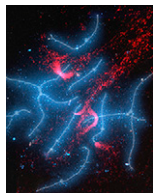


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Hypotonically-spread pachytene chromosomes from maize showing synaptonemal complexes (SCs, light blue lines) with kinetochores (light blue balls). The chromatin (stained blue with DAPI) has been dispersed by the spreading procedure and appears as a fuzzy blue coat along the length of each SC. Fluorescence *in situ* hybridization (FISH, red) of the 180 bp knob repeat shows that the chromatin of the interstitial knobs occupies well-defined SC segments, and at least some chromatin loops from the knobs extend much farther from their SC attachment sites than the rest of the chromatin. By combining FISH of knob repeats with MLH1 immunolabeling to reveal crossovers, *Stack et al.*, 2015:1101–1112, determined that meiotic crossing over is not suppressed along the SC in knob heterochromatin.

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