

# Contents

## Part I Constructing “Developmentally-Friendly” Conceptualizations of Coping

<b>1</b>	<b>Coping as Action Regulation under Stress. . . . .</b>	<b>3</b>
1.1	Coping as a Fundamental Adaptive Process. . . . .	4
1.1.1	Overview of Conceptualizations of Coping and a Focus on Individual Differences . . . . .	5
1.1.2	Multi-level Integrative Systems Frameworks: Coping, Regulation, and Resilience . . . . .	8
1.2	Developmentally-Friendly Conceptualizations of Coping. . . . .	12
1.2.1	Coping as Regulation under Stress . . . . .	12
1.2.2	Coping and Emotion Regulation . . . . .	14
1.2.3	Action and Action Theories. . . . .	15
1.2.4	The Nature of Regulation . . . . .	17
1.2.5	Coping Is Built on Action Tendencies . . . . .	19
1.2.6	Stress and Regulation . . . . .	21
1.3	Summary of Developmental Conceptualizations of Coping . . . .	24
<b>2</b>	<b>Ways and Families of Coping as Adaptive Processes . . . . .</b>	<b>27</b>
2.1	The Structure of Coping . . . . .	28
2.1.1	Lower-Order Ways of Coping . . . . .	30
2.1.2	Higher-Order Dimensions and Categories of Coping . . . . .	31
2.1.3	Families of Coping as Serving Adaptive Functions. . . .	34
2.2	“Good News” and “Bad News” Ways of Coping. . . . .	41
2.2.1	Developmentally Adaptive Families of Coping . . . . .	42
2.2.2	The Balance Between Challenge and Threat . . . . .	44
2.2.3	Good News Families of Coping. . . . .	46
2.3	Summary of Ways and Families of Coping . . . . .	48

## **Part II Review of Research on the Development of Stress Reactivity and Ways of Coping**

<b>3</b>	<b>Age Differences and Changes in Ways of Coping across Childhood and Adolescence . . . . .</b>	<b>53</b>
3.1	Looking for Qualitative Shifts in Coping across Childhood and Adolescence . . . . .	54
3.2	Age Differences and Changes in Each of the Coping Families . . . . .	56
3.3	Beyond Quantitative Changes in Mean Levels of Individual Ways of Coping . . . . .	60
3.4	Summary of Age Differences and Changes in Ways of Coping . . . . .	62
<b>4</b>	<b>Neurophysiological Developments that underlie Age-related Changes in Coping. . . . .</b>	<b>63</b>
4.1	Neuroanatomical Systems involved in Stress Reactivity, Regulation, and Coping . . . . .	63
4.1.1	Neurophysiology of Stressful Encounters . . . . .	64
4.1.2	Stress Reactivity and Regulation as Complex Dynamic Systems. . . . .	72
4.2	The Assessment of Neurophysiological Structure and Function . . . . .	74
4.3	The Development of the Multi-level Neurophysiological Systems that Underlie Coping . . . . .	77
4.3.1	Development of the Neurophysiology of Stress Reactivity, Threat Detection, and Coping . . . . .	79
4.3.2	Development of the Neurophysiology of Regulation and Coping . . . . .	86
4.4	Summary of the Development of the Neurophysiological Systems Underlying Coping . . . . .	91

## **Part III Normative Development of Adaptive Coping within the Context of Relationships with Caregivers**

<b>5</b>	<b>Development of "Coping" in Newborns: Neurophysiological Stress Reactivity and "External Coping" via the Caregiver . . . . .</b>	<b>103</b>
5.1	Threat Detection and Stress Reactivity: Development of Neurophysiological Subsystems . . . . .	104
5.2	Attachment, the Development of "External" Coping, and the Omnibus Coping Strategy of "Proximity Seeking" . . . .	107
5.3	Development of a Neurophysiological System that Responds to "External Coping" by the Caregiver. . . . .	108



5.4	Social Tuning of the Neurophysiological Stress Reactivity and Recovery System . . . . .	110
5.5	The Emergence of a Hierarchy of Reactivity, Regulatory, and Coping Processes . . . . .	112
5.6	Summary of Transformations of the Coping System during the Neonatal Period . . . . .	113
<b>6</b>	<b>Development of Coping during Infancy: Implicit Appraisals, Intentional Action Regulation, and Co-regulated Coping Systems . . . . .</b>	<b>115</b>
6.1	Threat Detection and Stress Reactivity: Emergence of Appraisal Systems that Increasingly Guide Action Readiness . . . . .	116
6.2	Action Regulation: Development of Intentionality and Goal-Directed Coping . . . . .	119
6.3	Changing Role of Social Partners: Development of a Co-regulatory Coping System . . . . .	122
6.4	Development of Stress Resistance and Stress Resilience . . . . .	124
6.5	Summary of Transformations of the Coping System during Infancy . . . . .	128
<b>7</b>	<b>Development of Coping during Toddlerhood: Explicit Appraisals, Emotional Action Regulation, and Cooperative Coping Systems . . . . .</b>	<b>129</b>
7.1	Threat Detection and Stress Reactivity: Explicit Appraisals of Threat and Challenge . . . . .	130
7.2	Action Regulation: From Emotional Action Regulation to Self-awareness in Coping . . . . .	133
7.3	Changing Role of Social Partners: Emotion Socialization and Coping "Coaching" . . . . .	136
7.4	Shared Intentionality and the Emergence of a Cooperative Coping System . . . . .	138
7.5	Reorganization of the Coping System during Toddlerhood . . . . .	139
7.6	Summary of Transformations of the Coping System during Toddlerhood . . . . .	141
<b>8</b>	<b>Development of Coping during Early Childhood: Inferential Appraisals, Voluntary Action Regulation, and Individual Coping Systems . . . . .</b>	<b>143</b>
8.1	Threat Detection and Appraisal: Incorporating Emotion Understanding and Theory of Mind . . . . .	144
8.2	Regulatory Subsystems: Development of Attention Networks and Coping . . . . .	147
8.3	Emergence of Voluntary Self-regulation and Coping . . . . .	151

