

Figure 1

Day

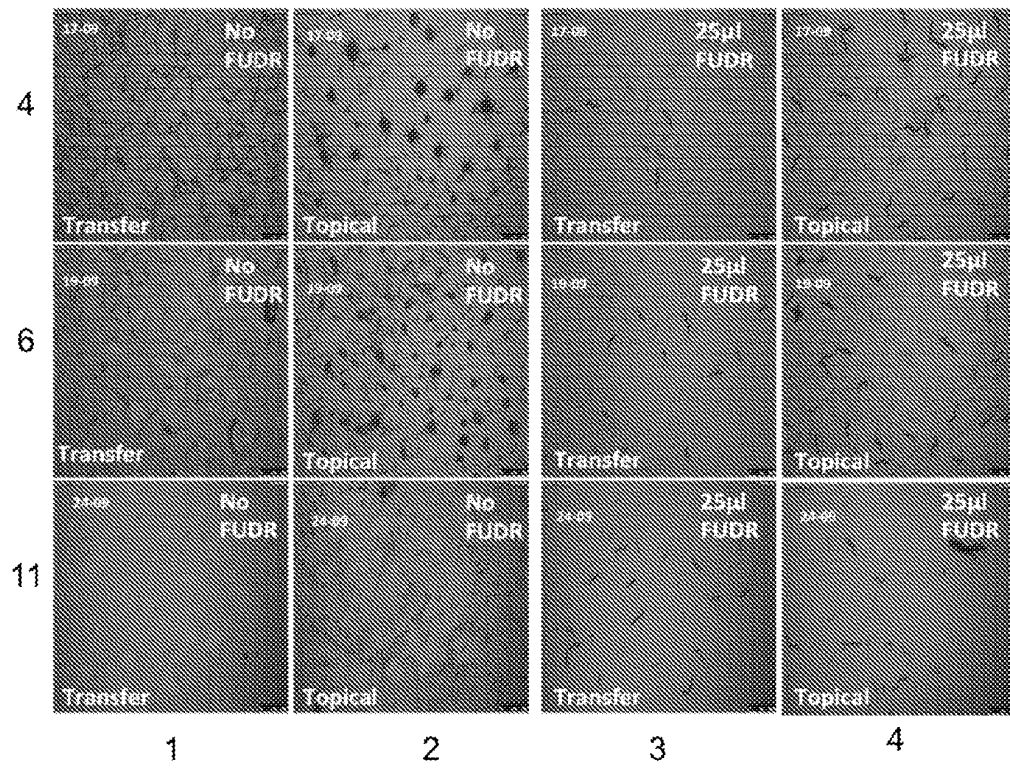


Figure 2

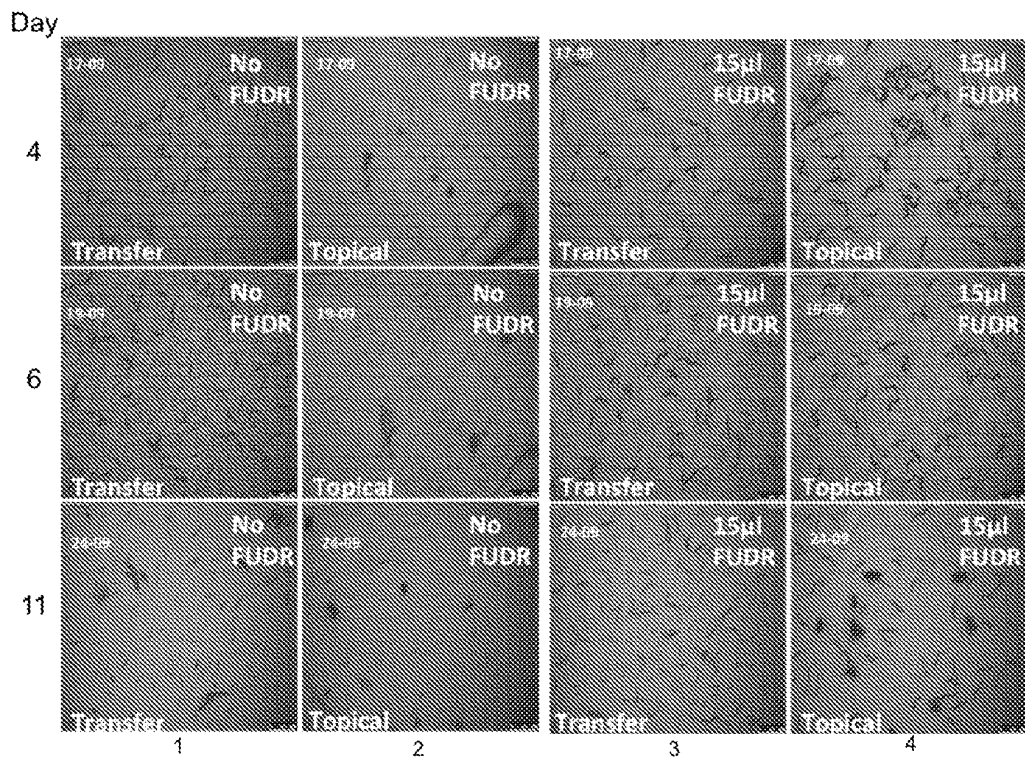


Figure 3

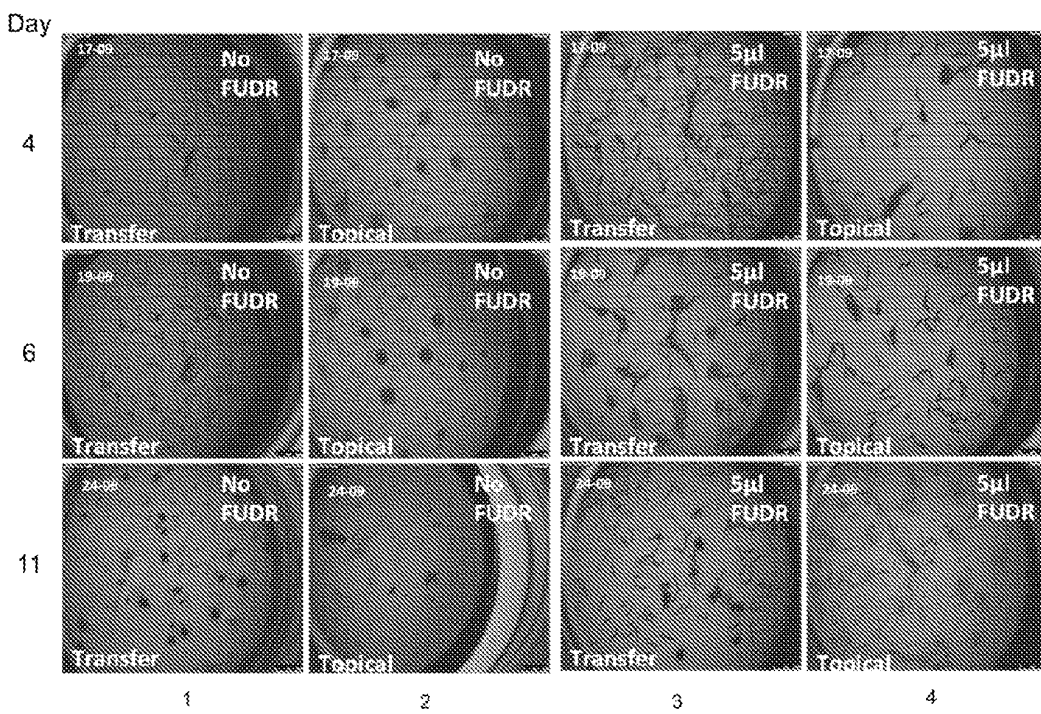


Figure 4

