

Accepted Manuscript

A nonlinear delayed model for the immune response in the presence of viral mutation

D. Messias, Iram Gleria, S.S. Albuquerque, Askery Canabarro, H.E. Stanley

PII: S0378-4371(17)30980-9
DOI: <https://doi.org/10.1016/j.physa.2017.09.088>
Reference: PHYSYA 18693

To appear in: *Physica A*

Received date: 26 May 2017

Please cite this article as: D. Messias, I. Gleria, S.S. Albuquerque, A. Canabarro, H.E. Stanley, A nonlinear delayed model for the immune response in the presence of viral mutation, *Physica A* (2017), <https://doi.org/10.1016/j.physa.2017.09.088>

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.



- We consider a delayed nonlinear model of the dynamics of the immune system against a viral attack which undergoes mutation;
- A finite time response of the immune system was considered;
- The delays induce sustained oscillatory behavior and also chaotic behavior.

Download English Version:

<https://daneshyari.com/en/article/7376488>

Download Persian Version:

<https://daneshyari.com/article/7376488>

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