

Supplementary material

The molecular characterization of fixed inversions breakpoints unveils the ancestral character of *Drosophila guanche* chromosomal arrangements

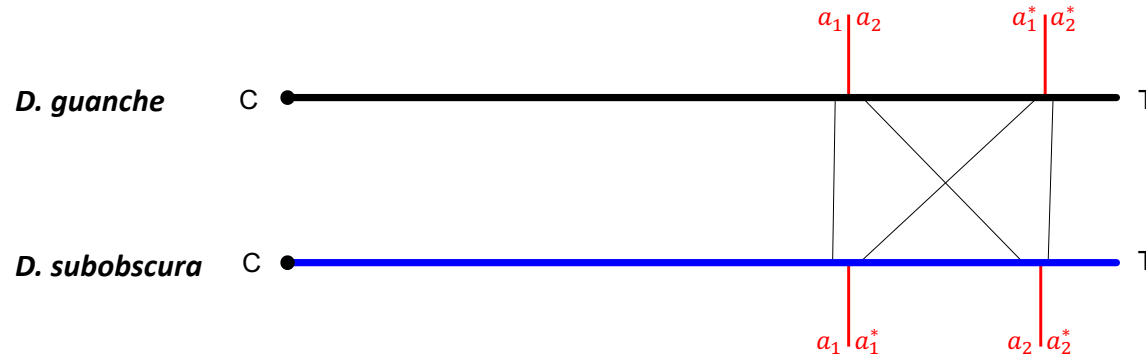
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* These authors contributed equally to this work

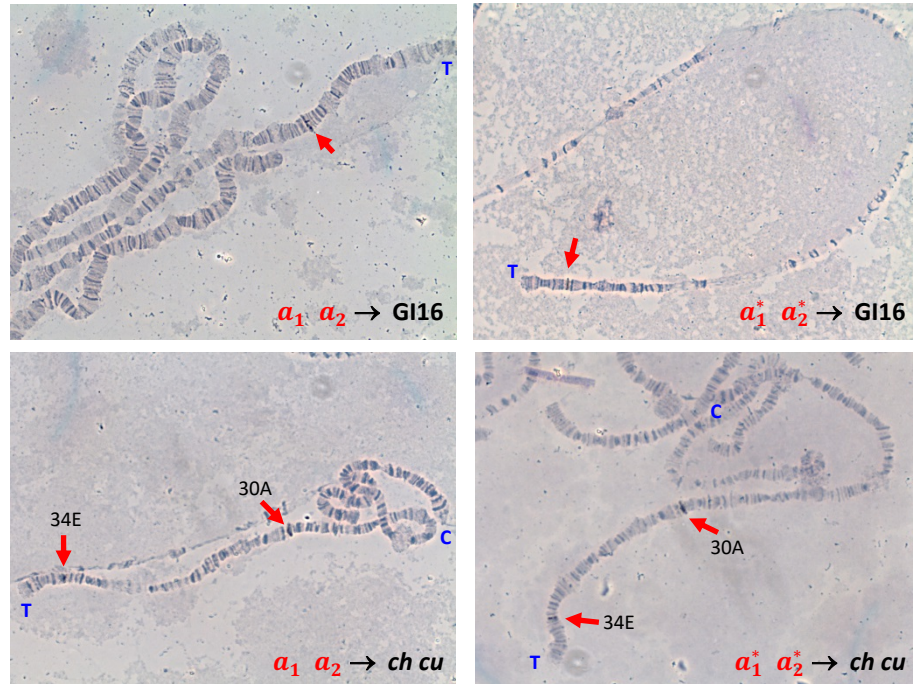
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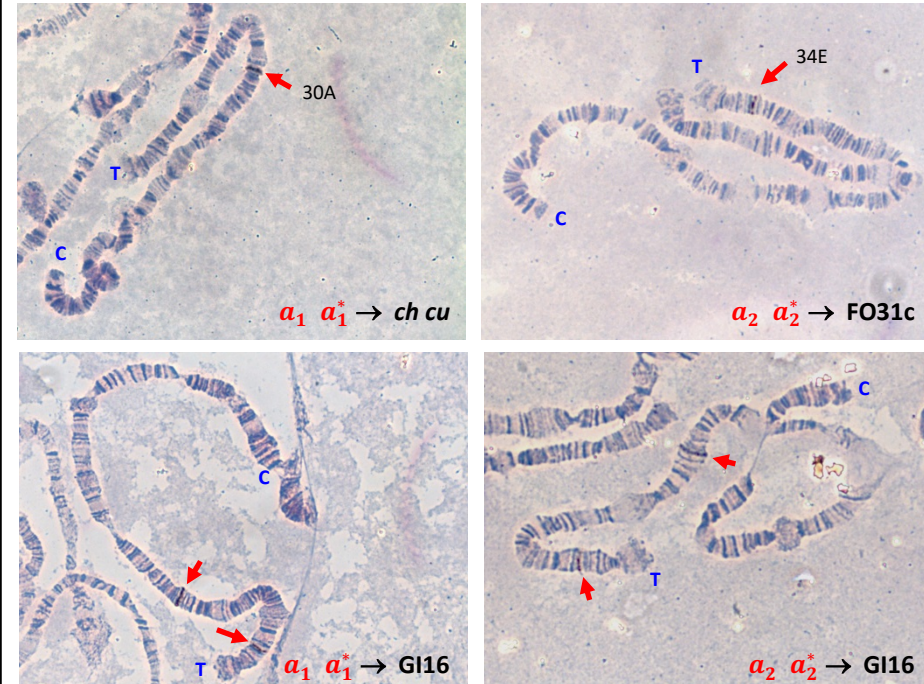
J_f inversion



