



## **Cancer Cell Culture: Methods and Protocols (Methods in Molecular Biology)**

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## Cancer Cell Culture: Methods and Protocols (Methods in Molecular Biology)

With many recent advances, cancer cell culture research is more important than ever before. This timely edition of *Cancer Cell Culture: Methods and Protocols* covers the basic concepts of cancer cell biology and culture while expanding upon the recent shift in cell culture methods from the generation of new cell lines to the use of primary cells. 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 for the evaluation of clonogenicity, cell proliferation, apoptosis, adhesion, migration, invasion, senescence, angiogenesis, and cell cycle parameters. Other methods permit the modification of cells for transfection, drug resistance, immortalization, and transfer in vivo, the co-culture of different cell types, and the detection and treatment of contamination. In this new edition, specific emphasis is placed on safe working practice for both cells and laboratory researchers. These chapters contain the information critical to success – only by good practice and quality control will the results of cancer cell culture improve. Written in the successful *Methods in Molecular Biology*<sup>™</sup> series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and accessible, *Cancer Cell Culture: Methods and Protocols* serves as a practical guide for scientists of all backgrounds and aims to convey the appropriate sense of fascination associated with this research field.

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