Figure 1

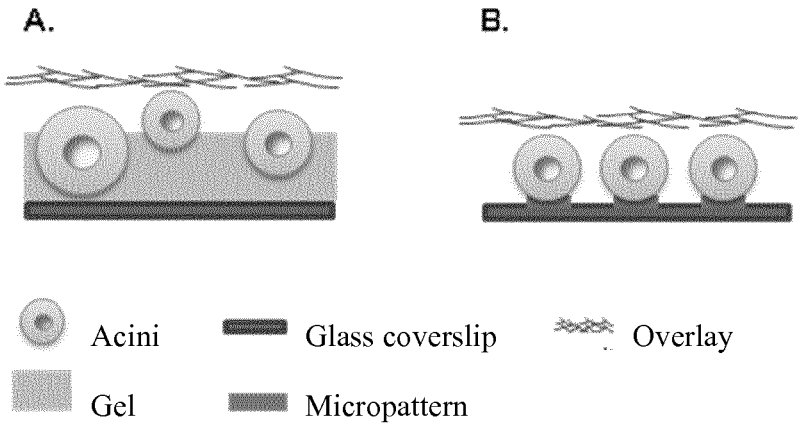


Figure 2

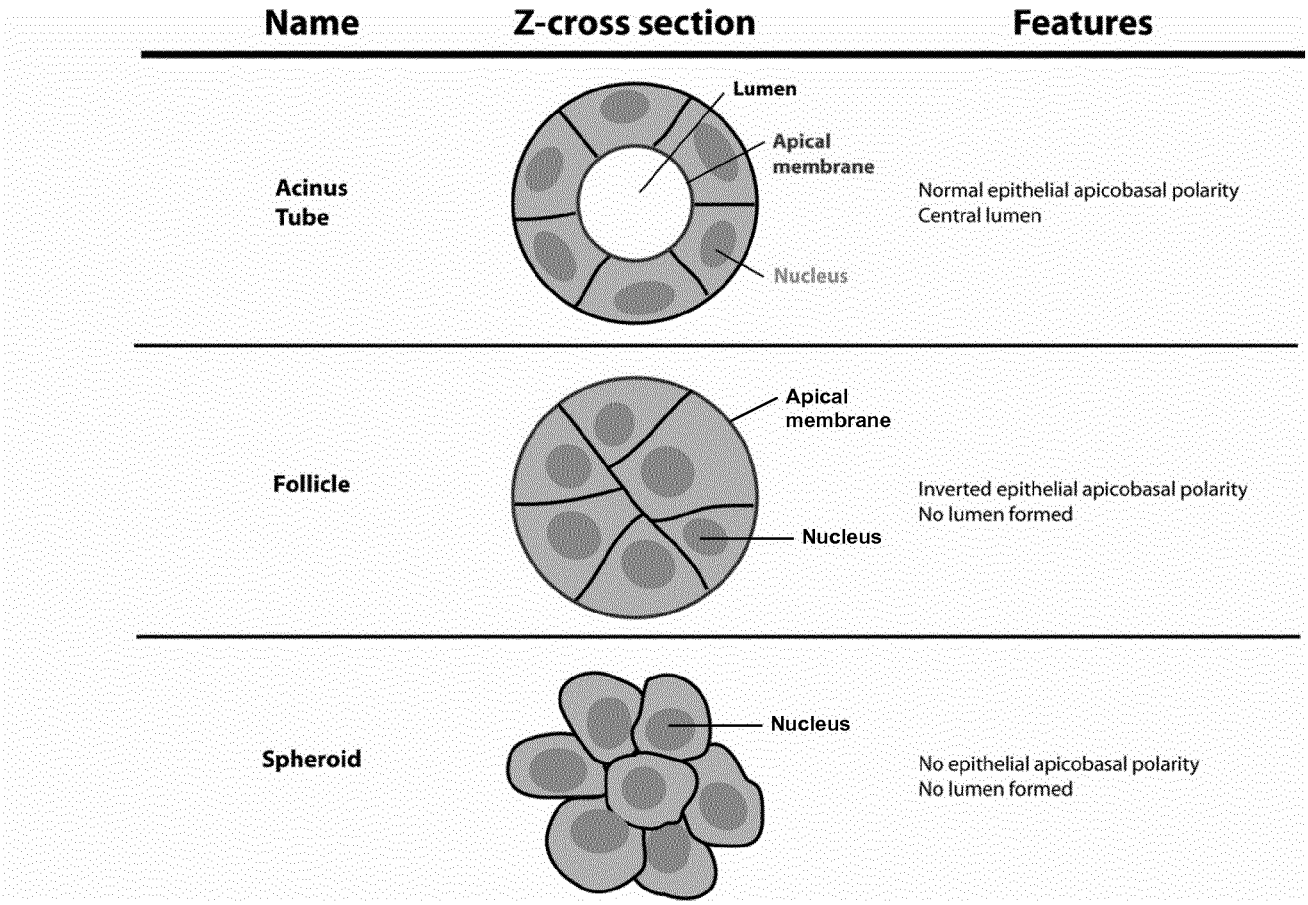

Name
Z-cross section
Features
Acinus
Tube
Lumen
Apical membrane
Nucleus
Normal epithelial apicobasal polarity
Central lumen
Follicle
Apical membrane
Nucleus
Inverted epithelial apicobasal polarity
No lumen formed