Probes amplified in *D. guanche*

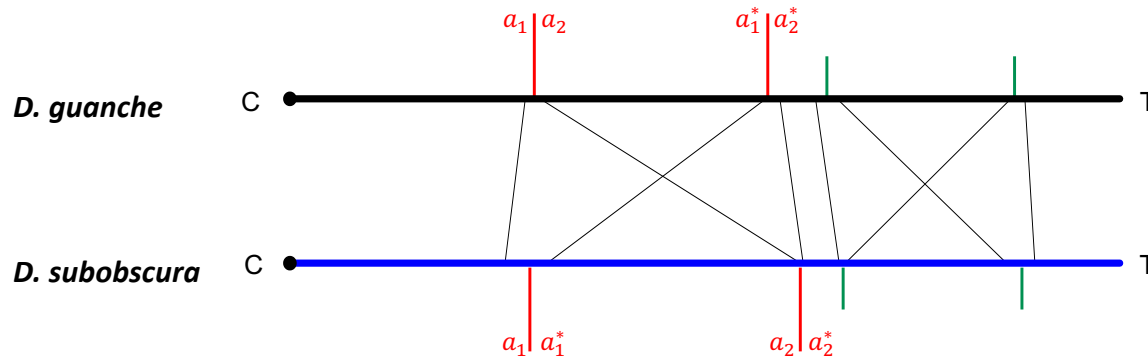


Probes amplified in *D. subobscura*



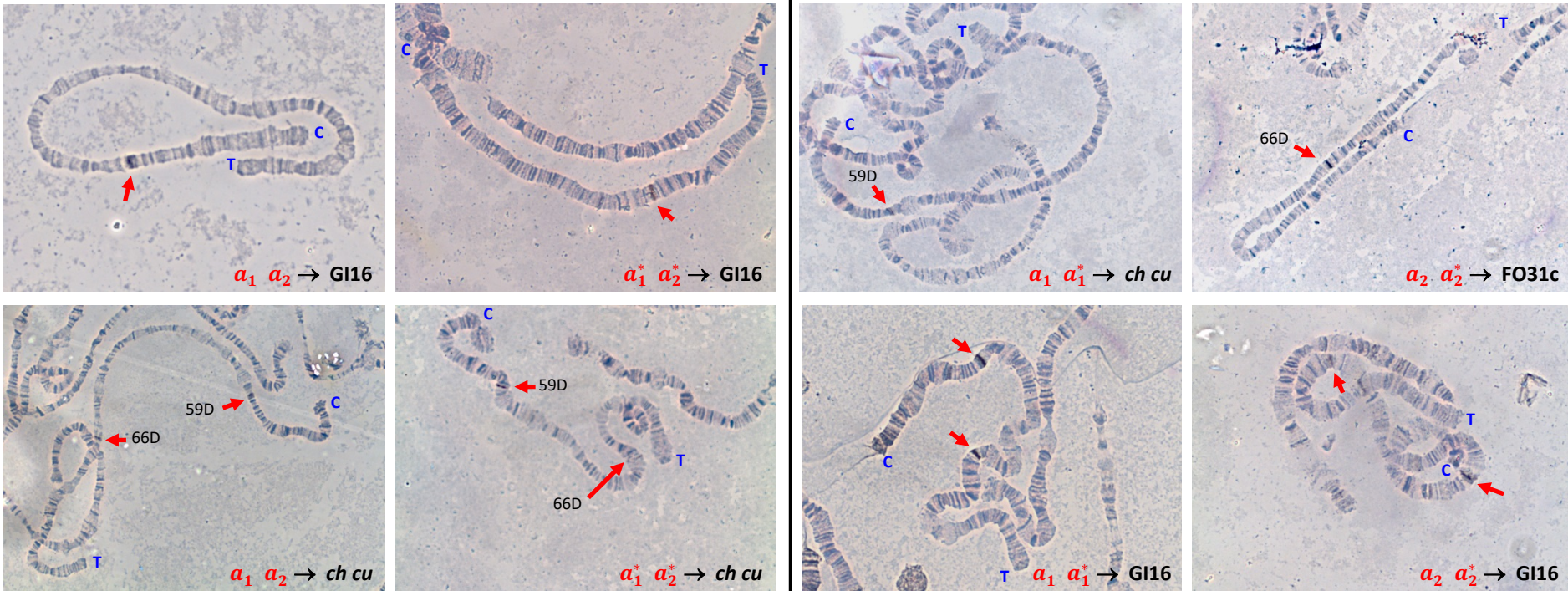
Supplementary Figure S1. *In situ* hybridization results of the J_f inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the J_f inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (Gl_16) and *D. subobscura* (*ch cu* or FO31c) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

