Shelterin bridges distal telomeric DNA to initiate T-loop formation

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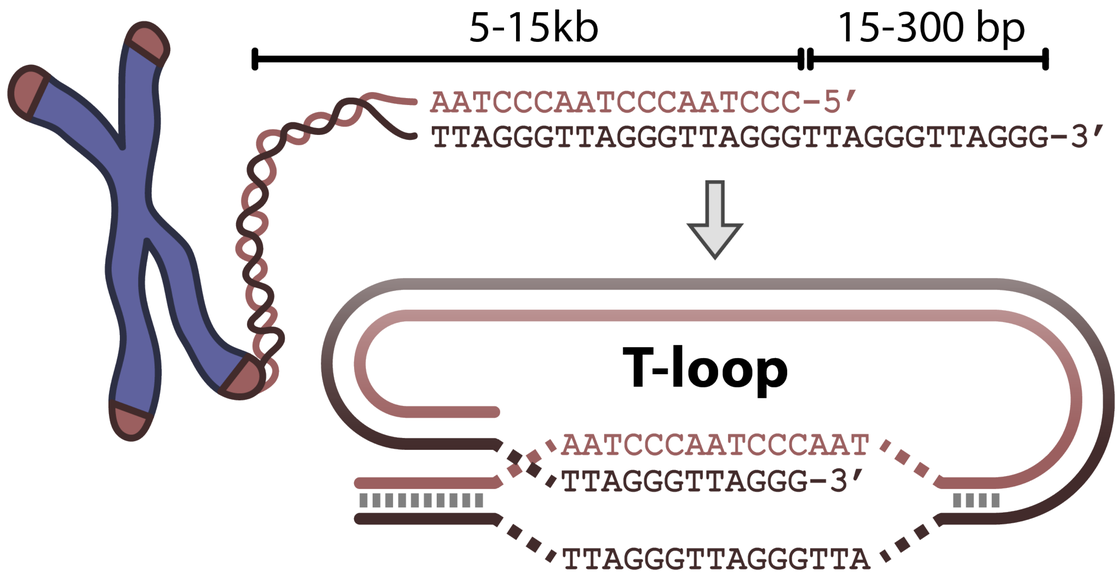
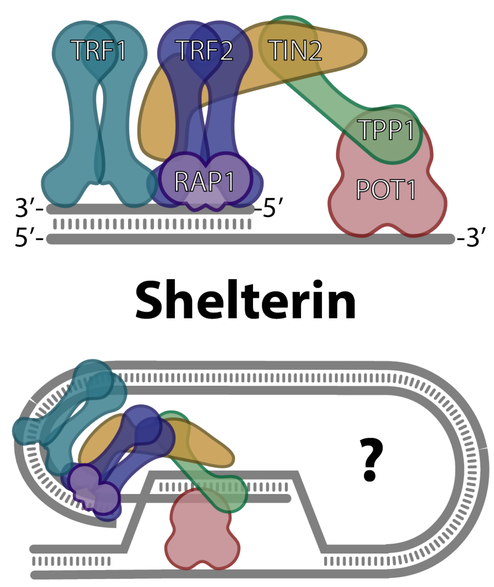
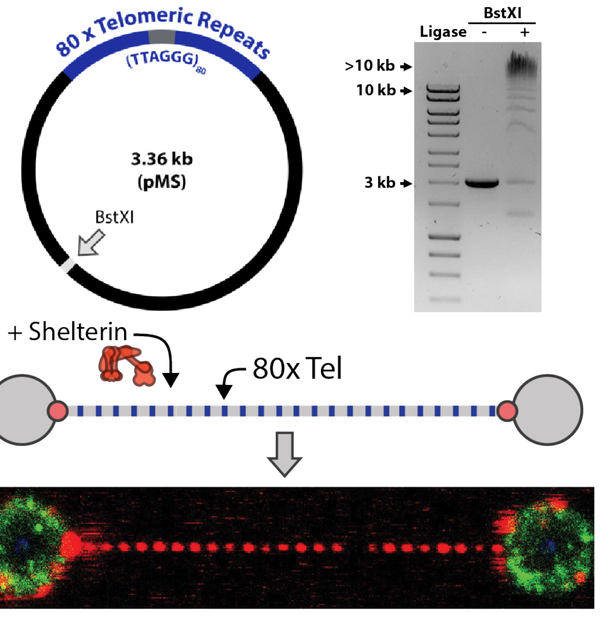
Telomeres protect chromosome ends

