

Textbook of Microbiology

Salient Features of the Book

The book gives

- Real images for better understanding of the subject
- Staining procedures in detail along with special charts to explain principles of Gram and Z-N staining
- Illustrations and flowcharts at appropriate places to help the reader in understanding the concepts
- Virulence factors and updated pathogenicity
- Recent advances in diagnosis and vaccination
- Precisely written medical mycology and real images of fungi for easy identification
- Additional information on organisms with lists of organisms causing various syndromes | clinical presentation
- Special information regarding the drug of choice (DOC) and alternate drugs in tabular form
- Advanced and newer topics such as Ebola, H1N1, VRE, VRSA, XDR-TB, NDM
- Automation and newer methods of diagnosis
- Clinical studies
- Text in a logical format throughout the book
- Focused information, avoiding unnecessary details
- Properly explained procedures
- Recent tests including BACTEC, MALDI-TOF, PCR, DNA chips, explained in a simple manner with relevant photographs.
- Morphological features of all bacteria summarized in the appendix to help the reader in *viva voce* and solving MCQs.
- Biosafety, bioterrorism (included in appendix)
- Special smart arts for biochemical tests of gram-negative and gram-positive bacteria; differentiation of members of family Enterobacteriaceae, important in practicals, also included
- How to describe morphology of bacteria with examples as well as how to describe colony characteristics included with examples in the chapter of identification of bacteria; relevant real photographs provided making it easy to understand.

Vasant Baradkar

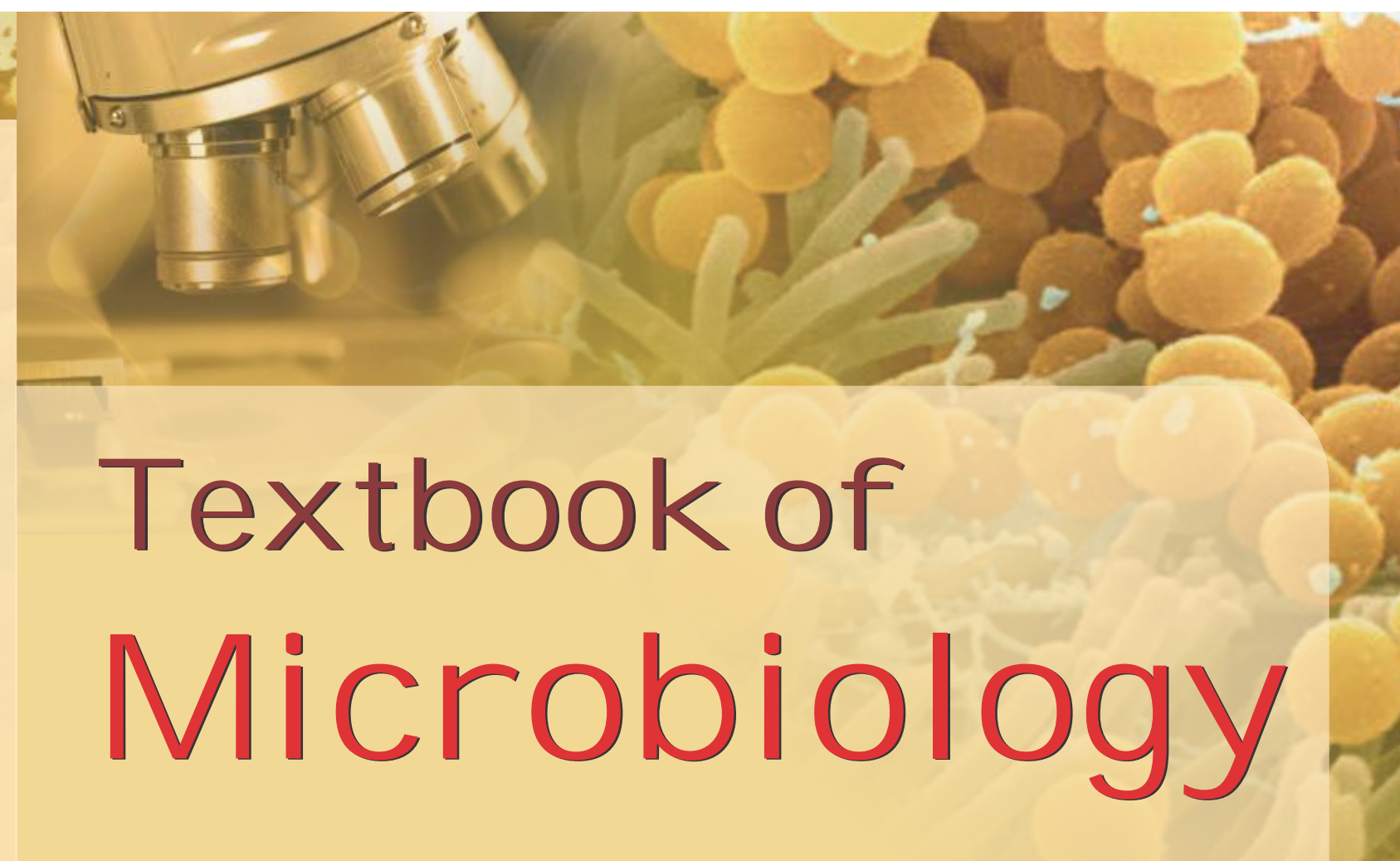
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He has been given ECMM Award sponsored by European Confederation of Medical Mycologists for his research work.

