

## Preface

Biofilms are classic examples of microbial communities that persist collectively in a self-synthesized matrix and challenge the concept of prokaryotes as isolated organisms. Microbial biofilms are extremely robust in terms of resistance to various chemicals and antimicrobials and are relevant in more than half of infectious diseases globally. In addition microbial biofilms have numerous industrial applications such as their use in bioremediation, electricity generation and wastewater treatment. The importance of biofilms cannot be understated and work in this field will continue to grow in the future.

This book covers various aspects of microbial biofilms with a focus on mechanisms of biofilm formation, techniques to study microbial biofilms and applications of biofilms. The book is up-to-date in terms of content and developments in the field. Keeping the focus on basics, the book touches on relevant updates in the field of biofilms.

The authors aim to provide a broader overview covering basic to applied research on biofilms. This volume will be useful to graduate students, researchers and scientists working in this field. The book is also relevant to researchers and students from other disciplines wishing to learn more about biofilms.

Arindam Mitra, Ph.D  
Associate Professor and Head,  
Department of Microbiology  
School of Life Science and Biotechnology  
Adamas University