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28 and after laser ablation for the spindles at different embryonic cell stages.

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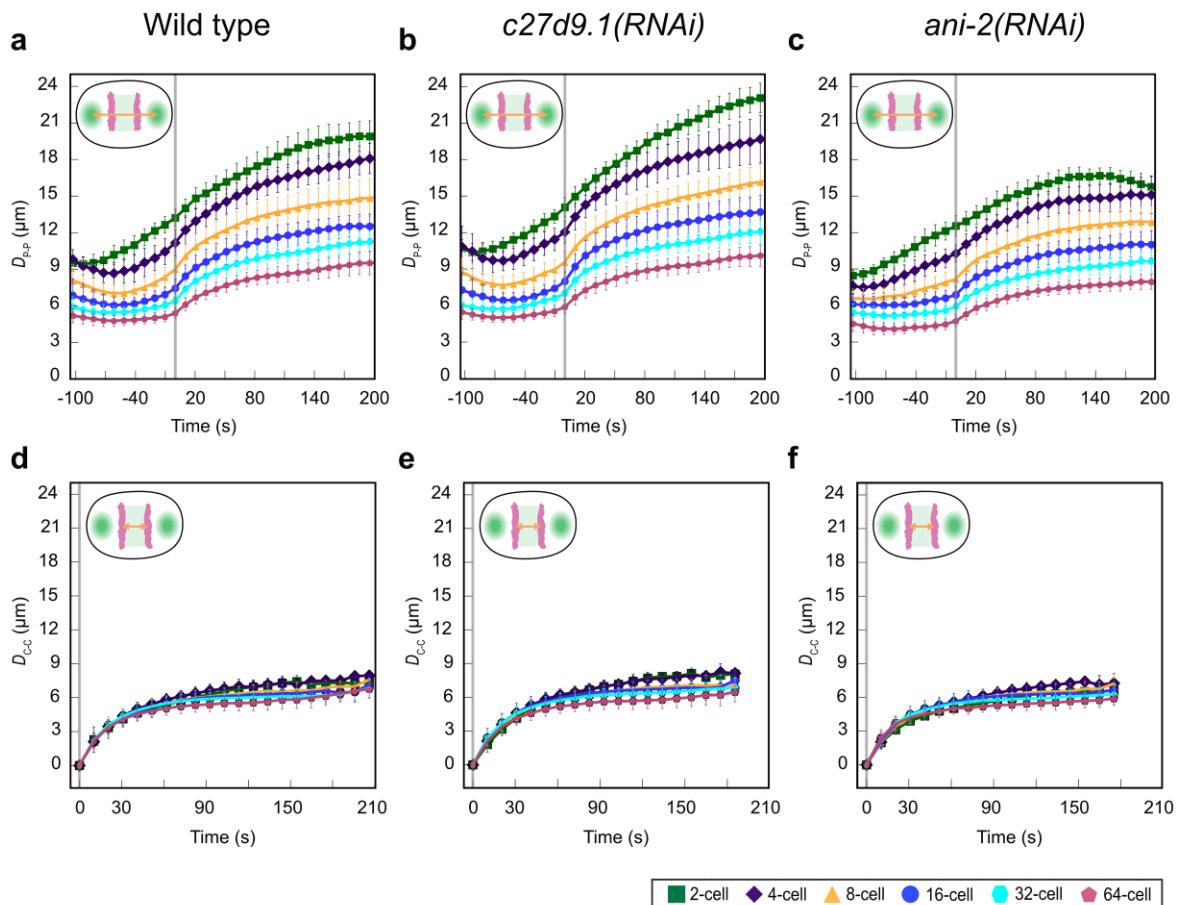
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35 **Figure S1**



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37 **Figure S1| Spindle length and the chromosome dynamics of different embryonic**
 38 **conditions. a-c, Pole-to-pole distance, D_{P-P} , given as a function of time for the wild-type,**
 39 *c27d9.1(RNAi)*, and *ani-2(RNAi)* embryonic conditions, respectively, of different embryonic

40 cell stages. Sample size, n , is indicated in Supplementary Table 1. **d-f, Chromosome-to-**
 41 chromosome distance, D_{C-C} , given as a function of time for the wild-type, *c27d9.1(RNAi)*, and
 42 *ani-2(RNAi)* embryonic conditions of different embryonic cell stages. Sample size(n), is
 43 indicated in Supplementary Table 2. Each cell stage is indicated with a unique color code and
 44 symbol as shown in the plot legend. The inset on the top left of each plot indicates a schematic
 45 of the spindle with the poles in green and chromosomes in magenta, with the orange arrow
 46 showing the measured distances.

