Contents

	facentributors	is
PAI	RT I EMERGING EXPERIMENTAL AND BIOINFORMATICS TECHNOLOGIES	
1	T Cell Receptor Repertoire Sequencing	3
2	Nanopore Sequencing and Its Clinical Applications	13
3	The Clinical Significance of Microsatellite Instability in Precision Treatment	33
4	Applications of Network Analysis in Biomedicine	39
Par	RT II PRECISION MEDICINE OF CANCERS	
5	Diagnosis and Treatment of Breast Cancer in the Precision Medicine Era	53
6	Application and Analysis of Biomedical Imaging Technology in Early Diagnosis of Breast Cancer	63
7	Recent Advances in DNA Repair Pathway and Its Application in Personalized Care of Metastatic Castration-Resistant Prostate Cancer (mCRPC)	75
8	Methylation in Lung Cancer: A Brief Review	91
9	Epstein-Barr Virus DNA in Nasopharyngeal Carcinoma: A Brief Review Fen Xue and Xiavun He	99

Contents

10	A Review on Cancer of Unknown Primary Origin: The Role of Molecular Biomarkers in the Identification of Unknown Primary Origin	109
Par	ET III PRECISION MEDICINE OF CARDIOVASCULAR DISEASES	
11	DNA Methylation in Atrial Fibrillation and Its Potential Role in Precision Medicine	123
12	PCSK9 Inhibition and Atherosclerosis: Current Therapeutic Option and Prospection	133
13	Precise Drug Sequential Therapy Can Improve the Cardioversion Rate of Atrial Fibrillation with Valvular Disease after Radiofrequency Ablation	145
14	Precision Medicine and Dilated Cardiomyopathy	161
15	Research Progress in Pathogenesis of Total Anomalous Pulmonary Venous Connection	173
PAF	RT IV PRECISION MEDICINE OF OTHER COMPLEX DISEASES	
16	Airway Inflammation Biomarker for Precise Management of Neutrophil-Predominant COPD	181
17	Genome Variation and Precision Medicine in Systemic Lupus Erythematosus Ru Yang, Yaqi Hu, and Lin Bo	193
Par	RT V ENGINEERING AND SURGICAL DEVELOPMENTS IN PRECISION MEDICINE	
18	Precision Medicine in Tissue Engineering on Bone	207
19	Progress of Clinical Application for Ex Vivo Lung Perfusion (EVLP) in Lung Transplantation	217
Ind	lev	225