

AMP MOLECULAR GENETIC PATHOLOGY: RECOMMENDED REVIEW BOOKS

Updated: March 2025

The following books are suggested for those preparing for the Molecular Genetic Pathology board exam administered by the American Board of Medical Genetics and the American Board of Pathology. This list represents the recommendations of the MGP Review Course faculty and the AMP Training and Education Committee; endorsement by the ABMG or the ABP is not implied.

GENERAL MOLECULAR PATHOLOGY

Thompson & Thompson Genetics in Medicine, 9th edition, Nussbaum RL *et al.*, eds. Elsevier, 2023.

Molecular Pathology: The Molecular Basis of Human Diseases, 2nd edition, Coleman WB and Tsongalis GJ, eds. Elsevier, 2018. (3rd edition release date: November 2025)

Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing, Coleman WB and Tsongalis GJ, eds. Elsevier, 2023.

Molecular Basis of Human Cancer, 2nd edition, Coleman WB and Tsongalis GJ, eds. Elsevier, 2017.

Molecular Diagnostics: Fundamentals, Methods, and Clinical Applications, 3rd edition, Buckingham L. ASCP, 2019.

Genomic Medicine: A Practical Guide, Tafe LJ and Arcila ME, eds. Springer, 2020.

CYTOGENETICS

Thompson & Thompson Genetics in Medicine, 9th edition, Nussbaum RL *et al.*, eds. Elsevier, 2023.

Gardner and Sutherland's Chromosome Abnormalities and Genetic Counseling, 5th edition, McKinlay Gardner RJ, Amor DJ. Oxford University Press, 2018.

The Principles of Clinical Cytogenetics, 3rd edition, Gersen SL and Keagle MB, eds. Human Press, 2013.

Human Chromosomes, 4th edition, Miller OJ and Therman E, eds. Springer Press, 2000.

Vance GH, Khan WA. Utility of Fluorescence *In Situ* Hybridization in Clinical and Research Applications. *Advances in Molecular Pathology* 2020; 3:65-75.

ISCN 2024 An international System for Human Cytogenomic Nomenclature (2024), Ros J Hastings *et al.* S. Karger 2024

FORENSICS / HLA TYPING

Fundamentals of Forensic DNA Typing, Butler JM. Elsevier Academic Press, 2010.

Advanced Topics in Forensic DNA Typing: Methodology, Butler JM. Elsevier Academic Press, 2012.

Advanced Topics in Forensic DNA Typing: Interpretation, Butler JM. Elsevier Academic Press, 2015.

Transplantation Immunology: Methods and Protocols, Zachary AA and Leffell MS, Eds. Humana Press 2013.

HLA Disease Associations. [The Autoimmune Diseases Site](#)

Histocompatibility & Immunogenetics, Kallon D. [eBook](#)

[Human Leukocyte Antigen \(HLA\) Testing in Pharmacogenomics](#), Moyer AM, Gandhi MJ. *Methods Mol Biol.* 2022;2547:21-45. doi: 10.1007/978-1-0716-2573-6_2. PMID: 36068459.

LABORATORY MANAGEMENT

Molecular Pathology in Clinical Practice, 2nd edition, Leonard DGB, ed. Springer, 2016.

Henry's Clinical Diagnosis and Management by Laboratory Methods, 24th edition, McPherson RA and Pincus R, eds. WB Saunders Company, 2021.

Clinical Laboratory Management, 2nd edition, Garcia LS, ASM Books, 2014.

Clinical and Laboratory Standards Institute (CLSI). *Quality Management for Molecular Genetic Testing: Approved Guideline*. CLSI Document MM20-A (ISBN 1-56238-859-2 [Print]; ISBN 1-56238-860-6 [Electronic]). Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne Pennsylvania 19087 USA, 2012.

