

PREFACE

Recently, Science of Molecular has grown into a most colourful branch of biology and it has accommodated so much vast discoveries within the last three decades to synchronize the different chapters on fundamental and classical genetics coupled with modern molecular genetics becomes always unsatisfying to ownself. But researches such as Identification and Synthesis of Genetic Material. Cracking of Genetic Code, Genetic Engineering, Genetic control of Growth, Differentiation and Phenotypic Expression, Regulation of Gene activities, Biosynthesis of Proteins, Laboratory Synthesis of life.

The book, intended to cover the basic concepts of the subject while tracing them to the level of modern researches, would offer an up-to-date, lucid and sufficiently illustrated reading to the undergraduate and graduate students of Botany, Zoology, Agriculture & Microbiology and also, to a certain extent, to Medical students. Besides, at places it may serve as a source of intellectual stimulation for the subject lovers as it involves facts of our own life and the mystical machinery of nature.

Here the subject has been so planned as to divide it into several chapters on Molecular Biology is the nucleus of the book while other ones are like organelles in their importance. These together make it a complete and suitable book.

My experience while dealing with the subject both at graduate and post graduate classes for the last several years imposed a feeling to present an up-to-date matter on the various topics in a way as it could have been explained in the class by the teachers. Though it is a difficult task, yet this attempt may be fruitful in solving many complicated problems of the independent students. At the same time, considering the relative importance of recent discoveries, some sub-chapters have been raised to separate chapters to invite special attention of readers.

I am thankful to Shri Mohit Jain and Mr. Prashant Jain for timely bringing out the book. In the end, I shall fail in my duties if I do not express my sincerest and heartfelt gratitude to all these and loved ones who have sacrificed a great deal in my ways while I was busy in preparing the manuscripts of the book. We wish to thank Subesh Saytiya (Pub/Div Delhi), Dr. B.P. Nigam (Ex. Director C.F.T.R. Mysore), Purshottam Sharma (I.A.S. Retd.), Er. Kalicharan Sharma(Shanti Kunj), Er. Amit Srivastava (BHU), Dr. Naresh Mishra (Rohtak).

Finally, I must admit that my Mother and Father observed marvellous patience in sparing several weekends and evening which kept me absolutely occupied with this write up and I express my deep sense of gratitude to them. Perfection is an extremely rare achievement and I could not afford to wait that long.

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