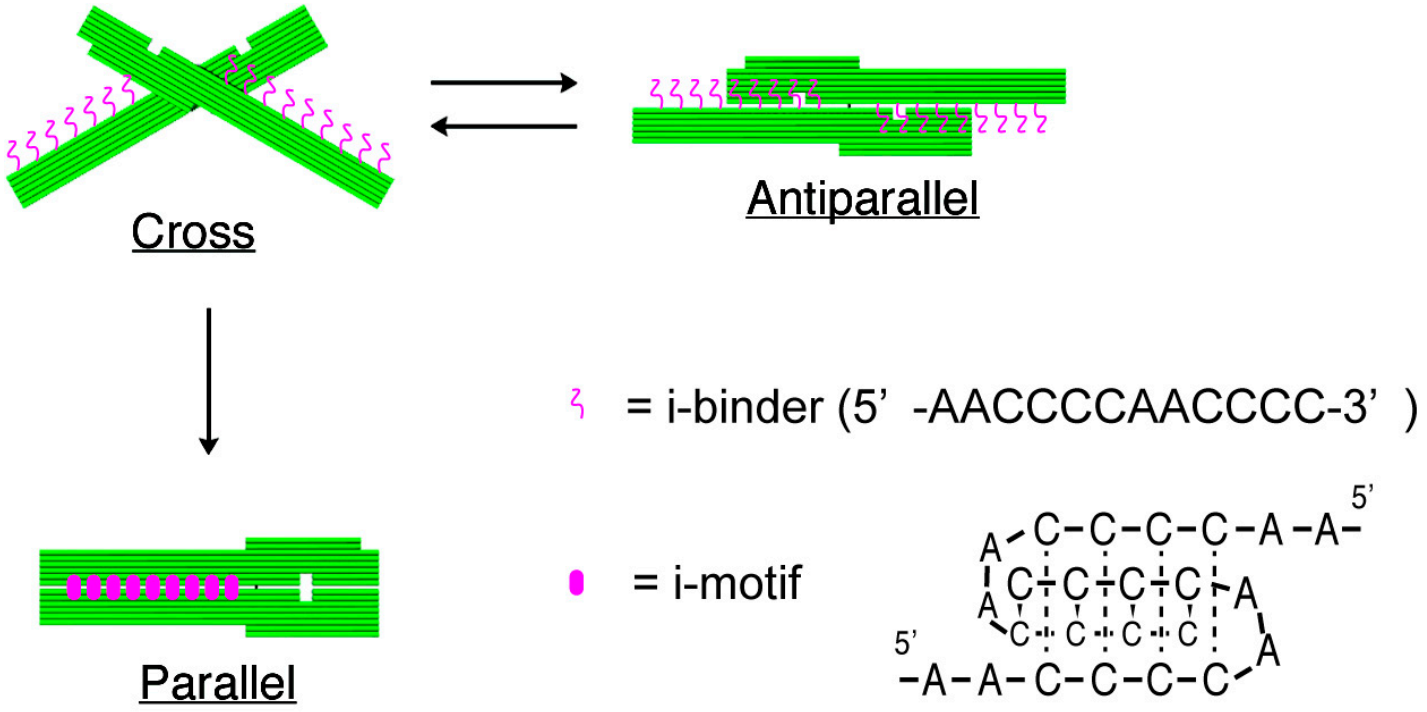
DNA origami as pH sensor

Principle: Under acidic conditions, nine pairs of an 12-mer oligos (« i-binders » $^{5'}$AACCCCAACCCC$^{3'}$ attached to levers of DNA Origami blades form quadruplexes (« i-motif ») by protonation of the cytidines.



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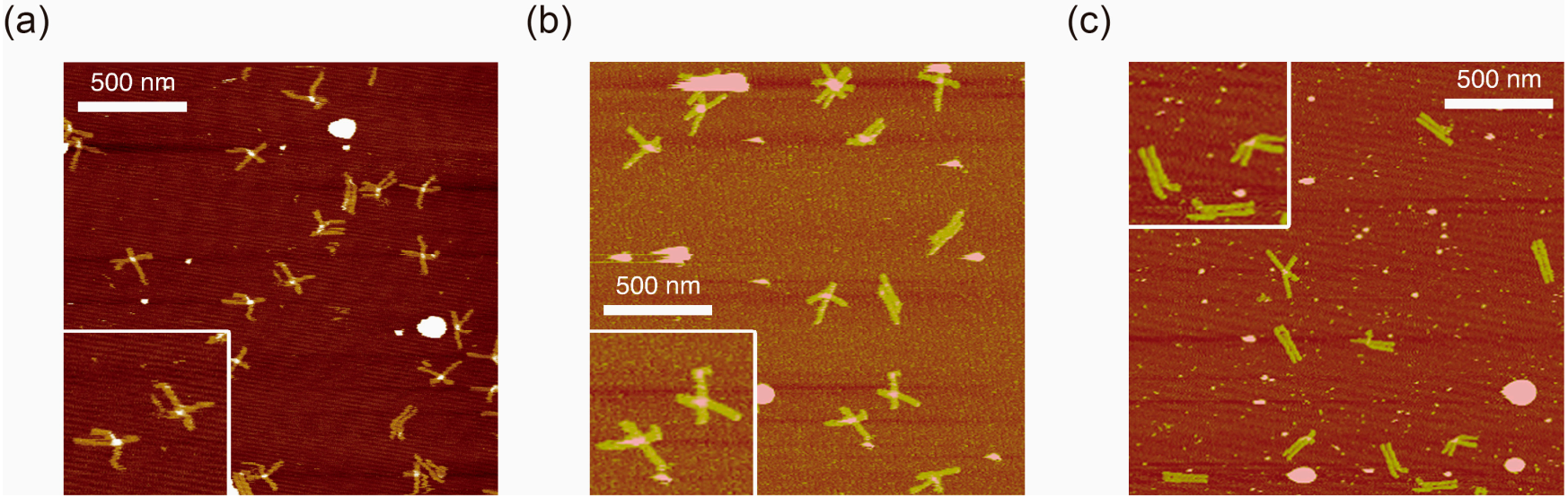
DNA origami as pH sensor

