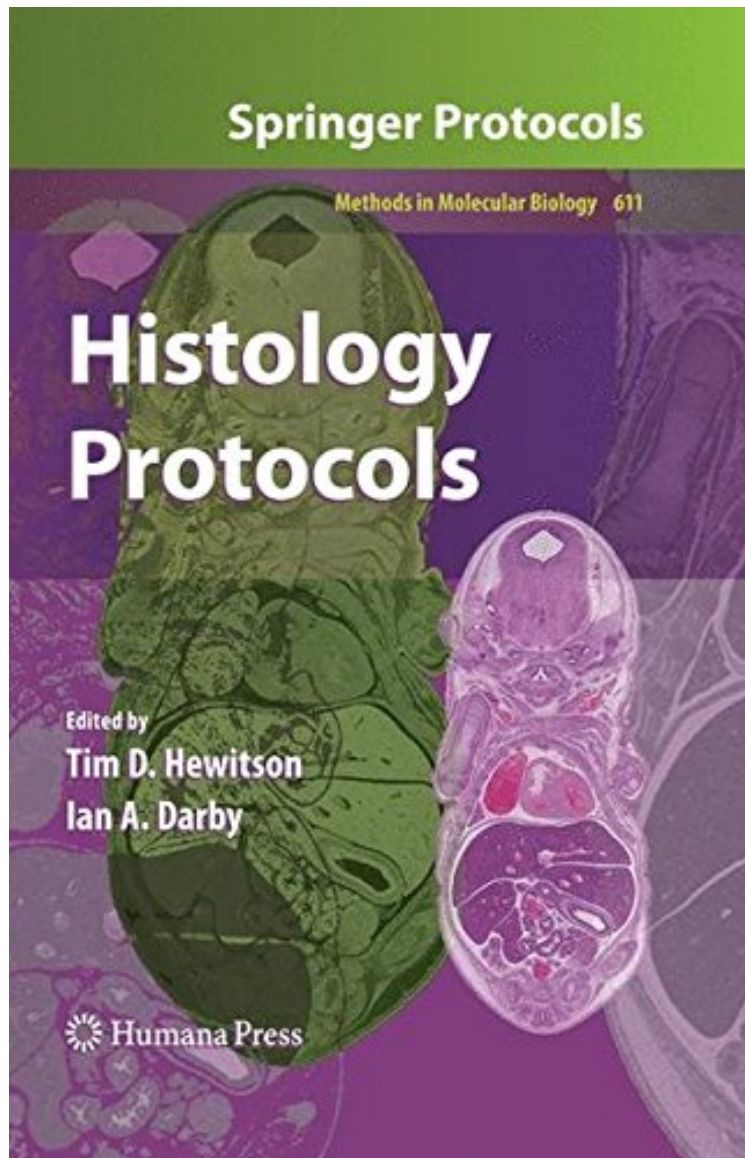


[Mobile ebook] Histology Protocols (Methods in Molecular Biology)

## Histology Protocols (Methods in Molecular Biology)

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**From Brand: Humana Press : Histology Protocols (Methods in Molecular Biology)** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Histology Protocols (Methods in Molecular Biology):

1 of 1 people found the following review helpful. ProtocolsBy Janelle L LivesayI was looking for something slightly more in depth such as the methods by which the staining is done, but this book has been surprising helpful in explaining some of the background for the methods.

Somuchofwhatweknowaboutthepathogenesisofhumandiseasehascomefromthesystematicandcarefulstudyofhistologicalmaterial.Indeed, every internal medicine discipline has its landmark papers describing the clinico-pathological correlations. However, increasingly, it is molecular and cellular biology that provides the necessary mechanistic insights. For many years, it was thought that the two skill sets were mutually exclusive, but we hope that this book shows that this is not necessarily so.

Implicitinthescienceofhistologyisthepreservationandarchivingoftissue.PartIofthebookconcentratesonthe preparation of tissue, providing an overview of fixation, embedding, and processing (Chapter 1), and in Chapters 2 and 3, the required techniques for the retrieval of RNA from histological sections. Both routine and specialist histological staining techniques are provided in Part II. These include protocols for immuno (Chapters 4, 7), lectin (Chapter 8), and hybridization (Chapter 9) histochemistry, histological staining (Chapters 10 and 11), as well as specific methods for the in situ identification of hypoxia (Chapter 12) and apoptosis (Chapter 13). Finally, Part III details advances in imaging (Chapters 14-16) and image analysis (Chapter 17). It is hoped that this volume will provide molecular biologists with the basic histochemical techniques and histologists with the molecular techniques to realise the potential of their resource. We are indebted to the authors for their generosity in sharing these protocols.

From the reviews: This slim volume aims to provide molecular biologists with the basic histochemical techniques and histologists with the molecular techniques to realise their potential of their resource. I enjoyed reading this book. This book is not particularly expensive and is so comprehensive and well written that I would certainly recommend it to anyone thinking of setting up a research project but uncertain what sort of method to use. It would also be a valuable asset to any departmental library. (Anne Patricia Campbell, Bulletin of the Royal Society of Pathologists, Issue 154, April, 2011) Reports the basic techniques of immunohistochemistry and molecular biology used to optimize resources and obtain accurate results. This book is recommended to students and researchers using the laboratory techniques on histology described. Updated protocols are described by renowned scientists in the area using understandable language while details of possible interference are given for each technique. Tim D. Hewiston and Ian A. Darby have undertaken several studies on histology, many of which were conducted in collaboration with the authors contributing to this book. (Rui Curi, Brazilian Journal of Pharmaceutical Sciences, Spring, 2011) This volume in the Methods in Molecular Biology series provides a compendium of proven protocols for modern histology. Written for basic science and clinical researchers interested in mapping the location and distribution of biomarkers, the book also will be appreciated by lecturers and students specializing in biomedical technology, histology, and clinical laboratory medicine. The book is well written and carefully edited, and will be a welcome resource for all basic science and clinical researchers studying modern cell biology. (Bruce A. Fenderson, Doodys Service, June, 2010) From the Back Cover With much of what we know about the pathogenesis of disease coming from the systematic and careful study of histological material, histology has proven to be an incredibly valuable area of study. In Histology Protocols, expert researchers in the field contribute detailed methods involving the preparation of tissue, providing an overview of fixation, embedding, and processing, along with the required techniques for the retrieval of RNA from histological sections, followed by sections on routine and specialist histological staining techniques, including immuno-, lectin, and hybridization histochemistry, histological staining, as well as specific methods for the in situ identification of hypoxia and apoptosis, and details on the advances in imaging and image analysis. 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 notes on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Histology Protocols will provide molecular biologists with the basic histochemical techniques and histologists with the molecular techniques necessary to realize the potential of their resource.