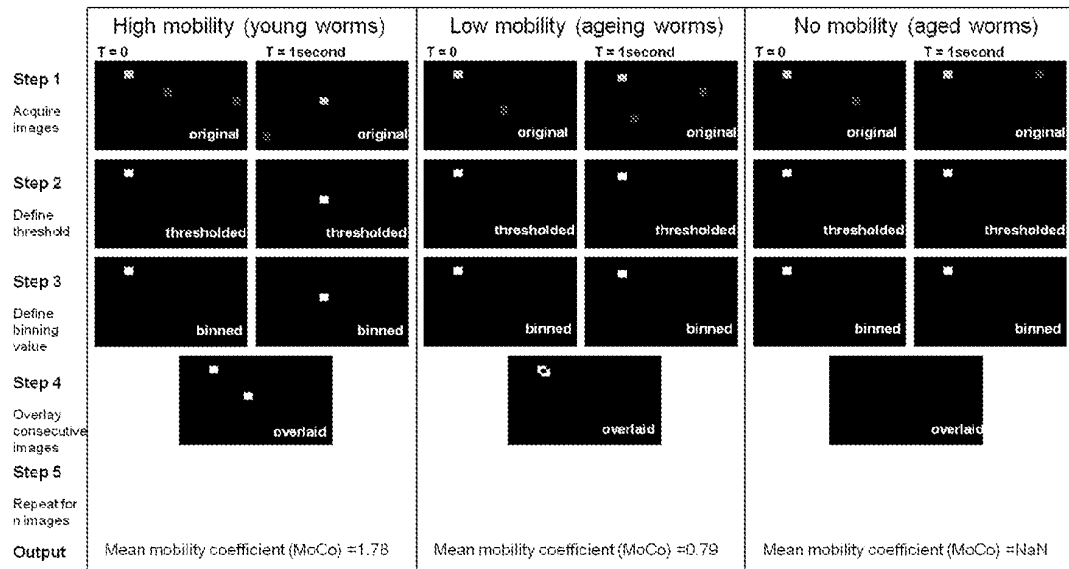


Figure 5

Matlab analysis of MoCo comparing time intervals between images of AM134bus-5 at room temperature and after a 4°C cold shock using a BIN value of 1

