Basics/General Genetics: Books


   >> With Student Consult Online Access

   >>Latest edition of the previously titled DNA Simplified: The Hitchhiker's Guide to DNA

   >> Outline format, useful for board review and as a quick reference guide


   >>Good, easy to read overview

   >>Very readable overview of the field.

    >>With Student Consult Online Access


    >>Comprehensive resource


   >>Excellent book
15. Smith's Recognizable Patterns of Human Malformation, 7th ed.
Kenneth Lyons Jones

16. Principles of Molecular Pathology
Anthony A. Killeen
>>Readable overview of the field

17. Human Molecular Genetics, 4th ed.
Tom Strachan and Andrew P. Read

Charles J. Epstein, Robert Erickson, Anthony Wynshaw-Boris

19. Diagnostic Molecular Pathology in Practice: A Case-Based Approach
Iris Schrijver
>>Recommend using as supplement to any of the larger textbooks or series

20. Genomic Applications in Pathology
George Jabboure Netto, Iris Schrijver
Springer 2015 ISBN 968-1-4939-0727-4

21. Essential Concepts in Molecular Pathology
William B. Coleman and Gregory J. Tsongalis

22. Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 7th ed
Carl A. Burtis, David E. Bruns

23. Clinical Genomics
Shashikant Kulkarni, John Pfeifer
>>Next generation sequencing techniques for the clinical laboratory

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**Basics/General: Chapters**

1. *Henry's Clinical Diagnosis and Management by Laboratory Methods (Clinical Diagnosis and Management by Laboratory Methods), 23rd ed*
   Richard A. McPherson and Matthew R. Pincus
   Saunders 2016 ISBN: 1437709745
   >>Parts 8 and 9 Molecular pathology: chapters 65-78

2. *Essentials of Anatomic Pathology, 4th ed*
   Liang Cheng and David G. Bostwick, (Eds.)
   >>Outline of molecular pathology (ch. 1) and medical genetics (ch. 2)

**Reviews/Study Guides**

1. *Quick Compendium of Molecular Pathology (ASCP Quick Compendium), 3rd ed.*
   Daniel D. Mais, Mary Lowery Nordberg

2. *Quick Compendium Companion for Molecular Pathology*
   George Leonard, Frank Zuehl, Daniel D. Mais,

   Eberhard Passarge
   Thieme Medical 2012 ISBN: 3131003642
   >>Essential review of genetics

4. *Referenced Review Questions in Pharmacogenomics*
   Robert M. White, Sr and Bonny L. Bukaveckas

5. *An A-Z Guide to Pharmacogenomics*
   Michael G. Catania

6. *Referenced Review Questions in Molecular Medicine*
   Robert M. White, Sr., David W. Brown, and Steven A. Williams
   >>750 multiple-choice questions covering a wide range of molecular medicine related topics with short explanation of answer and references for further reading
Methodology

1. From Genes to Genomes: Concepts and Applications of DNA Technology, 3rd ed
Jeremy W. Dale, Malcolm von Schantz and Nicholas Plant

2. Laboratory Guide to Methods in Biochemical Genetics
Nenad Blau, Marius Duran, K. Michael Gibson (Eds.)

3. Calculations for Molecular Biology and Biotechnology: A guide to mathematics in the laboratory, 2nd ed
Frank H. Stephenson

Subspecialty Genetics References

Genetic Counseling

1. Introduction to Risk Calculation in Genetic Counseling, 3rd ed.
Ian D. Young, Oxford University Press 2006 ISBN: 0195305272
>> Very readable guide for learning genetic risk assessment calculations

2. Practical Genetic Counseling, 7th ed.

Forensics

1. Forensic DNA Typing: Biology, Technology and Genetics of STR Markers, 2nd ed.
John M. Butler

2. Forensic DNA Typing Protocols (Methods in Molecular Biology), 2nd ed
William Goodwin

Microbiology

1. Molecular Microbiology: Diagnostic Principles and Practice, 3rd ed
David H. Persing, Fred C. Tenover, Randall T. Hayden, Greet Ieven, Melissa B. Miller and Frederick S. Nolte (Eds.)

