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Transcription factor target site search and gene regulation in a background of unspecific binding sites

J. Hettich, J.C.M. Gebhardt

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## Highlights

- Transcription factor target site search time calculated using dissociation rates
- Transcription factors are optimized for fast target site search
- Transcription factors are not optimized for high target site occupation
- Dimerization in solution outperforms dimerization on DNA in gene activation

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