E_{f1} inversion



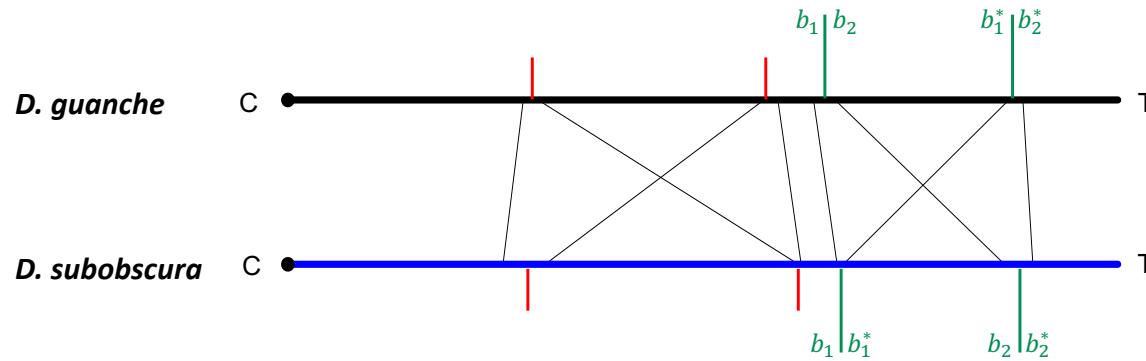
Probes amplified in *D. guanche*

Probes amplified in *D. subobscura*

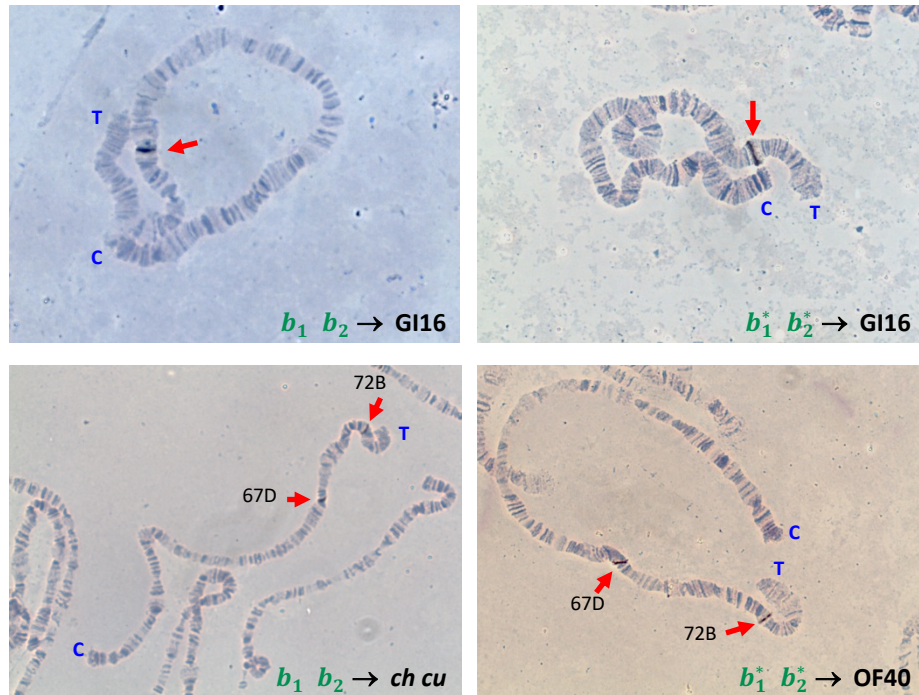


Supplementary Figure S2. *In situ* hybridization results of the E_{f1} inversion breakpoint probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the E_{f1} inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (GI_16) and *D. subobscura* (*ch cu* or FO31c) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

