

A flexible and extensible modelling framework for the simulation of vascular tumour growth: an extension to the CHASTE open source C++ library for computational physiology and biology

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Abstract

CHASTE (Cancer, Heart And Soft Tissue Environment) is an open source C++ library for the computational simulation of mathematical models developed for physiology and biology. Code development has been driven by two initial applications: cardiac electrophysiology and cancer development. ... [NOTE: This is to be completed ...]

Keywords: CHASTE - agent-based simulation - multi-scale model - vascular tumour growth - on-lattice model - off-lattice model

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- Insert a few bullets in here explaining major contributions of paper.

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1 Introduction

2 Design and implementation

3 Results and exemplar simulations

3.1 Avascular tumour spheroid growth

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3.1.2 Off-lattice

3.2 Vascular tumour growth

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3.3 An off-lattice model of corneal angiogenesis on a complex domain

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