

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

## SPECIALIST AND INTERNATIONAL SPECIALIST IN MOLECULAR BIOLOGY, SMB(ASCP) AND SMB(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. (2014). [\*Molecular Biology of the Cell\*](#) (6<sup>th</sup> ed.). New York: Garland Science.

**\*\*A new edition will be available July 2022\*\***

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.

Cooper, G.M. and Hausman, R.E. (2019). [\*The Cell: A Molecular Approach\*](#) (8<sup>th</sup> ed.). New York, NY: Oxford University Press.

Krebs, J.E. et al. (2018). [\*Lewin's Genes XII\*](#) (12<sup>th</sup> 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. **\*\*A new edition will be available August 2022\*\***

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.

Jaffe, E.S. et al. (2017). [\*Hematopathology\*](#) - CHAPTER 6: Molecular Diagnosis in Hematopathology ONLY (2<sup>nd</sup> ed.). Philadelphia, PA: Elsevier, Inc.

Kulkarni, S. and 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\*](#) (2<sup>nd</sup> ed.). New York: Springer.

Nussbaum, R.L. et al. (2016). [\*Thompson and Thompson Genetics in Medicine\*](#) (8<sup>th</sup> ed.). Philadelphia, PA: Elsevier Inc.

Persing, D.H. et al. (Eds.). (2016). [\*Molecular Microbiology: Diagnostic Principles and Practice\*](#) (3<sup>rd</sup> ed.). Washington D.C.: ASM Press.

##### MANAGEMENT (SMB ONLY)

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

Harmening, D.M. (2020). [\*Laboratory Management: Principles and Processes\*](#) (4<sup>th</sup> ed.). St. Petersburg: D.H. Pub. & Consulting, Inc.

McPherson, R.A., & Pincus, M.R. (2021). [\*Henry's Clinical Diagnosis and Management by Laboratory Methods\*](#) (24<sup>th</sup> 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\*](#) (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

[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 \(PASCV\)](#)