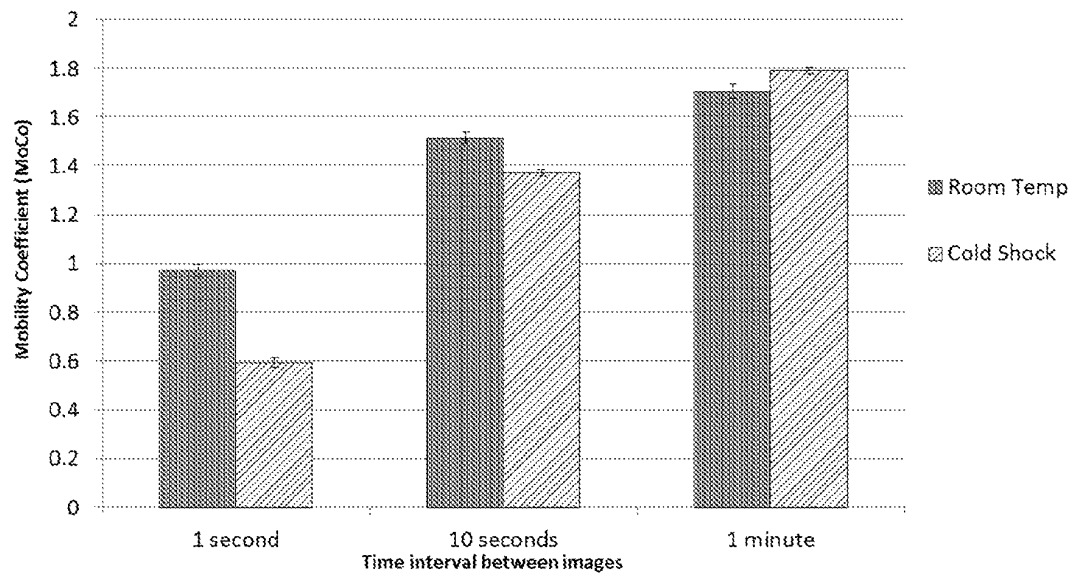


Figure 6

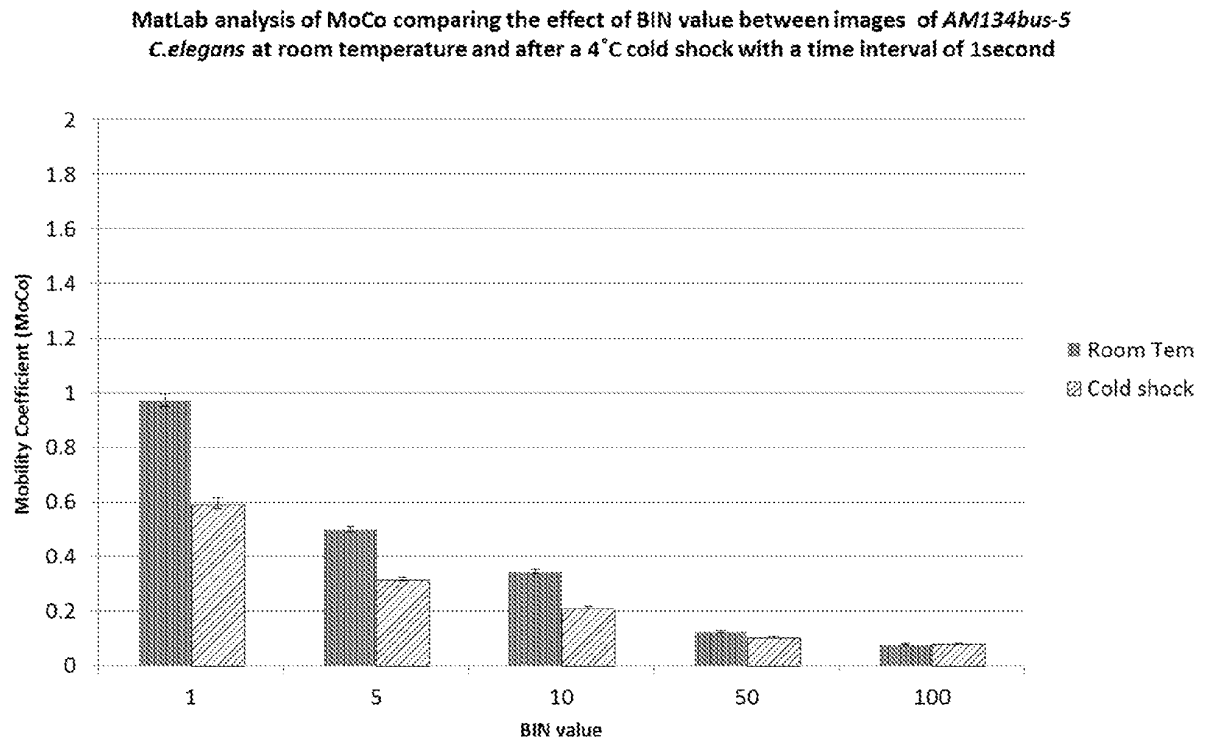


Figure 7

