

ACTIVITY 1

THE MICROSCOPE

Laboratory Manual in HISTOLOGY

ACTIVITY 1

THE MICROSCOPE

SPECIFIC OBJECTIVES:

At the end of this activity, the student should be able to:

- Discuss the parts and functions of the microscope;
- Explain the importance of the microscope;
- Manipulate the microscope.

Materials:

Compound Microscope
Glass slide
Small letter "e"
Dropper
Water
Cover slip

Procedure:

1. Place the smaller "e" on the slide and wet with a small drop of water then place a coverslip on top of it.
2. Turn the revolving turret to 10x power objective lens in position.
3. Place the microscope slide with the smaller letter "e" on the stage and fasten it with the stage clips.
4. Look at the objective lens and the stage from the side and turn the focus knob so the stage moves upward. Move it up as far as it will go without letting the objective touch the coverslip.
5. Look through the eyepiece and move the focus knob until the image comes into focus.
6. Adjust the condenser and light intensity for the greatest amount of light.
7. Move the microscope slide around until the slide with small letter "e" is in the center of the field.
8. Use the focus knob to place the sample into focus and readjust the condenser and light intensity for the clearest image (with low power

Histology Manual Lab Procedures

Mike Jess



Histology Manual Lab Procedures:

Animal Histology Procedures of the Pathological Technology Section , Laboratory of Pathology, National Cancer Institute, National Institutes of Health, Bethesda, Maryland 20014 Barbara J. Coolidge, Ruby M. Howard, 1979

Histopathology Laboratory Procedures of the Pathologic Anatomy Branch of the National Cancer Institute Mary C. Bowling, National Cancer Institute (U.S.). Pathologic Anatomy Branch, 1967 **Animal Histology Procedures of the Pathological Technology Section of the National Cancer Institute** Betty J. Sanders, 1972 **Practical Handbook of Microbiology** Lorrence H Green, Emanuel Goldman, 2021-05-04 Practical Handbook of Microbiology 4th edition provides basic clear and concise knowledge and practical information about working with microorganisms Useful to anyone interested in microbes the book is intended to especially benefit four groups trained microbiologists working within one specific area of microbiology people with training in other disciplines and use microorganisms as a tool or chemical reagent business people evaluating investments in microbiology focused companies and an emerging group people in occupations and trades that might have limited training in microbiology but who require specific practical information Key Features Provides a comprehensive compendium of basic information on microorganisms from classical microbiology to genomics Includes coverage of disease causing bacteria bacterial viruses phage and the use of phage for treating diseases and added coverage of extremophiles Features comprehensive coverage of antimicrobial agents including chapters on anti fungals and anti virals Covers the Microbiome gene editing with CRISPR Parasites Fungi and Animal Viruses Adds numerous chapters especially intended for professionals such as healthcare and industrial professionals environmental scientists and ecologists teachers and businesspeople Includes comprehensive survey table of Clinical Commercial and Research Model bacteria The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license Chapter 21 Archaea of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license available at <http://www.taylorfrancis.com> See Emanuel Goldman's Open Access article Lamarck redux and other false arguments against SARS CoV 2 vaccination <https://www.embopress.org/doi/full/10.15252/embr.202254675> **Bancroft's Theory and Practice of**

Histological Techniques Kim S Suvarna, Christopher Layton, PhD, John D. Bancroft, 2012-10-26 This is a brand new edition of the leading reference work on histological techniques It is an essential and invaluable resource suited to all those involved with histological preparations and applications from the student to the highly experienced laboratory professional This is a one stop reference book that the trainee histotechnologist can purchase at the beginning of his career and which will remain valuable to him as he increasingly gains experience in daily practice Thoroughly revised and up dated edition of the standard reference work in histotechnology that successfully integrates both theory and practice Provides a single comprehensive resource on the tried and tested investigative techniques as well as coverage of the latest technical developments Over 30

international expert contributors all of whom are involved in teaching research and practice Provides authoritative guidance on principles and practice of fixation and staining Extensive use of summary tables charts and boxes Information is well set out and easy to retrieve Six useful appendices included SI units solution preparation specimen mounting solubility Provides practical information on measurements preparation solutions that are used in daily laboratory practice Color photomicrographs used extensively throughout Better replicates the actual appearance of the specimen under the microscope Brand new co editors New material on immunohistochemical and molecular diagnostic techniques Enables user to keep abreast of latest advances in the field Practical Handbook of Microbiology Emanuel Goldman,Lorrence H Green,2015-06-04 The Practical Handbook of Microbiology presents basic knowledge about working with microorganisms in a clear and concise form It also provides in depth information on important aspects of the field from classical microbiology to genomics in one easily accessible volume This new edition retains the easy to use format of previous editions with a lo

Basic and Advanced Laboratory Techniques in Histopathology and Cytology Pranab Dey,2023-01-01 The second edition of this well received book provides detailed information on the basic and advanced laboratory techniques in histopathology and cytology It offers clear guidance on the principles and techniques of routine and special laboratory techniques It also covers advanced laboratory techniques such as immunocytochemistry flow cytometry liquid based cytology polymerase chain reactions tissue microarray molecular technology etc The book s second edition covers several important recent topics with many new chapters such as liquid biopsy artificial neural network digital pathology and next generation sequencing Each chapter elucidates basic principle practical methods troubleshooting and clinical applications of the technique It includes multiple colored line drawings microphotographs and tables to illustrate each technique The book is a helpful guide to the post graduate students and fellows in pathology practicing pathologists as well as laboratory technicians and research students **Histopathology Specimens** Derek C Allen,R. Iain Cameron,2007-06-21 Covering anatomical

clinical pathological and laboratory aspects of surgical histopathology specimens this book relates specimen dissection and its clinical context to relevant histopathology reports and therefore a more comprehensive patient prognosis and management is possible Histopathology Specimens Clinical Pathological and Laboratory Aspects explains pathological and clinical terminology including a glossary of clinical request form abbreviations It offers a standardised step wise approach to specimen handling illustrated by simple line diagrams and highlights essentials of the histopathology report relating them to appropriate specimen dissection This book will act as a reference tool for the medical trainee in histopathology and the biomedical scientist and as a useful aide memoire for the histopathology consultant **HISTOPATHOLOGY FOR**

MEDICAL LABORATORY TECHNOLOGY STUDENTS AEJAZ IQBAL,2022-10-08 It gives me great pleasure to introduce this book on HISTOPATHOLOGY for Medical Laboratory Technology Students In this book I have tried to solve the difficulty of students to understand the tests and getting the exact data The aims and objectives of this book are primarily to meet the

requirements of DMLT and undergraduates Courses Histopathology is an essential subject of DMLT courses but there is non availability of good books on the subject The books available are vast and mainly written for medical dental physiotherapy nursing students I have tried to overcome this problem by writing in easy language point wise manner diagrams flow charts tables graphs pictures and providing exact data I hope that this book will satisfy the needs of DMLT students as well as UG students This book composes units All units such as Histopathology Clinical pathology cytology exfoliative cytology etc Finally we can say this book is based upon the DMLT syllabus of the various Paramedical state councils especially JKSPMF and JKBOTE Finally although sincere effort has been made to be as accurate as possible an element of human error is still likely I shall humbly request users to continue giving their valuable suggestions and feedback as they have been doing Before for my all books this helps me much to learn from the experience of users improve further and carry out corrections wherever required at the earliest possible opportunity Guide to Educational Resources for Laboratorians ,1984

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