Spheroid
Nucleus
No epithelial apicobasal polarity
No lumen formed

Figure 3

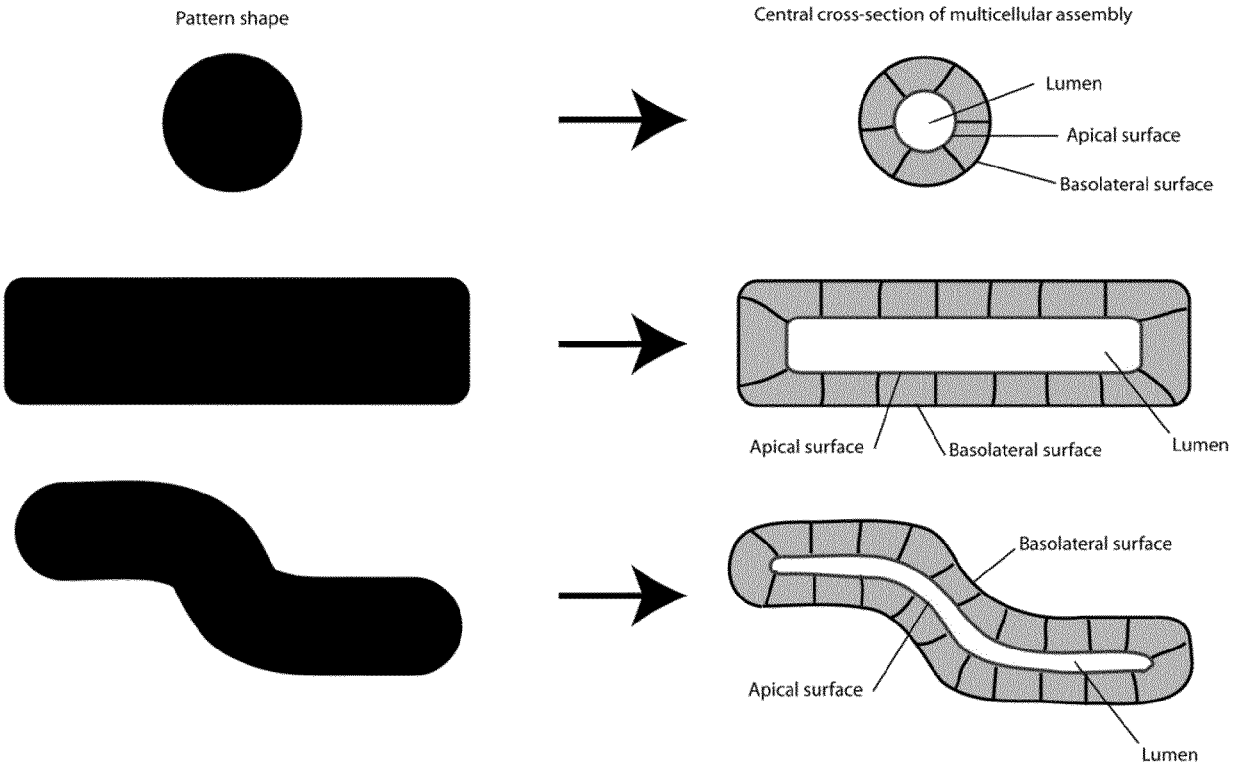

Pattern shape
Central cross-section of multicellular assembly
Lumen
Apical surface
Basolateral surface
Apical surface
Basolateral surface
Lumen
Basolateral surface
Apical surface
Lumen

