

4 HTML形式的完整功能

Access for partners

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5. Prospective Identification of Cancer Stem Cells with the Surface Antigen CD133

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Book Title: [Cancer Stem Cells - Methods and Protocols](#)

Series: Methods in Molecular Biology | Volume: 568 | Pub. Date: Mar-01-2008 | Page Range: 57-71 | DOI: 10.1007/978-1-59745-280-9_5

Subject: [Cancer Research](#)

Abstract

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Cancer cells do not share equal tumor-initiating potential. Only cancer stem cells (CSCs) can initiate cancer, which is important clinically because they should be eradicated to treat cancer patients. The purpose of experimental methods for identification of CSC is to isolate CSCs among various kinds of cancer cells in cancer masses. To identify CSCs, cancer masses derived from patients should be dissociated into single cells. Dissociated cells are classified into several groups according to expression status of one or several surface proteins using magnetic cell sorting (MACS) or fluorescence-activated cell sorting (FACS) methods. Sorted cells are cultured in a specialized culture medium for stem cells inoculated into the primary cancer site of immunodeficient mice. In this chapter detailed experimental methods will be described and glioblastoma will be used as an example of solid cancers.

Key Words: [Cancer stem cell](#) - [Marker](#) - [Glioblastoma](#) - [Dissociation methods](#) - [Primary culture](#) - [MACS](#) - [FACS](#) - [Animal model](#)

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1 主页 springerprotocols.com

The screenshot shows the homepage of Springer Protocols. On the left, there's a sidebar with links for 'Mobile', 'Upload a Protocol', 'Protocol Alert', 'Video Protocols', 'Comments', 'Favorites', and 'RSS'. The main content area has a search bar, a 'Browse by Subject' section with categories like Biochemistry, Bioinformatics, and Cell Biology, and a 'Most Popular Protocols' section. A sidebar on the right is titled 'Inside SpringerProtocols' and includes links for 'Source Title List', 'New Protocols', 'Free Protocols', 'Popular Protocols', 'Tour', 'For Contributors/Editors', and 'For Library Admins'. A 'LabratJobs' section is also present.

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2 快速搜索

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The screenshot shows the 'Search Protocols' page. A search bar contains the query 'cancer stem cell' 'identification' 'isolation'. Below the search bar is a 'Search' button and an 'Advanced Search' link.



The screenshot shows the search results page for the query 'cancer stem cell' 'identification' 'isolation'. It displays 17 results. The results are categorized by subject, year, and author. Some results are marked as 'Free', 'Subscribed', or 'Trial'. The results are as follows:

- Prospective Identification of Cancer Stem Cells with the Surface Antigen CD133 (Author: Kyeung Min Joo, Do-Hyun Nam)
- Biomarkers in Breast Cancer (Author: Maria dM. Vivanco)
- Identification of Human Pancreatic Cancer Stem Cells (Author: Chenwei Li, C. J. Lee, Diane M. Simeone)

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Browse by Year

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