

Supplementary Materials

Cell recruitment and the origin of Anterior-Posterior asymmetry in the *Drosophila* wing

Rosalío Reyes^{1,2}, Rafael Rodríguez-Muñoz¹, and Marcos Nahmad^{*1}

¹Department of Physiology, Biophysics, and Neurosciences; Center for Research and
Advanced Studies of the National Polytechnic Institute (Cinvestav-IPN); Mexico City,
07360; MEXICO

²Present Address: Interdisciplinary Polytechnic Unit of Biotechnology of the National
Polytechnic Institute; Mexico City, 07340; MEXICO

*Corresponding author: mnahmad@fisio.cinvestav.mx

List of Figures

S1	Blocking of cell recruitment affects mainly the area of the region L5-M and wing shape also in females	2
S2	Under food-restriction, intervein distances wing shape are unchanged	3

points is increased 4

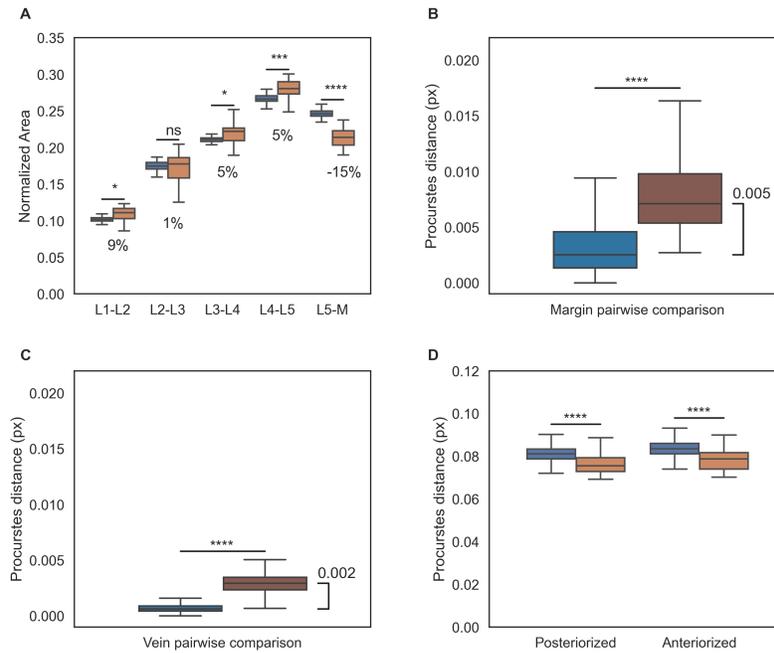


Figure S1: Blocking of cell recruitment affects mainly the area of the region L5-M and wing shape also in females. Equivalent result of Figures 1B(A), Figure 1C (B), Figure 1D (C), and Figure 2B (D), but using wing of female flies. A. Normalized area of each inter-vein region with respect to the total area of the wing. Color coding and additional information as in Figure 1. **B-C.** Procrustes comparison of the Margin landmarks (B) and Vein landmarks (C). **D.** Procrustes comparison for Anteriorized and Posteriorized control and recruitment-impaired wings. Color coding and additional information as in Figure 2. Sample sizes: control wings ($n = 58$), recruitment impaired wings ($n = 21$). A Shapiro test shows that distributions are non-parametric. Thus, a Mann-Whitney U test was conducted. * indicates $p < 0.05$, *** indicates $p < 0.001$ and **** indicates $p < 0.00005$.

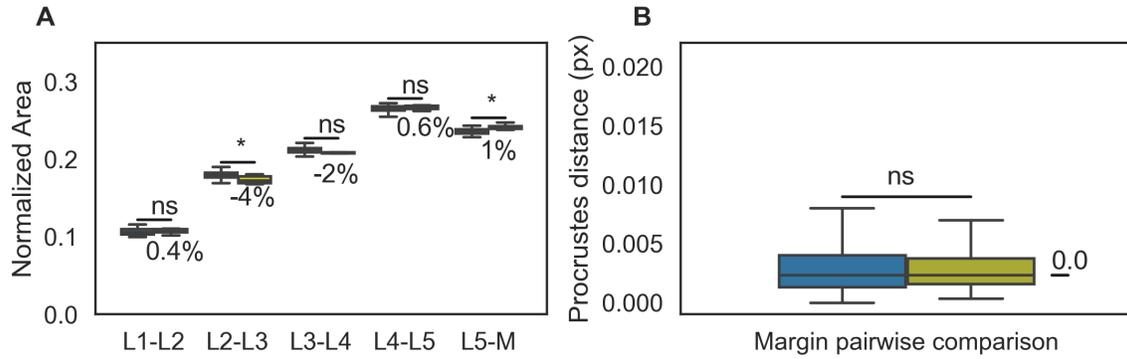


Figure S2: Under food-restriction, intervein distances wing shape are unchanged. A.

Normalized area of each inter-vein region relative to total wing area in control (blue bars, same as in Figure 1B and) with respect to the total area of the wing. Blue: control, Yellow: food-restricted animals (green bars). **B.** Procrustes comparison using the ML. Sample sizes: Control wings ($n = 52$); food-restriction wings ($n = 6$). A Shapiro test shows that distributions are non-parametric. Thus, A Mann Whitney U test was conducted. * indicates $p < 0.05$.

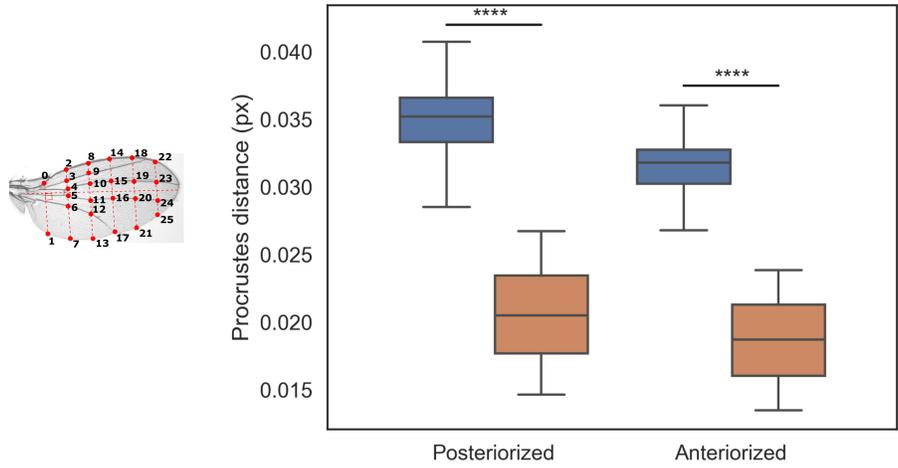


Figure S3: Recruitment-impaired wing exhibit even more AP symmetry when the set of landmark points is increased. Left. A more comprehensive set of landmarks comprised of 26 points. Right. Procrustes comparison each control and recruitment-impaired wings to their Anteriorized and Posteriorized images using the landmarks shown on the left. Color code as in Figure 2B. Sample size for each set is as in Figure 2. A Shapiro test shows that distributions are non-parametric. Thus, a Mann-Whitney test was conducted. **** indicates $p < 0.00005$.

Source codes

Images were processed as described in the Material and Methods section. Here, we provide the hyperlinks to the source codes used in each figure.

1. Source code for Figure 1.
2. Source code for Figure 2.
3. Source code for Figure 3.
4. Source code for Figure 4.