

Sandra Delgadillo, Centro de Investigación en Matemáticas, A.C., Guanajuato, GTO. México
Francisco Solís, Centro de Investigación en Matemáticas, A.C., Guanajuato, GTO. México

A numerical study of the evolution of an aggressive heterogeneous tumor with different chemotherapy treatments

Discrete mathematical models are proposed to study the dynamics of an aggressive heterogeneous tumor. The models include the application of a chemotherapy treatment with a gradual effect. Another factor included in the models is the competence among the different tumor cells. An effective treatment index is introduced in order to analyze the evolution of the tumor and to compare different treatments.