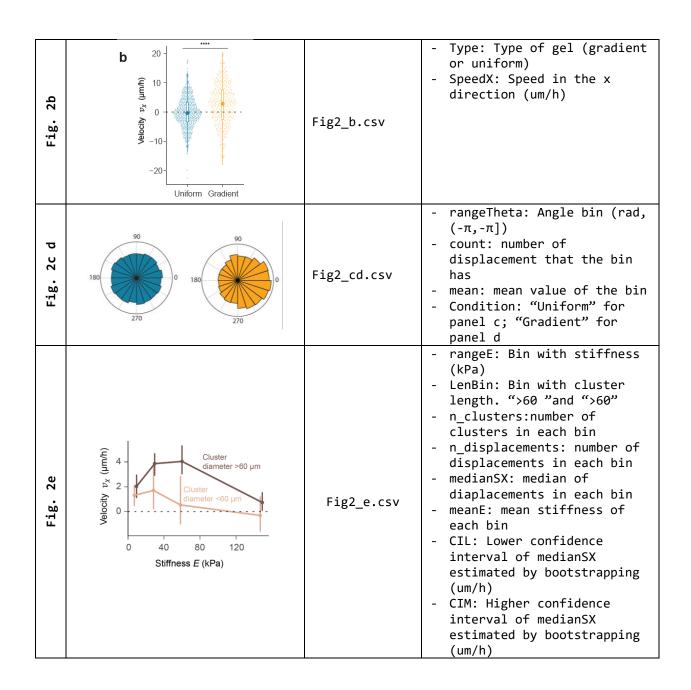
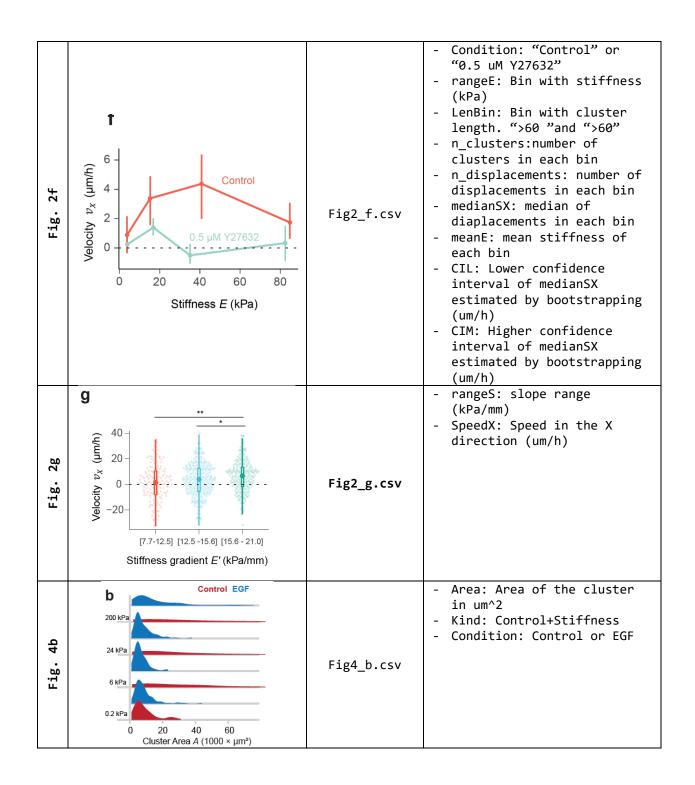
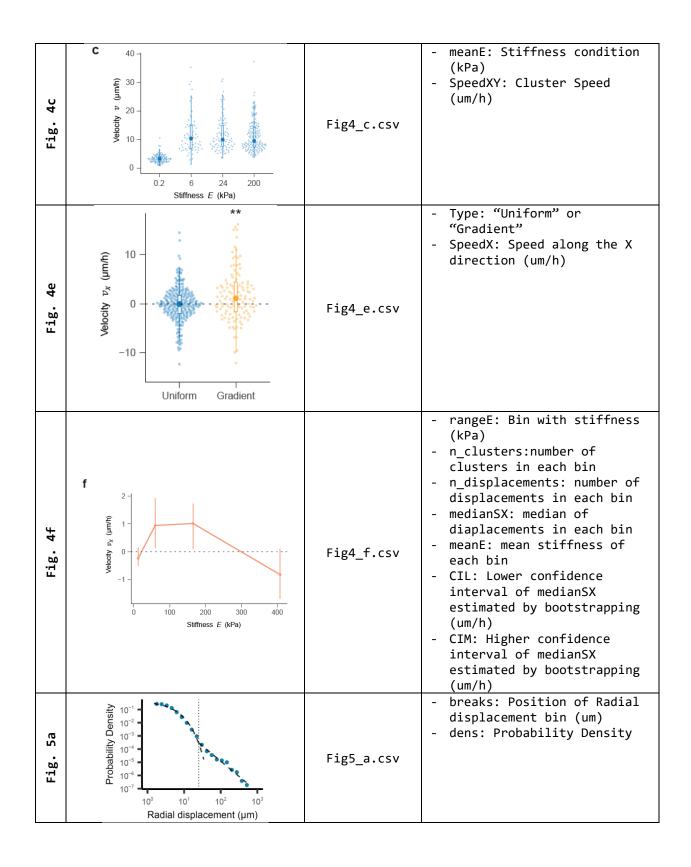
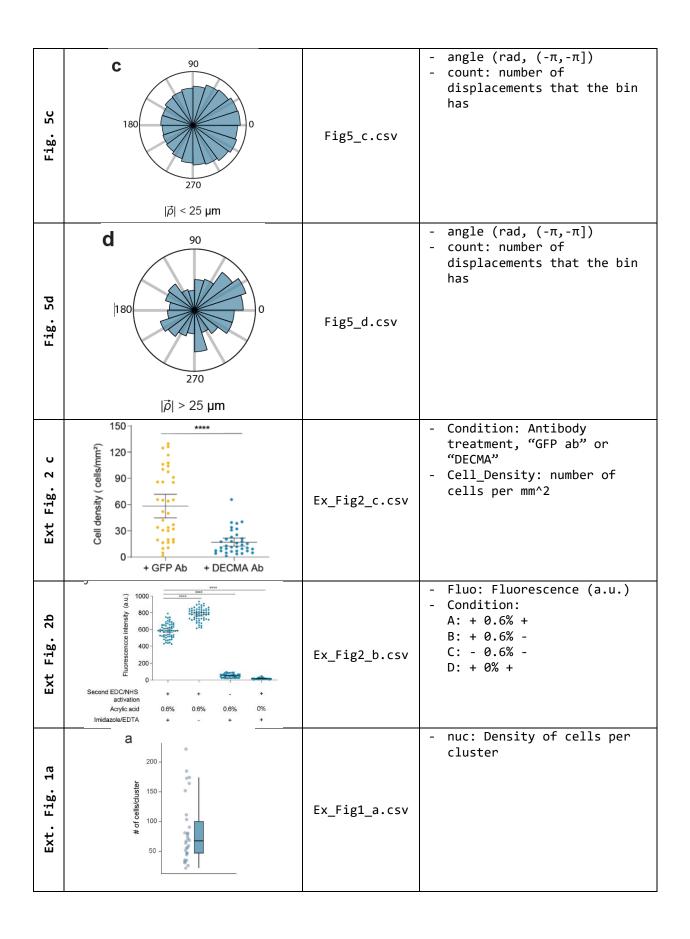
Data Repository