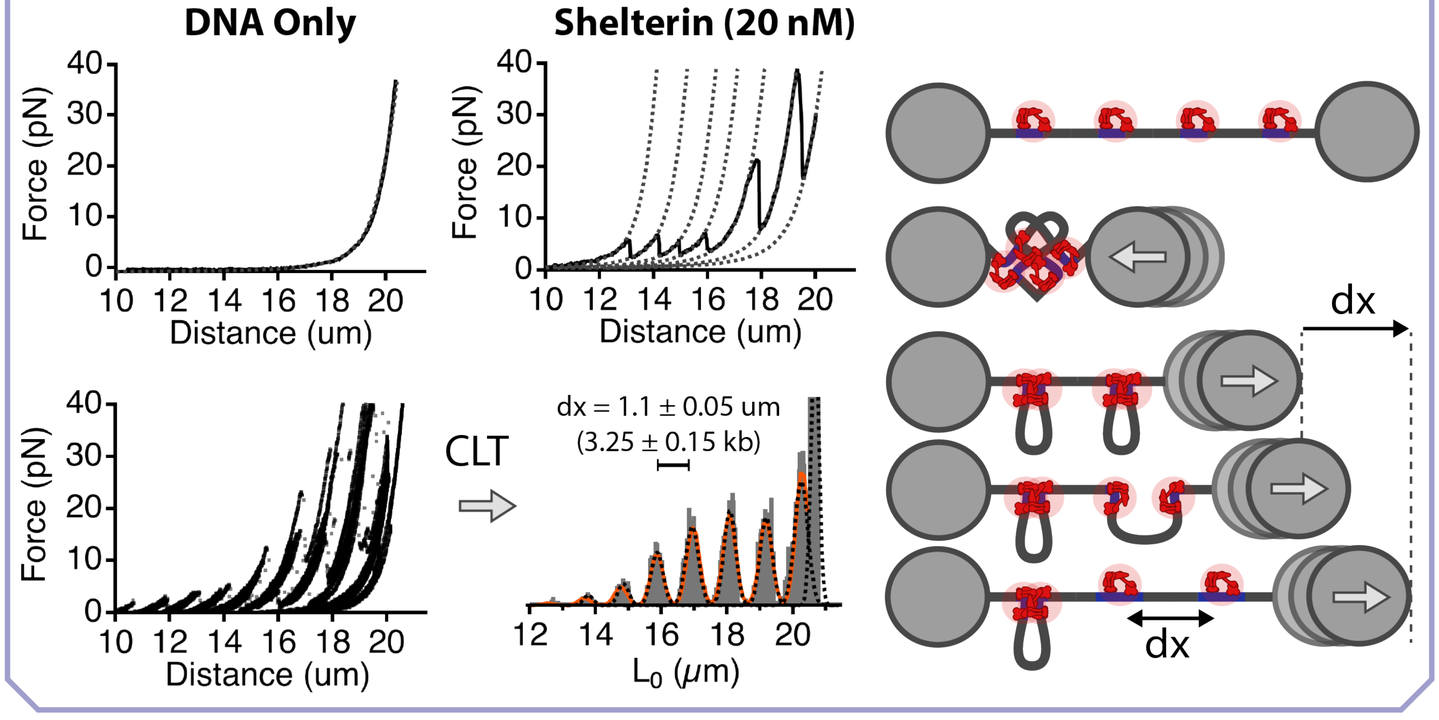




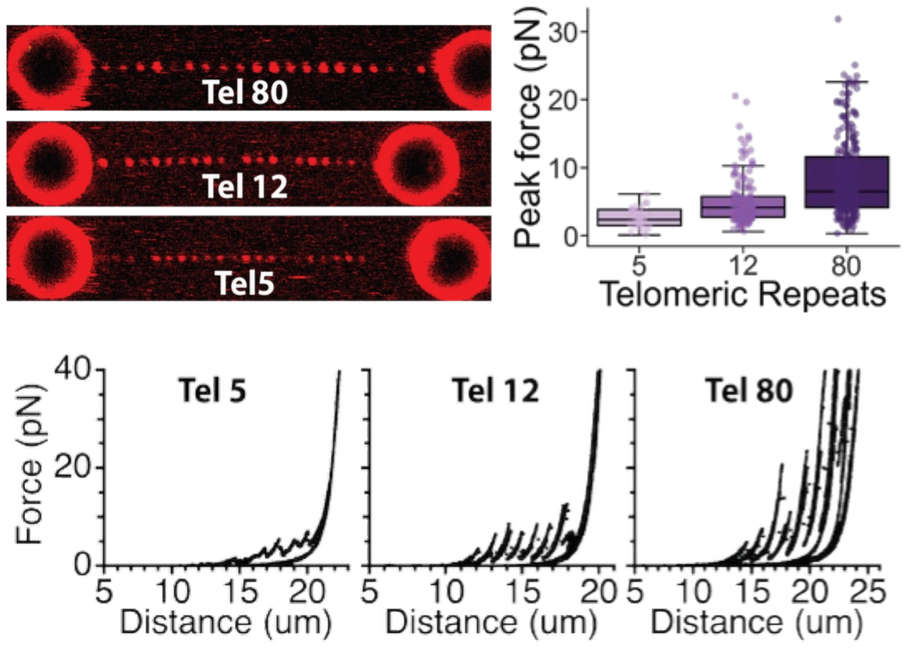
Generating telomeric arrays