Figure 4

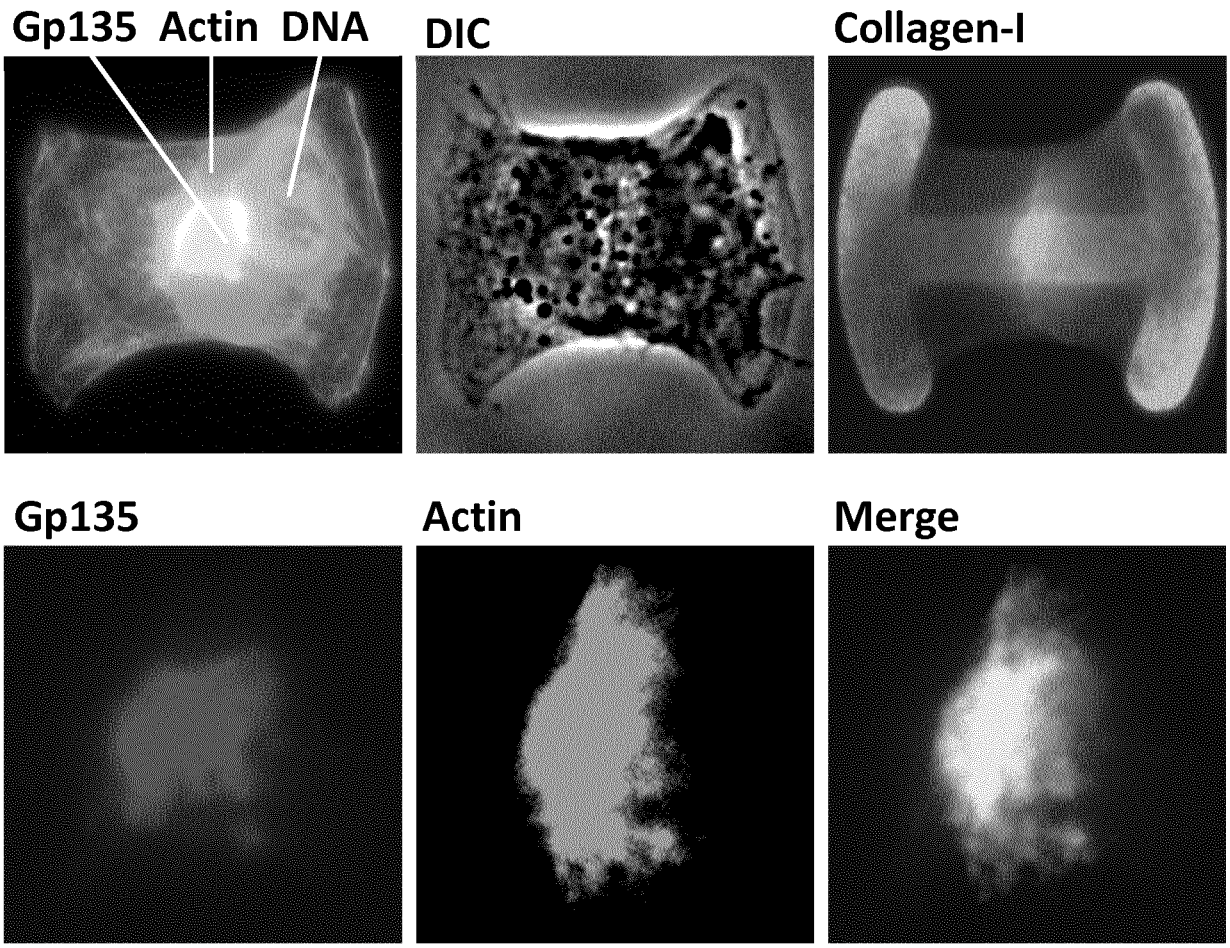


Figure 5

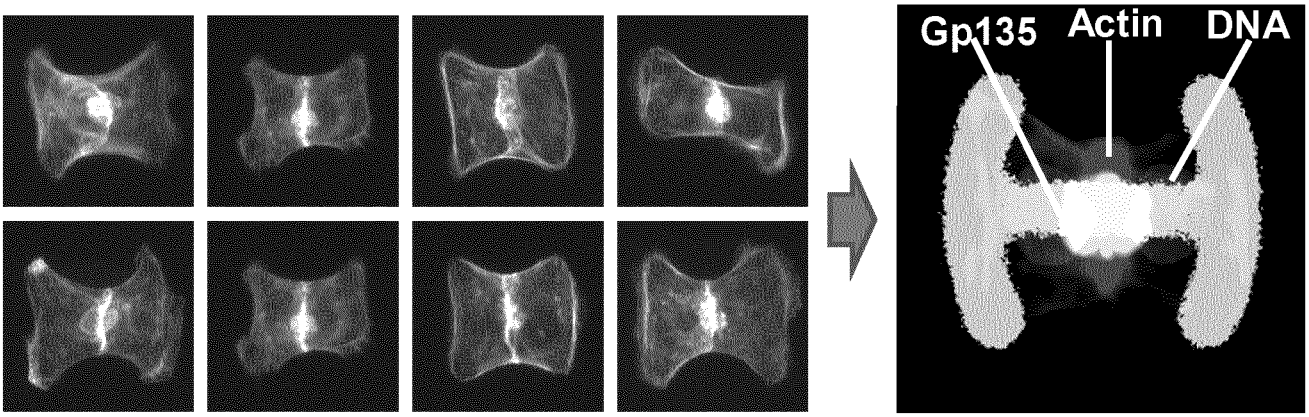


Figure 6

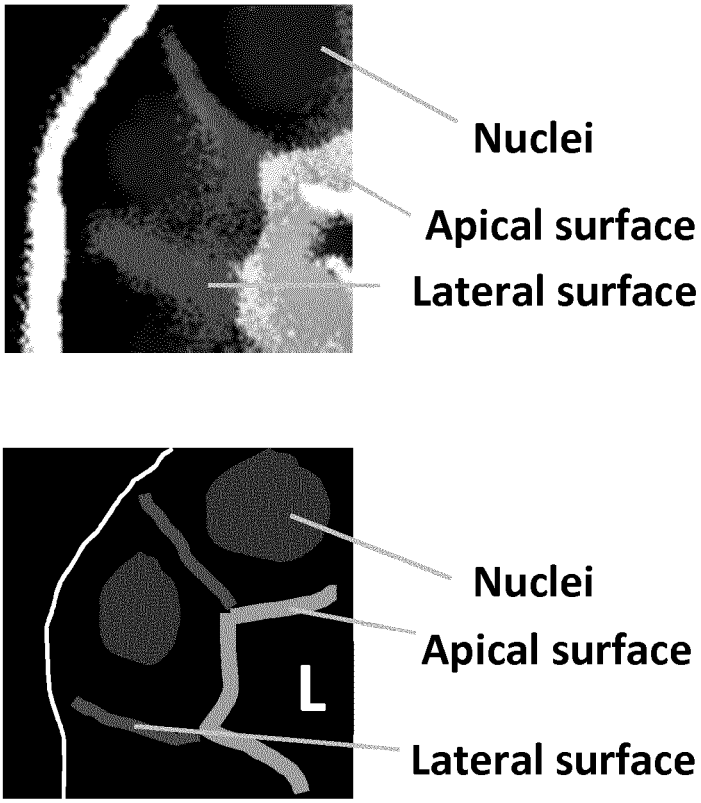

