



Cancer Cell Culture: Methods and Protocols (Methods in Molecular Medicine)

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Expert researchers describe in detail their most productive and up-to-date methods for growing cancer cells in the laboratory. There are methods to characterize and authenticate cell lines, to isolate and develop specific types of cancer cells, and to develop new cell line models. Functional assays are provided to evaluate clonogenicity, cell proliferation, apoptosis, adhesion, migration, invasion, senescence, angiogenesis, and cell cycle parameters. Other methods permit the modification of cancer cells for transfection, development of drug resistance, immortalization, and transfer *in vivo*; the co-culture of different cell types; and the detection and treatment of contamination.

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Editorial Review

Review

...I recommend this book as a good starting point to anyone new to cancer cell culture. There are many general principles to be gleaned from the authors' experience...if one gets frustrated after repeated unsuccessful attempts to establish, characterize, and manipulate one's own primary cancer cell line, Dr. Langdon has made sure there is an appendix that catalogues well-established cell lines, and provides the contacts necessary to obtain these cell lines. -- *Cancer Biology & Therapy*

"...concise and clearly presented...interesting and straightforward information..." - *Zellbiologie Aktuell*

"Comprehensive and highly practical...provides both basic scientists and clinical researchers with a gold-standard collection of advanced techniques for culturing cancer cells effectively in their laboratories." - *Tumori*

From the Back Cover

The growing of cancer cells in the laboratory has been a powerful tool for studying and understanding the biology of cancer and the effects of drugs on cancer cells. In *Cancer Cell Culture: Methods and Protocols*, expert researchers describe in detail their most productive and up-to-date methods for growing cancer cells in the laboratory. Suitable for novice and experienced researchers alike, these readily reproducible techniques solve a diverse range of experimental problems. There are methods to characterize and authenticate cell lines, to isolate and develop specific types of cancer cells, and to develop new cell line models. Functional assays are provided to evaluate clonogenicity, cell proliferation, apoptosis, adhesion, migration, invasion, senescence, angiogenesis, and cell cycle parameters. Other methods permit the modification of cancer cells for transfection, development of drug resistance, immortalization, and transfer *in vivo*; the coculture of different cell types; and the detection and treatment of contamination. Each fully tested protocol is described in step-by-step detail by an established expert in the field and includes a background introduction explaining the principle behind the technique, equipment and reagent lists, and tips on troubleshooting and avoiding known pitfalls.

Comprehensive and highly practical, *Cancer Cell Culture: Methods and Protocols* provides both basic scientists and clinical researchers with a gold-standard collection of advanced techniques for culturing cancer cells effectively in their laboratories.

Users Review

From reader reviews:

Carol Hughes:

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