

CONTENTS

Contributors

vii

1. A Kernel of Truth: Statistical Advances in Polygenic Variance Component Models for Complex Human Pedigrees	1
John Blangero, Vincent P. Diego, Thomas D. Dyer, Marcio Almeida, Juan Peralta, Jack W. Kent Jr., Jeff T. Williams, Laura Almasy, and Harald H.H. Göring	
1. Introduction	2
2. VCs Models	4
3. Expected Likelihood Ratio Test Statistics	8
4. Power and Asymptotic Relative Efficiency	12
5. Utility of Eigensimplification for the Polygenic Model	15
6. Analysis of Empirical GRKs	23
7. Discussion	26
Acknowledgments	27
References	27
2. Fungal Cell Wall Organization and Biosynthesis	33
Stephen J. Free	
1. Introduction and Overview: General Organization of the Fungal Cell Wall	34
2. Methods Used in Studying the Cell Wall	36
3. The Specific Components Found in Fungal Cell Walls	39
4. Well-Characterized Fungal Cell Walls	66
5. Conclusions: Variability in Cell Wall Components and Redundancy in Cell Wall Biosynthesis	69
Acknowledgments	71
References	71
3. Polycomb Group Response Elements in <i>Drosophila</i> and Vertebrates	83
Judith A. Kassis and J. Lesley Brown	
1. Introduction	84
2. PREs in <i>Drosophila</i>	86
3. Characteristics of PcG Target Genes in <i>Drosophila</i>	104
4. PREs in Vertebrates	107

5. Outlook	109
Acknowledgments	110
References	111
<i>Index</i>	<i>119</i>