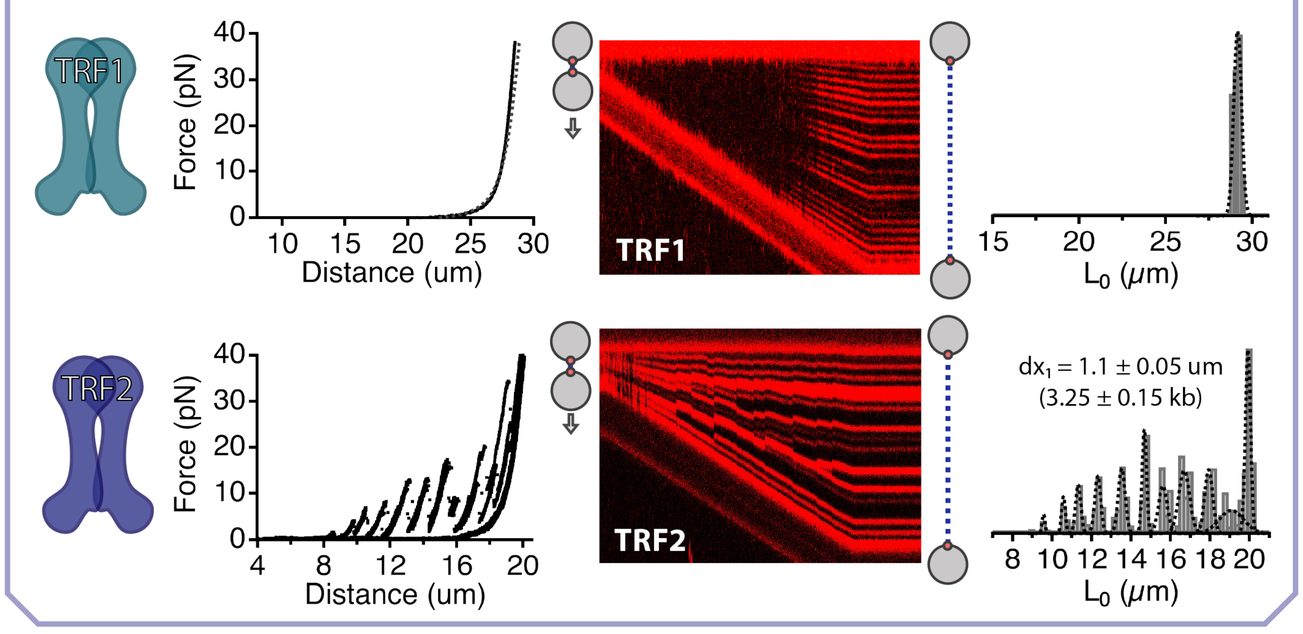
Shelterin mediates bridging between telomeric repeats



