Mathematical Modeling of the Darwinian Dynamics and the Immune Response to Cancer Evolution

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Abstract

In this work, we build upon our previous works in [2, 3] to derive a new mathematical model of the onset and evolution of cancer contrasted by the immune cells, using the approach of the kinetic theory of active particles as detailed in [1]. We present a qualitative analysis of the initial value problem and perform numerical simulations to show how some critical parameters affect the dynamics of the proposed model.

References

