



# Calculations for Molecular Biology and Biotechnology, Third Edition

By Frank H. Stephenson

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Calculations in Molecular Biology and Biotechnology, Third Edition, helps researchers utilizing molecular biology and biotechnology techniques?from student to professional?understand which type of calculation to use and why. Research in biotechnology and molecular biology requires a vast amount of calculations. Results of one data set become the basis of the next. An error of choosing the wrong type of equation can turn what would have been a successful research project or weeks of labor and research into a veritable house of cards. It could be how you calculated the medium in which you test your sample to calculating how long it takes a sample to grow to calculating the synthesis of multiple variables.

In one easy to use reference, Stephenson reviews the mathematics and statistics related to the day-to-day functions of biotechnology and molecular biology labs, which is a sticking point for many students, technicians, and researchers. The book covers all of the basic mathematical and statistical needs for students and professionals, providing them with a useful tool for their work.

- Features comprehensive calculations in biotechnology and molecular biology experiments from start to finish
- Provides coverage ranging from basic scientific notations to complex subjects like nucleic acid chemistry and recombinant DNA technology
- Includes recent applications of the procedures and computations in clinical, academic, industrial, and basic research laboratories cited throughout the text
- Features new coverage of digital PCR and protein quantification including chromatography and radiolabelling of proteins
- Includes more sample problems in every chapter for readers to practice concepts

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### **Editorial Review**

Review

"...a unique book in its focus on the use and understanding of essential mathematical and statistical calculations in molecular biology and biotechnology...will be useful to students, technicians, researchers, and experienced professionals who desperately need an easy-to-use book. This updated third edition is essential and most welcome. Score: 85 - 3 Stars" --**Doody's, *Calculations for Molecular Biology and Biotechnology, Third Edition***

About the Author

Frank Stephenson received his doctorate in molecular biology from UC Berkeley and has published several books in the field including 'DNA: How the Biotech Revolution is Changing the Way We Fight Disease' and 'A Hands-On Introduction to Forensic Science: Cracking the Case'. He is currently an instructor in the Technical Training Department with ThermoFisher Scientific, the world's leading manufacturer of instrumentation and reagents for the biotechnology industry.

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