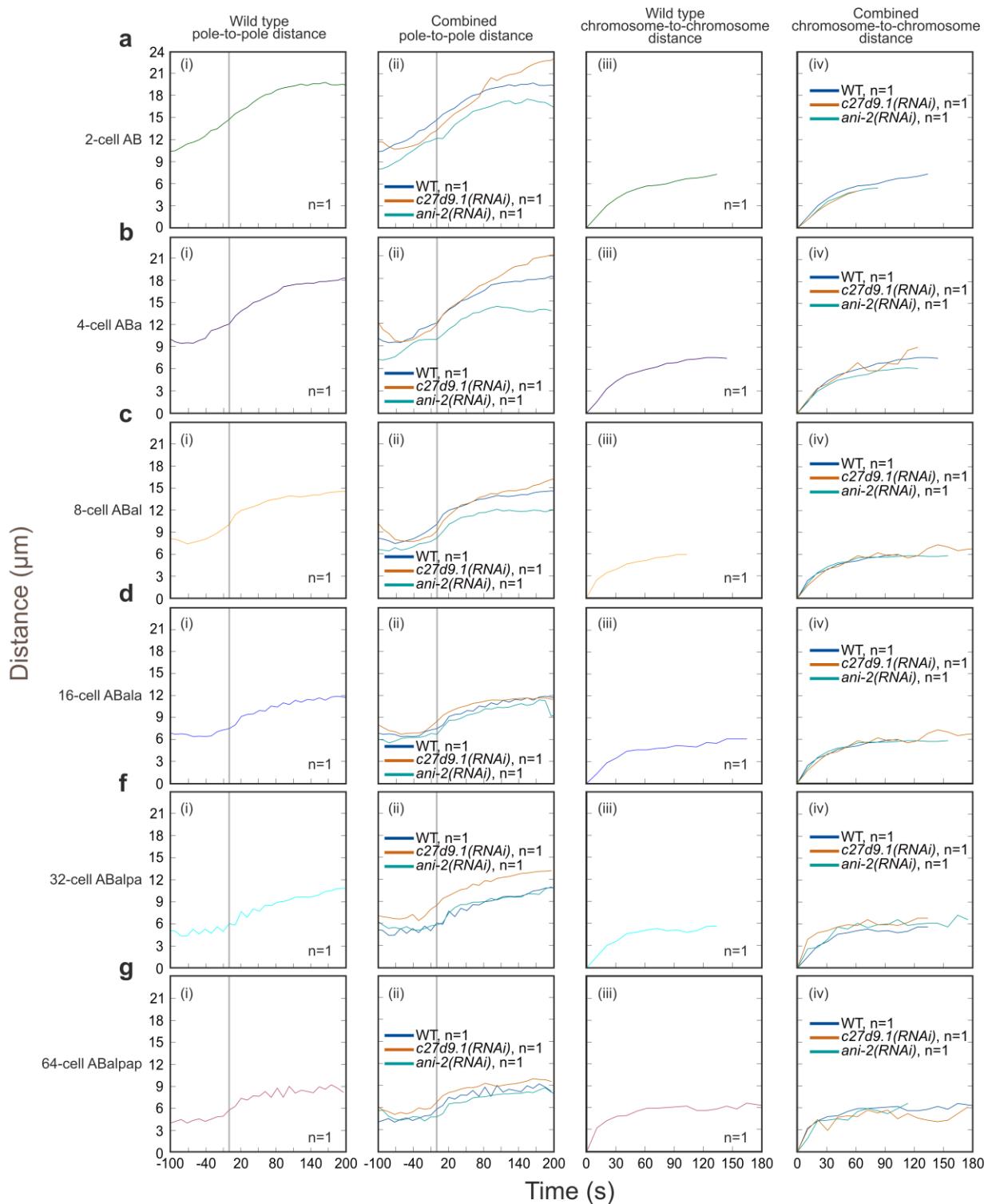
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51 **Figure S2**



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53 **Figure S2| Cell lineage quantitative analysis of spindle dynamics in a single embryo. a(i)-**
 54 **g(i), Wild-type embryo spindle pole-to-pole distance given as a function of time for a 2-cell**
 55 **AB, 4-cell ABa, 8-cell ABal, 16-cell ABala, 32-cell ABalpa, and 64-cell ABalpap. n = 1, for**
 56 **each cell type of each embryonic cell stage. a(ii)-g(ii), Spindle pole-to-pole distance, given as**
 57 **a function of time for the cell types in (a(i)-g(i)), of the wild-type, *c27d9.1(RNAi)* and *ani-***

58 $2(RNAi)$ embryonic conditions ($n = 1$, for each cell type of each embryonic cell stage). **a(iii)-**
59 **g(iii)**, Wild type embryo spindle chromosome-to-chromosome distance given as a function of
60 time for a 2-cell AB, 4-cell ABa, 8-cell ABal, 16-cell ABala, 32-cell ABalpa, and 64-cell
61 ABalpap ($n = 1$, for each cell type of each embryonic cell stage). **a(iv)-g(iv)**, Spindle
62 chromosome-to-chromosome distance, given as a function of time for the cell types in (a(iii)-
63 g(iii)), of the Wild type, $c27d9.1(RNAi)$, and $ani-2(RNAi)$ embryonic conditions ($n = 1$, for
64 each cell type of each embryonic cell stage).

