

Preface

Biochemistry and Biotechnology both are multidisciplinary branches of science. Biochemistry is the study of the chemical processes in living organisms. It deals with the structure and function of cellular components, such as proteins, carbohydrates, lipids, nucleic acids, and other biomolecules. While Biotechnology is defined as the science of using living things, and components of living things: tissues, cells, proteins, genes or DNA, to produce goods and services. It involves manipulating and modifying organisms, often at the molecular level, to create new and practical applications for agriculture, medicine and industry etc. It is often used to refer to genetic engineering, however the term encompasses a wider range. It combines disciplines like genetics, molecular biology, biochemistry, embryology and cell biology, which are in turn linked to practical disciplines like chemical engineering, information technology, and robotics.

This book presents a succinct account of the essential features of the Biochemistry and Biotechnology, and is being prepared by keeping in view the requirements of the students and academic professionals. The text has been suitably illustrated with simple and self explanatory diagrams. It is believed that the book is not only useful to undergraduate and post graduate students of biological sciences, life sciences and agricultural sciences, but also as a reference tool to the others interested in the allied fields.

—S. Banerjee