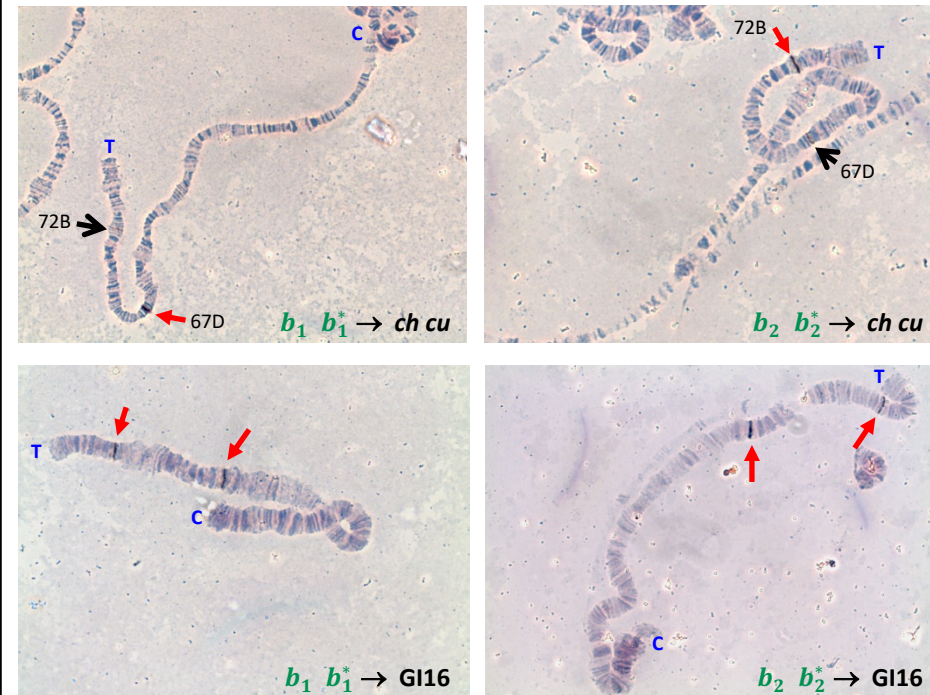
E_{f2} inversion



Probes amplified in *D. guanche*

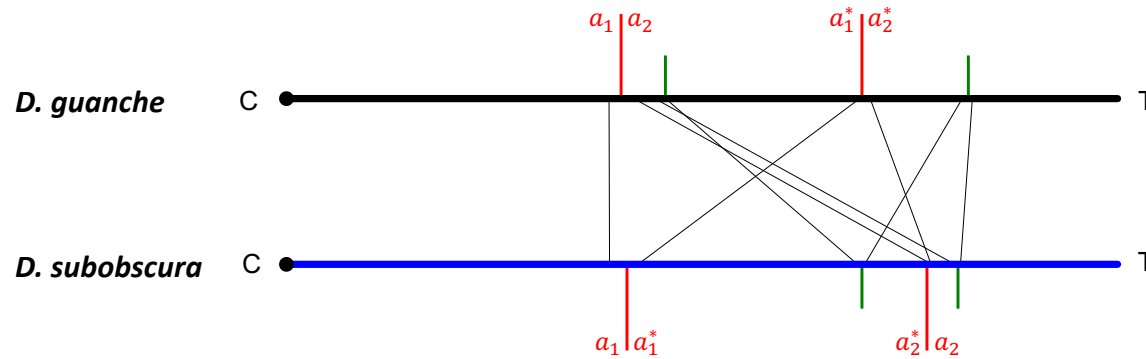


Probes amplified in *D. subobscura*

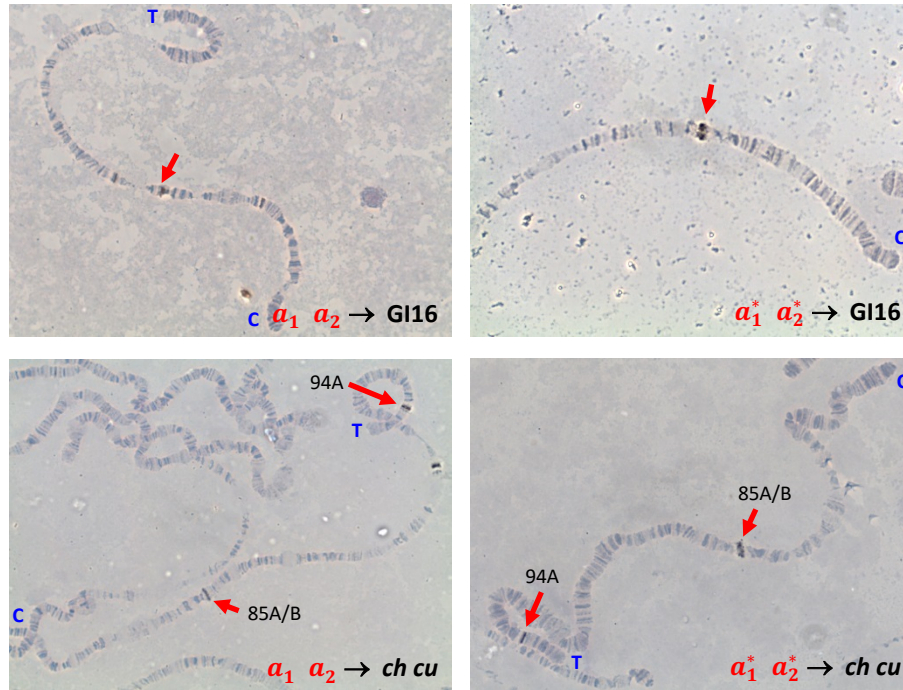


Supplementary Figure S3. *In situ* hybridization results of the E_{f2} inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the E_{f2} inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (GI_16) and *D. subobscura* (*ch cu* or OF40) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows, secondary signal are marked with black arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

