

Figure S2

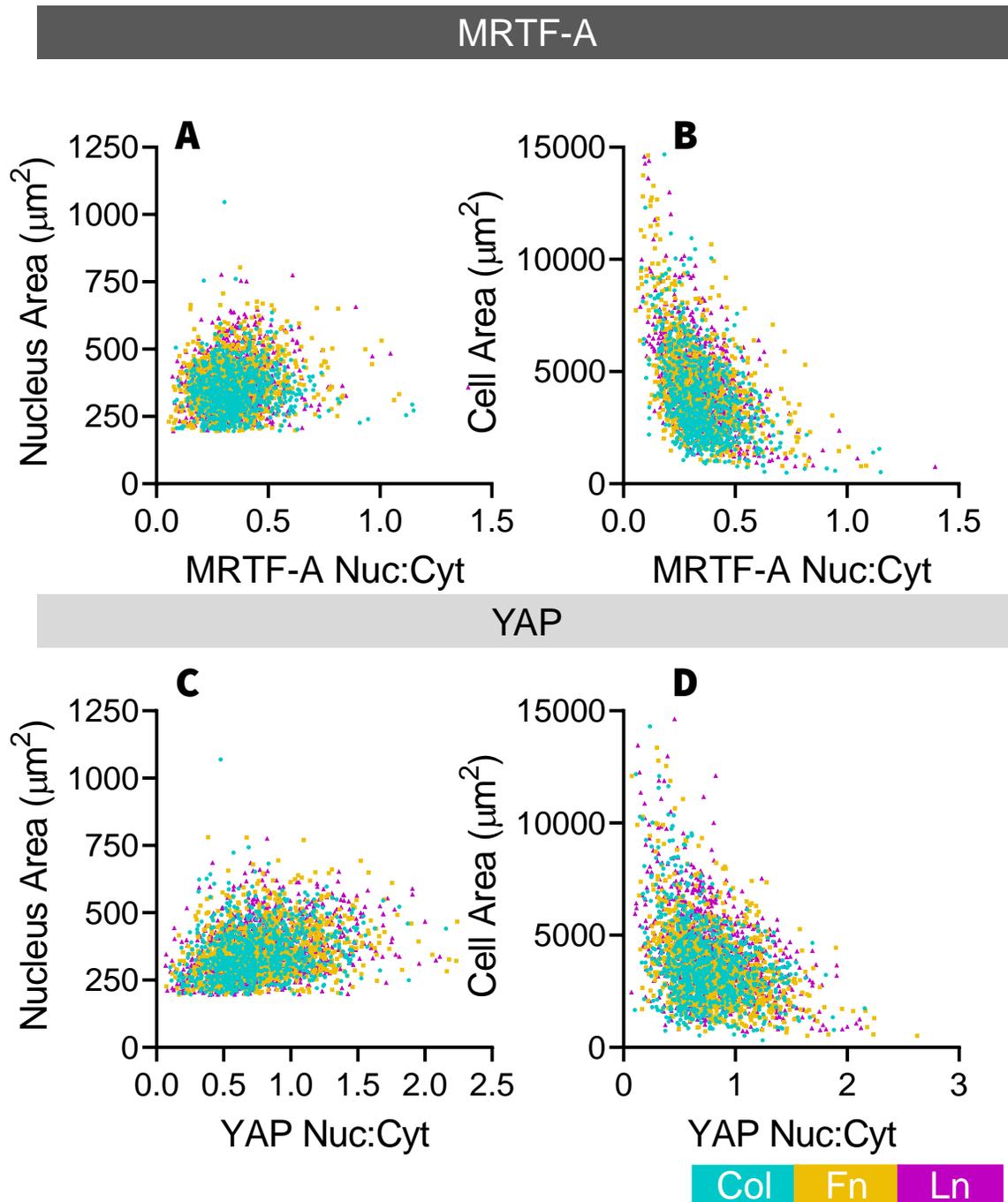


Figure S2. Relationship between mechanomarker localization and cell morphology. MRTF-A and YAP localization was compared to nuclear area and cell area. **A)** No discernable trends were observed between nuclear area and MRTF-A localization, but a weak correlation can be detected between nuclear-MRTF-A localization and increasing nuclear area in Fn and Ln coated hydrogels, but not Col coated hydrogels (Pearson's correlation, Col- $R^2=0.002$, $P>0.05$, $n=4$; Fn- $R^2=0.01$, $P<0.05$, $n=4$; Ln- $R^2=0.14$, $P<0.05$, $n=4$). **B)** Conversely, a weak negative relationship can be observed between the nuclear localization of MRTF-A and cell area (Pearson's correlation, Col- $R^2=0.002$, $P>0.05$, $n=4$; Fn- $R^2=0.01$, $P<0.05$, $n=4$; Ln- $R^2=0.14$, $P<0.05$, $n=4$). The same trends can be seen between YAP and **C)** nuclear size (Pearson's correlation, Col- $R^2=0.03$, $P<0.05$, $n=4$; Fn- $R^2=0.04$, $P<0.05$, $n=4$; Ln- $R^2=0.08$, $P<0.05$, $n=4$) and **D)** cell size (Pearson's correlation, Col- $R^2=0.10$, $P<0.05$, $n=3$; Fn- $R^2=0.13$, $P<0.05$, $n=3$; Ln- $R^2=0.17$, $P<0.05$, $n=4$), whereby YAP becomes increasingly nuclear localized with increasing nucleus size and decreasing cell size.