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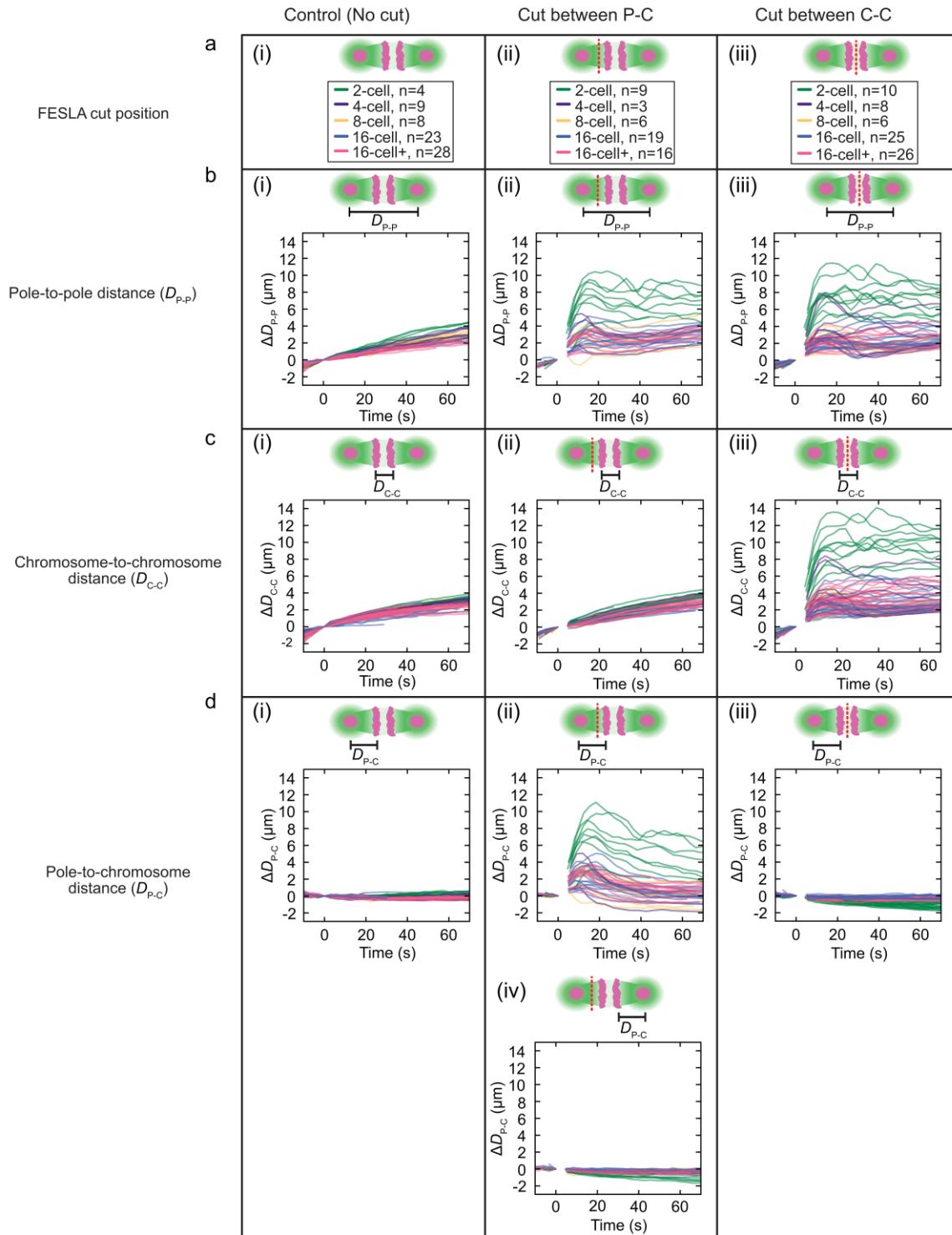
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85 **Figure S3**



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87 **Figure S3| Laser ablation probes different forces in the early *C. elegans* embryo. a,**
88 Schematics illustrating the positions of laser ablation on the mitotic spindle during FESLA
89 experiment, where (i) shows the control when there is no laser cut on the spindle, and the
90 number of sample, n, for spindles in each cell stage with the corresponding color code, (ii)
91 shows the laser cut, in red dash line, between the pole and chromosome of one half of the

92 bipolar spindle, all in magenta, and the number of sample, n, for spindles in each cell stage
93 with the corresponding color code, (iii) shows the laser cut in red dash line, between the
94 chromosomes, in magenta, and the number of sample, n, for spindles in each cell stage with
95 the corresponding color code. The microtubules are shown in green. **b**, Relative pole-to-pole
96 distance, D_{P-P} , to the time of ablation cut at $t = 0$, given as a function of time; showing the (i)
97 control, when there is no laser cut, (ii) dynamics of the spindles at each cell stage when there
98 is a laser cut between the pole and chromosome on the first half of the bipolar spindle, and (iii)
99 dynamics of the spindles at each cell stage when there is a laser cut between the chromosomes.
100 The microtubules are shown in green. The black bar on the spindle schematics indicates the
101 spindle region that is quantified on the corresponding plot. **c**, Relative chromosome-to-
102 chromosome distance, D_{C-C} , to the time of ablation cut at $t = 0$, given as a function of time;
103 showing the (i) control, when there is no laser cut, (ii) dynamics of the spindles at each cell
104 stage when there is a laser cut between the pole and chromosome on the first half of the bipolar
105 spindle, and (iii) dynamics of the spindles at each cell stage when there is a laser cut between
106 the chromosomes. The microtubules are shown in green. The black bar on the spindle
107 schematics indicates the spindle region that is quantified on the corresponding plot. **d**, Relative
108 pole-to-chromosome distance, D_{P-C} , of the first half of the spindle, given as a function of time;
109 showing the (i) control, when there is no laser cut, (ii) dynamics of the spindles at each cell
110 stage when there is a laser cut between the pole and chromosome of first half of the bipolar
111 spindle, and (iii) dynamics of the spindles at each cell stage when there is a laser cut between
112 the chromosomes. (iv) Relative pole-to-chromosome distance, D_{P-C} , of the second half of the
113 spindle, given as a function of time when there is a laser cut between the pole and chromosomes
114 on the first half of the spindle. The microtubules are shown in green. The black bar on the
115 spindle schematics indicates the spindle region that is quantified on the corresponding plot.

