

BIOPHYSICS



Edited by **Dr A.N. Misra**

Prof Dr Amarendra Narayan Misra has 35 years of research experience and 30 years of Post-Graduate teaching experience in Plant Biology, Molecular Biology & Biotechnology. He served as Professor of Plant Molecular Biology & Biotechnology, University of Pune; Guest Researcher, University of Tokyo; Professor of Plant Physiology & Biochemistry, Utkal University; founding Professor of Department of Biosciences & Biotechnology at Fakir Mohan University. He is currently founding Professor of Centre for Life Sciences, School of Natural Sciences, Central University of Jharkhand (CUJ), Ranchi, India. Prof. Misra served universities in various other capacities of University management/academic councils/administration for innovating and improving teaching and research. He guided more than 9 Ph.D. and 43 M.Sc., M.Tech. and M.Phil. students and published more than 135 papers in the field of Plant Biology, Biotechnology & Bioinformatics. His research interests cover the structure and function of photosynthetic membranes, luminescence, biosensors, tissue culture and mechanism of stress adaptation of tropical crop plants. Received fellowships/awards from CEC, FEBS, DBT, DST, CSIR, INSA, UGC, JSPS. Prof. Misra studied and collaborated during his research with scientists from more than 10 countries across the globe including Argentina, Brazil, Bulgaria, Japan, Poland, Switzerland, Ukrain, UK, USA.

Biophysics is a vast cross-disciplinary subject encompassing the fields of biology, physics and computational biology etc in microbes, plants, animals and human being. Wide array of subjects from molecular, physiological and structural are covered in this book. Most of these chapters are oriented toward new techniques or the application of techniques in the novel fields. The contributions from scientists and experts from different continents and countries focuss on major aspects of biophysics. The book covers a wide range of topics reflecting the complexity of the biological systems. Although the field of biophysics is ever emerging and innovative, the recent topics covered in this book are contemporary and application-oriented in the field of biology, agriculture, and medicine. This book contains mainly reviews of photobiology, molecular motors, medical biophysics such as micotoools and hoemodynamic theory.

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