

Histological And Histochemical Methods Theory And Practice By J A Kiernan

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"Pressestimmen John Kiernan has published extensively on histochemical methods since his first scientific

paper in 1964. His textbook encompasses his wide personal experience and interest in dyes, staining and histochemical methodologies. It is exceptional that he is the sole author of such a compendium in light of the wide range and amount of material included... To understand the mechanisms or pitfalls involved in a specific histochemical technique, one usually can find the answer in only a very select group of books that deal with the theory and practice of histological and histochemical techniques. It was a pleasure to see that John Kiernan continues to update his book. Most practicing histochemists and research students involved in biomedical research and diagnostic histopathology tend to use histochemical methods without understanding the chemistry involved in the staining reactions or the limitations of the procedures. It is common practice to use a recipe book of histological and histochemical methods and follow the procedures. Unfortunately, there is an overall lack of interest in the chemistry of the dyes or how they stain specific products in cells and tissues and the last time that many histochemists considered chemical formulae was often during their undergraduate studies. The current book by Kiernan takes into account the chemistry involved with the premise that such knowledge makes us better histochemists and researchers. Or in the words of the author: 'It cannot be overemphasized that unless the student or technician understands the rationale of all that is to be done, he will not do it properly'. A similar situation occurs in recording images with a microscope. If you understand the construction of the instrument and its optical components and set it up accordingly, you will be a much better microscopist and obtain optimal images. The first edition of this book appeared in 1981, with subsequent editions in 1990 and 1999. This latest edition includes in a single volume an extensive survey of the chemical and physical principles of fixation, staining, and histochemistry. In addition to the classical techniques still in use, the new edition has been expanded to include more recent developments and includes newer procedures that are anticipated to become standard methods in research and diagnostic histopathology. The book encompasses the relations of chemical structures and reactions to fixation, tissue processing, staining, enzyme localization and immunohistochemistry. The first four chapters contain descriptions of the newer reagents and techniques, with subsequent chapters dealing with historical 'classical' staining with dyes. The chapter on nucleic acids now includes discussion of in situ hybridization and methods for detecting apoptotic cells. Although the histological and histochemical techniques for animal tissues predominate, there is now some discussion and methodology also applicable to fixation, processing and staining of plant tissues and microorganisms. The bibliography is extensive and encompasses over 1300 references. The text is written in classical English spelling and not US spelling (e.g. colour, haematoxylin, sulphuric, bisulphite etc.). I do not know how this affects the readership in the major markets in the US. The author tries to correct the inconsistencies of biologists in their spelling of names of dyes. The ending '-ine' should be used when the dye is an amine or a derivative of an amine (e.g. fuchsine and not fuchsin, safranine and not safranin), whereas for a dye that is not an amine, there is no terminal 'e' (e.g. eosin and not eosine, haematein and not haemateine). I think that the widespread use of incorrect spelling (e.g. fuchsin) will mean that this spelling has now become the custom and acceptable, apart from correction of manuscripts by pedantic and critical editors. It may be a surprise for the general reader to learn that hematoxylin is not a dye, but only after its partial oxidation to its active ingredient, hematin. This explains why we leave freshly made hematoxylin solution to mature in order for it to become effective (if you do not purchase a commercial solution of hematoxylin, which now seems to be common practice). The correct term for H & E staining is

Hemalum and Eosin. I was also pleased that the correct explanation for the von Kossa technique was given. It is commonly designated as a histochemical method for calcium but it is really a method for phosphate and carbonate, the anions with which the metal is associated in normal and pathological calcified tissues. I personally believe that this text should be found on the bookshelves of every histology and histochemistry laboratory as a basic reference source. It is not a book to be read from start to finish, but should be consulted by researchers and in particular students before undertaking histochemical staining procedures. The book is very reasonably priced and to be objective, the purchase price is less than the cost of one or two antibodies or most laboratory chemicals, which, unlike a book, have a very limited life. -- Raymond Coleman Acta Histochemica Synopsis The chemical and physical principles of fixation, staining, and histochemistry in one complete volume! Now in its fourth edition, 'Histological and Histochemical Methods' has been expanded and thoroughly updated with the latest techniques and developments within the field, whilst retaining the details of the classic techniques still in use. The relations of chemical structures and reactions to fixation, tissue processing, staining, enzyme location, immunohistochemistry and other procedures are explained in simple, descriptive terms. As well as being a textbook, further references and more detailed information are available for those who wish to study a topic in more depth. This book is firmly established as a resource for researchers, students and technologists in biological and biomedical sciences for more than 25 years. There are comprehensive discussions of the chemical and biological mechanisms. Understanding of these mechanisms is a prerequisite for troubleshooting, and for the detailed practical instructions for using the techniques which follow. The integration of the theoretical and practical material enables the reader to understand the reasoning behind each step. Anyone preparing biological specimens for light microscopy will find this to be an invaluable companion. This book is recommended for lecturers and students in biological and biomedical disciplines using histological and histochemical techniques. Postgraduate researchers will also find this to be the ideal laboratory companion, as will medical laboratory technologists preparing for their professional examinations."

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Histological and histochemical methods by professor john a kiernan is a classic in the histochemical literature since its first edition in 1981 it is hard to decide what actually is the main reason for the success of this valuable book students research workers or technologists may here find a careful description of the basics of fixation embedding and staining the reactions of the.