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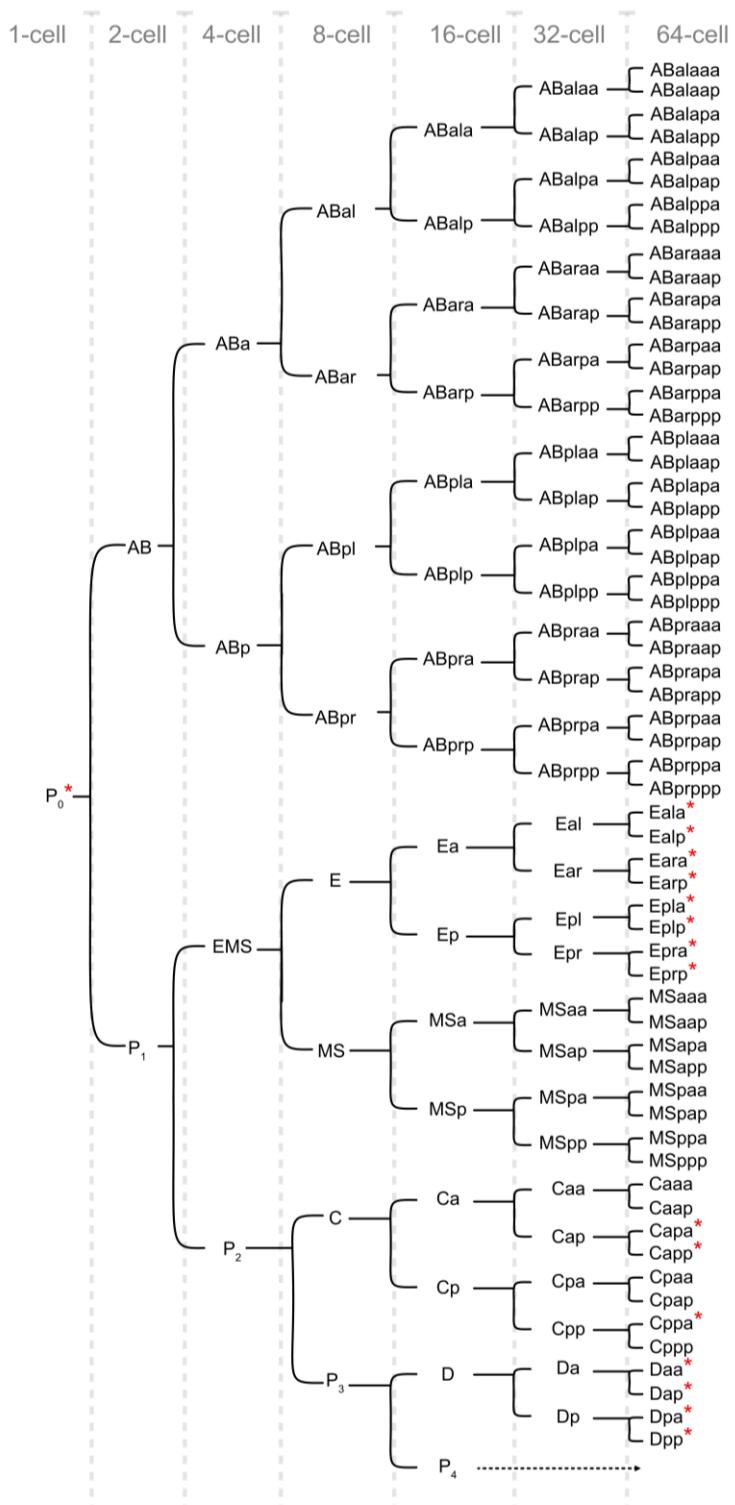
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129 center of the embryo were more challenging to resolve). The 16-cell stage cell, P₄, does not go
130 into division until the 120-cell stage (black dashed arrow).

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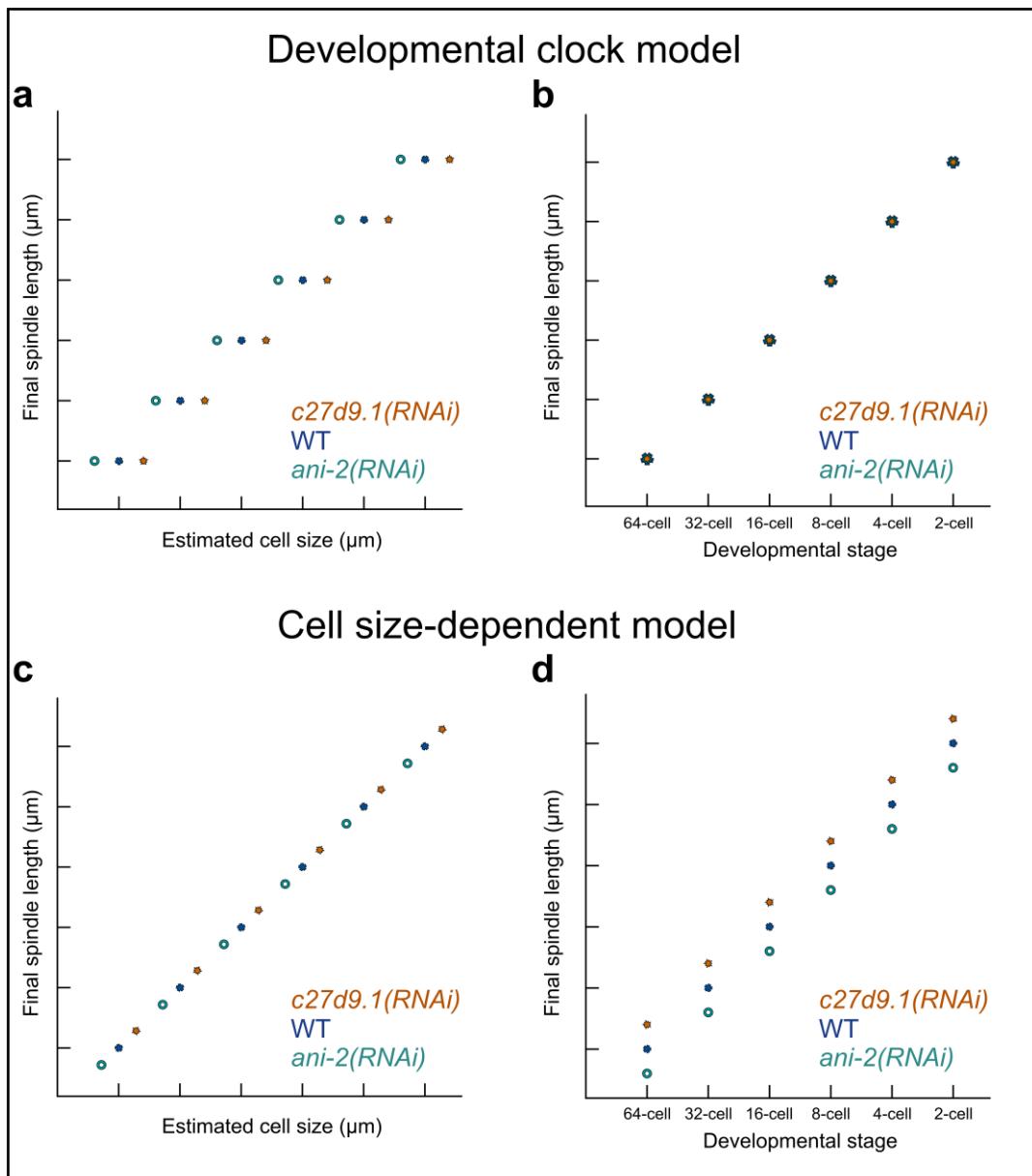
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154 **Figure S5**

