Advances in the bladder cancer research using 3D culture models

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Abbreviation used: 20, two-dimensional; 30, three-dimensional; NARBC, Non-muscle investive bladder cancer; MBC, muscle-investive bladder cancer; USC, The Union for International Cancer Control; TURBIT, Transumstrial removal of bladder turnor; ADM, Adriamycin; HCPT, hydroxycamptone; BCC, Bacillus Celmette Guerin vaccine; GC, Cancillabins plus cispstate; SNAC, methodrexiate, virbinatins, caspstate; SNAC, methodrexiate, virbinatins, caspstate; SNATT, n-pt-(5-nitro-2-tury); -2-thiazoly); formanide; BBN, N-butyl-N-(3-brito-2-tury); -2-thiazoly); formanide; BBN, N-butyl-N-(3-brito-2-tury); -2-thiazoly); processing; Gettin, methodrexiate; -2-thiazoly); processing; Gettin, methodrexiate; -2-thiazoly); -2-thiazoly; -2-t

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ABSTRACT

Bladder cancer represents the most common malignancy of the urinary system, posing a significant threat to patients' life. Animal models and two-dimensional (2D) cell cultures, among other traditional models, have been used for years to study various aspects of bladder cancer. However, these methods are subject to various limitations when minicing the turnor microenvironment in vivo, thus hindering the further improvement of bladder cancer treatments. Recently, three-dimensional (3D) culture models have attracted extensive attention since they overcome the shortcomings of their traditional counterparts. Most importantly, 3D culture models more accurately reproduce the turnor microenvironment in the human body because they can recapitulate the cell-cell and cell-extracellular matrix interactions. 3D culture models can thereby help us gain deeper insight into the bladder cancer. The 3D culture models of turnor cells can extend the culture duration and allow for co-culturing with different cell types. Study of patient-specific bladder cancer mutations and subtypes is made possible by the ability to preserve cells isolated from particular patients in 3D culture models. It will be feasible to develop customized treatments that target relevant signaling pathways or biomarkers. This article reviews the development, application, advantages, and limitations of traditional modeling systems and 3D culture models used in the study of bladder cancer and discusses the potential application of 3D culture models.

Keywords: bladder cancer, cell culture, 3D culture models, 3D bioprinting

1. BACKGROUND

Bladder cancer is a malignant tumor resulting from the uncontrolled proliferation of abnormal cells in the bladder. It is one of the commonest malignant tumors of the urinary system. According to the World Health Organization, nearly 430,000 patients are diagnosed with bladder cancer and more than 165,000 died of the cancer annually [1]. An epidemiological report released in 2019 stated that the incidence rate and mortality rate of bladder cancer rank among the top ten in China [2].

Bladder cancer presents a severe threat to public health due to its high recurrence rate and mortality rate. The current "onesize-fits-all" approach is not, by many, deemed the best strategy since it does not consider the potential impact of patient-specific genetic variations on drug response. Therefore, it is essential to develop new treatments. 2D cell cultures are primarily used in basic and clinical research of drugs. Cell culture is an essential technique employed in drug development, providing a simple, rapid, and economical way. 2D cell culture is a valuable technique for cell-based research, but it has limitations. Practically, all cells in the in vivo environment are surrounded by extracellular matrix and other cells. Therefore, 2D cell culture sometimes provides unreliable data that may mis-represent in vivo responses. Currently, the standard procedure of compound screening in new drug development starts with the test based on 2D cell culture, followed by animal tests and clinical trials. Only

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Advances In Bladder Research

David Kirk



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