Table 1

Estimated catastrophe frequencies of the microtubules at the cortex

	anterior cortex	posterior cortex
control (N2)	0.31 (/s)	0.72 (/s)
apr-1	0.53 (/s)	0.59 (/s)
mom-5	0.20 (/s)	0.44 (/s)
apr-1; mom-5	0.58 (/s)	0.51 (/s)

When catastrophe occurs stochastically with the frequency of λ, the probability distribution of the cortical residency time will be P(t) = λexp(-λt). Therefore, the probability of observing cortical residency time between t1 and t2 will be P(t1~t2) = exp(-λt1) - exp(-λt2). We fitted the experimentally obtained probability distribution of the cortical MT residency time to this equation to estimate the catastrophe frequencies of the MTs at the cortex