

Preface

"Nothing is more conservative than a bacterium"

—Nick Lane

The main purpose of Practical Bacteriology is to condense and summarise the basic technique of bacteriology experiments. The book is written in such a form that it can serve undergraduate students, postgraduate students and research scholars in the fields related to bacteriology. An attempt has been made to summarise all the necessary experiments required during bacteriology practical and research projects. Although many practical microbiology books have been published but to the best of my knowledge this is the first book which contains all the basic experiments related to bacteriology for helping students in order to begin their research career in the field of bacteriology. The book contains some new experiments which are not included in any practical book so far. This book can become a milestone for the students and researchers whose focus is towards only bacteriology in the field of Microbiology. The book is written in such a way that it can help students to understand the concept and procedure of a particular experiment. The standard procedure has been referred from the reputed text books and journals and the same has been modified in a simple way. The major benefit of this book is that the contents of the experiments have been written in a nutshell and the procedures are summarised in simple and easy language. The summarising references can help students to consult only a limited number of sources. The subject matter in *Practical Bacteriology* contains all the basic and necessary experiments to carry out novel researches.

The author wishes to express his thanks for the criticisms and advices from those who read parts of the manuscript: Dr. Esther Lydia (Assistant Professor, Department of Food Chemistry, Loyola College, Chennai, Tamil Nadu), D. Sankari (Head of Department, Faculty of Science and Humanities, Department of Biotechnology, SRM university, Potheri, Chennai, Tamil Nadu), G. Stephan Nehru (Faculty, School of French Studies, Nungambakkam, Chennai, Tamil Nadu) and D. Sargunam John Poonga (Rtd. Science Teacher, SKDJ Higher Secondary School, Thiruverkadu, Chennai, Tamil Nadu).

My special thanks to Ms. Chirom Aarti for her kind support and prayers during manuscript writing and throughout my research career.

I would like to thank Dr. Shirly George Panicker (Assistant Professor, Department of Plant Biology & Biotechnology, Loyola College; Co-ordinator, Helen Keller Research Centre, Loyola College, Chennai) for her blessings and constant motivation with golden thoughts of her extraordinary mind. The author is also grateful to Research Scholars of Department of Plant Biology and Biotechnology, Loyola College, Chennai for their friendly behaviour and providing necessary equipment in order to get good results for the experimental part of this book. The author gives acknowledgement and thanks to all the numerous authors whose reports have been presented in this textbook.

Finally, but most important, I wish to extend appreciation to my family for the support, patience and encouragement.

Ameer Khusro