

Multiscale Cancer Modeling



Edited by

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Multiscale Cancer Modeling Author Thomas S Deisboeck
Dec 201

Kevin Flores



Multiscale Cancer Modeling Author Thomas S Deisboeck Dec 201:

Multiscale Cancer Modeling Thomas S. Deisboeck, Georgios Stamatakis, 2010-12-08 Cancer is a complex disease process that spans multiple scales in space and time Driven by cutting edge mathematical and computational techniques in silico biology provides powerful tools to investigate the mechanistic relationships of genes cells and tissues It enables the creation of experimentally testable hypotheses the integration of data

Multiscale Modeling of Cancer Vittorio Cristini, John Lowengrub, 2010-09-09 Mathematical modeling analysis and simulation are set to play crucial roles in explaining tumor behavior and the uncontrolled growth of cancer cells over multiple time and spatial scales This book the first to integrate state of the art numerical techniques with experimental data provides an in depth assessment of tumor cell modeling at multiple scales The first part of the text presents a detailed biological background with an examination of single phase and multi phase continuum tumor modeling discrete cell modeling and hybrid continuum discrete modeling In the final two chapters the authors guide the reader through problem based illustrations and case studies of brain and breast cancer to demonstrate the future potential of modeling in cancer research This book has wide interdisciplinary appeal and is a valuable resource for mathematical biologists biomedical engineers and clinical cancer research communities wishing to understand this emerging field

Selected Topics in Cancer Modeling Nicola Bellomo, Elena de Angelis, 2008-12-10 This collection of selected chapters offers a comprehensive overview of state of the art mathematical methods and tools for modeling and analyzing cancer phenomena Topics covered include stochastic evolutionary models of cancer initiation and progression tumor cords and their response to anticancer agents and immune competition in tumor progression and prevention The complexity of modeling living matter requires the development of new mathematical methods and ideas This volume written by first rate researchers in the field of mathematical biology is one of the first steps in that direction

An Introduction to Physical Oncology Vittorio Cristini, Zhihui Wang, Eugene Koay, 2016-01-15 This book presents a theoretical multiscale modeling framework for the integration of processes spanning from molecular signaling to individual and collective cellular behavior to complex spatiotemporal dynamics at the tissue and organ levels It then gives a detailed discussion on how to incorporate experimental and patient data into the modeling framework The book also illustrates multiscale modeling approaches through several applications including breast cancer and mammary gland development lymphoma and leukemia growth the investigation of biobarriers to chemotherapeutic drugs and nanoparticle based delivering strategies

Multiscale Modeling of Cancer Kevin Flores, 2009

Cancer Modeling J.R. Thompson, 1987-08-31

Multiscale Modeling of Tissue Growth for Cancer Prognosis Mohammad Mamunur Rahman, 2016 Cancer is a major life threatening disease in the world With the advancement of computational mathematics big data science and unprecedented computational power it becomes possible to investigate the complex multiscale growth phenomenon of the tumor for cancer prognosis to provide pre operative treatment planning and predict treatment outcome using mathematical modeling and computer

simulation The growth of biological tissue is a complex process because it involves various biophysically and biochemically induced events at different spatial and temporal scales Multiscale modeling techniques allow us to incorporate important features at multiple scales to examine the tissue growth mechanism and determine the major factors affecting the growth process The primary objective of this doctoral research is to develop a multiscale modeling framework for the growth of biological tissue and apply to tumor growth and cancer prognosis Another objective of this study is to understand the effect of anticancer drugs on cancer cell growth cell proliferation and overall tumor size The multiscale framework consists of a tissue scale model a cellular activity and growth model and a subcellular signaling pathway model To predict the tissue growth in the macroscopic tissue scale a continuum model is constructed where the biological tissue is represented as a mixture of multiple constituents Each of such constituents in their solid liquid or gas phase are represented by either a volume fraction or concentration The constituents interact with each other through mass and momentum exchange The governing equations are developed based on both mass and momentum conservation laws The constitutive equations account for tissue anisotropy nonlinear behavior and thermodynamic consistency The system of partial differential equations are solved using finite element techniques To bridge the spatial scales each finite element is further discretized into finer cell clusters of different kinds to represent various biological cellular states at the microscopic scale to model cellular growth and proliferation by using an agent based model to determine various activities at the cellular scale such as the cell division cell death phenotypical alteration etc The cellular scale events are also broken down and discretized temporally to model the effects of a subcellular signaling pathway e g PI3K AKT mTOR pathway also known as mTOR pathway on the cellular and tissue scales In many cancers mTOR pathway becomes hyperactive and promotes abnormal cell proliferation The mechanism and effects of an mTOR inhibiting drug known as rapamycin e g eRapa are tested using in silico methods These subcellular activities are modeled using a set of ordinary differential equations A statistical inverse algorithm is used for model calibration and validation The Bayesian inference method accounts for the uncertainties of the model parameters which are calibrated with the experimental observations Generally speaking the multiscale modeling framework presented in this dissertation may provide better understanding of the tissue growth process by providing insight on the effects of various factors at different spatiotemporal scales It can also be potentially used to construct patient specific tissue growth models for in silico drug testing treatment planning and prognosis

Multiscale Modeling of Cancer Cell Adhesion Julie Marie Behr, 2013
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