PREFACE

The world is advancing at a fast pace like never before. Therefore, the need is to keep up with the latest developments. This book was an idea that came to fruition when the specialists in the area realized the need to coordinate together and document essential themes in the subject. That's when I was requested to be the editor. Editing this book has been an honour as it brings together diverse authors researching on different streams of the field. The book collates essential materials contributed by veterans in the area which can be utilized by students and researchers alike.

Biotechnology is referred to as the utilization of biological processes for industrial and other purposes. It involves the genetic manipulation of microorganisms for the production of antibiotics and hormones. Innovative biotechnology provides advanced products and techniques to combat devitalizing and rare diseases and develop greener, and more efficient industrial manufacturing processes. Biotechnology has applications across multiple industries such as food, pharmaceutical, chemical, bio-products, textiles, medicine, nutrition, and animal sciences. A few of its major branches are animal, medical, industrial, environmental, and plant biotechnology. This book attempts to understand the multiple branches that fall under the discipline of biotechnology and how such concepts have practical applications. The various studies that are constantly contributing towards innovative technologies and evolution of this field are examined in detail. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of biotechnology.

Each chapter is a sole-standing publication that reflects each author's interpretation. Thus, the book displays a multi-facetted picture of our current understanding of application, resources and aspects of the field. I would like to thank the contributors of this book and my family for their endless support.

Editor