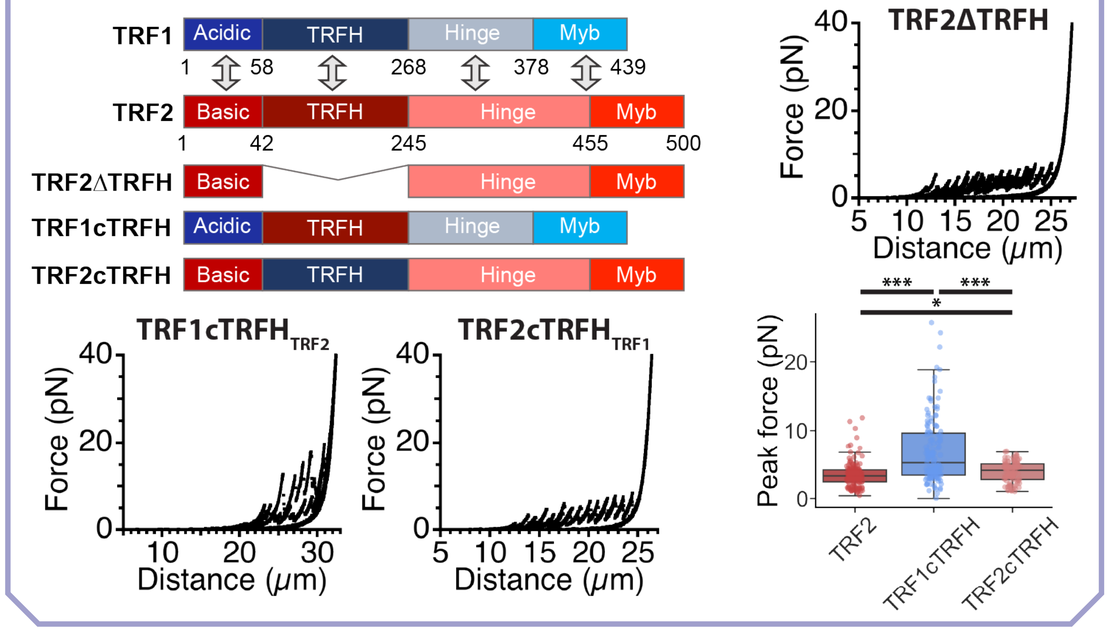
Rupture force vs telomere repeat length



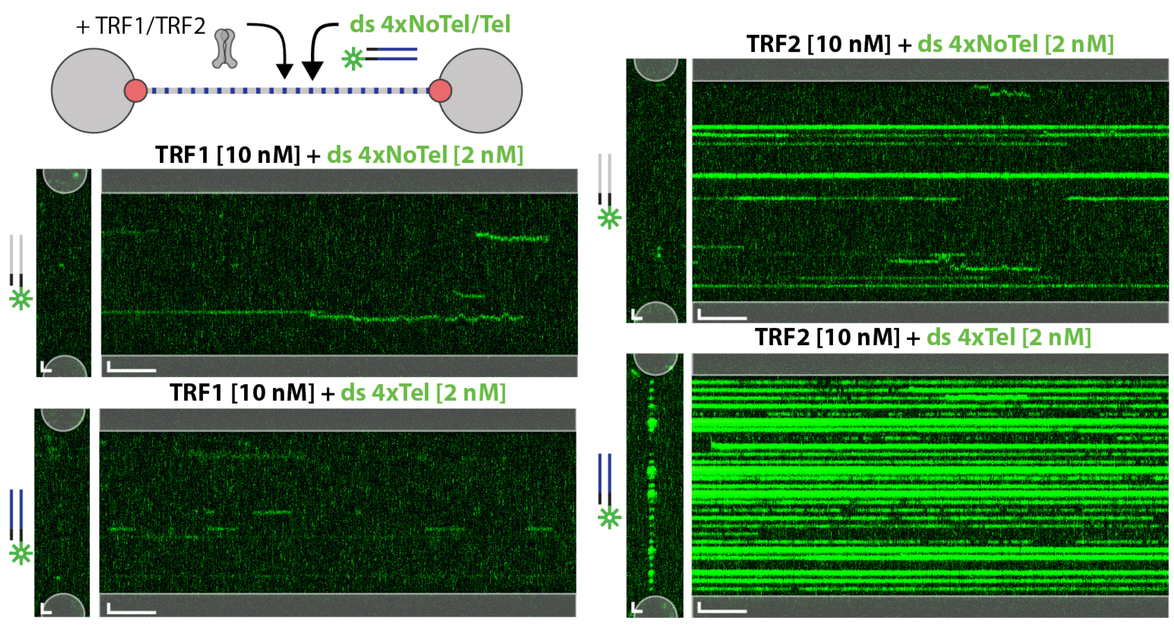
TRF2 but not TRF1 is sufficient to mediate bridging



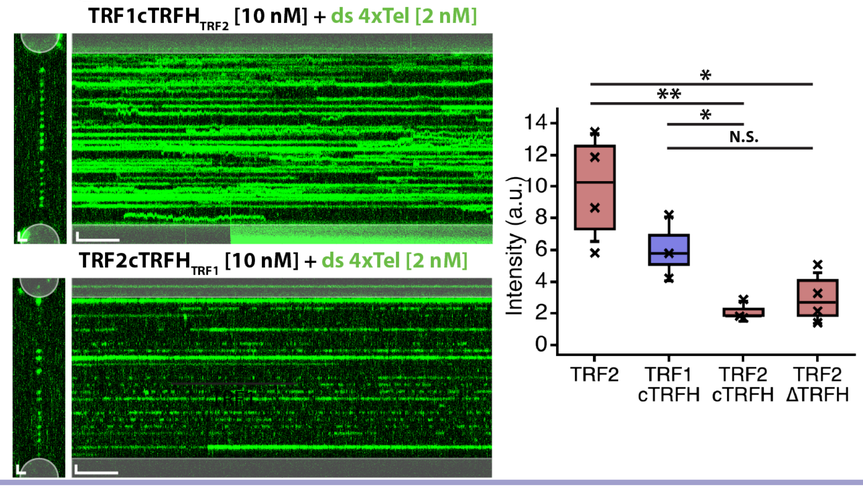
Bridging is mediated by multiple domains



Specific capture of telomeric DNA by TRF2



TRF1 gain of function with TRF2 TRFH domain



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