



Metastasis Research Protocols

By -

Humana Press Inc. Paperback. Condition: New. 344 pages. Dimensions: 9.0in. x 6.0in. x 0.8in. Metastasis Research Protocols describes in detail all the methods needed to investigate why and how metastasis occurs. Volume I presents a comprehensive collection of established and leading-edge techniques for analyzing the expression of key molecules and for examining their production at the genetic level. The work focuses on the analysis and mapping of molecules produced by cells and tissues, and on the molecular biology underlying their expression. The traditional methods range from the histopathological and the immunocytochemical to SDS-PAGE, Western blotting, and enzyme zymography. Newer and more specialized techniques for analyzing the genetic aspects of metastasis include in situ hybridization to localize mRNAs, FISH, CGH, methylation analysis of CpG islands, RT-PCR, and differential display. Volume II presents a comprehensive collection of established and leading-edge techniques for examining metastatic behavior in vitro and whole animal models. Methods are provided for the separation of cell lines with high and low metastatic potential, along with assay systems to test defined aspects of the metastatic cascade. These systems include cell migration assays, assays for matrix degrading enzymes, basement membrane degrading assays, adhesion assays, and assays of angiogenesis. The detailed descriptions of...



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