2. Manual of Clinical Microbiology, 10th ed
James Versalovic
>> Molecular pathology chapter

3. Molecular Pathology in Clinical Practice: Infectious Diseases
Debra G.B. Leonard

Steven C. Specter, Richard L. Hodinka, Danny L. Wiedbrauk, Stephen A. Young

5. Clinical Virology, 4th ed
Douglas Richman and Richard Whitley

6. Diagnostic Pathology: Infectious Diseases 1st ed
Danny Milner

Transfusion Medicine

1. AABB Technical Manual, 18th ed
Edited by: Mark K. Fung, MD, PhD; Brenda J. Grossman, MD, MPH; Christopher Hillyer, MD; Connie M. Westhoff, PhD, MT(ASCP)SBB
AABB, 2014
>> Detailed Transfusion Medicine reference manual with information on genetics of blood group antigens, molecular methods and SOP

2. BeadChip Molecular Immunohematology: Toward Routine Donor and Patient Antigen Profiling by DNA Analysis
JoAnn M. Moulds, Paul M. Ness, Steve R. Sloan (Eds.)
Pharmacogenomics

1. *Pharmacogenomics (Drugs and the Pharmaceutical Sciences), 2nd ed*
   Werner Kalow, Urs B. Meyer, Rachel F. Tyndale (Eds.)

2. *Principles of Pharmacogenetics and Pharmacogenomics*
   Russ B. Altman (Editor), David Flockhart (Editor), David B. Goldstein (Eds.)

Biochemical Genetics

1. *Pediatric Endocrinology and Inborn Errors of Metabolism, 2nd ed*
   Kyriakie Sarafoglou, Georg F. Hoffman, and Karl S. Roth
   >>very readable, good both as a textbook and table provide excellent summaries for quick review

2. *Physician’s Guide to Treatment and Follow-up of Metabolic Diseases*
   Nenad Blau, Marinus Duran, K. Michael Gibson, Carlo Dionisi-Vici (Eds)

3. *Inborn Metabolic Diseases: Diagnosis and Treatment, 5th ed.*
   Jean-Marie Saudubray, Matthias R. Baumgartner and John H. Walter (Eds.)
   >> Excellent text and reference

   William L. Nyhan, Bruce A. Barshop, and Aida I Al-Aqeel
   >> Excellent text and reference

   Joe T.R. Clarke

6. *Fundamentals of Biochemistry: Life at the Molecular Level, 5th ed*
   Donald Voet, Judith G. Voet and Charlotte W. Pratt

General Oncology

1. *The Molecular Basis of Human Cancer, 2nd ed*
   William B. Coleman and Gregory J. Tsongalis

2. *Cell and Tissue Based Molecular Pathology A volume in the Foundations in Diagnostic Pathology Series*
   Raymond R. Tubbs and Mark H. Stoler, (Eds.)
   >>Presents molecular methods and their applications in areas of surgical pathology and cytopathology

3. *Molecular Genetic Testing in Surgical Pathology*
   John P. Pfeifer
   Lippincott Williams & Wilkins 2005 ISBN: 0781747481

4. *Molecular Pathology in Clinical Practice: Oncology*
   Debra G.B. Leonard

   Lauren Pecorino

6. *Molecular Basis of Human Cancer*
   C. Nicolini (Eds)
   Springer 2013 ISBN: 1489925651

7. *Molecular Testing in Cancer*
   George M. Yousef and Serge Jothy (Eds)

8. *Molecular Oncology: Causes of Cancer and Targets for Treatment*
   Edward P. Gelmann, Charles L. Sawyers, Frank J. Rauscher III (Eds)

9. *Molecular Oncology Testing for Solid Tumors*
   Michael Ola Idowu, Catherine Isabelle Dumur, Carleton Theodore Garrett
   Springer 2015 ISBN: 978-3-319-16304-8

10. *Diagnostic Pathology: Molecular Oncology 1st ed*
Hematopathology
Drew Provan and John Gribben, (Eds.)