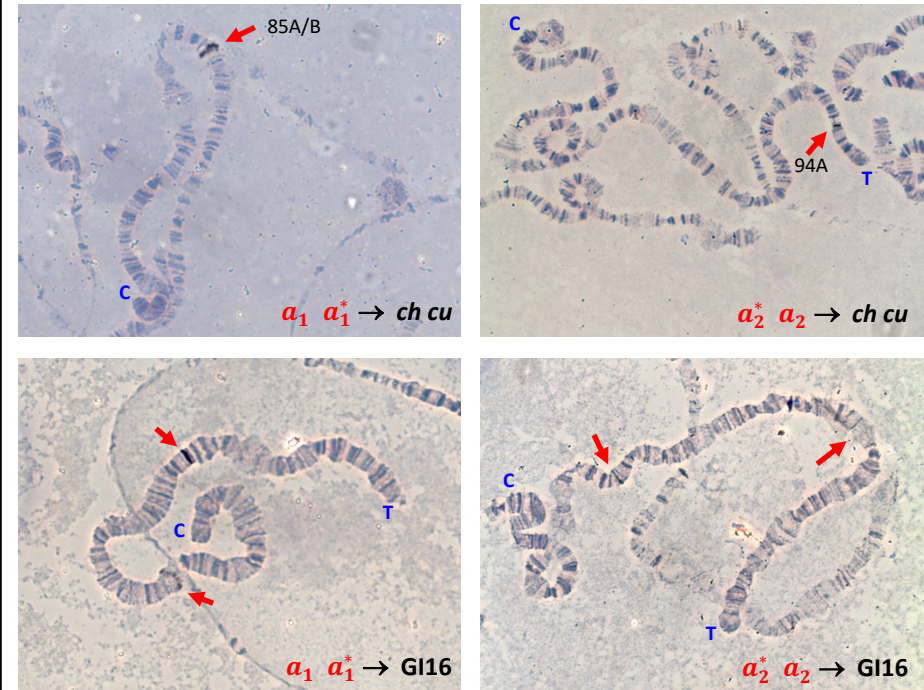
O_f inversion



Probes amplified in *D. guanche*

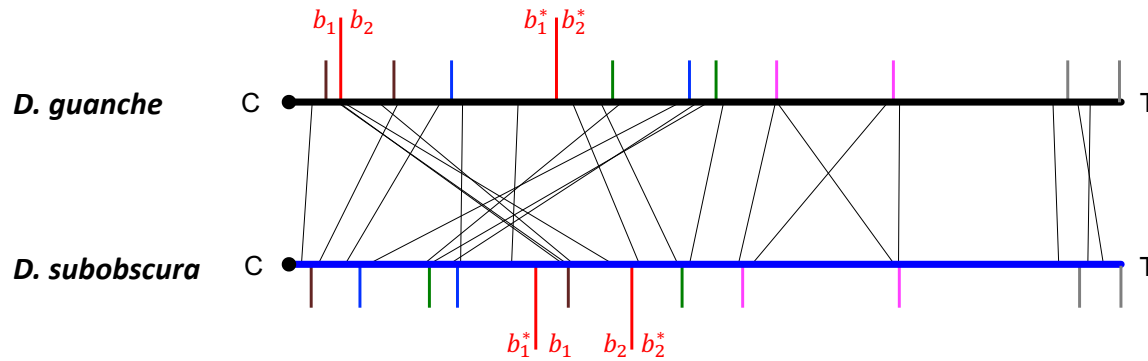


Probes amplified in *D. subobscura*



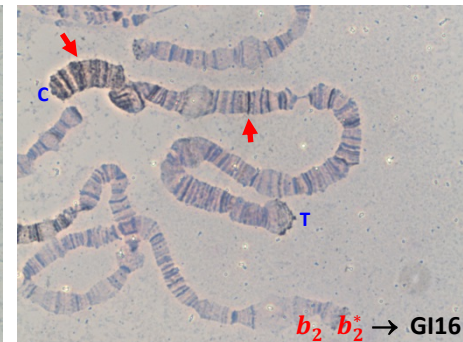
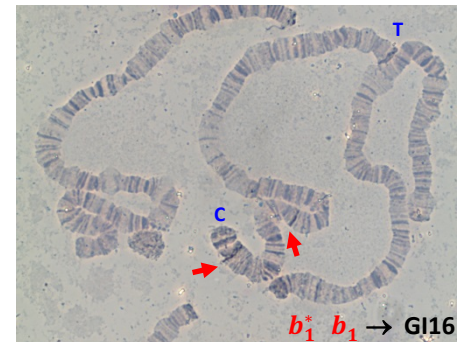
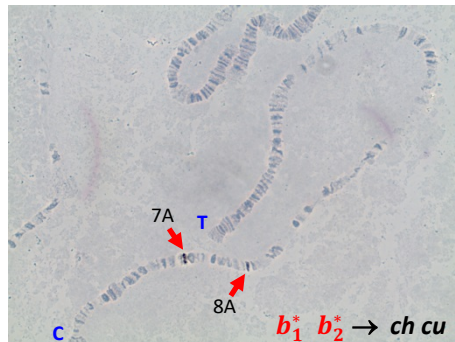
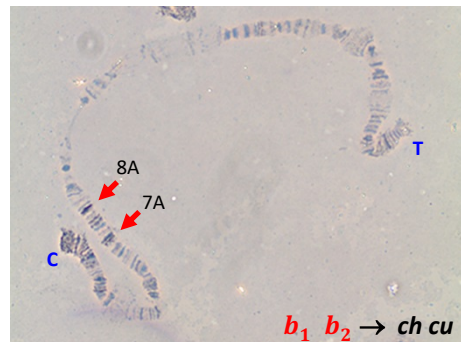
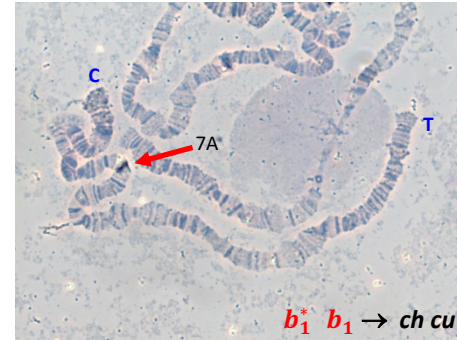
Supplementary Figure S4. *In situ* hybridization results of the O_f inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the O_f inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (GI_16) and *D. subobscura* (*ch cu*) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

