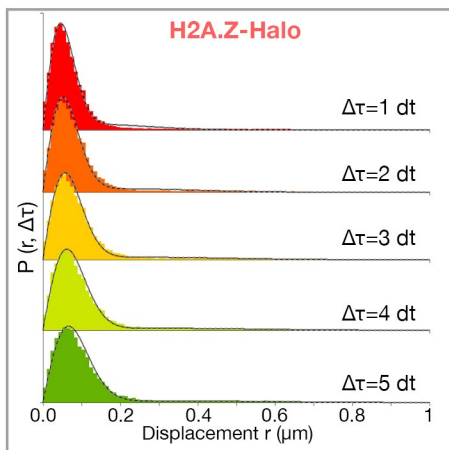
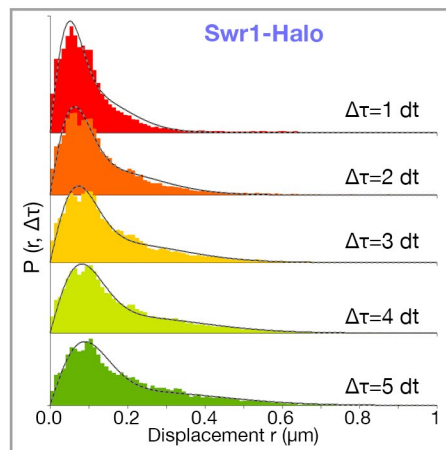
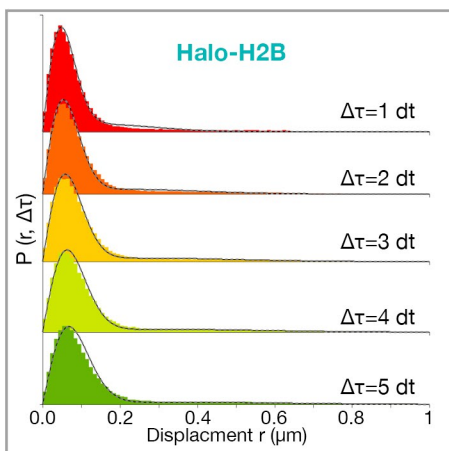
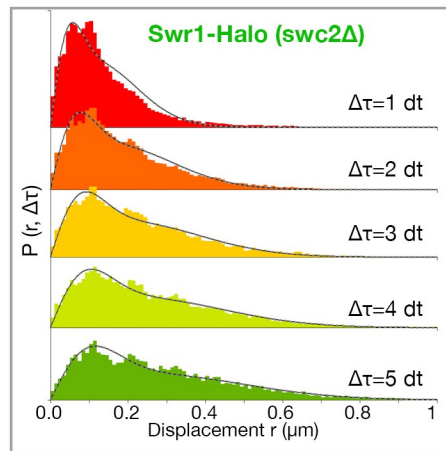


**A****C****B****D****E**

	MSD			Spot-On		
	D bound ( $\mu\text{m}^2 \text{s}^{-1}$ )	D free ( $\mu\text{m}^2 \text{s}^{-1}$ )	% bound	D bound ( $\mu\text{m}^2 \text{s}^{-1}$ )	D free ( $\mu\text{m}^2 \text{s}^{-1}$ )	% bound
H2A.Z	$0.056 \pm 0.002$	$0.886 \pm 0.066$	$80.5 \pm 1.54$	$0.029 \pm 0.0002$	$1.177 \pm 0.009$	$81.7 \pm 0.07$
H2B	$0.058 \pm 0.001$	$0.888 \pm 0.039$	$73.9 \pm 0.99$	$0.028 \pm 0.0002$	$1.286 \pm 0.008$	$75.6 \pm 0.06$
Swr1	$0.082 \pm 0.028$	$0.419 \pm 0.066$	$39.7 \pm 14.07$	$0.063 \pm 0.0003$	$0.618 \pm 0.002$	$47.2 \pm 0.11$
Swr1 (swc2Δ)	$0.087 \pm 0.034$	$0.598 \pm 0.026$	$18.0 \pm 5.64$	$0.070 \pm 0.0001$	$0.766 \pm 0.001$	$20.7 \pm 0.07$

**Fig. S1.2**