

Preface

Every book is initially just a concept; it takes months of research and hard work to give it the final shape in which the readers receive it. In its early stages, this book also went through rigorous reviewing. The notable contributions made by experts from across the globe were first molded into patterned chapters and then arranged in a sensibly sequential manner to bring out the best results.

DNA molecules undergo chemical reactions which may alter their structure and DNA repair is the process by which such damages are repaired. Significant damage may hinder the RNA transcription process as well as cause mutations in the DNA molecule. Cell aging, apoptosis and cancerous tumors are common outcomes of long-term damage to DNA. Cellular processes such as the stress to reactive oxygen species as well as exposure to ionizing radiation and large amounts of ultraviolet light are sources of DNA damage. This book explores all the important aspects of DNA repair in the present day scenario. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.

It has been my immense pleasure to be a part of this project and to contribute my years of learning in such a meaningful form. I would like to take this opportunity to thank all the people who have been associated with the completion of this book at any step.

Editor