Laboratory Administration for Pathologists, 2nd edition, College of American Pathologists, January 1, 2019

MEDICAL GENETICS

Thompson & Thompson Genetics and Genomics in Medicine (Thompson and Thompson Genetics in Medicine), 9th Edition, by [Ronald Cohn](#) (Editor), [Stephen Scherer](#) (Editor), [Ada Hamosh](#) (Editor). Elsevier, 2023.

Atlas of Genetic Diagnosis and Counseling, 3rd edition, Chen H. Springer, 2017.

Smith's Recognizable Patterns of Human Malformation, 8th edition, Jones, K, Jones MC, del Campo MWB. Elsevier, 2021.

Emery and Rimoin's Principles and Practice of Medical Genetics and Genomics: Developmental Disorders, 7th Edition, by Reed E. Pyeritz (Editor), Bruce R. Korf (Editor), Wayne W. Grody (Editor). Academic Press, 2024.

ABMGG Molecular Genetic Pathology [RBM Publisher](#)

The ABMGG Molecular Genetic Pathology study guide contains over 200 new practice questions, along with a comprehensive review of the material through test questions and explanations to assist you in preparing for the ABMGG Molecular Genetic Pathology exam.

METABOLIC GENETICS

Atlas of Inherited Metabolic Diseases, 4th edition, Nyhan WL and Hoffmann GF. CRC Press, 2020.

MOLECULAR GENETICS / BIOLOGY

Human Molecular Genetics, 5th edition, Strachan TS and Read AP. CRC Press, 2019.

Color Atlas of Genetics, 5th edition, Passarge E. Thieme, 2017.

MOLECULAR HEMATOLOGY, HEMATOPATHOLOGY, AND ONCOLOGY

WHO-Tumours of Haematopoietic and Lymphoid Tissues, 5th edition, 2022.

Robbins and Cotran Pathologic Basis of Disease, 10th edition, Kumar V, Abbas AK, Aster JC. Elsevier, 2020.

Diagnostic Pathology: Molecular Oncology, 3rd edition, Vasef MA and Auerbach A. Elsevier, 2024.

<https://tumourclassification.iarc.who.int/welcome/>

Virchows Archives, Volume 482, issue 1, January 1. Annual Review Issue: Advances in the classification of myeloid and lymphoid neoplasms as revealed in the International Consensus Classification. Issue editors Daniel A Arber, Elias Campo, Elaine S. Jaffe
<https://link.springer.com/journal/428/volumes-and-issues/482-1>

Genomic Medicine: A Practical Guide, 1st ed. 2020 Edition, by [Laura J. Tafe](#) (Editor), [Maria E. Arcila](#) (Editor)

Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing, 2nd Edition, 2023, by [William B. Coleman](#) (Editor), [Gregory J. Tsongalis PhD HCLD CC FNACB](#) (Editor)

Molecular Pathology, An Issue of the Clinics in Laboratory Medicine, 1st Edition, <https://www.us.elsevierhealth.com/molecular-pathology-an-issue-of-the-clinics-in-laboratory-medicine-9780443295683.html>

[Genomic profiling for clinical decision making in myeloid neoplasms and acute leukemia](#), Duncavage EJ, Bagg A, Hasserjian RP, DiNardo CD, Godley LA, Iacobucci I, Jaiswal S, Malcovati L, Vannucchi AM, Patel KP, Arber DA, Arcila ME, Bejar R, Berliner N, Borowitz MJ, Branford S, Brown AL, Cargo CA, Döhner H, Falini B, Garcia-Manero G, Haferlach T, Hellström-Lindberg E, Kim AS, Kico JM, Komrokji R, Lee-Cheun Loh M, Loghavi S, Mullighan CG, Ogawa S, Orazi A, Papaemmanuil E, Reiter A, Ross DM, Savona M, Shimamura A, Skoda RC, Solé F, Stone RM, Tefferi A, Walter MJ, Wu D, Ebert BL, Cazzola M, Blood. 2022 Nov 24;140(21):2228-2247. doi: 10.1182/blood.2022015853.

