



# Bioinstrumentation and Methods in Biology

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# **BIOINSTRUMENTATION AND METHODS IN BIOLOGY**

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## **PREFACE**

Its great pleasure to me to bring out this Book entitled by – TEXT BOOK OF – “BIOINSTRUMENTATION AND METHODS IN BIOLOGY”. This book is written according to the syllabus of M.Sc. FY. Swami Ramanand Teerth Marathwada University, Nanded. This book will be very useful to the students studying at graduation level in various universities. Present book includes study of Microscopic and Staining Techniques, Chromatographic and Sterilization Techniques, Spectroscopic and Radioactive Techniques and Electrophoretic and Centrifugation Techniques.

I have tried to present all the things in a simple manner. Hopefully this book will be the best choice for students as well as teachers. I have worked out sincerely for this book but nobody is perfect hence there may be some shortcomings which will be modified in the next version of book.

I am thankful to chairperson and all the members of Board of studies in Botany SRTMU Nanded for their help and support.

I am very thankful to shri. B.R. Toshniwal, President Shri. Gajanan Shikshan Prasarak Mandal and Principal S.G. Talnikar, Toshniwal ACS College, Sengaon for their guidance and constant support.

Words are insufficient to thank my parents Sow. Pushpabai Chavan & Thavara Chavan and Sow. Lalita and Laxmanrao Rathod and my family members Sow. Vidhya Radheshyam Chavan, Vivek- Nisha, Vinod – Shanta, Rajesh- Manisha and my sweet daughter Janhavi Chavan and my sweet son Jay Chavan who never argued for negligence during this work.

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***DEDICATE***  
***TO***  
***MY PARENTS***  
***&***  
***MY WIFE VIDHYA RADHESHYAM CHAVAN***

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*Genetics, Molecular Biology, Cell Biology, Plant Physiology, Plant Taxonomy, Plant Pathology and Ethano medicinal plants are special subject for his interest. As an active botanist he has undertaken research project sponsored by UGC.*



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