

	H3 nucleosomes				CENP-A nucleosomes				CENP-A + CENP-C ^{CD} nucleosomes			
	DNA1		DNA2		DNA1		DNA2		DNA1		DNA2	
	Count (N)	Percentage (%)	Count (N)	Percentage (%)	Count (N)	Percentage (%)	Count (N)	Percentage (%)	Count (N)	Percentage (%)	Count (N)	Percentage (%)
Low FRET	68	15.2	60	18.1	44	14.5	58	10	35	5.7	25	9.2
Medium FRET	129	29	143	43.2	103	33.9	209	36.1	226	36.7	102	37.5
High FRET	249	55.8	128	38.7	157	51.6	312	53.9	355	57.6	145	53.3
Total	446	100	331	100	304	100	579	100	616	100	272	100

Supplementary Table 1. Summary of the different ϕ_{FRET} groups observed in smFRET measurements. The number and percentage of the nucleosomes analyzed in this study binned into the low, medium, and high ϕ_{FRET} groups (Fig. 1 and Supplementary Fig. 1).