Atomic force microscopy (AFM) images of DNA Origami Pliers deposited on mica at pH 8.2 (a); pH 7.0 (b); and pH 5.6 (c). Insets: 150% magnified view of typical motifs.



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DNA single stranded bricks

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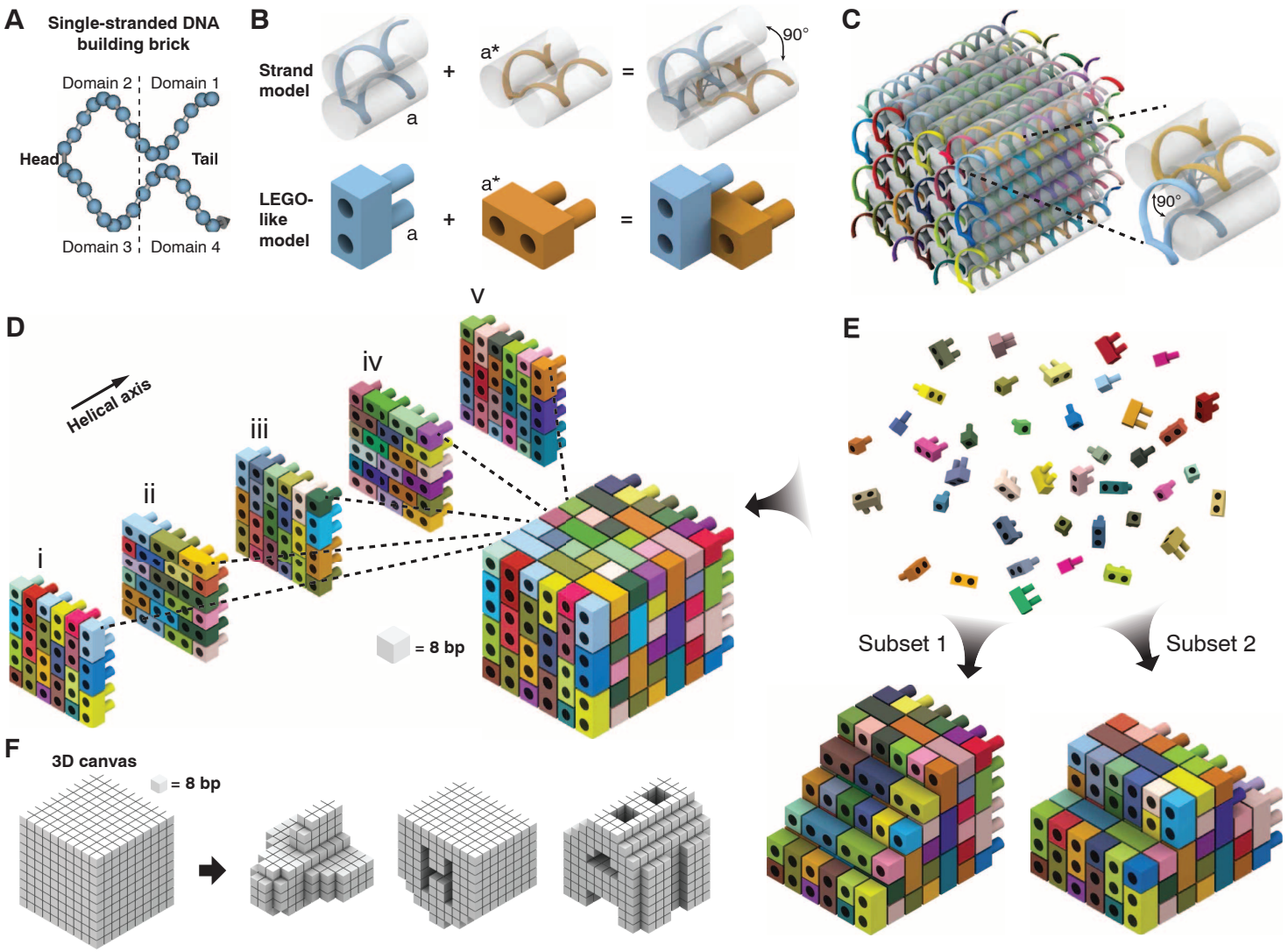

DNA single stranded bricks