Basics/General Genetics: Books


2. The Molecular Basis of Human Disease, 2nd ed

3. Genomic and Personalized Medicine, 2nd ed

4. Medical Genetics (5th Ed)
   >> With Student Consult Online Access

5. DNA from A to Z & Back Again
   >>Latest edition of the previously titled DNA Simplified: The Hitchhiker's Guide to DNA

6. Molecular Genetic Pathology, 2nd ed
   Liang Cheng and David Zhang
   Springer 2013 ISBN: 1461447992
   >> Outline format, useful for board review and as a quick reference guide

7. Genomics and Clinical Medicine
   Dhavendra Kumar and David Weatherall

8. Fundamentals of Molecular Diagnostics
   David E Bruns, Edward R Ashwood, and Carl A Burtis
   >>Good, easy to read overview

   Lela Buckingham and Maribeth Flaws
   >>Very readable overview of the field.

10. Thompson & Thompson Genetics in Medicine, 8th ed
    Robert L. Nussbaum, Roderick R. McInnes, and Huntington F. Willard
    >>With Student Consult Online Access

11. Medical Genetics at a Glance, 3rd ed
    Dorian J. Pritchard and Bruce R. Korf

12. Molecular Pathology in Clinical Practice, 2nd ed
    Debra G.B. Leonard
    >>Comprehensive resource

13. Molecular Diagnostics, 3rd ed
    George P. Patrinos, Wilhelm Ansorge and Phillip B. Danielson (Eds.)

    William B. Coleman and Gregory J. Tsongalis, (Eds.)
    >>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 Jaboue 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

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


### 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.)  
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<th><strong>General Oncology</strong></th>
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<td>/<em>very readable, good both as a textbook and table provide excellent summaries for quick review</em>/</td>
<td>&gt;&gt; Presents molecular methods and their applications in areas of surgical pathology and cytopathology</td>
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**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*
   Tsieh 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

   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 In Clinical Medicine is an authoritative, comprehensive textbook that provides the general pathologist in clinical practice, as well as residents and fellows during their training, with the current standard in molecular testing. The text is divided into 8 sections, as defined by the molecular pathology specialty board: genetics, inherited cancers, infectious disease, neoplastic hematopathology, solid tumors, HLA typing, identity testing, and laboratory management. The book integrates the latest advancements in the field with the basic principles and practical applications. Molecular Pathology book. Read reviews from worldâ€™s largest community for readers. Molecular Pathology: The Molecular Basis of Human Disease provides a c... Â The book describes the integration of molecular and cellular pathogenesis using a bioinformatics approach and a systems biology approach to disease pathogenesis. It also discusses current and future strategies in molecular diagnosis of human disease, and the impact of molecular diagnosis on treatment decisions and the practice of personalized medicine. This book is a valuable resource for students, biomedical researchers, practicing physician-scientists who undertake disease-related basic science and translational research, and pathology residents and other postdoctoral fellows. ...more. Get A Molecular Pathology in Drug Discovery and Development provides an unmatched guide to this cutting-edge discipline and its applications to pharmaceutical science. Â In its Fifth Edition, this classic book retains its traditional strength of relating molecular physiology to understanding disease pathology and treatment as it explores the current state and future direction of hepatology. Painstakingly revised, this edition includes 60 new chapters. As in previous editions, a section called Horizons summarizes advances of extraordinary nature in areas expected to have a substantial impact on hepatology.