

Contents

1	What Can and Should Be the Role of Intervention Studies in GEX Research?	1
	Patrick H. Tolan and Bennett L. Leventhal	
Part I Gene-Environment Transaction Framework		
2	Genetics, Behavioral Intervention, and Human Development	9
	David Reiss	
3	Gene–Environment Interaction in the Behavioral Sciences: Findings, Challenges, and Prospects	35
	Matt McGue and Bridget E. Carey	
4	Epigenetics and the Biology of Gene × Environment Interactions	59
	Michael J. Meaney	
5	Using Genetically Informed Designs to Understand the Environment: The Importance of Family-Based Approaches	95
	Chang Liu and Jenae M. Neiderhiser	
6	Gene–Environment Correlation as a Source of Stability and Diversity in Development	111
	Christopher R. Beam and Eric Turkheimer	
7	Sampling in the Examination of Gene-Environmental Interactions Within a Neurodevelopmental Disorder Framework	131
	Young Shin Kim	
Part II Application to Developmental Psychopathology		
8	Do Gene-by-Environment Interactions Offer Potential Intervention Strategies in Anxiety Disorders?	147
	Neal Ryan	

9	Challenge and Potential for Research on Gene-Environment Interactions in Autism Spectrum Disorder.....	157
	Carly L.A. Wender and Jeremy Veenstra-VanderWeele	
10	How Can GxE Research Help Prevent the Development of Chronic Physical Aggression?.....	177
	Richard E. Tremblay, Linda Booij, Nadine Provençal, and Moshe Szyf	
 Part III Intervention Research: Implications for Gene Environment Transaction Framework		
11	Using Genetically Informed Prevention Trials to Test Gene × Environment Hypotheses	211
	Gene H. Brody	
12	Developmental Mechanisms in Gene-by-Intervention (GxI) Effects in the Fast Track Trial.....	235
	Kenneth A. Dodge	
13	Applying Behavioral Genetics Research to Inform the Prevention of Developmental Psychopathology: Drawing from the Principles of Prevention Science	251
	Leslie D. Leve	
14	Challenges for Intervention Research Within the GEX Framework	283
	Patrick H. Tolan and Bennett L. Leventhal	
	Index.....	295

Gene-Environment Transactions in Developmental
Psychopathology

The Role in Intervention Research

Tolan, P.H.; Leventhal, B.L. (Eds.)

2017, VIII, 301 p. 27 illus., 16 illus. in color., Hardcover

ISBN: 978-3-319-49225-4