

Mateusz Kopacz

Faculty of Mathematics, Informatics and Mechanics

Institute of Applied Mathematics, University of Warsaw

E-mail: mk248397@students.mimuw.edu.pl

A mathematical model of chemoradiotherapy

We propose a mathematical model that consists of three ordinary differential equations to analyse the dynamics between the population of healthy and cancer cells in a given tissue while the patient is treated by combined chemo- and radiotherapy. The local and global stability of the stationary point expressing cancer extinction is analysed. Also numerical results are presented.