

Abstracts

Nonlinear Dynamical Formulation for Describing Growth of Cancer Cells Based on Intracellular Constituents

C.M. Krowne and A.P. Krowne. "Nonlinear Dynamical Formulation for Describing Growth of Cancer Cells Based on Intracellular Constituents." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1159-1162.

A set of equations characterizing the interactions between RNA, DNA and proteins is postulated to describe the growth of tumor cells. From this set of equations, a method to determine the fixed points of the system is presented including the use of the Jacobian matrix. Assessment of the nonlinear dynamics around these fixed points is provided.

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