
Preface

Biotechnology today is one of the most powerful tools in the hands of humanity. Generally defined as the science which manipulates and/or uses biological systems, plants and organisms to create goods and services for human consumption, it projects an almost unbelievable future for the whole of mankind. Though it has been in existence since thousands of years, as in the use of microorganisms for winemaking and other fermentation products, biotechnology today is a multi-disciplinary science which has already taken great strides in various fields—agriculture, medicine and health, pharmaceuticals, fisheries, etc. However, beyond enhancing current human fields of endeavour, it also promises to usher in a new scientific dawn—one wherein all science fiction may just about come true, such as the development of human clones.

'Advanced Biotechnology' is a book which makes an attempt at understanding the science of biotechnology at a more complex level, than commonly utilised, it explores the various promises this field holds and examines the various tools and technologies within this field, including rapid DNA sequencing, much more sensitive methods of DNA and antigen detection, biotechnology for addressing today's waste and energy challenges etc. It also offers a multi-faceted perspective on this science, fostering a better understanding of the implications this field projects.

Thought provoking and insightful, it is hoped that this book proves to be highly informative for the reader.

*Mahadev Sharma
Nirmal Tripathi*