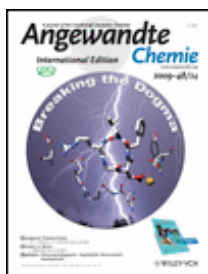


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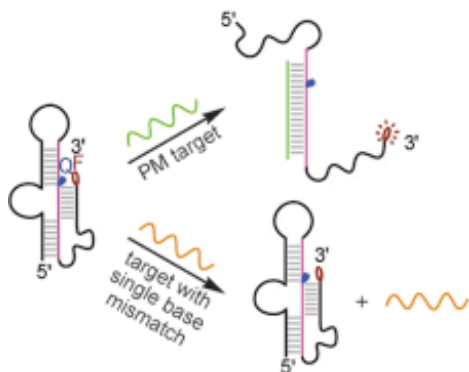
May 05, 2009

Hot Paper: Fluorescence Detection of Single-Nucleotide Polymorphisms with a Single, Self-Complementary, Triple-Stem DNA Probe

Yi Xiao, Kory J. I. Plakos, Xinhui Lou, Ryan J. White, Jiangrong Qian, Kevin W. Plaxco, H. Tom Soh*

Singled out for its singularity: In a single-step, single-component, fluorescence-based method for the detection of single-nucleotide polymorphisms at room temperature, the sensor is comprised of a single, self-complementary DNA strand that forms a triple-stem structure. The large conformational change that occurs upon binding to perfectly matched (PM) targets results in a significant increase in fluorescence (see picture; F=fluorophore, Q=quencher).

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