

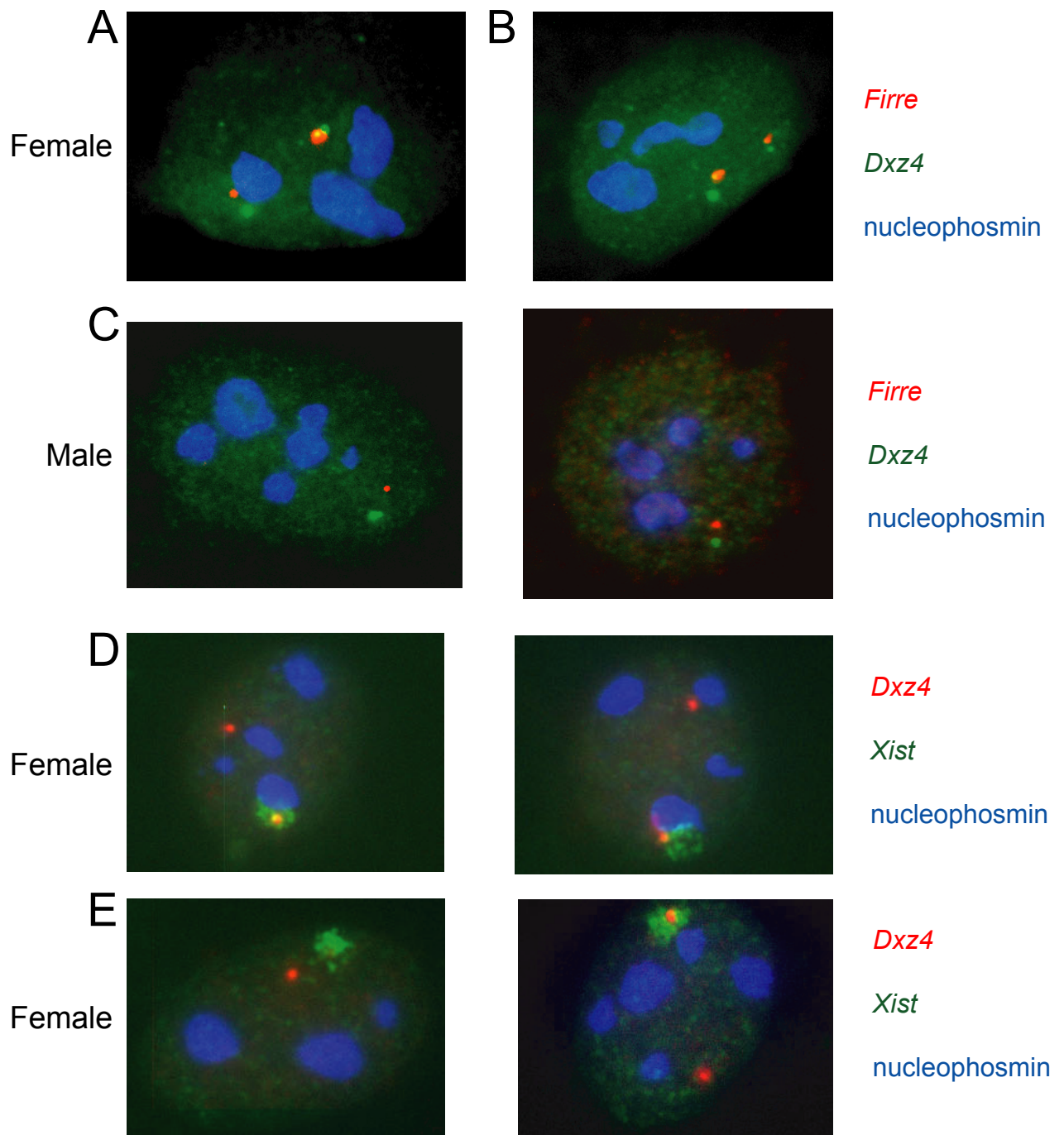


Figure S4. Examples of nuclei from fibroblasts with (A, D) and without (B, C, E) association of *Firre* and *Dxz4* (A, B, C), or *Dxz4* and *Xist* (D, E), with the nucleolus (see also Figure 4). (A, B) Nuclei from female ear fibroblasts (A, B) subjected to DNA-FISH to detect *Firre* (red), *Dxz4* (green), and immunostaining to detect nucleophosmin (blue). (C) Same analysis in male ear fibroblasts. (D, E) Nuclei from female Patski cells subjected to DNA-FISH to detect *Dxz4* (red) and to RNA-FISH to detect *Xist* (green) and mark the Xi, and immunostaining to detect nucleophosmin (blue). One de-convoluted Z section is shown.