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Multiscale cancer modeling may eventually help to explain not only why some therapies fail while others prove to be effective in controlling tumor progression, but also why a particular treatment works only in a fraction of patients. Models will have to incorporate patient-specific experimental and clinical data at all biological levels ...

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space and time, i.e., multiscale cancer modeling, is increasingly being recognized as a powerful tool to refine hypotheses, focus experiments, and enable more accurate predictions.

Multiscale Cancer Modeling | Annual Review of Biomedical ...

A multiscale model of the crypt based on the off lattice cell center was presented in Van Leeuwen et al. 6 This work coupled a previous model of the crypt 7 (which extended the earlier CA model but used force balance, instead of probabilities, to define cell-cell interactions) with a model of the cell cycle 8 developed for crypt epithelial cells.

Multiscale Model of Colorectal Cancer Using the Cellular ...

Abstract Cancer is an inherently multiscale process, wherein genetic lesions at the sub-nuclear level propagate to changes in

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intracellular biochemistry, cell-level behaviors, and ultimately to tissue-scale interactions that are also partially controlled by tumor cell-extrinsic aspects of the microenvironment.

Multiscale computational models of cancer - ScienceDirect

By using these proposed methods, multiscale cancer modeling may be extendable to chemotherapy for a realistic size of tissue. In order to simulate multiscale model, a hierarchical neural network called Nested Hierarchical Self Organizing Map (NHSOM) is used.

Multiscale cancer modeling: In the line of fast simulation

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"This volume covers state-of-the-art methods of multiscale cancer modeling and addresses the field's potential as well as future challenges ... It presents contributions from some of the

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top in silico modeling groups in the United States and Europe."

Multiscale Cancer Modeling (Chapman & Hall/CRC ...

Multiscale modeling of cancer : an integrated experimental and mathematical modeling approach. [Vittorio Cristini; John Lowengrub] -- "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.

Multiscale modeling of cancer : an integrated experimental ...

Multiscale Modeling of Cancer : an Integrated Experimental and Mathematical Modeling Approach.. [Vittorio Cristini; John Lowengrub] -- Uniquely connecting theory with experimental data, this book highlights the potential of advanced computational methods in cancer research. Your Web browser is

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Multiscale Modeling of Cancer : an Integrated Experimental ...

Multi-scale modeling also can contribute to a more fundamental understanding of lung cancer development and can reveal novel insights in how data at different scales are linked to each other.

Citation Format: Olivier Gevaert. Multiscale modeling of lung cancer [abstract].

Abstract IA32: Multiscale modeling of lung cancer ...

On the basis of the processes implicated by frequently mutated genes associated with inflammation and cancer in three organs (stomach, colon, and liver) extracted from the Gene Expression Omnibus, The Cancer Genome Atlas, and Gene Ontology databases, we present a multiscale model of the long-term evolutionary dynamics leading from inflammation to

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