Fob1-dependent condensin recruitment and loop extrusion on yeast chromosome III

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Fob1 controls the structure of yeast chromosome III

Micro-C XL interaction heatmap of Saccharomyces cerevisiae chromosome III that visualizes differences between WT and fob1Δ strains. Red shading represents interactions higher in WT and blue represents interactions higher in the fob1Δ mutant at 10kb bin resolution. Bins containing the HML, RDT1, CEN, MAT, or HMR loci are labeled. Black arrows indicate a rightward extending line of diminishing interaction between the Fob1-anchored condensin binding site at RDT1 and the rest of chromosome III, consistent with loop extrusion activity. Image credit: Manikarna Dinda