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Mar 01, 2020 · Four types of animal models are widely accepted in cancer research: syngeneic models, genetically engineered mouse models (GEM), chemically-induced models and xenograft models. Xenografts can be further divided based on the source of the tumor – xenografts with conventional cell lines (cell line-derived xenografts, CDX) or with use of specimens obtained from patients with RCC ...

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Mar 01, 2014 · Stern et al. showed that culture plates coated with ECM derived from skeletal muscle increased proliferation of C2C12 cells (a mouse myoblast cell line) as well as rat and human muscle

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 64598

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Syngeneic implantation of mouse hepatic progenitor cell-derived three-dimensional liver tissue with dense collagen fibrils

Hepatic progenitor cell-derived 3-D liver tissue model

Abstract

BACKGROUND

Liver transplantation is a therapy for irreversible liver failure; however, at present, donor organs are in short supply. Cell transplantation therapy for liver failure is still at the developmental stage and is critically limited by a shortage of human primary hepatocytes.

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Mar 01, 2008 · Through the production of chemokines, growth factors, and matrix-degrading enzymes (Table 1), supportive cells—including fibroblasts, immune cells, and bone marrow (BM)-derived stem and progenitor cells—support blood vessel formation, break down basement membrane barriers, and attract tumor cells to distant sites. Tumor cells are constantly ...

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Author: Jared Wels, Rosandra N. Kaplan, Shahin ...

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[Biomaterials for liver tissue engineering | SpringerLink](#)

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Dec 27, 2013 · A liver organoid tissue was constructed in a bioreactor over a polylactic acid fabric by combining collagen fibrils, fibroblasts and HepG2 cells. The construct, on implantation into mice, showed repopulation with oval or spherical hepatocytes and engraftment with surrounding tissue.

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Sep 28, 2014 · Moreover, the cell sheet layering strategy with suitable vascularization will provide three-dimensional dense tissue as grafts for tissue replacement and tissue models for disease research and drug screening. We hope that our further efforts will contribute to the ...

Cited by: 191

Author: Katsuhisa Matsuura, Rie Utoh, Kenichi N...

Publish Year: 2014

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Three-dimensional (3D) cell culture is critical for understanding the function of cells in a physiologically relevant context and for tissue engineering complex solid organs like the liver [1]. 3D ...

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