

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.
- Leonard, D.G.B. (Ed.). (2016). [*Molecular Pathology in Clinical Practice*](#) (2nd ed.). New York: Springer. (Chapters 1 – 2 ONLY)
- Rifai, N., et al. (Eds.). (2018). [*Principles and Applications of Molecular Diagnostics*](#). Elsevier Inc.

APPLICATIONS OF MOLECULAR SCIENCE

- Cohn, R., Scherer, S., & Hamosh, A. (Eds.). (2023). [*Thompson & Thompson Genetics and Genomics in Medicine*](#) (9th ed.). Philadelphia, PA: Elsevier Inc.
- Coleman W., & Tsongalis G. (Eds.). (2023). [*Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing*](#) (2nd ed.). Academic Press.
- 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.
- Jorde, L.B., et al. (2019). [*Medical Genetics*](#) (6th ed.). Philadelphia, PA: Elsevier Inc.
- Kulkarni, S., & Roy, S. (Eds.). (2015). [*Clinical Genomics: A Guide to Clinical Next Generation Sequencing*](#). Elsevier Inc.
- **A new edition will be available Summer 2024****
- Persing, D.H., et al. (Eds.). (2016). [*Molecular Microbiology: Diagnostic Principles and Practice*](#) (3rd ed.). Washington D.C.: ASM Press.
- Tille, P.M. (2021). [*Bailey & Scott's Diagnostic Microbiology*](#) (15th ed.). Elsevier.

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.

MANAGEMENT

The following references are more appropriate for the Specialist (SMB) level.

Garcia, L.S. (2013). [*Clinical Laboratory Management*](#) (2nd ed.). Washington D.C.: ASM Press.

****A new edition will be available Spring 2024****

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. (*Part 1 ONLY*)

ONLINE

Some online resources may require membership or a subscription.

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

[Association for Molecular Pathology \(AMP\) "Molecular in My Pocket™" Reference Card Series](#)

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

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

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

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