Examples *C. elegans* with GFP Localised to Different Regions

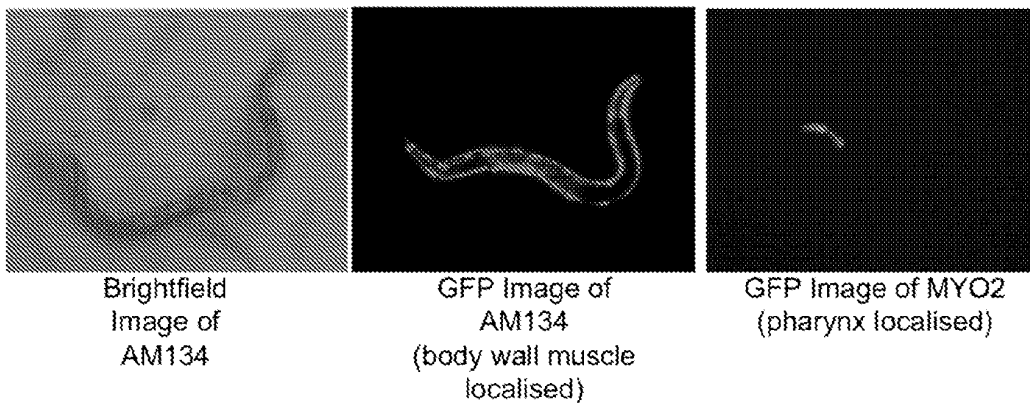


Figure 8

