
Contents

Preface		vii
Chapter I	Repetitive DNA in <i>Phyllostachys pubescens</i> Genome and its Utilization for Genomic Evolution Analysis and Marker-Assisted Selection <i>Ding-Qin Tang and Ming-Bing Zhou</i>	1
Chapter II	Transcriptional Networks: Dynamic Information Fluxes <i>Absalom Zamorano-Carrillo, Beatriz Zamora-López, Claudia-Guadalupe Benítez-Cardoza, Rosas-Trigueros Jorge Luis, César López-Camarillo and Laurence A. Marchat</i>	41
Chapter III	A New Method for the Identification of Leucine-Rich Repeats by Incorporating Protein Secondary Structure Prediction <i>Norio Matsushima, Hiroki Miyashita, Tomoko Mikami and Keiko Yamada</i>	61
Chapter IV	MicroRNA Profiling Involved in Human Tumorigenesis Using Bioinformatics Tools <i>Minal Garg</i>	89
Chapter V	Human Bio-Banks and Human Genetic Databases – The Bioethical Dimensions <i>G. Gandhi</i>	105
Chapter VI	Application of Next-Generation DNA Sequencing in Medical Discovery <i>Dilyara Cheranova, Li Qin Zhang, Daniel P. Heruth and Shui Qing Ye</i>	123
Chapter VII	Phylogenomics <i>Monika Miglani and S. K. Gakhar</i>	137
Chapter VIII	Transposons – The Alchemists in ‘Junk’ Disguise <i>Vipin Singh</i>	161

Chapter IX	Computational Insights into the Binding Mechanisms of Withaferin A, A Herbal Anticancer Drug <i>Abhinav Grover, Vibhuti Agrawal, Ashutosh Shandilya, Virendra S. Bisaria and Durai Sundar</i>	197
Chapter X	Cancer Phylogenetics: Computational Modeling of Tumor Evolution <i>Felix Bast</i>	211
Index		231