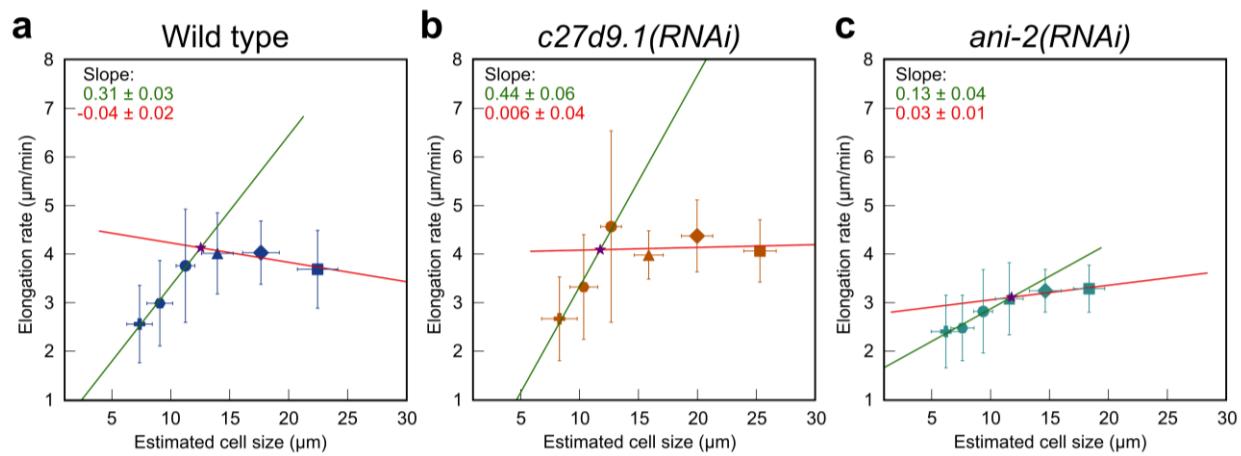
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156 **Figure S5| Models for spindle length dynamics.** **a,b**, Developmental clock model showing
 157 (a) final spindle length as a function of estimated cell size and (b) final spindle length as a
 158 function of developmental stage for three embryonic conditions. **c,d**, Cell size-dependent
 159 model showing (c) final spindle length as a function of estimated cell size and (d) final spindle
 160 length as a function of developmental stage for the same three embryonic conditions. The three
 161 conditions are: wild type, blue; *c27d9.1(RNAi)*, orange; *ani-2(RNAi)*, cyan.

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165 **Figure S6**

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167 **Figure S6| Spindle elongation rate as a function of cell size.** Spindle elongation rates are
 168 plotted against cell size for **a**, wild type; **b**, *c27d9.1(RNAi)*; and **c**, *ani-2(RNAi)* embryos. Each
 169 plot shows a two-piecewise linear regression fit with corresponding slopes. The intersection
 170 point is indicated by a purple star.

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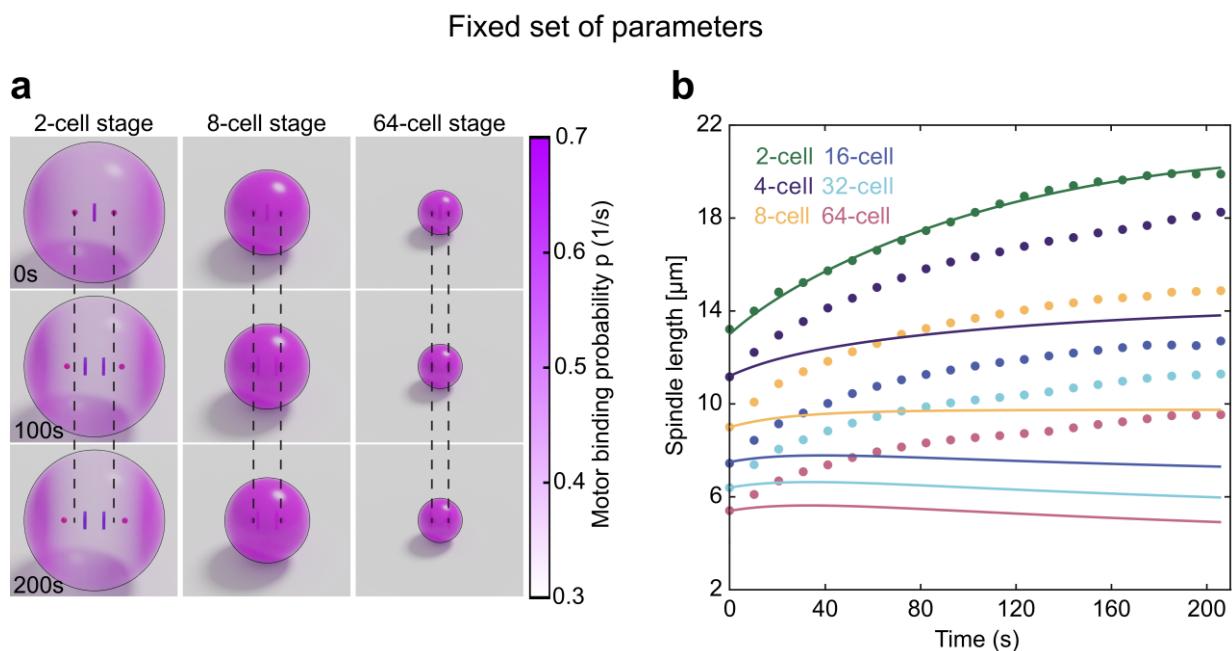
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185 **Figure S7**

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187 **Figure S7| Model simulation for spindle length dynamics.** **a**, Snapshots from simulations of
 188 2-, 8-, and 64-cell stage cells. The binding probability of the motors is shown in pink. Dashed
 189 lines show the initial position of centrosomes. **b**, Spindle length as a function of time for
 190 different cell stages (lines show simulation, and dots indicate experimental measurements). The
 191 time $t=0$ corresponds to the anaphase onset.