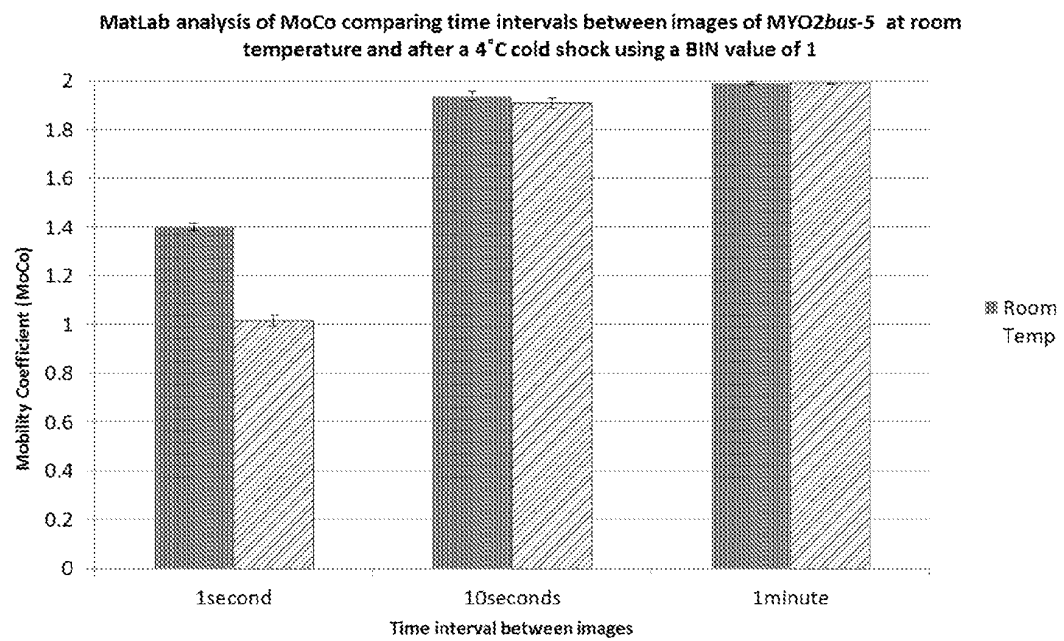


Figure 9

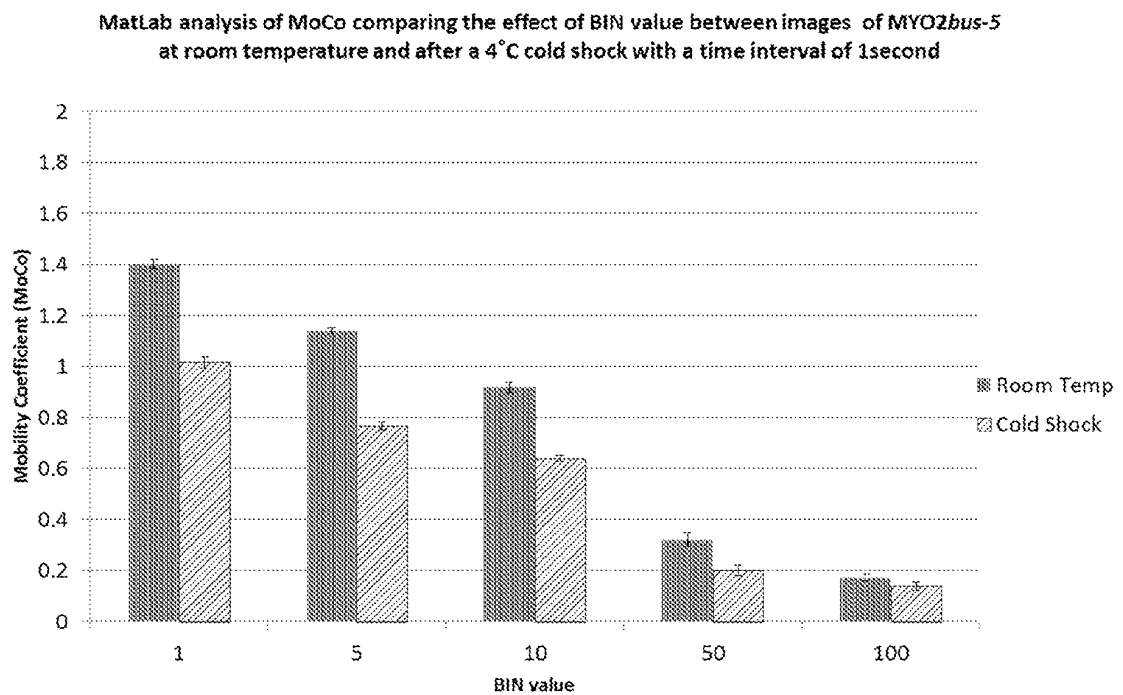


Figure 10

