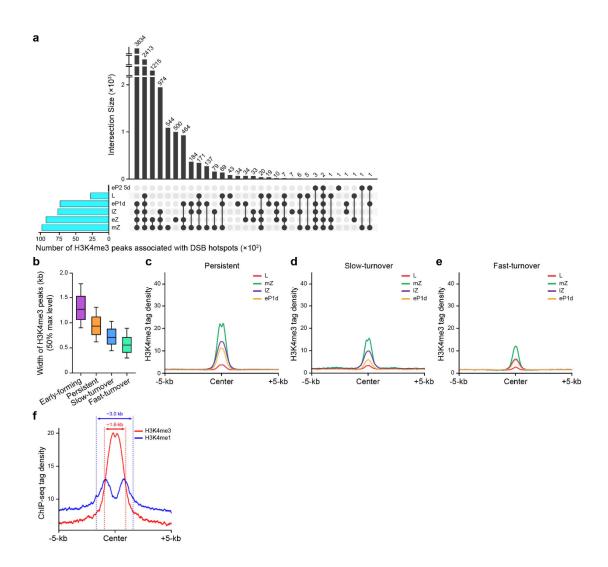
## Supplementary information, Figure S8



**Fig. S8 The dynamics of hotspot-associated H3K4me3 peaks. a** Point vennplot diagram showing the overlap of hotspot-associated H3K4me3 peaks among leptotene, early-zygotene, mid-zygotene, late-zygotene, early 1-pachytene spermatocytes and early 2-pachytene spermatocytes. **b** Boxplot showing the width of the four subtypes of hotspot-associated H3K4me3 peaks at mid-zygotene, which are normalized by the width at 50% max level. **c-e** Profile of the averaged H3K4me3 tag density on persistent (**c**), slow-turnover (**d**) or fast-turnover (**e**) hotspot-associated H3K4me3 peaks in

leptotene, mid-zygotene, late-zygotene, and early 1-pachytene. H3K4me3 tag density was calculated using H3K4me3 ChIP-seq reads coverage with 50-bp resolution. **f** Profile of the average H3K4me1 and H3K4me3 tag density on the top 3000 DSB hotspots defined using SPO11-oligo in mid-zygotene spermatocytes. H3K4me3 tag density was calculated using H3K4me1 or H3K4me3 ChIP-seq reads with 50-bp resolution, the width at the 50% max heights of H3K4me3 and H3K4me1 peaks were shown.