

DNA Sequencing

Optimizing the Process and Analysis

Edited by Jan Kieleczawa

DNA sequencing techniques have evolved rapidly in recent years — largely resulting from the Human Genome Project — but scientists still encounter challenges in sequencing genomes. *DNA Sequencing: Optimizing the Process and Analysis* was written to help scientists sequence difficult templates. It is also a practical guide to faster and more efficient routine DNA sequencing. This in-depth volume covers important topics in the field, including biochemical and technological advances stemming from the Human Genome Project, proven and newly emerging methods of preparing DNA templates, the effects of widely used laboratory reagents on DNA sequencing, Laboratory Information Management Systems (LIMS), setting up of a GLP/GMP DNA sequencing lab, and the future of DNA sequencing.

“... [*DNA Sequencing: Optimizing the Process and Analysis* offers] fascinating insight into the many and varied approaches to solving problem sequences, to say nothing of the appreciation one should gain that this has been, and remains, a difficult set of problems to solve.”

—from the Foreword by Elaine R. Mardis