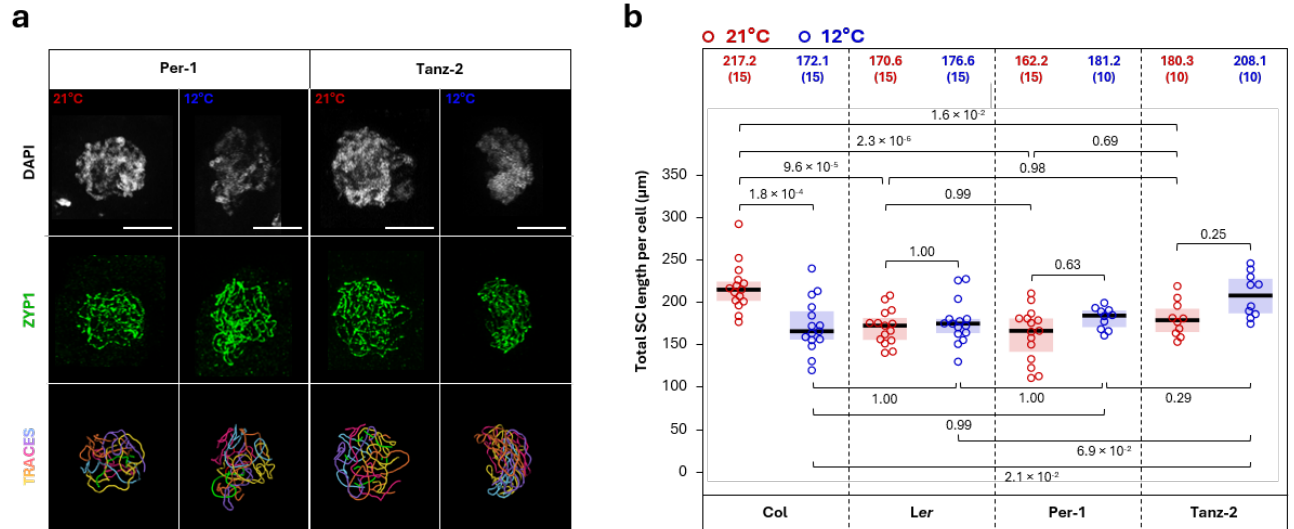

SNI1/NSE5 is a cold-sensitive brake on class II crossovers in *Arabidopsis*

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Supplementary Fig. 1 | Genotype-dependent effects of cold on synaptonemal complex length.

a, 3D-SIM of ZYP1 immunolocalization in male meiocytes of Per-1 and Tanz-2 at 21 °C and 12 °C. Pachytene nuclei were identified by DAPI morphology (top) and absence of ASY1 signal. ZYP1 tracks (middle) were traced in ImageJ (bottom) to measure total SC length. Scale bar, 10 μm.

b, Quantification of SC length in Col, Ler, Per-1 and Tanz-2 *Arabidopsis* accessions at 21 °C (red) and 12 °C (blue). Mean SC length is shown above each boxplot, with sample size in parentheses. Each dot is the total SC length from one meiocyte. Boxplots show the median (centre line) and the 25th–75th percentiles (box). Significance was tested by two-way ANOVA (Genotype × Temperature) with Tukey’s HSD post-hoc comparisons.