[Genomic profiling for clinical decision making in lymphoid neoplasms](#), de Leval L, Alizadeh AA, Bergsagel PL, Campo E, Davies A, Dogan A, Fitzgibbon J, Horwitz SM, Melnick AM, Morice WG, Morin RD, Nadel B, Pileri SA, Rosenquist R, Rossi D, Salaverria I, Steidl C, Treon SP, Zelenetz AD, Advani RH, Allen CE, Ansell SM, Chan WC, Cook JR, Cook LB, d'Amore F, Dirnhofer S, Dreyling M, Dunleavy K, Feldman AL, Fend F, Gaulard P, Ghia P, Gribben JG, Hermine O, Hodson DJ, Hsi ED, Inghirami G, Jaffe ES, Karube K, Kataoka K, Klapper W, Kim WS, King RL, Ko YH, LaCasce AS, Lenz G, Martin-Subero JI, Piris MA, Pittaluga S, Pasqualucci L, Quintanilla-Martinez L, Rodig SJ, Rosenwald A, Salles GA, San-Miguel J, Savage KJ, Sehn LH, Semenzato G, Staudt LM, Swerdlow SH, Tam CS, Trotman J, Vose JM, Weigert O, Wilson WH, Winter JN, Wu CJ, Zinzani PL, Zucca E, Bagg A, Scott DW, Blood. 2022 Nov 24;140(21):2193-2227. doi: 10.1182/blood.2022015854. PMID: 36001803

MOLECULAR MICROBIOLOGY

Manual of Clinical Microbiology, 12th edition (2 volumes), Jorgenson JH and Pfaller MA, eds. ASM Press, 2019.

Molecular Diagnostics, 3rd edition, Patrinos GP and Ansorge WJ. Academic Press (Elsevier), 2016.

Molecular Microbiology: Diagnostic Principles and Practice, 3rd edition, Persing DH, et al., eds. ASM Press, 2016.

Clinical Microbiology Procedures Handbook, 3 Volume Set, 4th edition, Leber, AL ed. ASM Press, 2016.

Advanced Techniques in Diagnostic Microbiology, Tang, Y-W and Stratton, CW eds. Springer, 2013.

Jawetz, Melnick & Adelbergs Medical Microbiology, 28th edition, Riedel S., Morse SA, Mietzner T, Miller S, McGraw Hill. 2019.

PHARMACOGENETICS

- Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*, 6th edition, Rifai N, Horvath AR, Wittwer CT, eds. Elsevier, 2018.
- Pharmacogenomics in Drug Discovery and Development*, 3rd edition. Methods in Molecular Biology Series, Qing Yan, ed. Springer, 2022 ISSN 1940-6029, ISBN 978-1-0716-2573-6 (eBook).
- Principles of Pharmacogenetics and Pharmacogenomics*, Altman RB, Flockhart D, Goldstein DB. Cambridge University Press, 2012.
- Molecular Pathology in Clinical Practice*, 2nd edition, Leonard DGB, ed. Springer, 2016.
- Clinical Pharmacogenetics Implementation Consortium (CPIC®) <https://cpicpgx.org/>.
- PharmGKB <https://www.pharmgkb.org/>.
- PharmVar <https://www.pharmvar.org/genes>.

RISK ASSESSMENT AND GENETIC COUNSELING

- Thompson & Thompson Genetics and Genomics in Medicine (Thompson and Thompson Genetics in Medicine)*, 9th Edition, by [Ronald Cohn](#) (Editor), [Stephen Scherer](#) (Editor), [Ada Hamosh](#) (Editor). Elsevier, 2023.
- Atlas of Genetic Diagnosis and Counseling*, 3rd edition, Chen H. Springer, 2017.
- Chromosome Abnormalities and Genetic Counseling*, 4th edition, Gardner RJ, Sutherland GR, McKinlay RJ. Oxford University Press, 2012.
- Practical Genetic Counseling for the Laboratory*, Goodenberger ML Thomas BC, Kruisselbrink T eds. Oxford University Press, 2017.