



PREFACE

Progress in life science, including medical science, is mainly made by observation and experiment, especially biochemistry and molecular biology experiment. So, learning the basic biochemical techniques and methods is essential to medical students and the students of other related disciplines.

The first edition of this manual presents shortened versions of the basic biochemistry methods designed for use at the lab bench in a biochemistry and molecular biology laboratory. It is primarily intended for undergraduate medical students, and hopefully it will be a useful reference book for graduate students and teaching staff. The objectives for the course are for students to learn modern biochemical laboratory methodologies and techniques, develop the ability to perform experiments successfully and independently, properly interpret the data and write scientific laboratory reports. Students who learn biochemistry as a part of medical science should be able to understand the concepts and methods of not only the conventional clinical laboratory tests but also the recently developed tests. For this purpose, we have made this manual with incorporation of some clinical laboratory test kits. All of the experiments have been performed many times in our own laboratory. We hope that they will provide a reliable training of the most important and commonly used techniques of contemporary biochemistry.

We express our appreciation to our colleagues in the Department of Biochemistry and Molecular Biology, Wuhan University School of Medicine, who have contributed ideas, techniques and experiences to the manual. We are really grateful to all the experts, especially those from other universities, who made big contribution to the compiling of various chapters.

This manual is not a complete version. It should be continually modified and updated. We would be very grateful if the users of this manual could bring good feedbacks for the development of this manual.

Yu hong and Huang xinxiang

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