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Feedback Loops Interlocked at Competitive Binding Sites Amplify and Facilitate Genetic Oscillations

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#### ACCEPTED MANUSCRIPT

### Highlights

- BMAL1 circadian rhythm generation is studied.
- Optimal ratio of dissociation constants amplifies BMAL1 oscillations.
- Competitive and noncompetitive binding sites are compared.
- Relative time scales of regulators determine preference of binding sites.



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