

Supplemental Material

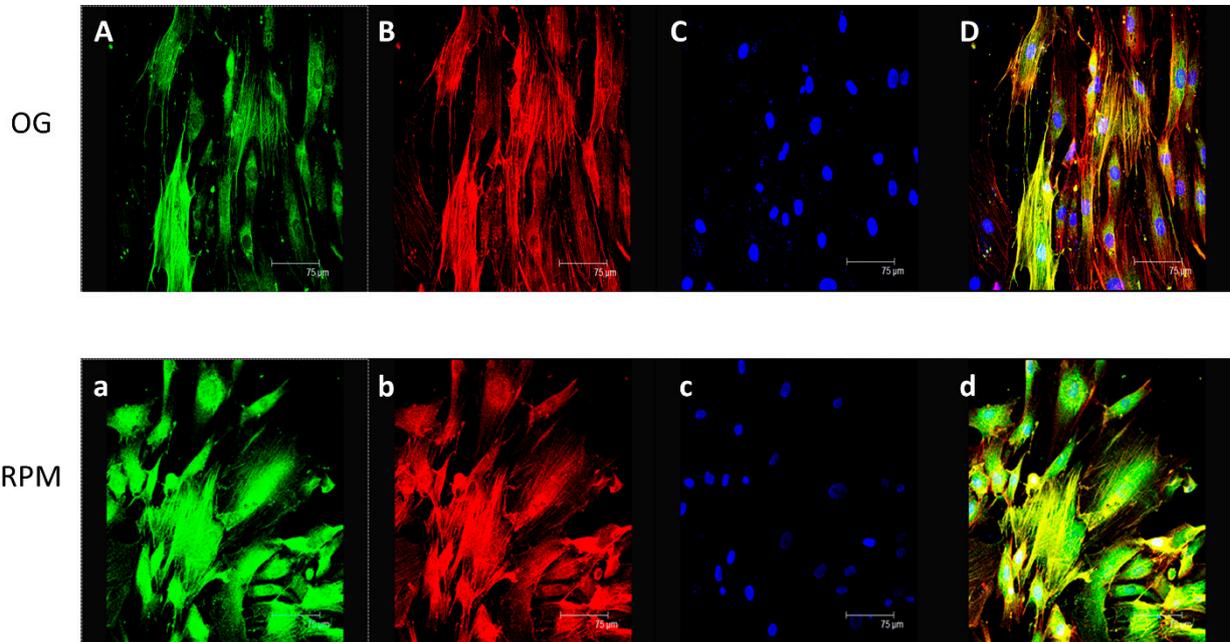


Figure S1. Representative images of colocalization analysis of α -SMA (green) and F-actin (red) in fibroblasts cultured in OG and RPM for 48 hours. It is interesting to note how the fibroblasts after 48h of exposure to microgravity adapt and the α -SMA is distributed as in the control condition. α -SMA is not present in the nucleus of fibroblasts in RPM but co-localizes with the F-actin fibers along the cell membrane (Scale bars 75 μ m).

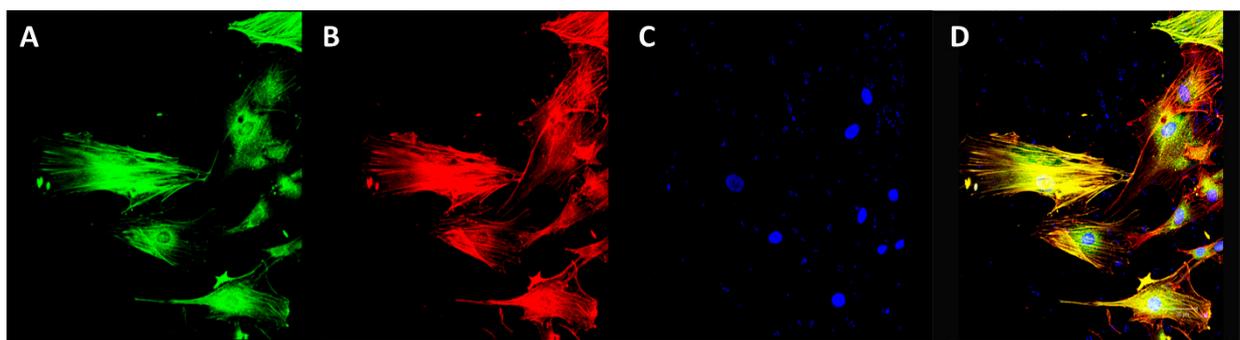


Figure S2. Representative images of colocalization analysis of α -SMA (green) and F-actin (red) in fibroblasts cultured in RPM for 24 hours and then transferred into a normal gravitational field for further 24 hours (Recovery condition). (A): α -SMA distribution is shown; α -SMA recovers almost completely the distribution pattern observed in 1g cultured cells. (B): F-actin organization; (C): colocalization analysis of F-actin and α -SMA, the colocalization (green and red bars) is shown. Colocalization in recovery condition appears as observed in OG condition.

RECOVERY

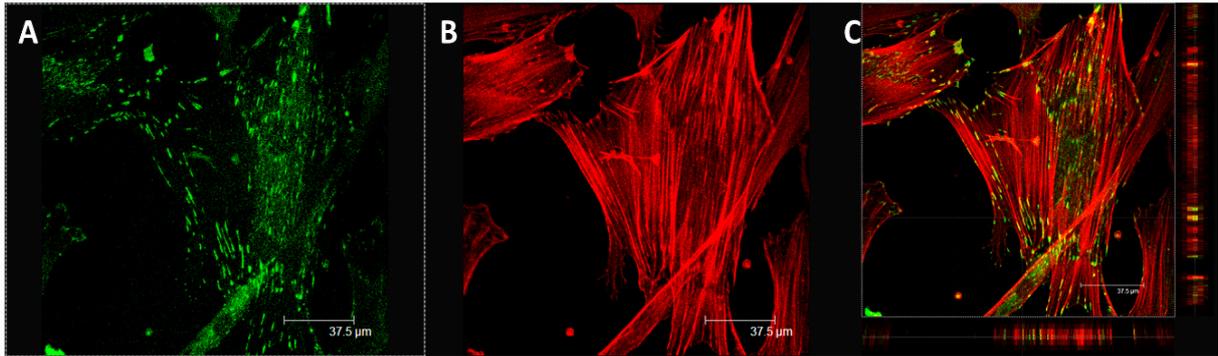


Figure S3. Representative images of colocalization analysis of vinculin (green) and F-actin (red) in fibroblasts cultured in RPM for 24 hours, then transferred into a normal gravitational field for further 24 hours (Recovery condition). **(A)**: vinculin distribution is shown; vinculin recovers almost completely the distribution pattern observed in *1g* cultured cells. **(B)**: F-actin organization; **(C)**: colocalization analysis of F-actin and vinculin., the colocalization (green and red bars) is shown. Colocalization in recovery condition appears in focal contacts as observed in OG condition. Scale bars 37,5 μm.