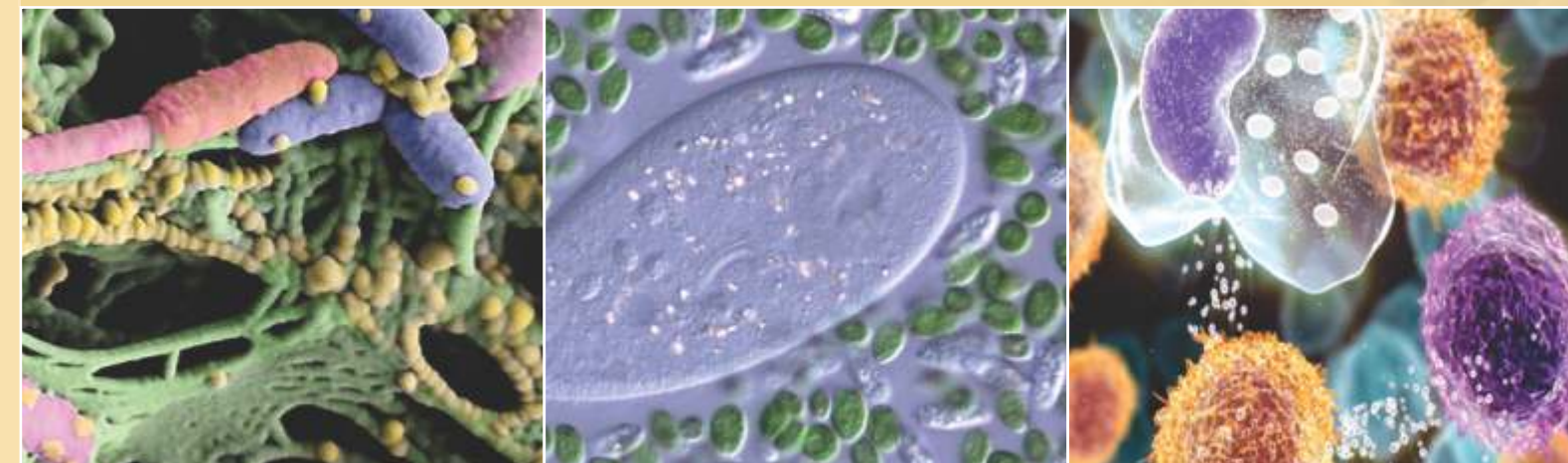
He has to his credit 50 papers published in national journals and 9 in international journals. He has reviewed many international journals as *Mycoses*, *Mycopathologica*, *BMC Infectious Diseases* and many national journals. He received prizes for best oral papers as well as best poster presentations. He has made many presentations at conferences. As a faculty he has contributed in CME programmes. His love for teaching is reflected by his association with students as a teacher