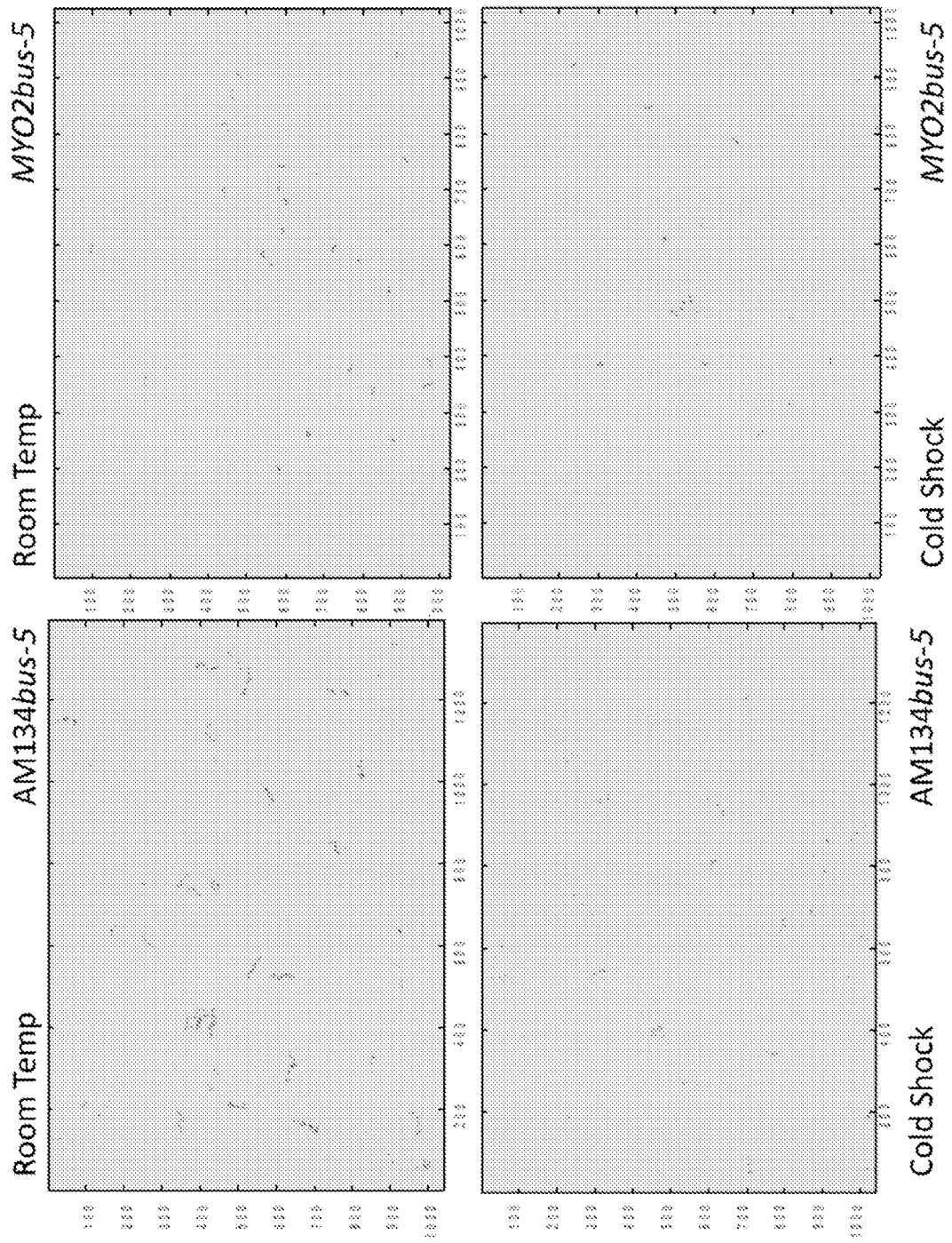


Figure 11

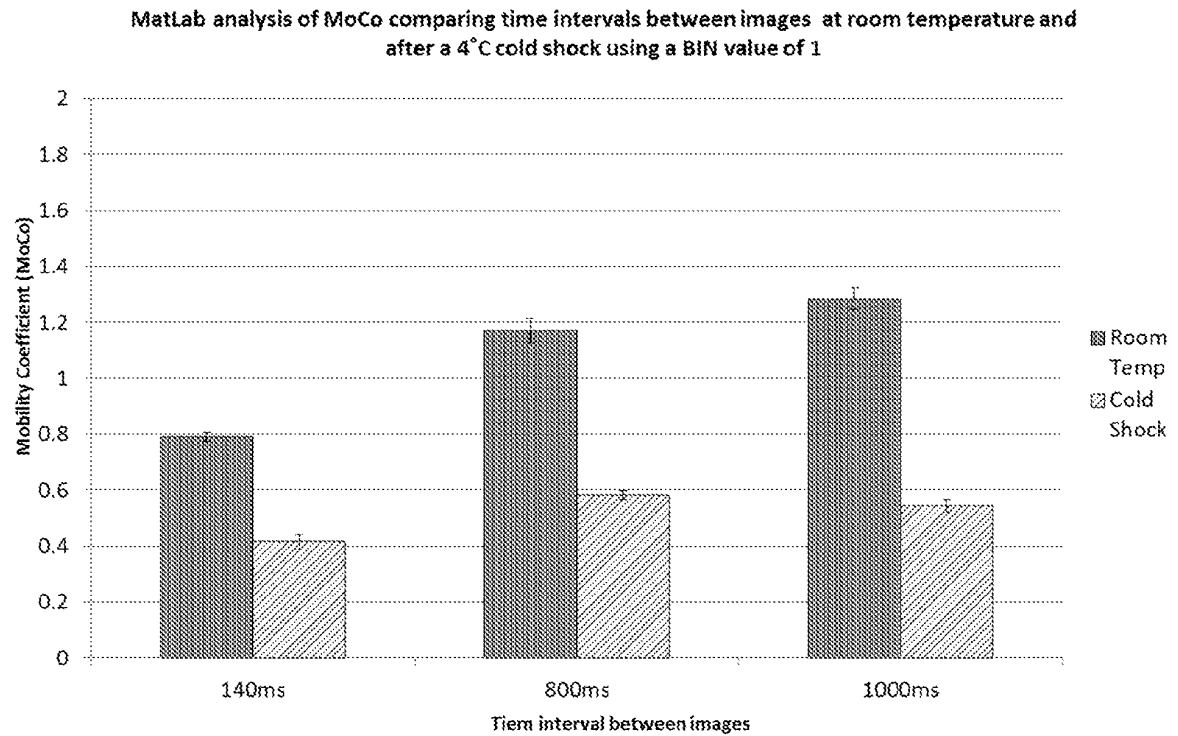


Figure 12

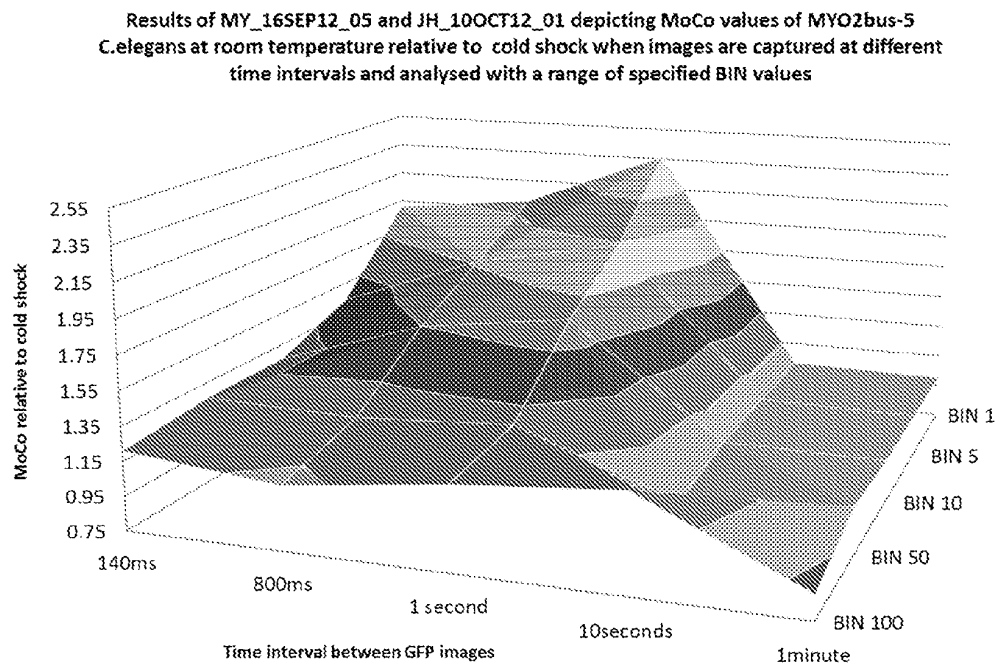