2. Molecular Aspects of Hematologic Malignancies: Diagnostic Tools and Clinical Applications (Principles and Practice)
Michael Witt, Malgorzata Dawidowska and Tomasz Szczepanski

3. Flow cytometry, Immunohistochemistry, and Molecular Genetics for Hematologic Neoplasms
Tsih Sun

4. Hematopathology, 2nd ed
Elaine Sarkin Jaffe, Daniel A. Arber, Elias Campo, Nancy Lee Harris and Leticia Quintanilla-Fend

Surgical Pathology
1. IARC WHO Classification of Tumours Series
Published by the World Health Organization Press
>> The books are arranged by tumor entity and contain molecular and cytogenetic data as applicable to each entity

2. Diagnostic Pathology and Molecular Genetics of the Thyroid: A Comprehensive Guide for Practicing Thyroid Pathology, 2nd ed.
Yuri E Nikiforov, Paul W Biddinger, Lester D Thompson
Lippincott Williams & Wilkins 2012 ISBN: 1451114559

Medical Subspecialties and Genetics
1. Molecular and Genetic Basis of Renal Disease A companion to Brenner and Rector’s The Kidney
David B. Mount and Martin R. Pollak

2. The Molecular and Genetic Basis of Neurologic and Psychiatric Disease, 5th ed.
Roger N. Rosenberg and Juan M. Pascual (Eds.)

3. Genetics and Molecular Aspects of Gastrointestinal Disease, An issue of Clinics in Laboratory Medicine
David C. Whitcomb and Antonia Sepulveda

4. Molecular Pathology in Clinical Practice: Genetics
Debra G.B. Leonard

5. Molecular Pathology of Nervous System Tumors: Biological and Targeted Therapies
Matthias A. Karajannis and David Zagzag (Eds)
Reference Books

1. Principles and Practice of Medical Genetics, 5th ed
   David L. Rimoin, J. Micheal Connor, Reed E Pyeritz, and Bruce R Korf

2. The Online Metabolic and Molecular Bases of Inherited Disease
   David Valle, MD, Editor-in-Chief, Arthur L. Beaudet, MD, Editor, Bert Vogelstein, MD, Editor, Kenneth W. Kinzler, Ph.D., Editor, Stylianos E. Antonarakis, MD, D.Sc., Editor, Andrea Ballabio, MD, Editor, K. Michael Gibson, Ph.D., FACMG, Editor, Grant Mitchell, MD, Editor

3. Lewin’s Genes XII, 11th ed
   Jocelyn E. Krebs, Elliot S Goldstein and Stephen T. Kilpatrick

   Bruce Alberts, Alexander Johnson, Julian Lewis, David Morgan, Martin Raff, Keith Roberts and Peter Walter

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Molecular Pathology, Second Edition: The Molecular Basis of Human Disease. Academic Press. William B. Coleman, Gregory J. Tsongalis. You can write a book review and share your experiences. Other readers will always be interested in your opinion of the books you've read. List of Contributors W. Edward Highsmith, Ph.D. Molecular Genetics Laboratory, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN, USA C. Dirk Keene, M.D., Ph.D. Associate Professor, Neurological Surgery/Neuropathology, University of Washington School of Medicine, USA Wolfgang Kemmner, Ph.D. Department of Surgery and Surgical Oncology, Robert-Rössle-Klinik Berlin, Charité – Universitätsmedizin Berlin, Berlin, Germany Nigel S. Key

Cover. Molecular Pathology of Liver Diseases integrates the traditional knowledge of physiological and pathological processes in the liver with a balanced emphasis on fundamental concepts; timely advances in cellular and molecular mechanisms; and applied pathology. The textbook is organized into several sections, each of which includes an array of chapters that progressively and cohesively elaborate on pertinent liver biology and pathology. The first three sections discuss the cellular composition of the liver along with their specialized functions, and further dissect the molecular. Listed under: cytopathology, molecular. This book is intended for practicing pathologists and cytopathologists, as well as for pathology trainees and cytotechnicians. It starts with a detailed description of the extremely important pre-analytical phase for molecular testing followed by a presentation of the key tests and their application in different organs, e.g. the lung or thyroid. Molecular Pathology and the Dynamics of Disease bridges the basic science of, and primary clinical literature on, human disease.