Nuclei
Apical surface
Lateral surface
Nuclei
Apical surface
L
Lateral surface

Figure 7

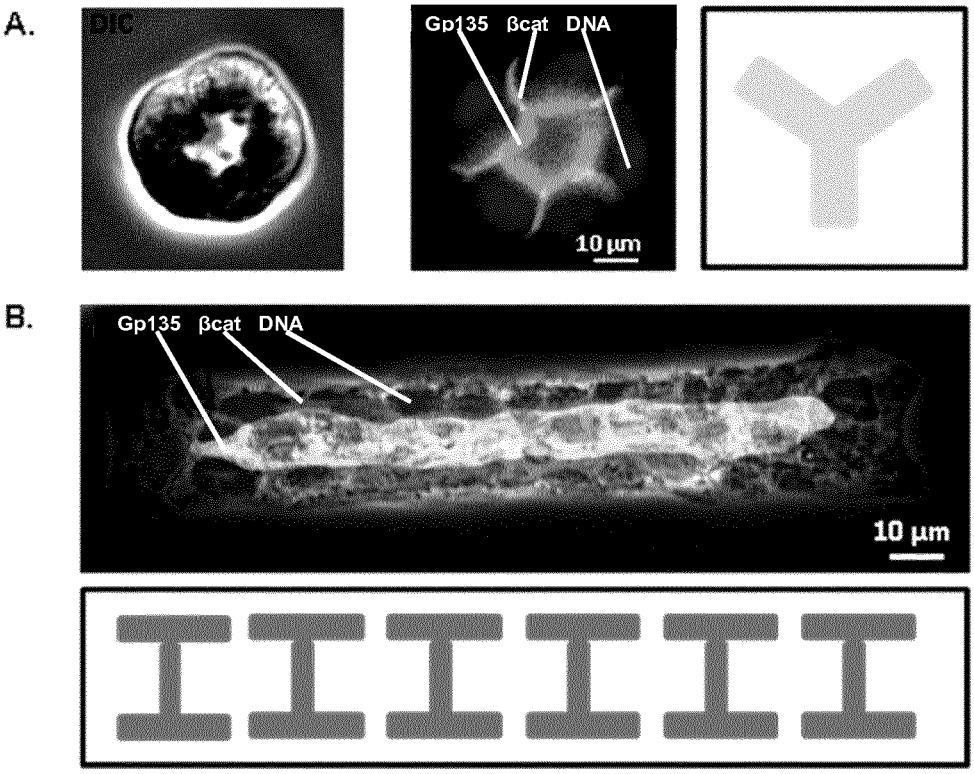


Figure 8