Figure 13

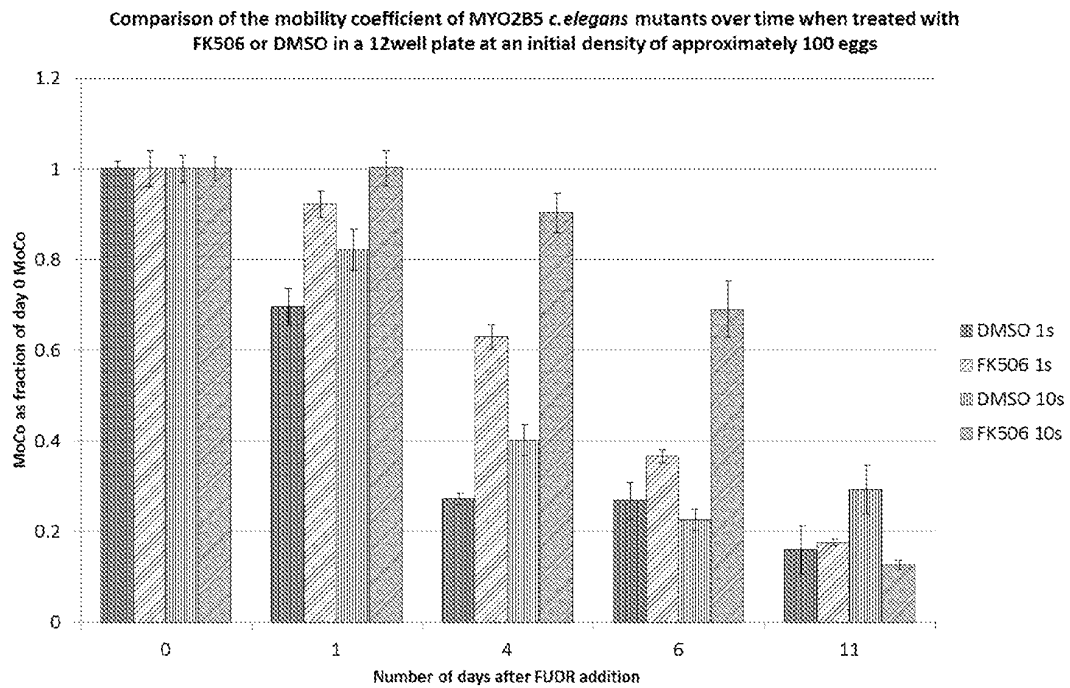
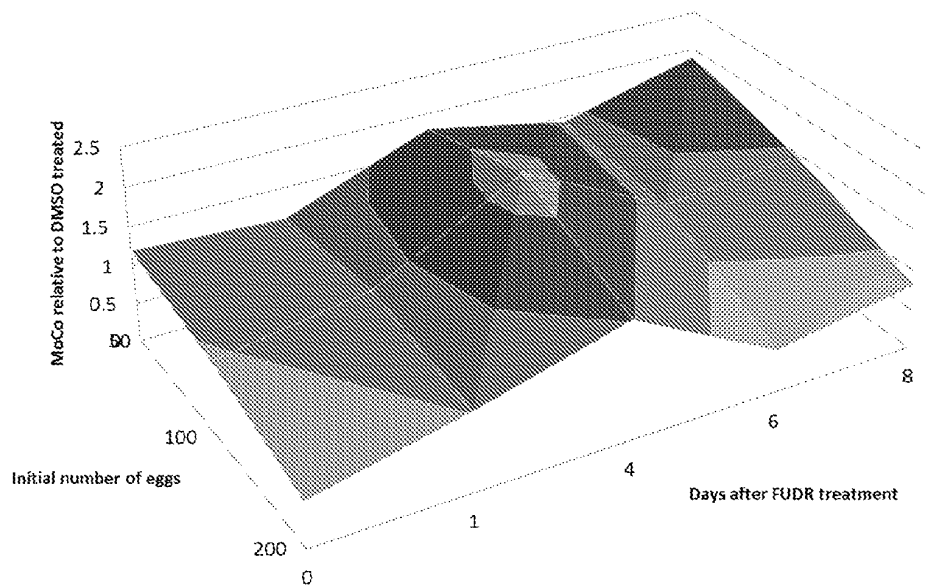