A_{f2} inversion



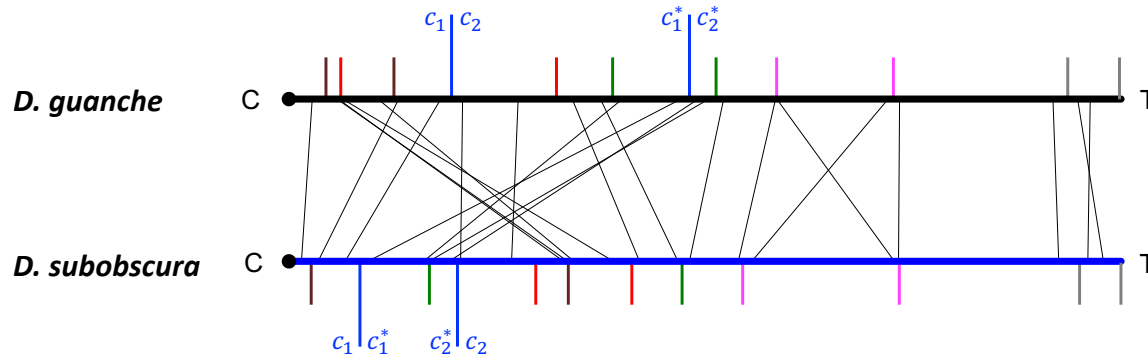
Probes amplified in *D. guanche*

Probes amplified in *D. subobscura*



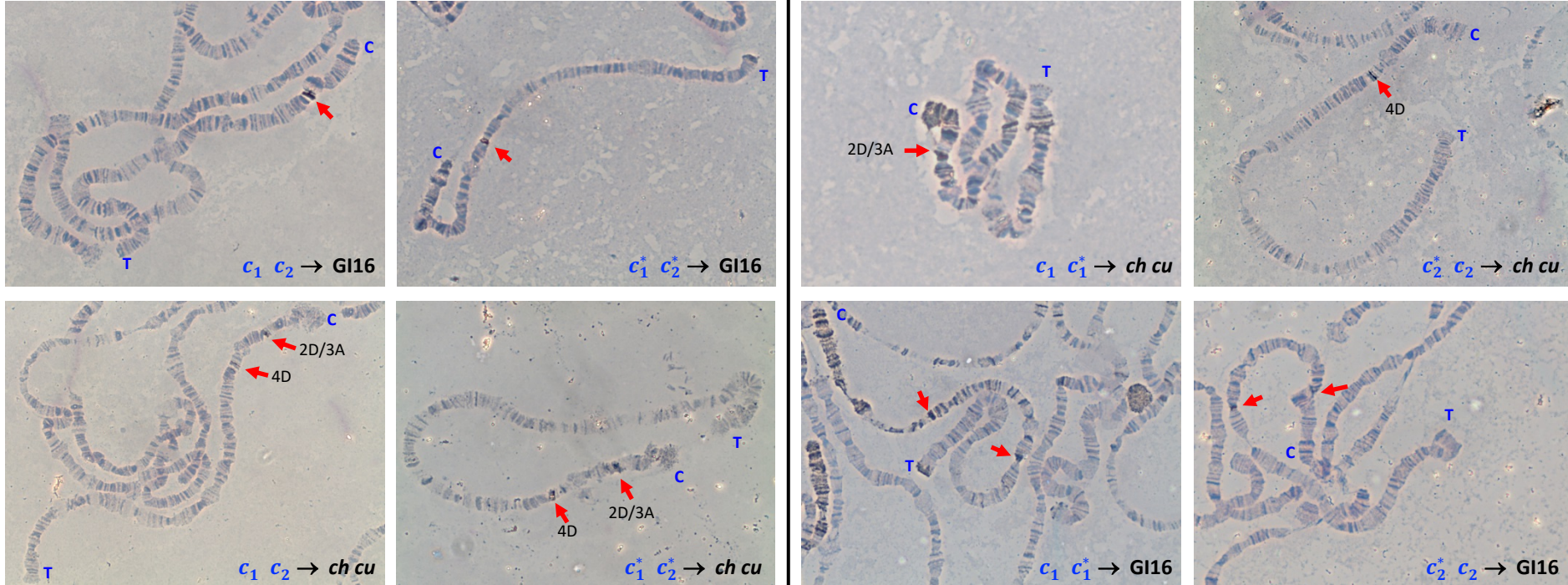
Supplementary Figure S5. *In situ* hybridization results of the A_{f2} inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the A_{f2} inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (GI_16) and *D. subobscura* (ch cu) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