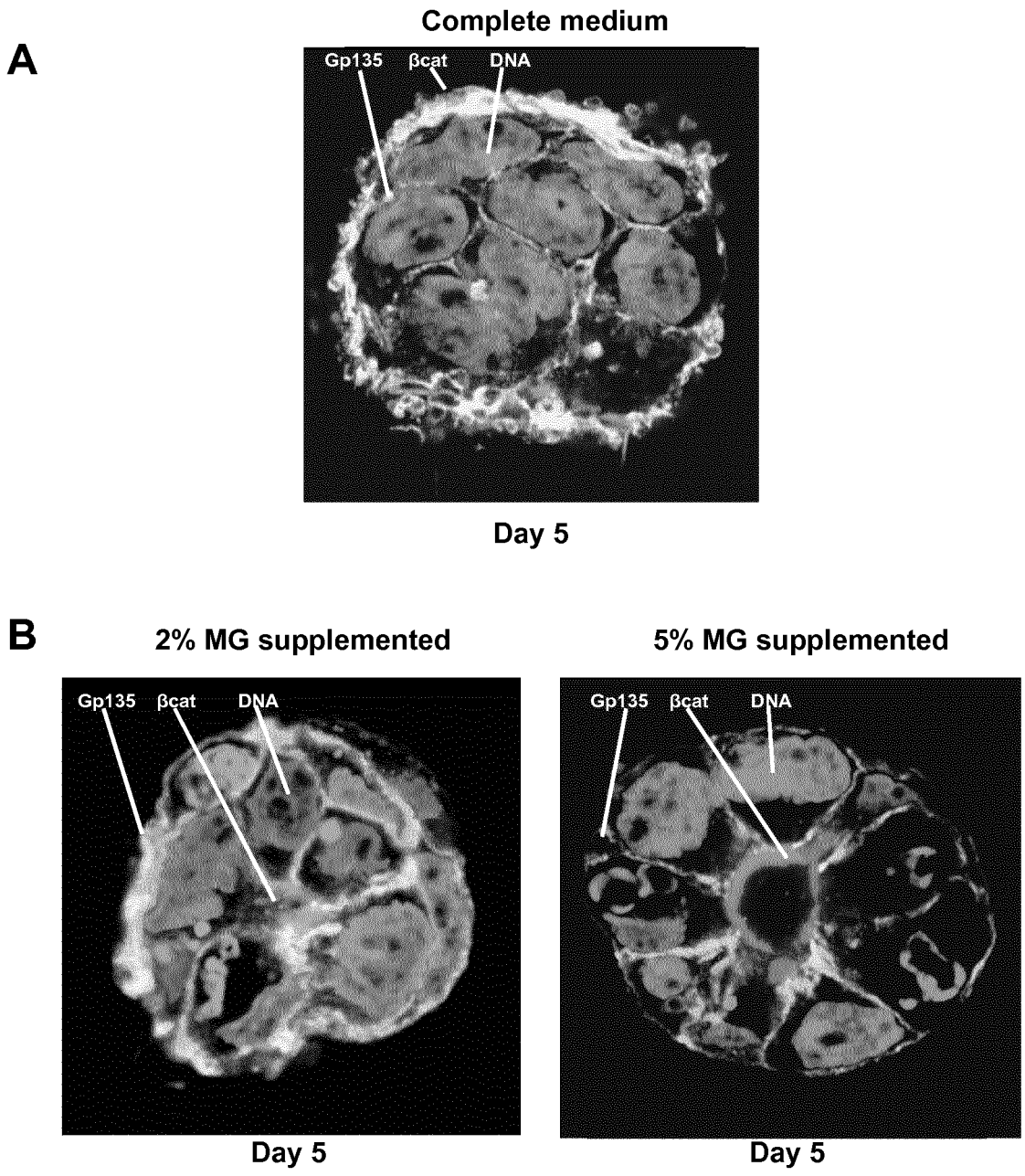

A
Complete medium
Gp135
βcat
DNA
Day 5
B
2% MG supplemented
Gp135
βcat
DNA
Day 5
5% MG supplemented
Gp135
βcat
DNA
Day 5