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Baradkar



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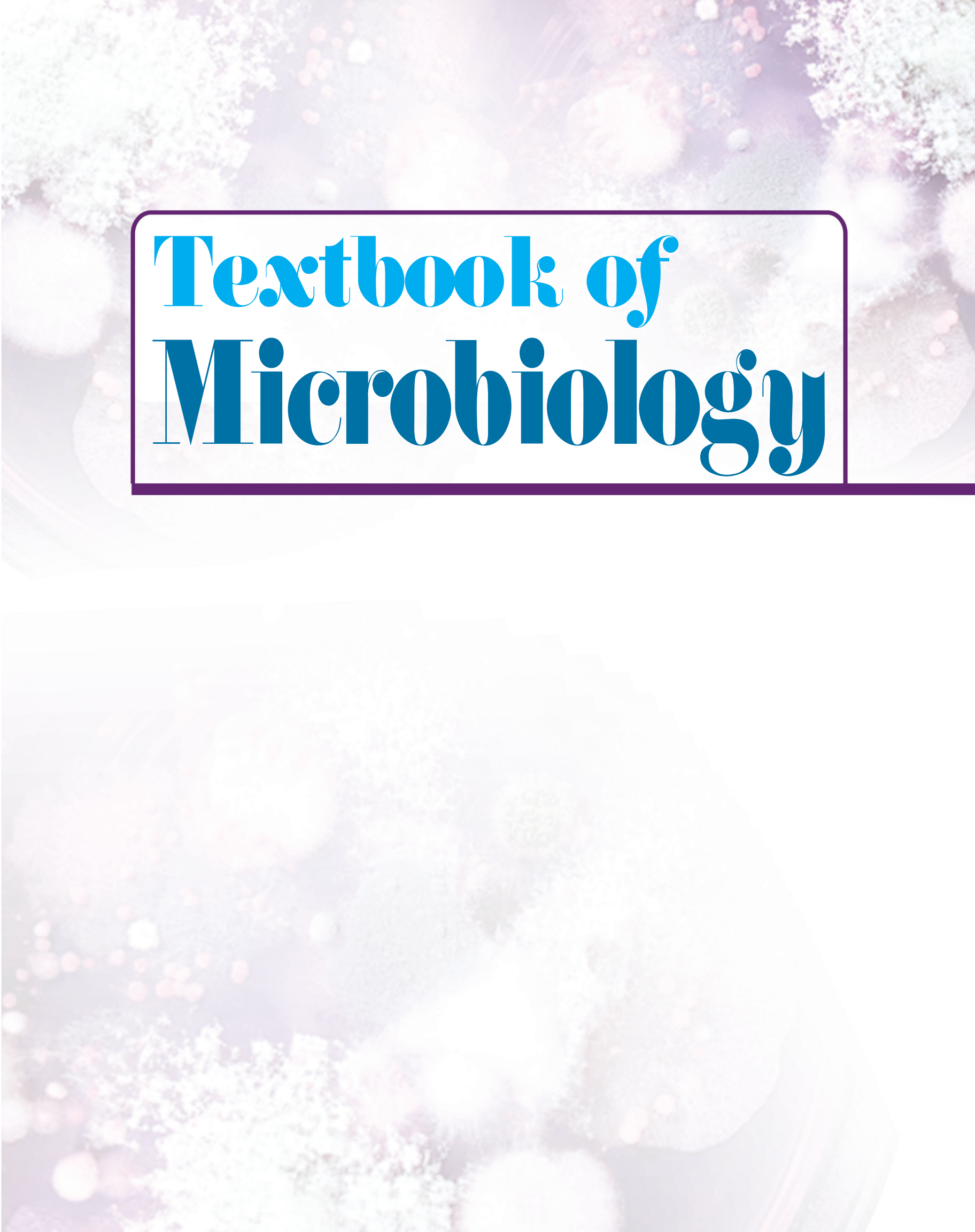
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ISBN: 978-93-86478-14-6



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The background of the entire page is a composite image of various microbial cultures. It features several petri dishes with different types of bacterial growth, including colonies of varying colors (white, yellow, pink, green) and textures (smooth, fuzzy, filamentous). The lighting is soft, creating a professional and scientific atmosphere.

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ISBN: 978-93-86478-14-6

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First Edition: 2017

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Published by Satish Kumar Jain and produced by Varun Jain for

CBS Publishers & Distributors Pvt Ltd

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Printed at International Print - O - Pac Limited, Noida, UP, India

to

My father Sh. Purushottamrao

My mother Smt. Sumitra

My wife Swati

and

My sons Pushkaraj & Shubhankar

*for their love which made
everything possible*



Preface

This book is written in a manner to cover the syllabi of medical and paramedical students as well as it is useful for laboratory persons. Special efforts have been made to increase clinical judgment of the students. Use of real diagrams, as many as possible, is helpful so that students can understand and assimilate the knowledge without giving too much stress to their imagination. Students can reproduce information in examination. All the topics are covered precisely which act as a base for the students to prepare for higher examinations. Recent advances in diagnosis, treatment and vaccination is included in each topic. Various flowcharts are given under pathogenesis to make it easy to understand. Epidemiological features of infectious diseases are given with special reference to the Indian context.

I welcome all the suggestions and hope that students and teachers will extend their support by giving me their valuable suggestions and comments.

Vasant Baradkar

Acknowledgments

I would like to thank my teachers who are my role models, and who set examples in teaching. I am indebted Mr Rajesh Bhalani of Bhalani Publishers and Mr Satish Kumar Jain of CBS Publishers & Distributors Pvt Ltd who helped to make my dream come true by publishing my work. I am thankful to Dr Prachi Jawale for helping in correction of the manuscript. I would like to thank my family for patiently enduring the writing of the book. I thank Manoj Rajphar for doing DTP work.

Vasant Baradkar

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