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[Microfluidic 3D cell culture: from tools to tissue models - ScienceDirect](#)

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[High-Throughput Microfluidic Platform for 3D Cultures ... - ResearchGate](#)

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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 47498

Manuscript Type: REVIEW

Microfluidic three-dimensional cell culture of stem cells for high-throughput analysis

Kim JA *et al.* Microfluidic 3D cell culture of stem cells

Jeong Ah Kim, Soohyun Hong, Won Jong Rhee

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- 1 **Internet** 80 words
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11.3. Examples of **microfluidic** platform for **stem cell analysis**: **stem cell culture** platform – mimicking in vivo **culture** conditions in vitro. In the above sections, we introduced various platform technologies in microfluidics, including miniaturized **cell culture** systems, miniaturized analytical tools, and **cell** separators/sorters.

Cited by: 1 **Author:** D.-K. Kang, J. Lu, W. Zhang, E. Chang, ...

Publish Year: 2013

Stem cells in microfluidics - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3082338>

In recent years, there have emerged a variety of applications for **stem cells** in **microfluidic systems**. The **microfluidic stem cell systems** are categorized according to **stem cell types** and are presented in Table Table3. **3**. Briefly, a comparison of the origins, **differentiation pathways**, and **microfluidic** applications between **stem cell types** including ESCs, HSCs, **MSCs**, NSCs, and **CSCs** is described.

Cited by: 88 **Author:** Huei-Wen Wu, Chun-Che Lin, Gwo-Bin ...

Publish Year: 2011

Automated microfluidic cell culture of stem cell derived ...

<https://www.nature.com/articles/s41598-018-34828-3>

Feb 11, 2019 · We illustrate the functionality of the Pelican for automated **cell culture** and differentiation of human neuroepithelial **stem cells** into dopaminergic neurons, within a **three-dimensional microfluidic** ...

Author: Khalid I. W. Kane, Edinson Lucumi M... **Publish Year:** 2019

Author: Khalid I. W. Kane

Development of high throughput microfluidic cell culture ...

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Jul 05, 2011 · Development of high throughput **microfluidic cell culture** chip for perfusion 3-dimensional **cell culture**-based chemosensitivity assay Author links open overlay panel Min-Hsien Wu a 1 Yu-Han Chang b c 1 Yen-Ting Liu a Yan-Ming Chen a Shih-Siou Wang a Hsin-Yao Wang c Chao-Sung Lai d Tung-Ming Pan d