Figure 9

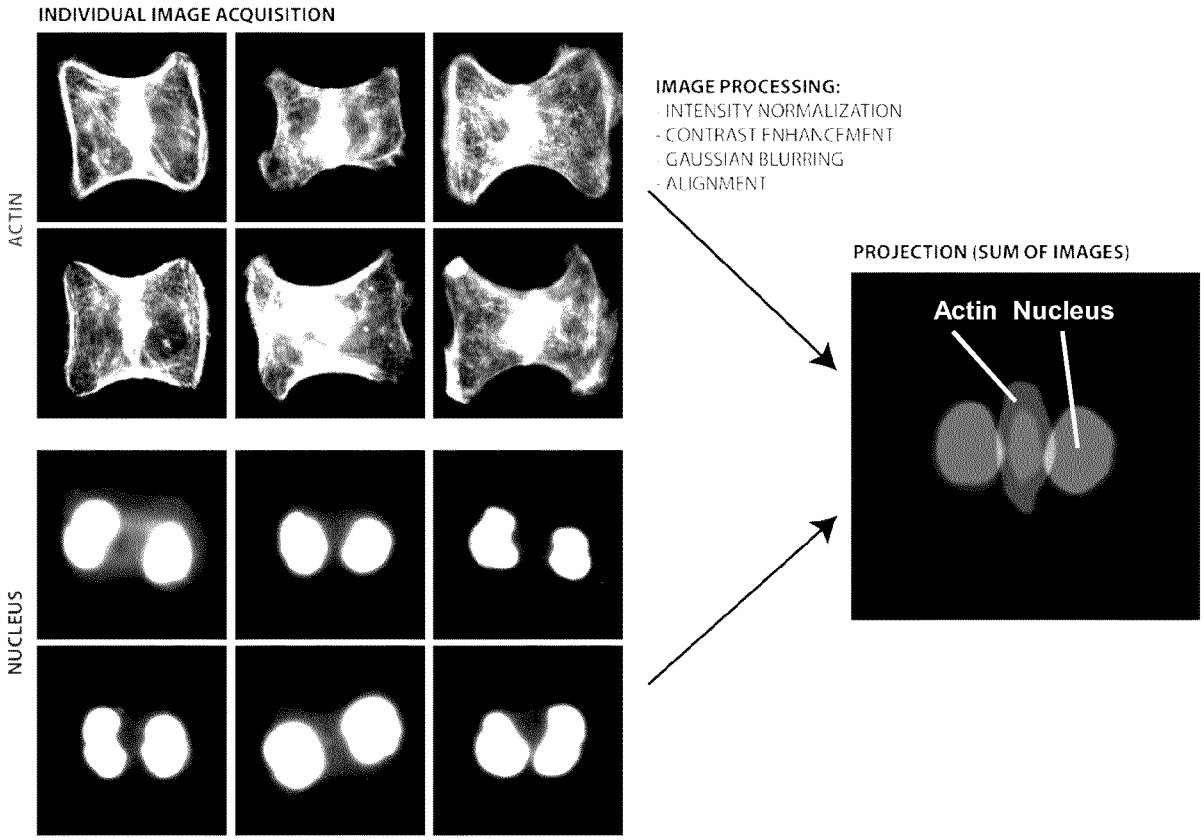

INDIVIDUAL IMAGE ACQUISITION
ACTIN
NUCLEUS
IMAGE PROCESSING:
- INTENSITY NORMALIZATION
