

Effective models of chromatin dynamics

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Chromatin is a complex biopolymer of DNA and proteins that not only packages the genetic material in the nucleus but also controls gene expression. The interactions that stabilise the three-dimensional structure of chromatin are mediated by different proteins, often through out-of- equilibrium mechanisms. We have developed some powerful models to describe such interactions by averaging the degrees of freedom of the proteins. In this way, we can study the dynamics of the polymer and obtain information about its diffusion properties.

Role

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