

عنوان مقاله:

A tissue engineered model of breast cancer

محل انتشار:

یازدهمین کنگره بین المللی سرطان پستان (سال: 1394)

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خلاصه مقاله:

Introduction: MCF-7 cell line almost uses in breast cancer research. To mimic the tumor microenvironment outside the human body for drug testing, twodimensional(2-D) and tumor models are routinely used. Although these conventional approaches are employed in preclinical studies, they still present challenges and cancer biologists are increasingly aware that flat, monolayer cultures poorly represent in vivo tumor behavior, such models are still extensively used. So there is a natural convergence between tissue engineering and cancer. A tissue-engineered tumor model that recreates the 3D structure could improve the current preclinical drug screening. Methods and Materials: We made a tissue engineered 3D breast tumor model. The breast tissue was decellularised with chemical agents. MCF-7 cells seeded in decellularized tissue for 4 weeks. The cell proliferation of the s in scaffold was study with electronic microscope. Results and Discussion: Breast tissue easily decellularized. MCF-7 cell growth in it for 4 weeks and form (tumor like mass. This engineered tissue cultured in vitro for during study (4 weeks

کلمات کلیدی:

Breast cancer, Tissue engineerind, Decellularization

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