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Biotechnology Research at Intel
XING SU, Intel Corporation

The Intel biotechnology research program is sponsored by Intel Research of Intel Corporation, aimed at developing novel detection technologies for ultra-sensitive analysis of biomolecules. Towards this goal, we have developed techniques that can be used to isolate and manipulate individual DNA molecules, as well as to place molecules in desired positions in a microfluidic system for effective detection. We have also developed a Raman spectroscopy system together with novel colloidal chemistries that allow single molecule detection of nucleotides and protein bioanalytes. We view this internal research effort as a long-term opportunity. We hope our gained expertise in the biotechnology area will allow us to develop tools that can be used to diagnose diseases and select the best treatments at early disease stages.