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*  
   Carol A. Holland and Daniel H. Farkas  
   >>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 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

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  

4. **Clinical Virology Manual, 4th ed**  
   Steven C. Specker, 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)
   Springer 2015 ISBN: 978-3-319-16304-8

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, Małgorzata 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 is the study of disease at the molecular level. It is becoming increasingly important in pathology. Its utility currently includes: Proving clonality, esp. in hematologic malignancies, to help establish a malignant diagnosis. Finding recurrent genetic changes which may be diagnostic, prognostic and suggest a specific therapy. Monitor minimal residual disease. Molecular pathology can be divided as follows: A simplified overview of molecular pathology The main portion of the book presents forensic pathology essentials in the form of learning objectives each delineated with a code: M for items students must know, and S for those they must do. This section begins by discussing the government’s role, describes medical examiner and coroner systems, and analyzes the academic discipline of forensic pathology. Each chapter contains a list of pertinent vocabulary and references for further study. By mastering the objectives contained in each chapter of this manual, forensic pathology students will be ready to pass certification exams and work confidently in the field. Get IT free here. This book focuses on putting successful molecular strategies into practice for the treatment of gynecologic cancer.