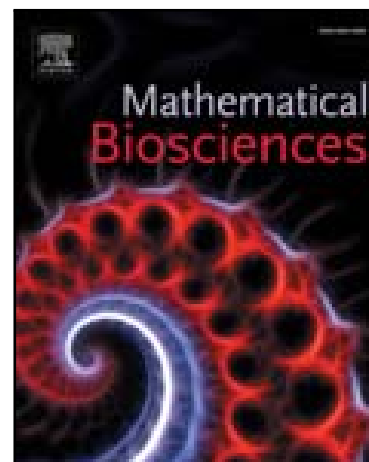


Dynamics of DNA unwinding by helicases with frequent backward steps

Ping Xie

PII: S0025-5564(17)30546-1  
DOI: [10.1016/j.mbs.2017.10.004](https://doi.org/10.1016/j.mbs.2017.10.004)  
Reference: MBS 7985



To appear in: *Mathematical Biosciences*

Received date: 26 July 2016  
Revised date: 2 October 2017  
Accepted date: 8 October 2017

Please cite this article as: Ping Xie , Dynamics of DNA unwinding by helicases with frequent backward steps, *Mathematical Biosciences* (2017), doi: [10.1016/j.mbs.2017.10.004](https://doi.org/10.1016/j.mbs.2017.10.004)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### Highlights

- A general model of DNA unwinding by monomeric helicase is presented.
- Dynamics of DNA unwinding by helicase XPD is analytically studied.
- Dynamics of DNA unwinding by helicase XPD is compared with that of helicase RecQ.
- DNA unwinding dynamics of different monomeric helicases is studied.

Download English Version:

<https://daneshyari.com/en/article/5760360>

Download Persian Version:

<https://daneshyari.com/article/5760360>

[Daneshyari.com](https://daneshyari.com)