

# TECHNOLOGIST AND INTERNATIONAL TECHNOLOGIST IN MOLECULAR BIOLOGY, MB(ASCP) AND MB(ASCP<sup>i</sup>)

## Suggested Reading for Examination Preparation

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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\*](#) (7<sup>th</sup> ed.). New York: Garland Science.
- Buckingham, L. (2019). [\*Molecular Diagnostics: Fundamentals, Methods, & Clinical Applications\*](#) (3<sup>rd</sup> ed.). Philadelphia: F.A. Davis Company.
- Coleman, W.B. & Tsongalis, G.J. (Eds.). (2018). [\*Molecular Pathology: The Molecular Basis of Human Disease\*](#) (2<sup>nd</sup> ed.). Elsevier Inc.
- Leonard, D.G.B. (Ed.). (2016). [\*Molecular Pathology in Clinical Practice\*](#) (2<sup>nd</sup> 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\*](#) (9<sup>th</sup> ed.). Philadelphia, PA: Elsevier Inc.
- Coleman W., & Tsongalis G. (Eds.). (2023). [\*Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing\*](#) (2<sup>nd</sup> 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\*](#) (3<sup>rd</sup> ed.). Philadelphia: Wolters Kluwer Health.
- Jorde, L.B., et al. (2019). [\*Medical Genetics\*](#) (6<sup>th</sup> 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\*](#) (3<sup>rd</sup> ed.). Washington D.C.: ASM Press.

#### 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\*](#) (4<sup>th</sup> ed.). St. Louis: Elsevier.
- Stephenson, F.H. (2016). [\*Calculations for Molecular Biology and Biotechnology: A Guide to Mathematics in the Laboratory\*](#) (3<sup>rd</sup> ed.). London: Academic Press.

#### 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 \(CAP\)](#)