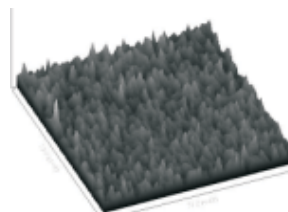
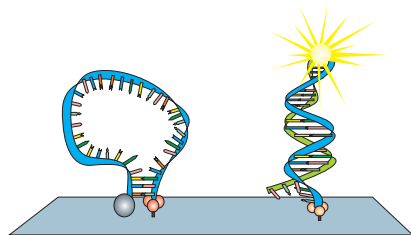
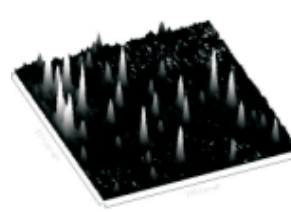


Single Molecule Detection

Single DNA Molecule Detection



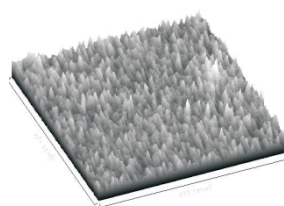
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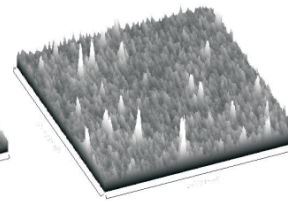
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Real-time monitoring of DNA hybridization at single molecule level.
Hybridization of target DNA with surface-immobilized molecular beacon.

Single RNA Molecule Detection



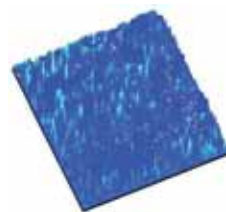
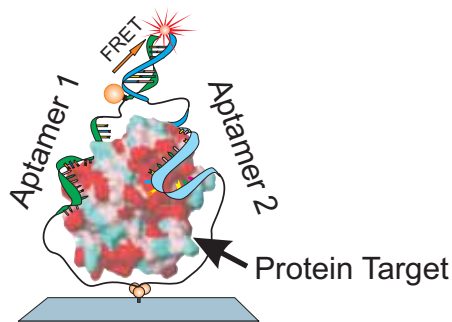
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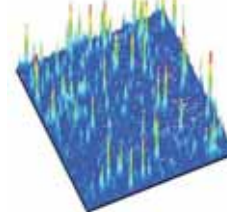
30 sec

Real-time monitoring of RNA hybridization at single molecule level.
Hybridization of target p53 RNA with surface-immobilized DNA molecular beacon.

Single Protein Molecule Detection



0 sec



60 sec

Real-time monitoring of protein binding to two-chain FRET aptamer assay at single molecule level. Binding of protein target results in FRET.