



## Recent Trends in Life Sciences, 1/e

M.H. Fulekar & R.K. Kale

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### About the Book

Life sciences, research plays an important role in the R&D system, for appliances in the multidisciplinary areas, related to living creatures. It generates new knowledge and understanding that provide the foundation for applied research and development. The basic research provides reliable information on multidisciplinary area of the biology for application in the life system, more intensive knowledge creation through basic research could be seen as a way to enhance innovative activities. Life sciences advances go beyond molecular base science. Improvement also puts ahead behavioural sciences and ecology. The greatest advances of the recent past requirement combination of technology which include ecosystem and biodiversity study, biotechnology aspect, proteomic and genomic studies leading to metagenomic and the healthcare using the diagnosis, prevention of disorder and disease. The combination of multidisciplinary research in plants, animals, microorganisms their interaction and the molecular biology, genetic engineering approaches and their advances in cell biology research has taken the life sciences, to the greatest extent for the wide horizons of life. This book deals with the recent trends in life sciences and will be beneficial for the postgraduates and research scholars of life sciences, environmental sciences, molecular biologist and biotechnologists.

### Salient Features

- ▶ Presents a compilation of the recent trends in the interdisciplinary fields of life sciences, spread across 20 chapters.
- ▶ Brings out the contours of the newer areas of specialization as a result of technological advancements and their usage in life-science research.
- ▶ Discusses topics like biodiversity and its conservation, sustainable development, bioprospecting, carbon dioxide sequestration, microbial interactions, cancer research, etc.
- ▶ All chapters all well supported with tables and pictures for a better understanding.
- ▶ Provides an abstract for each chapter.

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### **About the Author**

**M.H. Fulekar** :- M.H. Fulekar is Professor of Environmental Biotechnology in University Department of Life Sciences, University of Mumbai. He was Head, University Department of Life Sciences, University of Mumbai (2005-2008). He is Academic Coordinator of UMDAE CBS (Biology) Mumbai. He is Chairman of Ad hoc Board of Studies in Life Sciences, University of Mumbai and Chairman of Ad hoc Board of Studies in Environmental Sciences, Nagpur University. He is also rendering his expertise in Life Sciences/ Environmental Sciences to various scientific bodies/organizations. He has had an international assignment on industrial hygiene/chemical safety in Australia, Bangkok and Singapore. He has to his credit a number of research papers and articles published in international and national journals of repute. He is the author of: Environmental Biotechnology: Chemical Safety and Industrial Hygiene, Dictionary of Biotechnology (IK International), and Bioinformatics: Applications in Life & Environmental Sciences. His biography was included in "The Marquis Who's Outstanding Scientist of the 20th Century" in 2000 by International Biographical Centre, Cambridge, England. He is also a member of New York Academy of Sciences, USA. He is well known nationally and internationally for his work on environment sciences/environmental biotechnology.

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