

Supplementary materials

Systemic changes in cell size throughout the body of *Drosophila melanogaster* associated with mutations in molecular cell cycle regulators

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Tables

Table 1S. The number of flies used for the cell size measurements in legs, wings, eyes, and flight muscles per four genetic groups of *Drosophila melanogaster* (*ric^{tor}^{Δ2}*, control to *ric^{tor}^{Δ2}*, *Mnt¹*, and control to *Mnt¹*) males and females (where applicable).

	Number of observations							
	<i>ric^{tor}^{Δ2}</i>		control to <i>ric^{tor}^{Δ2}</i>		<i>Mnt¹</i>		control to <i>Mnt¹</i>	
	male	female	male	female	male	female	male	female
Epidermal cells in the legs	10	10	10	10	10	10	10	10
Epidermal cells in the wings	10	10	10	10	10	10	10	10
Ommatidial cells in the eyes	10	10	10	10	10	10	10	10
Cells in the flight muscles	12	N/A	10	N/A	11	N/A	9	N/A

Table 2S. Descriptive statistics showing proxy measurements of cell size in legs (μm^2), wings (μm^2), eyes (μm^2) and flight muscles (μm^2) of the four groups of *Drosophila melanogaster* (*rictor*^{*Δ2*}, control to *rictor*^{*Δ2*}, *Mnt*^{*l*}, and control to *Mnt*^{*l*}) male and female (where applicable) flies.

	Pooled data				Mean values per group							
	mean	sd	min	max	<i>rictor</i> ^{<i>Δ2</i>}		control to <i>rictor</i> ^{<i>Δ2</i>}		<i>Mnt</i> ^{<i>l</i>}		control to <i>Mnt</i> ^{<i>l</i>}	
					male	female	male	female	male	female	male	female
Epidermal cells in the legs	413.13	72.64	276.7	718.6	340.83	395.7	408.11	444.03	447.36	503.83	373.3	391.78
Epidermal cells in the wings	166.87	20.17	128.64	217.08	136.2	148.1	158.26	183.63	169.15	197.1	161.58	181
Ommatidial cells in the eyes	243.69	26.88	190.9	291.96	200.65	211.26	237.72	245.26	264.18	282.15	247	261.3
Cells in the flight muscles	311.92	71.02	175.94	500.94	271.99	N/A	308.72	N/A	317.79	N/A	361.54	N/A

Table 3S. (a) Results of the Kruskal–Wallis test for the size of flight muscle cells in four genetic groups of *Drosophila melanogaster*: *rictor*^{Δ2}, control to *rictor*^{Δ2}, *Mnt*¹, and control to *Mnt*¹. (b)

Results of the Wilcoxon test for pairwise comparisons.

a	H	10.16	b		<i>p</i>	
	df	3		control to <i>rictor</i> ^{Δ2} vs. <i>rictor</i> ^{Δ2}	0.557	
	<i>p</i>	0.017		<i>Mnt</i> ¹ vs. <i>rictor</i> ^{Δ2}	0.013	
				control to <i>Mnt</i> ¹ vs. <i>rictor</i> ^{Δ2}	0.011	
				control to <i>rictor</i> ^{Δ2} vs. <i>Mnt</i> ¹	0.557	
				control to <i>Mnt</i> ¹ vs. control to <i>rictor</i> ^{Δ2}	0.422	
				control to <i>Mnt</i> ¹ vs. <i>Mnt</i> ¹	0.555	