

Preface

The achievements and developments in biochemistry and molecular biology are based on various scientific experiments. Without a basic knowledge of the principle and procedure of these experiments, one cannot profoundly comprehend the contents in biochemistry and molecular biology. It is essential for the students to understand and master the techniques and methods commonly used in this discipline. The aim of the teaching on experimental biochemistry and molecular biology is to train the students' ability to think and resolve problems on their own, and to develop their initiative and creativity.

According to the arrangement for our experimental teaching, this manual is divided into two parts: Part I and Part II. The basic principles of some techniques, such as spectrophotometry, electrophoresis, chromatography, centrifugation, genetic engineering, etc., are mainly described in Part I. Part II consists of 25 experiments, each of which provides a detailed procedure for students to practice. Through the experimental teaching, we hope that students can obtain the basal skill training of biochemistry and molecular biology, and deeply understand and master the biochemical theory.

This manual is not only applicable both to the undergraduates and graduates, but also to researchers in this field. Sincerely, we look forward to receiving more suggestions and comments from the students and teachers who use it.

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