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203 **Supplementary movie legends**

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205 **Movie S1:** LLSM movie of *C. elegans* WT embryo from the 2-cell stage to the late embryonic
206 cell stage. The upper panel shows the two-dimensional view of the embryo to visualize the
207 weak chromosome signal, and the lower panel shows the maximum Z-projection view. Time
208 resolution: 10.3 s.

209

210 **Movie S2:** Movie of a 3D segmented and rendered mitotic *C. elegans* embryo in 32-cell stage.
211 The one-frame movie was created using the data from the wide-type embryonic data. It shows
212 the cells at different stages (interphase, prophase, metaphase, and anaphase) during
213 development. The spindles in their corresponding cells are highlighted in green for the
214 centrosomes and magenta for the chromosomes.

215

216 **Movie S3:** LLSM movie of *C. elegans ani-2(RNAi)* embryo from the 2-cell stage to the late
217 embryonic cell stage. The upper panel shows the two-dimensional view of the embryo to
218 visualize the weak chromosome signal, and the lower panel shows the maximum Z-projection
219 view. Time resolution: 10.3 s.

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221 **Movie S4:** LLSM movie of *C. elegans c27d9.1(RNAi)* embryo from the 2-cell stage to the late
222 embryonic cell stage. The upper panel shows the two-dimensional view of the embryo to
223 visualize the weak chromosome signal, and the lower panel shows the maximum Z-projection
224 view. Time resolution: 10.3 s.

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226 **Movie S5:** FESLA experiment with a wide-type *C. elegans* embryo. The laser cut between the
227 pole and chromosomes is indicated with two red arrows at t = 0 sec. Scale bar, 10 μ m.

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230 **Supplementary information**

231 Extended supplementary material for the mitotic spindle atlas for Fig. 2. This folder contains
232 subdirectories with datasets quantifying spindle length and chromosome dynamics across all
233 cell types from the 2- to 64-cell stages, for each analyzed embryonic condition (wild type, *ani-*
234 *2(RNAi)*, and *c27d9.1(RNAi)* embryos). Each subfolder includes a spreadsheet summarizing
235 the analyzed results for the corresponding datasets.

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245 **Table S1. P-value for the pole-to-pole elongation derived from the Welch t-test rate for**
 246 **the analyzed embryonic conditions**

Wild type						
	2-cell	4-cell	8-cell	16-cell	32-cell	64-cell
2-cell	1					
4-cell	0.17312239	1				
8-cell	0.18201251	0.920051	1			
16-cell	0.76458859	0.080965	0.0751	1		
32-cell	0.00612913	1.33E-10	1.38E-14	3.41E-10	1	
64-cell	0.00010947	3.46E-15	1.48E-23	1.62E-21	4.69E-08	1
n	15	33	70	135	213	279
<i>c27d9.1(RNAi)</i>						
2-cell	1					
4-cell	0.243987	1				
8-cell	0.714287	0.014885	1			
16-cell	0.094467	0.422763	0.005316	1		
32-cell	0.007267	3.83E-08	1.51E-09	3.10E-08	1	
64-cell	7.57E-05	9.05E-14	1.22E-31	9.56E-16	2.76E-10	1
n	10	29	58	102	180	208
<i>ani-2(RNAi)</i>						
2-cell	1					
4-cell	0.001966	1				
8-cell	1.92E-08	2.56E-10	1			
16-cell	8.61E-09	1.56E-17	3.83E-19	1		
32-cell	3.50E-09	4.55E-21	4.18E-36	7.10E-33	1	
64-cell	1.68E-09	1.30E-23	1.88E-45	1.46E-72	4.80E-55	1
n	8	30	62	107	157	148

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249 **Table S2. P-value for the chromosome-to-chromosome segregation rate derived from**
 250 **the Welch t-test rate for the analyzed embryonic conditions**

Wild type						
	2-cell	4-cell	8-cell	16-cell	32-cell	64-cell
2-cell	1					
4-cell	0.80017772	1				
8-cell	0.93054264	0.634831	1			
16-cell	0.89190577	0.18432	0.452379	1		
32-cell	0.37002153	0.000208	0.00115	0.000597	1	
64-cell	0.5083043	0.001862	0.009554	0.009784	0.232402	1
n	17	30	65	130	206	263
<i>c27d9.1(RNAi)</i>						
2-cell	1					
4-cell	0.01236	1				
8-cell	0.000853	0.193446	1			
16-cell	4.16E-06	0.001115	0.033454	1		
32-cell	1.48E-06	3.53E-06	0.001017	0.672624	1	
64-cell	0.000103	0.010033	0.334798	0.092195	0.000827	1
n	11	26	52	98	174	204
<i>ani-2(RNAi)</i>						
2-cell	1					
4-cell	0.007965	1				
8-cell	0.002069	0.687348	1			
16-cell	1.27E-05	0.003707	0.002827	1		
32-cell	1.37E-07	4.79E-07	1.34E-08	0.002517	1	
64-cell	1.32E-09	1.72E-08	1.16E-09	8.47E-05	0.140927	1
n	8	31	62	113	148	126

