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On The Stability of the Steady-State Solutions of Cell Equations in a Tumor Growth Model

The stability of the steady-state solutions of endothelial, pericyte and macrophage cells equations in a mathematical model originally presented in Levine, H.A., et al., A mathematical model for the roles of pericytes and macrophages in the initiation of angiogenesis. I. The role of protease inhibitors in preventing angiogenesis, Math.Biosci., 168(1) 2000, 77-115, is studied. Trajectories near the critical points are drawn and the biological importance of the results are provided.