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The chemical and physical principles of fixation staining and histochemistry in one volume now in its fourth edition histological and histochemical methods has been expanded and updated with the latest techniques and developments within the field whilst retaining the details of the classic techniques still in use the relations of chemical structures and reactions to fixation tissue

Some of the silver methods used to detect minute amounts of protein in western blots physical development was discovered for photography and histology by liesegang 1911 and reintroduced to histological practice in 1955 by alan peters who went on to bee a great authority on the

ultrastructure of nervous tissue especially.

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This fifth edition of histological and histochemical methods provides a clear and consistent introduction to the subject for lab professionals and students rating not yet rated 0 with reviews be the first.

The chemical and physical principles of fixation staining and histochemistry in one volume now in its fourth edition histological and histochemical methods has been expanded and updated with the latest techniques and developments within the field whilst retaining the details of the classic techniques still in use the relations of chemical structures and reactions to fixation tissue processing staining enzyme location immunohistochemistry and other procedures are explained in simple. Histological and histochemical methods

theory and practice by j a kiernan pergamon press oxford 1981 344 pages 529 00 hardback f10 50 paperback this book describes in twenty chapters the basic staining and other histochemical reactions monly used when preparing biological material for. Trove find and get australian resources books images historic newspapers maps archives and more this fifth edition of lt b gt lt i gt histological and histochemical methods lt i gt lt b gt provides a clear and consistent introduction to the subject for lab professionals and students.

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suspensions 8 methods for connective tissue 9 this fifth edition of histological and histochemical methods provides a clear and consistent introduction to the. Abstract traditional histological methods give a more in depth view of tissue as a whole providing the possibility to see the interactions between all of the cells present and when used in conjunction with immunohistochemical studies can reveal a great deal of detail textquoteleft histological and histochemical methods theory and practice textquoteright gives the art and science of. Histological and histochemical methods was first published in 1999 but it has been extensively updated for this edition by the addition of new procedures and the extension of some of the chapters to include some older but useful techniques in general there is more discussion about the fixation processing and staining of microanisms.

The relations of chemical structures and reactions to fixation tissue processing staining enzyme location immunohistochemistry and other procedures are explained in simple descriptive terms as well as being a textbook further references and more detailed information is available for those who wish to study a topic in more depth for this new edition the author has updated the text with.

Description histochemical methods provide powerful tools for analyzing the location and distribution of molecules in cells and tissues these elegant methods are essential core protocols for laboratories involved in basic research and pathologic diagnosis

This fifth edition of histological and histochemical methods continues to provide a clear and consistent introduction

to the techniques description and analysis of the chemical and physical principles of fixation tissue processing staining enzyme location immunohistochemistry and other key procedures the overall structure of the book remains unchanged but the content has been heavily. Histological and histochemical methods theory and practice by kiernan j a the chemical and physical principles of fixation staining and histochemistry in one plete volume. Histological and histochemical methods theory and practice paperback 1 april 1990 by john a kiernan author 4 7 out of 5 stars 9 ratings see all 8 formats and editions hide other formats and editions price new from used from.

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Histological and histochemical methods by professor john a kiernan is a classic in the histochemical literature since its first edition in 1981 it is hard to decide what actually is the main reason for the success of this valuable book students research workers or technologists may here find a careful description of the basics of fixation embedding and staining the reactions of the

Histological and histochemical methods

specific products in cells and tissues and the last time that many histochemists considered chemical formulae was often during their undergraduate studies. Histological and histochemical methods theory and practice 5 th ed eva szunyogova e mail address e szunyogova 10 aberdeen ac uk search for more papers by this author. Staining is a technique used to enhance contrast in samples generally at the microscopic level stains and dyes are frequently used in histology the study of tissue under the microscope and in the medical fields of histopathology hematology and cytopathology that focus on the study and diagnoses disease at a microscopic level stains may be used to define biological tissues highlighting. Kiernan ja 2008 histological and histochemical methods theory and practice 4th ed bloxham uk scion lillie rd pizzolato p donaldson pt 1976 nuclear stains with

degenerative joint diseases both in humans and in animal models in this respect standardized simple and reliable techniques are mandatory.

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soluble metachrome mordant lake dyes the effect of chemical endgroup blocking reactions and the artificial introduction of acid groups into tissues histochemistry 49 23 35.

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Isbn 978 1 907904 32 5 histological and histochemical methods theory and practice this new edition trains the worker at the laboratory bench by integrating theory with practice it encourages the user to understand the rationale of each step of every method the relations of chemical structures and reactions to fixation tissue processing

Abstract bone tissues are often processed to produce undecalcified sections or ground sections these sections range from 50 150 ?m in thickness and are used for mon histomorphometric studies yielding poor cellular detail to better observe the details of cellular ponents thinner sections of single cell thickness ideally 4 6 ?m are preferred.

This fifth edition of histological and histochemical methods continues to provide a clear and consistent introduction to the techniques description and analysis of the chemical and physical principles of fixation tissue processing staining enzyme location immunohistochemistry and other key procedures

The goal of histochemistry is to provide color and contrast to microscopic images

the field uses disparate techniques to accomplish the specific labeling of biological structures. Histochemists pioneered the use of small molecule cellular stains labeled molecules such as antibodies and enzyme mediated detection and signal amplification (Kiernan 2008). This fifth edition of *It is mon practice to use a recipe book of histological and histochemical methods* provides a clear and consistent introduction to the subject for lab professionals and students. x 502 p ill 26 cm. Histological techniques, histology technique, histochemistry technique.

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