Figure	<u>Graph</u>	<u>Dataset</u>	<u>Data Dictionary</u>
Fig. 1d	(m) 30 - (m) 10 - (m)	Fig_1d.csv	- meanE: Gel stiffness in kPa - SpeedXY: Cluster speed modulus (um/h)
Fig. 1e	e 180 - 135 - 135 - 100 Stiffness E (kPa)	Fig_1e.csv	- meanE: Gel stiffness in kPa - diamAZ: Cluster diameter in um - ContactAngle: Comtact angle (º)
Fig. 1i	Luction Tr, 20 - 6 kPa 15 Distance from edge Δr (μm)	Fig_1i.csv	 DistRadial:Distance from the edge (um) meanTracR: Radial Traction (Pa) SE:Standard Error meanE: Gel stiffness (kPa)
Fig. 1j	$\begin{array}{c} Taction Total Part of Part of$	Fig_1j.csv	 DistRadial:Distance from the edge (um) meanTracZ: Normal Traction (Pa) SE:Standard Error meanE: Gel stiffness (kPa)









Ext. Fig. 1b	180	Ex_Fig_b.csv	 ContactAngle: Contact angle of each cluster (°) meanE: Stiffness of the gel (kPa) Condition: "Control" or "Y27632"
Ext. Fig. 4 a	Steep Shallow O 1 1 2 3 Distance from soft edge (mm)	Ex_Fig4_a.csv	 xn: Position of the gel in um x: Position of the gel in mm meanE: Mean measured stiffness (kPa) SE: Standard Error of the mean n:number of gels measured
Ext. Fig. 4b	Shallow 10.0 10.0 Steep 10.0 Shallow Distance from soft edge (mm)	Ex_Fig4_b.csv	 ID: Unique ID for each gel Type: "Shallow" or "Steep" x_mm: Position E_kPa: measured stiffness (kPa)
Ext. Fig. 4c	Shallow Steep 1.0 0.8 Shallow Steep 1.0 0.6 0.6 0.6 0.4 0.4 0.2 0.2 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Ex_Fig4_c.csv	 Type: Type of gel (Shallow or Steep) Stiffness: Measured Stiffness (kPa) Fluo: Normalized Fluorescence (a. u.) X: Id:
Ext. Fig. 5	New Year (Num) Na A 1000 100 100 100 100 100 100 100 100	Ex_Fig5.csv	 rangeE: Bin with stiffness (kPa) n_clusters:number of clusters in each bin n_displacements: number of displacements in each bin medianSX: median of diaplacements in each bin meanE: mean stiffness of each bin CIL: Lower confidence interval of medianSX estimated by bootstrapping (um/h) CIM: Higher confidence interval of medianSX estimated by bootstrapping (um/h)

			- Time: Time (min)
Ext. Fig. 6a	a + EGF + Y27632 (ea) 60 - 11 40 40 40 60 Time (min)	Ex_Fig6_a.csv	 Traction: Median Traction Forces (kPa) CIL: Lower Confidence Interval of forces (kPa) CIM: Maximal Confidence Interval of forces (kPa) EGF was added at time=-1.5 min Y27632 was added at time = 20 min
Ext. Fig. 6b	Year (min) FEGF +Y27632 Time (min)	Ex_Fig6b.csv	- Time: Time (min) - Area: Median Area (um^2/1000) - CIL: Lower Confidence Interval of Area (um^2/1000) - CIM: Higher Confidence Interval of Area (um^2/1000)
Ext. Fig. 6g	125 - 100 - 100 - 75 - 25 - Baseline EGF	Ex_Fig6_g.csv	- Condition: "Baseline" or "EGF" - meanTracZ: Mean Traction Z