

TECHNOLOGIST AND INTERNATIONAL TECHNOLOGIST IN MOLECULAR BIOLOGY, MB(ASCP) AND MB(ASCPⁱ)

SPECIALIST AND INTERNATIONAL SPECIALIST IN MOLECULAR BIOLOGY, SMB(ASCP) AND SMB(ASCPⁱ)

Suggested Reading for Examination Preparation

This list is intended only as a partial reference source. Its distribution does not indicate endorsement by the American Society for Clinical Pathology Board of Certification (ASCP BOC), nor does the BOC wish to imply that the content of the examination will be drawn solely from these publications.

TEXTS

GENERAL MOLECULAR BIOLOGY

- Alberts, B., et al. (2022). [*Molecular Biology of the Cell*](#) (7th ed.). New York: Garland Science.
- Buckingham, L. (2019). [*Molecular Diagnostics: Fundamentals, Methods, & Clinical Applications*](#) (3rd ed.). Philadelphia: F.A. Davis Company.
- Coleman, W.B. & Tsongalis, G.J. (Eds.). (2018). [*Molecular Pathology: The Molecular Basis of Human Disease*](#) (2nd ed.). Elsevier Inc.
- Cooper, G.M., & Hausman, R.E. (2019). [*The Cell: A Molecular Approach*](#) (8th ed.). New York, NY: Oxford University Press.
- Krebs, J.E., et al. (2018). [*Lewin's Genes XII*](#) (12th ed.). Burlington, MA: Jones & Bartlett Publishers.
- Rifai, N., et al. (Eds.). (2018). [*Principles and Applications of Molecular Diagnostics*](#). Elsevier Inc.

APPLICATIONS OF MOLECULAR SCIENCE

***Clinical Laboratory Standards Institute (CLSI) publishes discipline-specific application guidelines in the area of Molecular Methods. The guidelines that are U.S.-specific are noted on the CLSI website. Consult the CLSI website [to purchase](#).**

- Coleman W., & Tsongalis G. (Eds.). (2017). [*Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing*](#). Elsevier Inc.
- DeVita, V.T., et al. (2021). [*DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology: Primer of the Molecular Biology of Cancer*](#) (3rd ed.). Philadelphia: Wolters Kluwer Health.
- Jaffe, E.S., et al. (2017). [*Hematopathology*](#) - CHAPTER 6: Molecular Diagnosis in Hematopathology ONLY (2nd ed.). Philadelphia, PA: Elsevier, Inc.
- Jorde, L.B., et al. (2019). [*Medical Genetics*](#) (6th ed.). Philadelphia, PA: Elsevier Inc.
- Kulkarni, S., & Pfeifer, J. (Eds.). (2015). [*Clinical Genomics: A Guide to Clinical Next Generation Sequencing*](#). Elsevier Inc.
- Leonard, D.G.B. (Ed.). (2016). [*Molecular Pathology in Clinical Practice*](#) (2nd ed.). New York: Springer.
- Nussbaum, R.L., et al. (2016). [*Thompson and Thompson Genetics in Medicine*](#) (8th ed.). Philadelphia, PA: Elsevier Inc.
- Persing, D.H., et al. (Eds.). (2016). [*Molecular Microbiology: Diagnostic Principles and Practice*](#) (3rd ed.). Washington D.C.: ASM Press.

MANAGEMENT (SMB ONLY)

- Garcia, L.S. (2013). [*Clinical Laboratory Management*](#) (2nd ed.). Washington D.C.: ASM Press.
- Harmening, D.M. (2020). [*Laboratory Management: Principles and Processes*](#) (4th ed.). St. Petersburg: D.H. Pub. & Consulting, Inc.
- McPherson, R.A., & Pincus, M.R. (2021). [*Henry's Clinical Diagnosis and Management by Laboratory Methods*](#) (24th ed.). Philadelphia, PA: Elsevier Inc.

MATHEMATICS

Buckingham, L. (2014). [*Fundamental Laboratory Mathematics: Required Calculations for the Medical Laboratory Professional*](#). Philadelphia, PA: F.A. Davis Company.

Doucette, L.J. (2021). [*Mathematics for the Clinical Laboratory*](#) (4th ed.). St. Louis: Elsevier.

Stephenson, F.H. (2016). [*Calculations for Molecular Biology and Biotechnology: A Guide to Mathematics in the Laboratory*](#) (3rd ed.). London: Academic Press.

ONLINE

[ACMG Technical Standards for Clinical Genetics Laboratories \(2021 Revision\)](#)

[Association of Genetic Technologists \(AGT\)](#)

[Association for Molecular Pathology \(AMP\)](#)

[American Association for the Study of Liver Disease \(AASLD\)](#) – Practice Guidelines

[American Society for Histocompatibility and Immunogenetics \(ASHI\)](#)

[American Society for Microbiology \(ASM\)](#)

[Clinical and Laboratory Standards Institute \(CLSI\)](#)

[College of American Pathologists \(CAP\)](#)

[National Center for Biotechnology Information \(NCBI\)](#)

[Pan American Society for Clinical Virology \(PASCV\)](#)