

## 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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#### TEXTS

##### GENERAL MOLECULAR BIOLOGY

- Alberts, B., et al. (2014). [\*Molecular Biology of the Cell\*](#) (6<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. (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. (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. (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 Molecular Biology in 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. (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 \(PASCV\)](#)