

The effects of environmental disturbances on tumor growth

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(Submitted on 1 May 2012)

In this study, the analytic expressions of the steady probability distribution of tumor cells were established based on the steady state solution to the corresponding Fokker-Planck equation. Then, the effects of two uncorrelated white noises on tumor cell growth were investigated. It was found that the predation rate plays the main role in determining whether or not the noise is favorable for tumor growth.

Comments: 14 pages, 11 figures. Note: The paper will be published on volume 42 of the Brazilian Journal of Physics

Subjects: **Data Analysis, Statistics and Probability (physics.data-an)**; Cell Behavior (q-bio.CB)

Cite as: [arXiv:1205.0173](#) [physics.data-an]
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