

## Accepted Manuscript

Tissue Transport Affects How Treatment Scheduling Increases the Efficacy of Chemotherapeutic Drugs

Dan E. Ganz , Briana Sexton-Stallone , Emily L. Brackett ,  
Neil S. Forbes

PII: S0022-5193(17)30486-1  
DOI: [10.1016/j.jtbi.2017.10.022](https://doi.org/10.1016/j.jtbi.2017.10.022)  
Reference: YJTBI 9246



To appear in: *Journal of Theoretical Biology*

Received date: 18 August 2016  
Revised date: 17 October 2017  
Accepted date: 20 October 2017

Please cite this article as: Dan E. Ganz , Briana Sexton-Stallone , Emily L. Brackett , Neil S. Forbes , Tissue Transport Affects How Treatment Scheduling Increases the Efficacy of Chemotherapeutic Drugs , *Journal of Theoretical Biology* (2017), doi: [10.1016/j.jtbi.2017.10.022](https://doi.org/10.1016/j.jtbi.2017.10.022)

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 tissue-transport model was developed to optimize chemotherapeutic schedules
- Increasing doses is most effective for drugs with intermediary cell binding rates
- Strong and weak binding drugs do not benefit as much from increasing doses
- Many doses are best for drugs with fast diffusivity and weak cell binding
- One dose is best for drugs with slow diffusivity or strong cell binding

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8876885>

Download Persian Version:

<https://daneshyari.com/article/8876885>

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