

About the Book

'Basics of Biotechnology' is prepared mainly for those students who pursue biotechnology as a subject for undergraduate courses including B.Tech. and B.Sc. of all Indian universities. It follows the syllabus prescribed by UGC and the major universities that run this course. It covers all the essential fundamental aspects of modern biology such as biochemistry, molecular biology, genetics, cell biology, biotechnology as an industry and its socio-economical and ethical aspects in a very comprehensive manner. Reading this text book will give the learners an idea about the relationship between the subject and health, nutrition, agriculture, environment, industry etc and will understand different application of biotechnology in everyday life. The book will be very helpful in developing interest in the beginners to study biotechnology as a discipline and pursue higher studies and research in biotechnology and other professional courses in future.

About the Author

Dr. A. Jayakumaran Nair, presently working in the Department of Biotechnology, University of Kerala is an experienced researcher and teacher in Biotechnology. His areas of expertise include isolation and characterization of novel types of genes and proteins, development of therapeutic antibodies and hormones through plant genetic transformations, screening of novel types of bacterial cultures, tissue and cell cultures and computational biology. Dr. Nair was formerly a Senior Research Fellow, Research Associate and Fellow Scientist of the Council of Scientific and Industrial Research (CSIR), Government of India. He was a Research Associate at Indian Agriculture Research Institute, New Delhi and Centre for Biochemical Research (CSIR), New Delhi. He also worked as Research Associate and Scientist at the Centre for Biotechnology, Jawaharlal Nehru University, New Delhi. He has received 'Young Scientist Award' (1995) at the Kerala Science Congress and 'Young Scientist Award' (1995) from the Department of Science & Technology, Government of India. Dr. Nair has authored many research articles and books and has contributed to numerous national and international seminars and conferences. Dr. Nair holds a Ph.D. in Biochemistry from Regional Research Laboratory (CSIR), Kerala and a M.Sc. in Plant Sciences from University of Kerala.



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