A_{f3} inversion



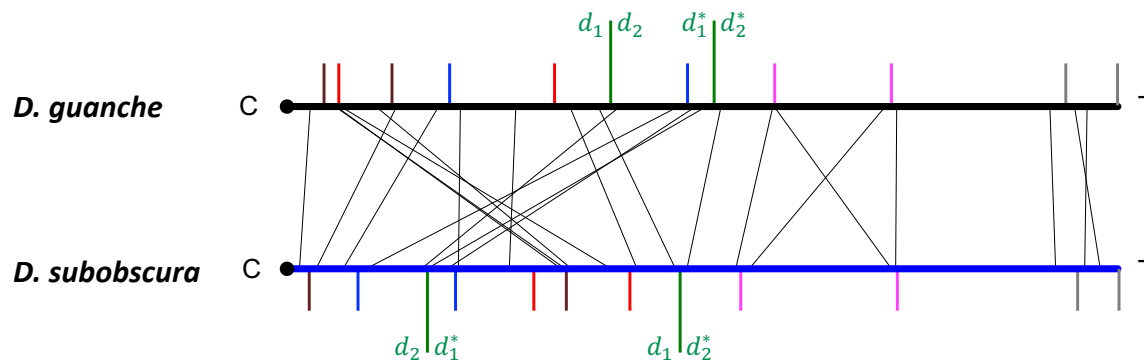
Probes amplified in *D. guanche*

Probes amplified in *D. subobscura*

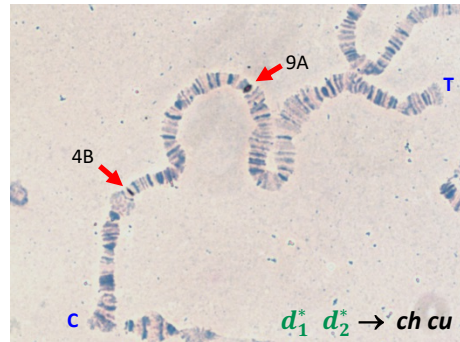
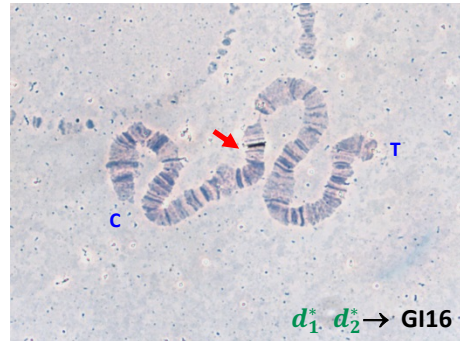


Supplementary Figure S6. *In situ* hybridization results of the A_{f3} inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the A_{f3} inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (GI_16) and *D. subobscura* (ch cu) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

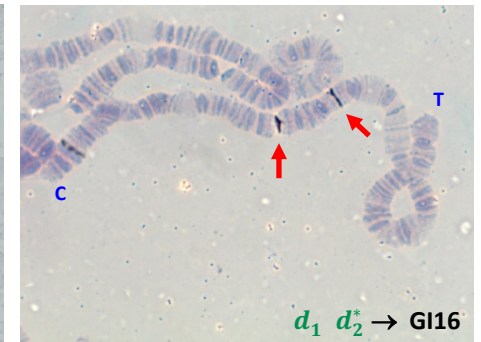
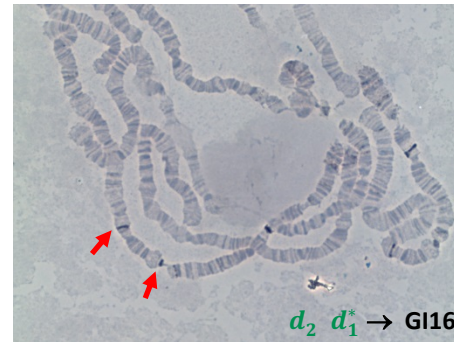
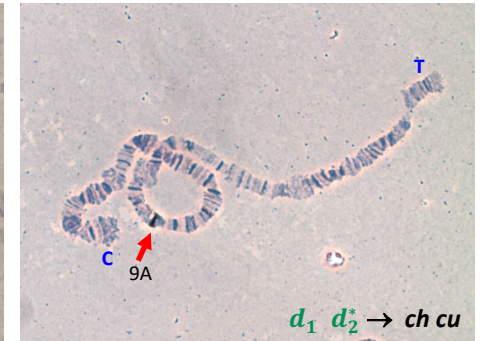
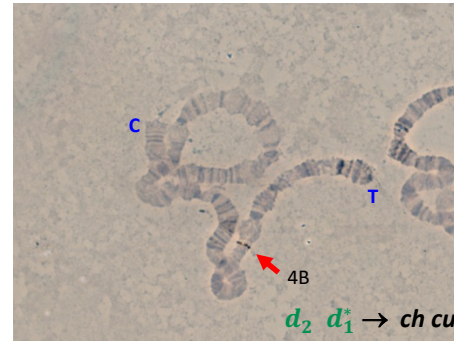
A_{f4} inversion



