

## CONTENTS

<i>List of Figures</i>	<i>page ix</i>
<i>List of Tables</i>	x
<i>List of Contributors</i>	xi
<i>List of Abbreviations</i>	xiii
<b>Introduction</b>	<b>1</b>
<i>Susan Bouregy, Elena L. Grigorenko, Mei Tan, and Stephen R. Latham</i>	
1 What Is Heritability and Why Does It Matter? <i>Mei Tan</i>	15
2 Molecular Genetics and Genomics <i>Sergey A. Kornilov</i>	45
3 Can (and Should) We Personalize Education Along Genetic Lines? Lessons from Behavioral Genetics <i>Kathryn Asbury, Kaili Rimfeld, and Eva Krapohl</i>	63
4 Early Adversity and Epigenetics: Implications for Early Care and Educational Policy <i>Katherine Beckmann and Kieran O'Donnell</i>	86
5 Intelligence: The Ongoing Quest for Its Etiology <i>Elena L. Grigorenko and Samuel D. Mandelman</i>	107
6 A Behavioral Genetic Perspective on Non-Cognitive Factors and Academic Achievement <i>Elliot M. Tucker-Drob and K. Paige Harden</i>	134

viii

*Contents*

7	Precision Education Initiative: The Possibility of Personalized Education <i>Callie W. Little, Connie Barroso, and Sara A. Hart</i>	159
8	Using Genetic Etiology to Intervene with Students with Intellectual Disabilities <i>Robert M. Hodapp and Marisa H. Fisher</i>	183
9	Ethical Implications of Behavioral Genetics on Education <i>Victoria J. Schenker and Stephen A. Petrill</i>	202
10	Genomic Literacy and the Communication of Genetic and Genomic Information <i>Kimberly A. Kaphingst</i>	221
11	Legal Issues Associated with the Introduction of Genetic Testing to the Education System <i>David Peloquin and Mark Barnes</i>	243
12	Ethical Risks and Remedies in Social-Behavioral Research Involving Genetic Testing <i>Celia B. Fisher</i>	263
13	Development of the Personal Genomics Industry <i>Jorge L. Contreras and Vikrant G. Deshmukh</i>	284
14	Ethical Issues in Using Genomics to Influence Educational Practice <i>Susan Bouregy and Krista Bouregy</i>	309
15	Teaching and Genetic/Genomic Variation: An Educator's Perspective <i>Judi Randi</i>	325
16	Will the Next Einstein Get Left in the Petri Dish? Be Careful What You Wish for in the Designer Baby Era <i>Carolyn D. Cowen</i>	352
	Conclusion: How Might School Systems Use Genetic Data? <i>Stephen R. Latham</i>	383
	<i>Index</i>	395