Molecular Pathology Book List

Association for Molecular Pathology Training & Education Committee
Revised February 2015; posted online at: http://www.amp.org/education/educational_materials.cfm

Basics/General Genetics: Books


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, 7e*
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), 22nd ed.*
Richard A. McPherson and Matthew R. Pincus
>> Molecular pathology: chapters 56, 58-68

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*
Georges 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

7. *Practical Surgical Pathology: Integrating Molecular Pathology into Your Morphologic Practice*
Kirk Heriot
ASCP 2012 ISBN: 0891895884

**Methodology**

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.)

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)

Microbiology
1. Molecular Microbiology: Diagnostic Principles and Practice, 2nd ed.
David H. Persing, Fred C. Tenover, Yi-Wei Tang, Frederick S. Nolte, Randall T. Hayden, and Alex Van Belkum (Eds.)

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, 3rd Ed.
Douglas Richman, Richard Whitley, Frederick Hayden

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 (Editors)

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 (Editor)

Biochemical Genetics
1. Pediatric Endocrinology and Inborn Errors of Metabolism.
Kyriakie Sarafoglou, Georg F. Hoffman, and Karl S. Roth (Eds.)
>>>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, Georges van den Berghe, 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
Donald Voet, Charlotte W. Pratt, Judith G. Voet
General Oncology
1. The Molecular Basis of Human Cancer, 2nd ed.
   William B. Coleman

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

5. Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics
   Lauren Pecorino

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

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
   Elaine Sarkin Jaffe, Nancy Lee Harris, James W. Vardiman, Elias Campo, Daniel A. Arber
   Saunders 1st Ed. 2010. ISBN: 0721600409
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. (3 volumes)
   David L. Rimoin, J. Micheal Connor, Reed E Peryritz, 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
   McGraw-Hill, available online

3. Genes IX (9th Ed)
   Benjamin Lewin

   Bruce Alberts, Alexander Johnson, Julian Lewis, David Morgan, Martin Raff, Keith Roberts and Peter Walter
This book concisely presents basic concepts of molecular biology and applied molecular pathology. Written for anyone interested in basic molecular pathology concepts, it would be of interest to physicians interested in adaptation of molecular biology concepts to pathologic diagnosis. It would also be of interest to those wanting a single reference to update their knowledge of molecular biology and applied molecular pathology. A great book for anyone wanting a concise and broad overview or review of molecular biology and applied molecular pathology. (Valerie L Ng, Doody’s Revi Pathology List.pdf. Uploaded by. safaisafa. Pathology Text Book. CD. Silverberg’s principles&practice of surgical pathology + picture(3CD). P138 Molecular Pathology of Gynecologic Cancer P251 Pathology of the Human Placenta, Fifth Edition P259 The Vulva Anatomy, Physiology, and Pathology P319 Handbook of Placental Pathology, Second Edition P343 Pathology and Genetics Tumors of the Breast and. Peter Kaufmann Miranda A.Farage Howard L. mibach. Molecular pathological epidemiology (MPE, also molecular pathologic epidemiology) is a discipline combining epidemiology and pathology. It is defined as "epidemiology of molecular pathology and heterogeneity of disease". Pathology and epidemiology share the same goal of elucidating etiology of disease, and MPE aims to achieve this goal at molecular, individual and population levels. Typically, MPE utilizes tissue pathology resources and data within existing epidemiology studies. Molecular epidemiology