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DNA Strand Displacement Schemes and their Application to Expectation Maximization Algorithm

EM or the Expectation Maximization algorithm is a procedure for estimating parameters of statistical models with latent variables. Recently, it has been shown that reaction networks can be used as computational machines to perform the EM algorithm[1] [2]. Further, DNA strand displacement can be used to implement CRNs with desired kinetics[3] [4]. We explore how to design a DNA strand displacement system to implement the EM system *in vitro*.

Summary

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