

**Table S5.** Values of the slopes obtained from the linear regressions and  $R^2$  values for the control and cytochalasin-D-treated cases

Control			Cytochalasin D		
Trajectory	Slope ( $\mu\text{m}/\text{second}$ )	$R^2$	Trajectory	Slope ( $\mu\text{m}/\text{second}$ )	$R^2$
1	0.103	0.987	1	0.1156	0.9166
2	0.1	0.962	2	0.0835	0.9689
3	0.063	0.984	3	0.1057	0.8541
4	0.083	0.997	4	0.0604	0.9511
5	0.088	0.957	5	0.0948	0.9519
6	0.062	0.983	6	0.1462	0.5259
7	0.038	0.861	7	0.1906	0.8485
8	0.084	0.93	8	0.0477	0.9035
9	0.082	0.974	9	0.1055	0.9799
10	0.056	0.987	10	0.0909	0.952
11	0.05	0.976	11	0.2122	0.9872
12	0.113	0.905	12	0.0879	0.9274
13	0.086	0.926	13	0.0955	0.9724
14	0.049	0.991	14	0.1429	0.8929
15	0.106	0.956	15	0.1627	0.9302
Mean	0.078		Mean	0.116	
s.d.	0.023		s.d.	0.046	

Group	Mean	s.d.	$n$	df	$t^*$	$P$
Control	0.076	0.023	15	14	2.889063	0.006
Cyt D	0.116	0.046	15			