Contents

List of Illustrations List of Contributors Foreword		ix xi xiv
	Preface Acknowledgments	
Part	1 An Overview of the Biosocial Approach	1
1	Introduction to Biosocial Criminology Anthony Walsh and Kevin M. Beaver	7
2	Criminal Behavior from Heritability to Epigenetics: How Genetics Clarifies the Role of the Environment Anthony Walsh	29
3	Molecular Genetics and Crime Kevin M. Beaver	50
4	The Ghost in the Machine and Criminal Behavior: Criminology for the 21st Century John Paul Wright, Danielle Boisvert, Kim Dietrich, and M. Douglas Ris	73
5	Evolutionary Psychology and Crime Satoshi Kanazawa	90
Part	II Major Correlates of Crime	111
6	Gender and Crime: An Evolutionary Perspective Anne Campbell	11 <i>7</i>
7	Inconvenient Truths: Science, Race, and Crime John Paul Wright	137

viii Contents

8	Crazy by Design: A Biosocial Approach to the Age–Crime Curve Anthony Walsh	154
9	Substance Abuse and Crime: Biosocial Foundations Michael G. Vaughn	176
10	Testosterone and Violence among Young Men Allan Mazur	190
Part	III Serious Violent Criminals and Biosocial Approaches to Crime Prevention	205
11	Neuroscience and the Holy Grail: Genetics and Career Criminality Matt DeLisi	209
12	Psychopathy Richard P. Wiebe	225
13	No Longer Taboo: Crime Prevention Implications of Biosocial Criminology Matthew Robinson	243
Glossary/Index		265

List of Illustrations

Figures

1.1	Biosocial Approach to Behavior in a Nutshell	25
2.1	Illustrating Passive, Evocative, and Active rGE and	
	G × E Interaction	38
2.2	Environment/Individual Interaction and Criminal	
	Behavior Threshold	38
3.1	Structure of DNA	52
3.2	Central Dogma of Biology	54
4.1	Brain Development over Time	75
5.1	Basic Theoretical Structure of Evolutionary Psychology	90
5.2	Benefits and Costs of Competition and the Age-Crime	
	Curve	99
6.1	Percentage of Crimes Committed by Females in the	
	United States, 1964–2004 (Average of 5-year Intervals)	118
7.1	Temporal and Geographical Distribution of Hominid	
	Populations	139
8.1	Illustrating the Age-Crime Curve in Different Countries	155
8.2	Testosterone Levels of Human Males and Females from	
	Conception to Old Age	158
8.3	Three Pathways to Boys' Disruptive Behavior and	
	Delinquency	166
8.4	Moffitt's Dual Developmental Pathways	170
9.1	Number of Arrests, by Type of Drug Law Violation,	
	1982–2005	176
9.2	Cross-section of the Brain Revealing the Ancient	
	Reward Pathway	182
10.1	Reciprocity of Testosterone and Dominance Behavior,	
	in Theory	198
10.2	Mean Testosterone of Army Veterans, by Education,	
	Age, and Race	202
	=	

11.1	The Self-control Theory Endophenotype	216
11.2	Conceptual Model for the Career Criminality	
	Phenotype	220
12.1	David Lykken's Diathesis-developmental Model	
	Illustrating the Role of Biological Propensity and Parental	
	Competency on Different Types of Offender and on	
	Non-offenders	237
13.1	Levels of Analysis in Integrated Systems Theory	246
13.2	A Developmental Timeline of Risk Factors in Integrated	
	Systems Theory	248
Table	es	
3.1	Genetic Polymorphisms Associated with Antisocial	
	Phenotypes	64
6.1	Summary of Evolutionary Accounts of Sex Differences	
	in Crime	122
12.1	Factor Structure of the Psychopathy Checklist, Revised	
	(PCL-R)	228
Boxe	es ·	
10.		
13.1	Crime Prevention Implications of Integrated Systems	252
	Theory	250