

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: The organization of mitotic chromosomes subjected to both condensin I & II. The purely sequence-distance-dependent model with parameters $\kappa_I = 5$ and $\kappa_{II} = 2.5$.

File Name: Supplementary Movie 2

Description: Pulling the mitotic chromosome. In our simulations, an external force is applied to one end of the cylindrical mitotic chromosome structure parallel to the main axis of the backbone. The chromosome follows the applied force at lower stretching forces and maintains its structural integrity.

