Table S2. Effect of paclitaxel on wild-type microtubule dynamics

	Paclitaxel (nM)					
Parameter	0	1	3	10	30	50
Growth						
Rate (μm/min)	16.0 ± 0.8	13.0 ± 1.2*	9.9 ± 0.7*	10.0 ± 0.6*	10.8 ± 0.5*	9.8 ± 0.8* (61)
Duration (sec)	12.0 ± 1.1	8.0 ± 0.6*	6.6 ± 0.6*	6.2 ± 0.4*	7.4 ± 0.9*	5.7 ± 0.6* (48)
Distance (μm)	3.3 ± 0.4	1.8 ± 0.2*	1.1 ± 0.2*	1.1 ± 0.1*	1.3 ± 0.2*	0.9 ± 0.1* (27)
Shortening						
Rate (μ/min)	28.7 ± 2.3	20.7 ± 1.5*	13.7 ± 0.9*	12.2 ± 1.2*	11.2 ± 0.6*	9.4 ± 0.5* (33)
Duration (sec)	10.9 ± 1.0	8.3 ± 0.7	5.9 ± 0.3*	7.3 ± 0.8*	6.3 ± 0.5	5.5 ± 0.3* (50)
Distance (μm)	5.1 ± 0.5	2.8 ± 0.3*	1.3 ± 0.1*	1.6 ± 0.4*	1.3 ± 0.2*	0.9 ± 0.1* (18)
Frequency (min^{-1})						
Catastrophe	1.5 ± 0.1	2.4 ± 0.3*	1.8 ± 0.3	1.7 ± 0.3	1.2 ± 0.2	1.8 ± 0.3 (120)
Rescue	6.5 ± 0.5	7.3 ± 0.4	10.0 ± 0.7*	8.0 ± 1.0	8.8 ± 1.0*	9.8 ± 1.2* (151)
Percentage of time						
Growing	30.6 ± 2.3	22.1 ± 1.7*	14.4 ± 2.0*	16.5 ± 3.0*	14.6 ± 2.6*	9.5 ± 1.5* (31)
Shortening	20.3 ± 1.8	23.7 ± 3.0	15.0 ± 2.4	15.6 ± 2.4	11.0 ± 2.1*	12.3 ± 2.5* (61)
Pausing	49.0 ± 3.0	54.2 ± 4.4	70.5 ± 4.0*	67.9 ± 5.0*	74.5 ± 3.3*	78.2 ± 3.4* (160)
Dynamicity (μm/min)	8.8 ± 0.8	7.7 ± 1.0	3.5 ± 0.6*	3.9 ± 0.9*	2.8 ± 0.4*	2.4 ± 0.3* (27)
Microtubules measured	33	15	10	15	15	10

Values represent the mean ± standard error.
Numbers in parentheses are percent of control (untreated wild-type cells).
Catastrophe: the transition from either growth or pause phase to shortening phase.
Rescue: the transition from shortening phase to either growth or pause phase.
Dynamicity: the total length change of individual microtubule during life history.
* $p < 0.05$ compared to cells at 0 concentration of paclitaxel.