

CONTENTS

Preface	v
Contributors	ix
Value-Added PDA	xiii

PART I. GENES AND POLYMORPHISMS IN CARDIOVASCULAR DISEASE

1	Angiotensin II Receptor Polymorphisms and Hypertension	3
	Bruno Baudin	
2	Angiotensinogen Gene Polymorphisms and Hypertension	19
	Ashok Kumar	
3	Substitution Mapping: <i>Using Congenic Strains to Detect Genes Controlling Blood Pressure</i>	41
	Bina Joe and Michael R. Garrett	
4	Local Production of Angiotensinogen: <i>Insights From Genetic Manipulation of Mice</i>	59
	Kamal Rahmouni and Curt D. Sigmund	
5	Cardiovascular Pharmacogenomics	71
	Julie A. Johnson and Larisa H. Cavallari	
6	Genetic Polymorphisms and Response to HMG-CoA Reductase Inhibitors	95
	Anke-Hilse Maitland-van der Zee, Olaf H. Klungel, and Anthonius de Boer	
7	Monogenic Causes of Heart Failure: <i>Familial Dilated Cardiomyopathy</i>	115
	Hideko Kasahara	

PART II. GENE TRANSFER FOR COMBATING CARDIOVASCULAR DISEASE

8	Gene Therapy vs Pharmacotherapy	137
	Ryuichi Morishita	
9	Molecular Therapeutic Approaches for Myocardial Protection	157
	Alok S. Pachori, Luis G. Melo, and Victor J. Dzau	
10	Gene Transfer and the Cardiovascular System	175
	William H. Miller, Stuart A. Nicklin, Andrew H. Baker, and Anna F. Dominiczak	
11	Kallikrein Gene Transfer in Hypertension, Cardiovascular and Renal Disease, and Stroke	197
	Julie Chao and Lee Chao	

12	Current and Future Novel Targets of Gene Therapy for Hypertension	213
	Michael J. Katovich, Justin L. Grobe, and Mohan K. Raizada	
13	Application of Viral Gene Transfer in Studies of Neurogenic Hypertension	247
	Sergey Kasparov, A. G. Teschemacher, and Julian F. R. Paton	
14	Vigilant Vectors: <i>Intelligent Gene Vectors</i> for Cardioprotection in Myocardial Ischemia	269
	M. Ian Phillips and Yi Tang	
15	Gene Therapy for Cerebral Arterial Diseases	285
	Yoshimasa Watanabe and Donald D. Heistad	
 PART III. REGENERATIVE TISSUES		
FOR THE DISEASED CARDIOVASCULAR SYSTEM		
16	Therapeutic Angiogenesis and Vasculogenesis for Tissue Regeneration	305
	Paolo Madeddu	
17	Cell Transplantation: <i>The New Frontier</i>	325
	Shafie Fazel, Paul W. M. Fedak, Richard D. Weisel, Denis Angoulvant, Terrence M. Yau, and Ren-Ke Li	
18	Embryonic Stem Cells and the Cardiovascular System	345
	Neta Lavon and Nissim Benvenisty	
Index		355

Cardiovascular Genomics

Raizada, M.K.; Paton, J.F.R.; Katovich, M.J.; Kasparov, S.
(Eds.)

2005, XIV, 362 p., Hardcover

ISBN: 978-1-58829-400-5

A product of Humana Press