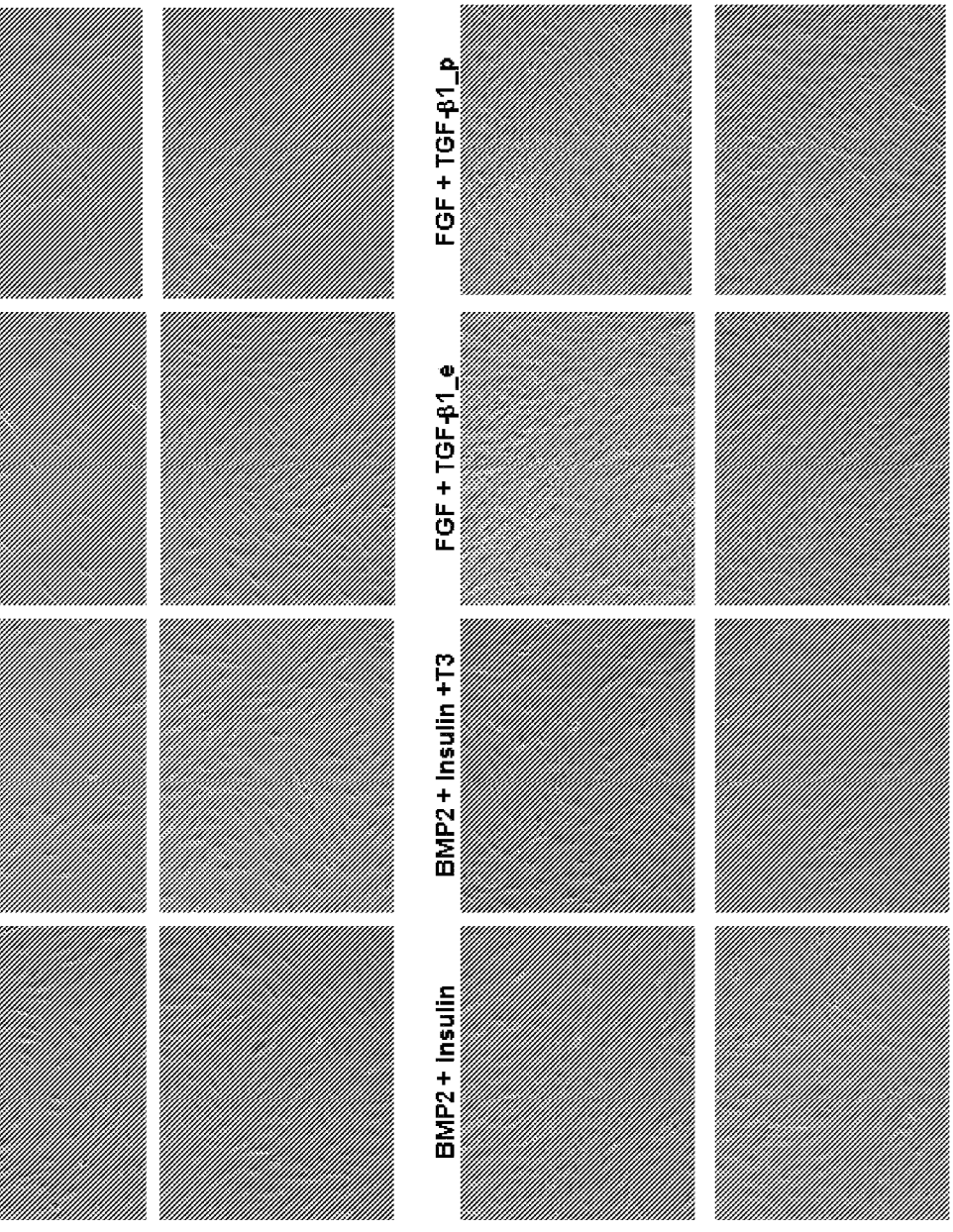

Negative
TGF-β1_e
TGF-β1_p
TGF-β3
BMP2 + Insulin
BMP2 + Insulin +T3
FGF + TGF-β1_e
FGF + TGF-β1_p
Non-coated Plate
Collagen Plate
Non-coated Plate
Collagen Plate

FIG. 6


Negative
TGF-β1_e
TGF-β1_p
TGF-β3
BMP2 + Insulin
BMP2 + Insulin +T3
FGF + TGF-β1_e
FGF + TGF-β1_p
Non-coated Plate
Collagen Plate
Non-coated Plate
Collagen Plate