

Biostatistics Basic and Advanced

It is well known that the foundation and development of statistical theory came up with a search for interpretation of results of research experiments, hence decision making, in biological, agricultural and medical fields. This endeavour gave birth to a new stream of mathematical sciences named statistics.

The present book aims to provide basic knowledge and explain application of biostatistics to master's level students pursuing courses in different disciplines and also to help young researchers. This book effectively summarizes the author's several years' experience of teaching and research.

The author has also drawn ideas from her interaction with researchers in a variety of disciplines such as education, social science, life sciences, agricultural sciences, medical sciences, earth sciences and engineering.

The book covers almost all parts of the recent UGC model syllabus in biological sciences relating to quantitative zoology. It explains how to choose an appropriate statistical analysis method for various biological experimental data.

This book may be used as a textbook by undergraduate and postgraduate students of biostatistics in biological, agricultural and health sciences. It will help researchers in these and other aforesaid disciplines.

Manju Pandey has an M.Sc. and Ph.D. in statistics from the department of statistics, Banaras Hindu University (BHU), Varanasi, India. She served the same department as lecturer for seven years before joining the department of zoology as a reader. She framed a postgraduate course in biostatistics for M.Sc. in zoology and taught it for 25 years. She has also designed a FORTRAN programming course for undergraduate honours studies and taught it for several years.

Manju Pandey has conducted courses on bioinformatics in Mahila Maha Vidyalaya, Banaras Hindu University, Varanasi, MS University, Baroda, and Central University of Jharkhand, Ranchi. She lectured in reliability theory in Marathwada, Amaravati and Jaipur Universities. She also acted as a faculty member for a summer course in biostatistics in Madurai Kamraj University.

She has also headed the department of computer science at BHU and has been a professor of biostatistics. Other publications by the author include an edited volume titled *Statistical Advances in Biosciences and Bioinformatics* and more than 50 technical papers in various national and international journals.

She has organized three national workshops on biostatistics, a biennial conference of International Biometric Society – Indian Region (IBS-IR) and participated in several international and national conferences in India and abroad.

 **MV Learning**

3, Henrietta Street
London WC2E 8LU
UK

4737/23, Ansari Road
Daryaganj
New Delhi 110002, India

ISBN 978-81-309-2753-4



9 788130 927534