Probes amplified in *D. guanche*

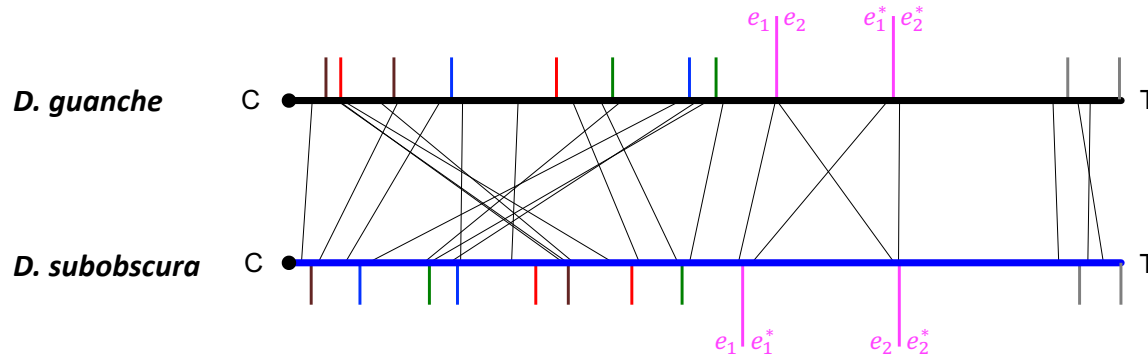


Probes amplified in *D. subobscura*



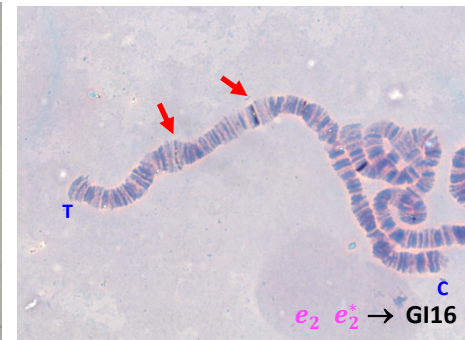
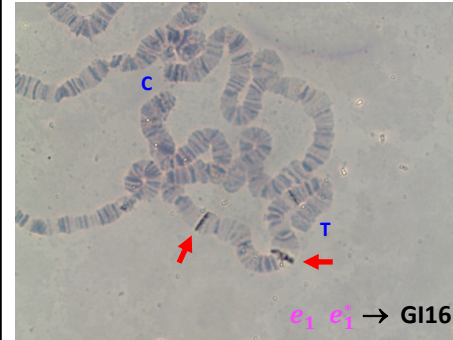
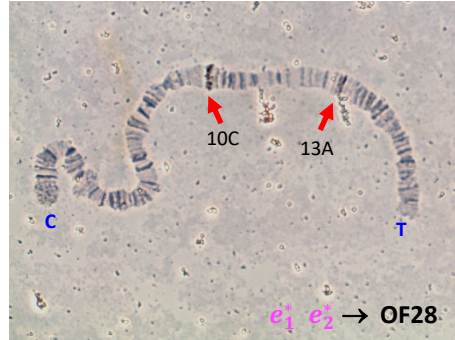
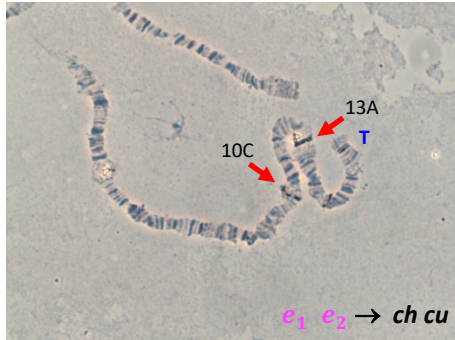
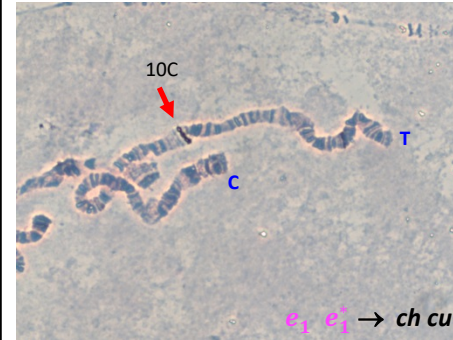
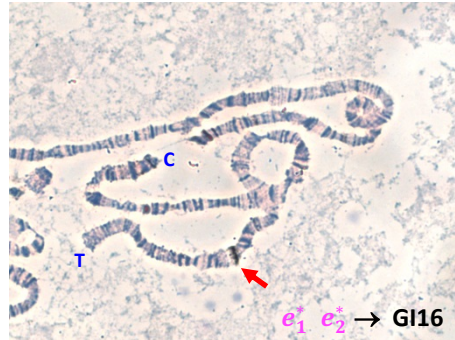
Supplementary Figure S7. *In situ* hybridization results of the A_{f4} inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the A_{f4} inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (Gl_16) and *D. subobscura* (ch cu) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.

A_{f5} inversion



Probes amplified in *D. guanche*

Probes amplified in *D. subobscura*



Supplementary Figure S8. *In situ* hybridization results of the A_{f5} inversion breakpoints probes in *D. guanche* and *D. subobscura*. Upper part, schematic representation of the A_{f5} inversion using the same notation for breakpoint regions than in Figure 1. Lower part, results of the *in situ* hybridizations performed on both *D. guanche* (GI_16) and *D. subobscura* (*ch cu* or OF28) polytene chromosomes. Hybridization signals at the inversion breakpoints are marked with red arrows. Their cytological location is indicated according to the Kunze-Mühl and Müller (1958) map of *D. subobscura*. C, centromere; T, telomere.