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Three-dimensional cell culture systems as an in vitro platform for cancer and stem



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Three-dimensional cell culture model utilization in cancer ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/brv.12293>

Aug 22, 2016 · Three-dimensional (3D) assays are known to stimulate **in vivo cellular** conditions better in comparison with traditional **two-dimensional (2D) cell culture systems** and influence the formation of a subpopulation of **cancer cells** with stem cell-like properties, providing new insights into **cancer treatment** and **cancer stem cell (CSC)** research (Chen et al., 2012). Recent studies have identified the presence of a small subpopulation of **cells** ...

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Author: Zofia F. Bielecka, Kamila Maliszewska-Ol...

Publish Year: 2017

Three-Dimensional Cell Culture Systems and Their ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4026212>

May 01, 2014 · Three-dimensional (3D) cell culture systems have gained increasing interest in **drug discovery** and **tissue engineering** due to their evident advantages in providing more physiologically relevant information and more predictive data for **in vivo tests**.

Cited by: 725

Author: Rasheena Edmondson, Jessica Jenkins ...

Publish Year: 2014

Three-Dimensional Cell Culture: A Breakthrough in Vivo

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4394490>

Mar 11, 2015 · Three-dimensional cultures are **in vitro** cultures where **immortalized cell lines**, **stem cells**, or **explants** are placed within **hydrogel matrices** that **mimic in vivo cell environments**.

Cited by: 279

Author: Delphine Antoni, Hélène Burckel, Elodie J...

Publish Year: 2015

Three-dimensional cell culture: from evolution to ...

<https://royalsocietypublishing.org/doi/full/10.1098/rstb.2017.0216>

Following infection of **dissociated cells**, the infected cells are seeded in a **three-dimensional matrix** to form **three-dimensional organoids** within a few days. This method was employed to study **gene expression manipulations** using a specific **lentiviral system** [103] and can be used to **model different infectious disease models** [98 , 104 , 105].

Cited by: 3

Author: Sharmin Alhaque, Sharmin Alhaque, Mic...

Publish Year: 2018

31
1 **Name of Journal:** World Journal of Stem Cells
2 **Manuscript NO:** 46664
3 **Manuscript Type:** REVIEW
4
5 **Three-dimensional cell culture systems as an *in vitro* platform for cancer and stem cell**
6 **modeling**
7
8 Chaicharoenaudomrung N *et al.* 3D cell platform for cancer and stem cells
9
10 Nipha Chaicharoenaudomrung, Phongsakorn Kunhorm, Parinya Noisa
11
12 **Abstract**
13 Three-dimensional (3D) culture systems are becoming increasingly popular due to their
14 ability to mimic tissue-like structures more effectively than the monolayer cultures. In
15 cancer and stem cell research, the natural cell characteristics and architectures are closely
16 mimicked by the 3D cell models. Thus, the 3D cell cultures are promising and suitable
17 systems for various proposes, ranging from disease modeling to drug target
18 identification, as well as potential therapeutic substances that may transform our lives.
19 This review provides a comprehensive compendium of recent advancements in culturing
20 cells, in particular cancer and stem cells, using 3D culture techniques. The major
21 approaches highlighting here included cell spheroids, hydrogel embedding, bioreactors,
22 scaffolds, and bioprinting. In addition, the progress of employing 3D cell culture systems
23 as a platform for cancer and stem cell research was addressed, and the prominent studies

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... for use of tumor spheroids as models to test drug ... - Mehta - 被引用次数：504

Microfluidic cell culture models for tissue engineering - Inamdar - 被引用次数：123

[PDF]

3D Cell Culture Platform In Vitro/Ex Vivo Assays for Cancer ... - HubSpot

https://cdn2.hubspot.net/hubfs/1933423/.../3D_Cell_Culture_Factsheet.pdf - 翻译此页

CrownBio's extensive platform of 3D ex vivo and in vitro assays ... However, culturing cells on flat plasticware results in artificial 2D monolayering, with cells suffering ... the question as to whether a 2D cell culture model represents, with sufficient fidelity, the ... Characterizing cancer cells with cancer stem cell-like features.

Algimatrix™ Based 3D Cell Culture System as an In-Vitro Tumor ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone...> - 翻译此页

作者：C Godugu - 2013 - 被引用次数：143 - 相关文章

2013年1月18日 - Matrix-based 3D in-vitro culture models are increasingly becoming essential ... H1650 NSCLC stem cells were also developed as 3D in -vitro tumor ... from the in vitro tumor models suggest that Algimatrix™ 3D platform is a ...

(PDF) Concise Review: 3D cell culture systems for anticancer drug ...

https://www.researchgate.net/.../303566644_Concise_Review_3D_cell_cultu... - 翻译此页

2016年5月27日 - Phuc Van Pham at Stem Cell Institute, Ho Chi Minh City University of Science ... Thus, 3D cell cultures are more promising and suitable models, particularly for in vitro drug ... models, particularly for in vitro drug screening to predict in vivo efficacy. Different ... multicellular tumor spheroid (MCTS) systems, the ...