252 Table S3. Summary of the *C. elegans* mitotic spindle dynamics parameters

Wild type						
	2-cell	4-cell	8-cell	16-cell	32-cell	64-cell
Cell volume (μm³)	11337.00 ± 2597.08	5499.32 ± 1455.04	2715.33 ± 784.27	1423.68 ± 302.11	745.53 ± 268.61	397.08 ± 175.15
Estimated cell size (μm)	22.46	17.65	13.95	11.25	9.07	7.35
Error propagation	1.72	1.56	1.34	0.80	1.09	1.08
Initial pole-to-pole distance (μm)	7.38 ± 1.91	8.38 ± 0.87	7.01 ± 0.86	5.87 ± 1.13	5.20 ± 0.65	4.67 ± 0.44
Final pole-to-pole distance (μm)	20.46 ± 1.52	17.91 ± 1.43	14.57 ± 1.47	12.44 ± 0.89	11.01 ± 0.76	9.29 ± 0.88
Final chromosome-to-chromosome distance (μm)	6.89 ± 0.73	7.14 ± 0.53	6.54 ± 0.65	6.33 ± 0.61	6.10 ± 0.56	5.6 ± 0.67
Metaphase pole-to-pole distance (μm)	13.27 ± 0.77	11.27 ± 1.06	9.13 ± 0.86	7.66 ± 0.67	6.78 ± 0.43	5.71 ± 0.36
Elongation rate of poles (μm/min)	3.69 ± 0.80	4.03 ± 0.65	4.01 ± 0.84	3.76 ± 1.17	2.99 ± 0.88	2.56 ± 0.80
Segregation speed of chromosomes (μm/min)	13.69 ± 8.90	13.10 ± 3.05	13.49 ± 4.63	14.00 ± 4.06	15.76 ± 5.18	15.20 ± 4.78
<i>ani-2(RNAi)</i>						
Cell volume (μm³)	6195.37 ± 1342.83	3137.68 ± 867.48	1556.91 ± 475.71	822.81 ± 213.12	441.56 ± 171.12	239.37 ± 143.89
Estimated cell size (μm)	18.37	14.64	11.59	9.37	7.61	6.21
Error propagation	1.33	1.35	1.18	0.81	0.98	1.24
Initial pole-to-pole distance (μm)	7.52 ± 0.75	6.67 ± 1.80	6.23 ± 0.83	5.78 ± 0.79	5.01 ± 0.68	4.04 ± 0.43
Final pole-to-pole distance (μm)	16.60 ± 0.67	15.33 ± 1.41	12.93 ± 1.17	11.02 ± 0.91	9.44 ± 0.83	7.83 ± 0.58
Final chromosome-to-chromosome distance (μm)	6.36 ± 0.42	6.72 ± 0.69	6.54 ± 0.58	6.33 ± 0.70	5.93 ± 0.57	5.37 ± 0.52
Metaphase pole-to-pole distance (μm)	12.70 ± 0.89	10.55 ± 0.81	8.50 ± 0.88	7.20 ± 0.69	6.16 ± 0.50	4.91 ± 0.37
Elongation rate of poles (μm/min)	3.29 ± 0.48	3.24 ± 0.44	3.08 ± 0.74	2.82 ± 0.86	2.48 ± 0.68	2.40 ± 0.75
Segregation speed of chromosomes (μm/min)	11.03 ± 1.43	13.23 ± 2.86	13.50 ± 3.13	15.18 ± 4.08	16.88 ± 4.88	17.90 ± 6.24
<i>c27d9.1(RNAi)</i>						
Cell volume (μm³)	16228.51 ± 2647.68	7973.19 ± 1594.60	4000.03 ± 934.68	2037.04 ± 428.12	1111.67 ± 380.67	570.53 ± 311.46
Estimated cell size (μm)	25.32	19.98	15.87	12.68	10.36	8.29
Error propagation	1.38	1.33	1.24	0.89	1.18	1.51
Initial pole-to-pole distance (μm)	8.58 ± 1.07	9.29 ± 1.22	7.51 ± 0.84	6.23 ± 1.14	5.36 ± 0.78	4.87 ± 0.44
Final pole-to-pole distance (μm)	23.72 ± 1.20	19.56 ± 2.02	15.75 ± 1.35	13.45 ± 1.13	11.77 ± 0.83	9.90 ± 0.74
Final chromosome-to-chromosome distance (μm)	7.99 ± 0.53	7.62 ± 0.60	6.87 ± 0.49	6.81 ± 0.78	6.43 ± 0.56	5.78 ± 0.68
Metaphase pole-to-pole distance (μm)	14.16 ± 0.65	12.42 ± 0.98	9.90 ± 0.90	8.26 ± 0.73	7.36 ± 0.43	6.17 ± 0.43
Elongation rate of poles (μm/min)	4.06 ± 0.64	4.37 ± 0.74	3.98 ± 0.50	4.57 ± 1.97	3.32 ± 1.08	2.67 ± 0.86
Segregation speed of chromosomes (μm/min)	11.43 ± 1.81	13.39 ± 2.16	14.23 ± 3.36	15.86 ± 5.92	16.15 ± 4.18	14.75 ± 3.72

254 **Table S4. Mitotic spindle dynamics parameter comparison for different *C. elegans***
 255 **embryonic conditions**

	Dynamic parameters	Slope	p-value of the slope	t-statistic of the slope	R ²
Wild type	Pole-to-pole final distance	0.75 ± 0.03	0.0000214	22.93	0.99
	Chromosome-to-chromosome final distance	0.09 ± 0.02	0.0184743	3.84	0.79
<i>c27d9.1(RNAi)</i>	Pole-to-pole final distance	0.81 ± 0.01	0.0000005	58.94	1.00
	Chromosome-to-chromosome final distance	0.12 ± 0.02	0.0014016	7.88	0.94
<i>ani-2(RNAi)</i>	Pole-to-pole final distance	0.73 ± 0.07	0.0003732	11.11	0.97
	Chromosome-to-chromosome final distance	0.08 ± 0.04	0.1135826	2.02	0.50

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275 **Table S5. Anaphase spindle microtubule quantification for different cell stages**