- CONTRAST ENHANCEMENT
- GAUSSIAN BLURRING
- ALIGNMENT
PROJECTION (SUM OF IMAGES)
Actin Nucleus

Figure 10

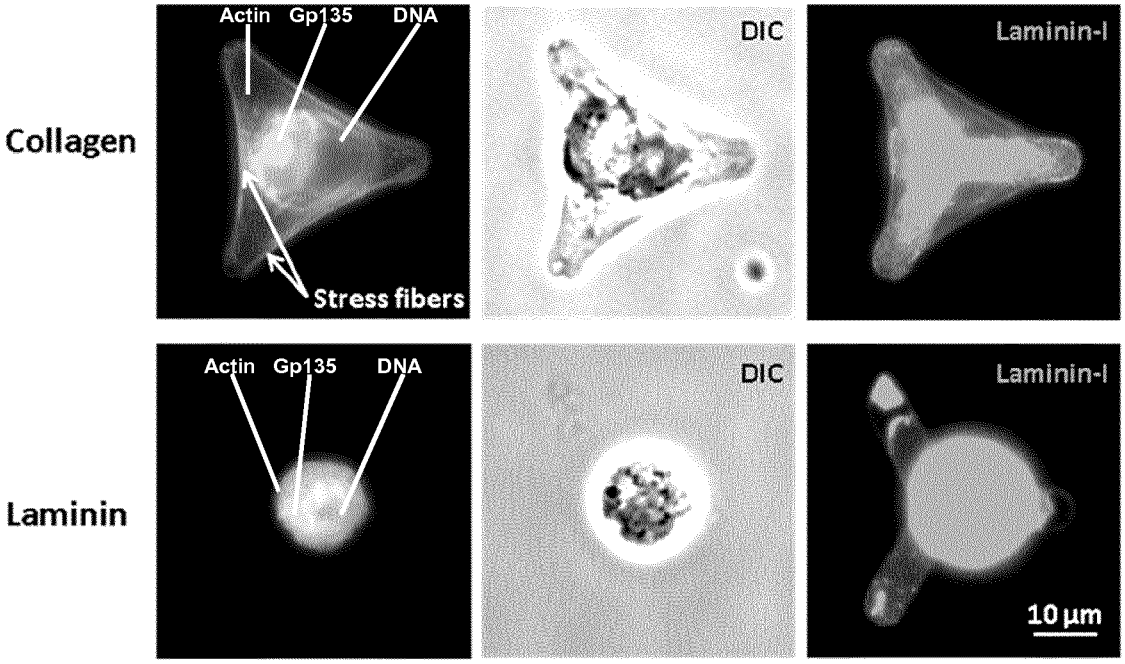


Figure 11