Figure 14

A

Results of JH_01OCT12_01 depicting the MoCo of FK506 treated MYO2bus-5 *C. elegans* relative to mock treated at several different worm densities over a period of 8 days using a time interval of 1 second between images



B

Results of JH_01OCT12_D1 depicting the MoCo of FK506 treated MYO2bus-5 *C.elegans* relative to mock treated at several different worm densities over a period of 8 days using a time interval of 10 seconds between images

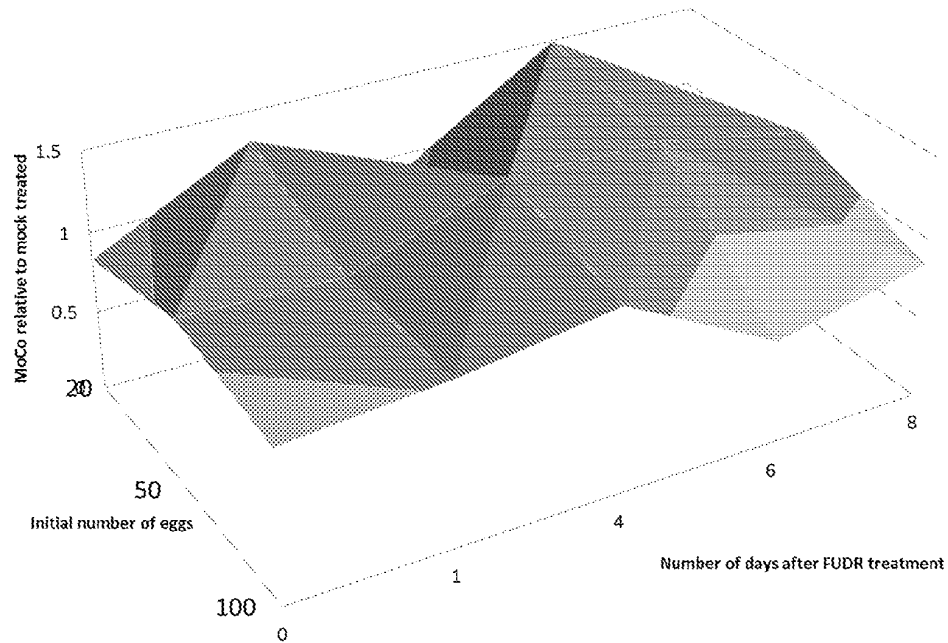


Figure 15

A comparison of the mobility coefficient of FK506 and mock treated MYO2bus-5 mutant *C.elegans* following FUDR treatment at a time interval of 1 second $p=0.01$

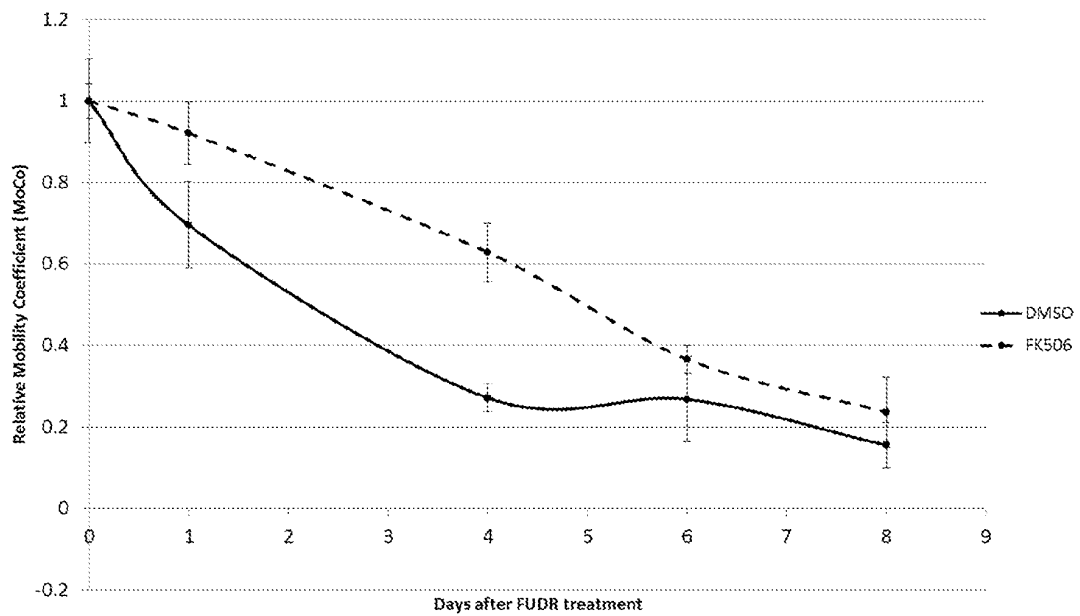


Figure 16

