

Contents

1	The Utility of Genomics for Studying Primate Biology . . .	1
	Sarah Williams-Blangero and John Blangero	
2	The Human Genome Project: Where Are We Now and Where Are We Going?	7
	Satish Kumar, Christopher Kingsley, and Johanna K. DiStefano	
3	Linkage Mapping: Localizing the Genes That Shape Human Variation	33
	Laura Almasy, Mark Zlojutro Kos, and John Blangero	
4	Association Studies to Map Genes for Disease-Related Traits in Humans	53
	Robert L. Hanson and Alka Malhotra	
5	Gene Expression Studies and Complex Diseases	67
	Harald H.H. Göring	
6	Copy Number Variations and Chronic Diseases	85
	August N. Blackburn and Donna M. Lehman	
7	Applications of Genomic Methods to Studies of Wild Primate Populations	103
	Mary A. Kelaita	
8	Comparative Genomics: Tools for Study of Complex Diseases	113
	Laura A. Cox	
9	Genetic Structure and Its Implications for Genetic Epidemiology: Aleutian Island Populations.	129
	Michael H. Crawford	

10 Mapping Genes in Isolated Populations: Lessons from the Old Order Amish	141
Braxton D. Mitchell, Alejandro A. Schäffer, Toni I. Pollin, Elizabeth A. Streeten, Richard B. Horenstein, Nanette I. Steinle, Laura Yerges-Armstrong, Alan R. Shuldiner, and Jeffrey R. O'Connell	
11 Genetics of Cardiovascular Disease in Minority Populations	155
Jean W. MacCluer, John Blangero, Anthony G. Comuzzie, Sven O.E. Ebbesson, Barbara V. Howard, and Shelley A. Cole	
12 Mapping of Susceptibility Genes for Obesity, Type 2 Diabetes, and the Metabolic Syndrome in Human Populations	181
Rector Arya, Sobha Puppala, Vidya S. Farook, Geetha Chittoor, Christopher P. Jenkinson, John Blangero, Daniel E. Hale, Ravindranath Duggirala, and Laura Almasy	
13 Genetic Influence on the Human Brain	247
D. Reese McKay, Anderson M. Winkler, Peter Kochunov, Emma E.M. Knowles, Emma Sprooten, Peter T. Fox, John Blangero, and David C. Glahn	
14 Variation, Genetics, and Evolution of the Primate Craniofacial Complex	259
Richard J. Sherwood and Dana L. Duren	
15 Genetic Influences on Behavior in Nonhuman Primates . . .	277
Julia N. Bailey, Christopher Patterson, and Lynn A. Fairbanks	
16 Genomic Studies of Human Populations: Resequencing Approaches to the Identification of Human Quantitative Loci	289
Joanne E. Curran, Claire Bellis, Laura Almasy, and John Blangero	
Index	301