8.4	Integration of Appraisal and Regulation: Development of Understanding and Control . . . . .	154
8.5	Development of Voluntary Action Regulation and the Emergence of Intrapersonal Coping. . . . .	155
8.6	Development of Conscience and the Emergence of Autonomous Coping. . . . .	156
8.7	Changing Role of Social Partners: Development of Intrapersonal Coping . . . . .	158
8.8	Summary of Transformations of the Coping System during Early Childhood . . . . .	160
<b>9</b>	<b>Development of Coping during Middle Childhood: Cognitive Reappraisal, Mental Modes of Coping, and Coordination with Demands . . . . .</b>	<b>163</b>
9.1	Threat Detection and Appraisal: Emotional Understanding and Intentional Regulation of Stressful Experiences . . . . .	164
9.2	Reappraisal as an Emotion Regulation and Coping Strategy . . .	168
9.3	Development of Problem-Focused Coping and Executive Functions . . . . .	171
9.4	Action Regulation and the Emergence of Mental Means of Coping . . . . .	176
9.5	Expanding Repertoire of Coping Strategies and Better Coordination with Demands . . . . .	179
9.6	"Mental" Participation of Social Partners and Coping Coaching . . . . .	181
9.7	Summary of Transformations of the Coping System during Middle Childhood . . . . .	182
<b>10</b>	<b>Development of Coping during Adolescence: Heightened Reactivity, Pro-active Regulation, and Increased Coping Flexibility . . . . .</b>	<b>185</b>
10.1	Enhanced Threat Detection and Stress Reactivity: Recalibrating Neurophysiological Systems. . . . .	187
10.2	Development of Appraisals: Affective Theory of Mind and a Two-Level Emotion Theory . . . . .	189
10.3	Development of Regulatory Capacity: Changing Balance among Multiple Subsystems . . . . .	192
10.4	Emergence and Integration of Meta-capacities in Coping . . . . .	200
10.5	Changing Role of Social Partners as Proactive Monitoring and Dependable Backup Systems . . . . .	203
10.6	Summary of Transformations of the Coping System during Adolescence . . . . .	205



## **Part IV Foundations of Coping and Its Differential Development**

<b>11 Early Adversity, Temperament, Attachment, and the Differential Development of Coping . . . . .</b>	<b>215</b>
11.1 Early Adversity and the Differential Development of Coping . . . . .	216
11.1.1 Possible Mechanisms through which Adversity Shapes Stress Reactivity . . . . .	218
11.1.2 Developmentally-Graded Effects of Adversity on Coping. . . . .	222
11.1.3 Intervention Implications of Neuroplasticity and Experience-Dependent Effects . . . . .	225
11.2 Temperament and the Differential Development of Coping . . . .	226
11.2.1 Differential Patterns of Temperamental Dimensions . . .	227
11.2.2 Balance and Regulation of the Defensive and Appetitive Systems. . . . .	231
11.3 Attachment Relationships and the Differential Development of Coping . . . . .	232
11.3.1 Caregiving and the Development of Coping . . . . .	232
11.3.2 Qualities of Attachment and the Differential Development of Coping . . . . .	234
<b>12 Parenting, Family Stress, Developmental Cascades, and the Differential Development of Coping . . . . .</b>	<b>239</b>
12.1 Parent-Child Relationships and the Differential Development of Coping . . . . .	239
12.1.1 Dimensions of Parenting and Children's Coping . . . .	242
12.1.2 A Systems View on Parenting and Children's Coping . . . . .	244
12.1.3 Goals of Parenting and the Differential Development of Coping . . . . .	249
12.2 The Stress of Caregiving: Stressful Family Systems and the Differential Development of Coping . . . . .	250
12.2.1 Stressful Family Systems . . . . .	253
12.3 Cascades in the Differential Development of Coping . . . . .	255
12.3.1 Maladaptive Coping as a Marker of Developmental Difficulties. . . . .	257
12.3.2 Internal Dynamics Can Amplify Maladaptive Patterns of Coping . . . . .	258
12.3.3 Maladaptive Coping as an Active "Trouble Maker" in Developmental Cascades . . . . .	260
12.3.4 Self-righting Tendencies in Developmental Cascades. . . . .	260

<b>13 Conclusion: Goals and Strategies for Studying the Development of Coping</b> . . . . .	263
13.1 Surfacing and Consolidating Key Themes in the Development of Coping. . . . .	264
13.1.1 Qualitative Shifts in the Development of the Coping System. . . . .	265
13.1.2 Multiple Pathways in the Development of Coping . . . .	268
13.2 Future Study of the Development of Coping . . . . .	271
13.3 Three Closing Ideas about Lines of Sight into the Development of Coping. . . . .	273
13.3.1 The Dangers and Safeguards in Developing a System of Coping . . . . .	274
13.3.2 The Origami of Coping's Development. . . . .	278
13.3.3 The Place and Purpose of the Study of Coping . . . . .	282
13.4 Conclusion . . . . .	285
<b>References</b> . . . . .	287
<b>Index</b> . . . . .	329