MT classes	Measurements	8-cell	16-cell	32-cell
All MTs		4094	1696	1937
Interpolar MT	Number of MTs	257	104	124
	Avg. MT length (μm) ± std	3.95 ± 0.75	3.55 ± 0.98	2.97 ± 0.77
Mid-spindle MT	Number of MTs	24	24	30
	Avg. MT length (μm) ± std	1.1 ± 0.6	1.92 ± 0.78	1.28 ± 0.56
KMT	Number of MTs	460	213	295
	Avg. MT length (μm) ± std	2.07 ± 0.5	1.32 ± 0.38	1.32 ± 0.39

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295 **Table S6. Quantification of the poles elongation and the chromosome separation rate**
 296 **during and after laser ablation for the spindles at different embryonic cell stages**

Pole-to-pole: D_{P-P}				
	Stage	$\dot{D}_{P-P(\text{before})}$ ($\mu\text{m/s}$)	$\dot{D}_{P-P(\text{after})}$ ($\mu\text{m/s}$)	$\Delta\dot{D}_{P-P}$ ($\mu\text{m/s}$)
Control 	2-cell	0.077 \pm 0.049 (n=4)	0.062 \pm 0.039 (n=4)	-0.015 \pm 0.020 (n=4)
	4-cell	0.072 \pm 0.015 (n=7)	0.054 \pm 0.021 (n=8)	-0.018 \pm 0.018 (n=7)
	8cell	0.074 \pm 0.028 (n=8)	0.062 \pm 0.040 (n=7)	-0.005 \pm 0.054 (n=7)
	16-cell	0.058 \pm 0.025 (n=11)	0.042 \pm 0.027 (n=13)	-0.014 \pm 0.038 (n=11)
	16-cell+	0.065 \pm 0.036 (n=13)	0.037 \pm 0.021 (n=17)	-0.026 \pm 0.036 (n=13)
Cut btw P-C 	2-cell	0.103 \pm 0.050 (n=7)	0.691 \pm 0.179 (n=8)	0.605 \pm 0.181 (n=7)
	4-cell	0.096 \pm 0.007 (n=2)	0.246 \pm 0.142 (n=3)	0.231 \pm 0.004 (n=2)
	8cell	0.105 \pm 0.043 (n=4)	0.129 \pm 0.189 (n=5)	0.099 \pm 0.096 (n=4)
	16-cell	0.059 \pm 0.026 (n=13)	0.176 \pm 0.082 (n=13)	0.112 \pm 0.083 (n=12)
	16-cell+	0.090 \pm 0.029 (n=7)	0.134 \pm 0.059 (n=11)	0.041 \pm 0.076 (n=7)
Cut btw C-C 	2-cell	0.084 \pm 0.024 (n=10)	0.638 \pm 0.161 (n=10)	0.555 \pm 0.144 (n=10)
	4-cell	0.080 \pm 0.020 (n=8)	0.386 \pm 0.224 (n=8)	0.305 \pm 0.234 (n=8)
	8cell	0.075 \pm 0.016 (n=5)	0.209 \pm 0.115 (n=5)	0.135 \pm 0.124 (n=5)
	16-cell	0.076 \pm 0.035 (n=18)	0.157 \pm 0.091 (n=16)	0.081 \pm 0.092 (n=16)
	16-cell+	0.069 \pm 0.039 (n=18)	0.098 \pm 0.071 (n=18)	0.029 \pm 0.080 (n=18)
Chromosome-to-chromosome: D_{C-C}				
	Stage	$\dot{D}_{C-C(\text{before})}$ ($\mu\text{m/s}$)	$\dot{D}_{C-C(\text{after})}$ ($\mu\text{m/s}$)	$\Delta\dot{D}_{C-C}$ ($\mu\text{m/s}$)
Control 	2-cell	0.122 \pm 0.005 (n=4)	0.074 \pm 0.007 (n=4)	-0.048 \pm 0.005 (n=4)
	4-cell	0.093 \pm 0.025 (n=9)	0.074 \pm 0.018 (n=9)	-0.018 \pm 0.014 (n=9)
	8cell	0.091 \pm 0.018 (n=8)	0.079 \pm 0.024 (n=8)	-0.012 \pm 0.021 (n=8)
	16-cell	0.089 \pm 0.034 (n=20)	0.065 \pm 0.025 (n=20)	-0.014 \pm 0.028 (n=18)
	16-cell+	0.100 \pm 0.028 (n=25)	0.068 \pm 0.022 (n=25)	-0.031 \pm 0.026 (n=25)
Cut btw P-C 	2-cell	0.136 \pm 0.008 (n=7)	0.064 \pm 0.033 (n=9)	-0.081 \pm 0.027 (n=7)
	4-cell	0.090 \pm 0.000 (n=1)	0.039 \pm 0.041 (n=3)	-0.031 \pm 0.000 (n=1)
	8cell	0.129 \pm 0.085 (n=4)	0.054 \pm 0.018 (n=6)	-0.082 \pm 0.076 (n=4)
	16-cell	0.094 \pm 0.035 (n=15)	0.050 \pm 0.022 (n=18)	-0.048 \pm 0.036 (n=15)
	16-cell+	0.118 \pm 0.035 (n=11)	0.035 \pm 0.021 (n=15)	-0.090 \pm 0.037 (n=10)
Cut btw C-C 	2-cell	0.106 \pm 0.022 (n=10)	0.745 \pm 0.187 (n=10)	0.639 \pm 0.182 (n=10)
	4-cell	0.106 \pm 0.017 (n=8)	0.412 \pm 0.210 (n=8)	0.306 \pm 0.204 (n=8)
	8cell	0.098 \pm 0.036 (n=6)	0.235 \pm 0.128 (n=6)	0.137 \pm 0.107 (n=6)
	16-cell	0.093 \pm 0.036 (n=25)	0.149 \pm 0.094 (n=25)	0.056 \pm 0.093 (n=25)
	16-cell+	0.116 \pm 0.030 (n=24)	0.145 \pm 0.083 (n=24)	0.029 \pm 0.081 (n=24)