

Analysis of cancer-immune system interactions model

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Abstract

We consider simplified model of cancer-immune system interactions for non-immunogenic tumours. The model is described as a system of three ODEs. We study asymptotic behaviour of this system, including existence of steady states, local stability of these states and possibility of bifurcations. We present some results concerning global stability for the states reflecting healthy organism as well as presence of tumour cells in the organism.

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