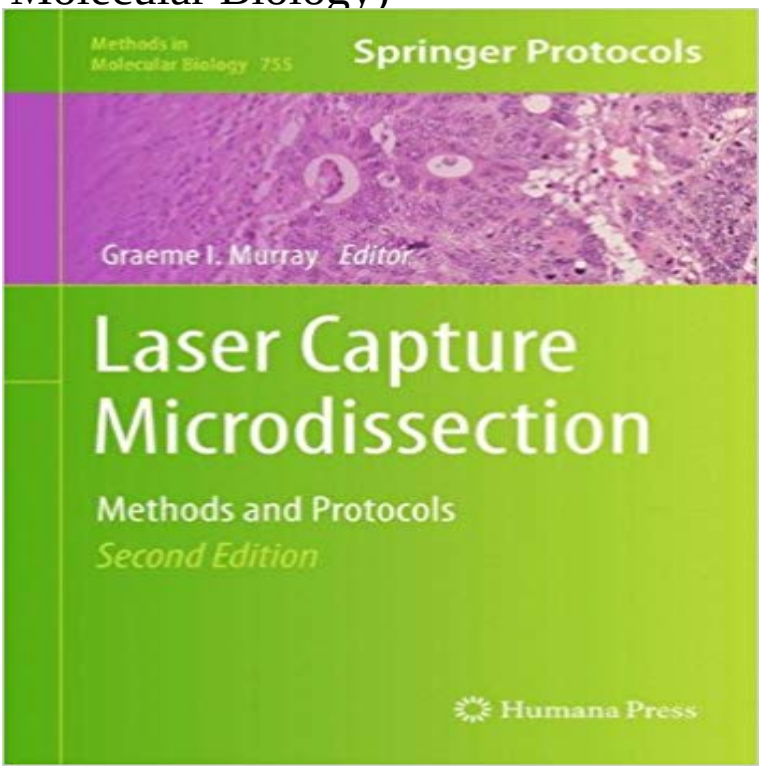
Laser Capture Microdissection: Methods and Protocols (Methods in Molecular Biology)



Laser microdissection techniques have revolutionized the ability of researchers in general, and pathologists in particular, to carry out molecular analysis on specific types of normal and diseased cells and to fully utilize the power of current molecular technologies including PCR, microarrays, and proteomics. In second edition of Laser Capture Microdissection: Methods and Protocols, experts in the field provide the reader with practical advice on how to carry out tissue-based laser microdissection successfully in their own laboratory using the different laser microdissection systems that are available and to apply a wide range of molecular technologies. The individual chapters encompass detailed descriptions of the individual laser based micro-dissection systems. The downstream applications of the laser microdissected tissue described in the book include PCR in its many different forms as well as gene expression analysis including application to microarrays and proteomics. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.Authoritative and cutting-edge, Laser Capture Microdissection: Methods and Protocols, Second Edition is an ideal resource for researchers striving to move forward our understanding of normal physiology and pathology.

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