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Laser Capture Microdissection

Methods and Protocols

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Preface

Laser microdissection techniques have revolutionized the ability of researchers, generally, and pathologists in particular, to carry out molecular analysis on specific normal and diseased cells and fully utilize the power of current molecular technologies, including polymerase chain reaction (PCR), microarrays, and proteomics. The primary purpose of *Laser Capture Microdissection: Methods and Protocols* is to provide readers with practical advice on how to carry out tissue-based laser microdissection successfully in their own laboratories using the microdissection systems available and how best to apply a wide range of molecular technologies. The individual chapters encompass detailed descriptions of each of the laser-based microdissection systems. Applications of the laser microdissected tissue described in the book include PCR in its many different forms and gene expression analysis involving microarrays and proteomics.

The editors are especially grateful to all the contributing authors for the time and effort they have put into writing their chapters.

The series editor, John Walker, has expertly guided us through the editorial process, while Craig Adams of Humana Press has been very helpful in dealing with all the publication related issues.

We are particularly pleased to acknowledge the excellent secretarial support of Ms. Anne McMillan of the Department of Pathology, University of Aberdeen who helped us deal efficiently with all the correspondence relating to this book. We hope the readers will find this volume valuable.

Graeme I. Murray
Stephanie Curran

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