

# HUMAN DEVELOPMENT

## *An Interactional Perspective*



Edited by

DAVID MAGNUSSON

*Department of Psychology  
University of Stockholm  
Stockholm, Sweden*

VERNON L. ALLEN

*Department of Psychology  
University of Wisconsin—Madison  
Madison, Wisconsin*

Technische Hochschule Darmstadt  
Fachbereich 3  
Institut für Psychologie  
Steubenplatz 12, 6100 Darmstadt

Inv.-Nr. 9107772

1983



ACADEMIC PRESS

*A Subsidiary of Harcourt Brace Jovanovich, Publishers*

New York London

Paris San Diego San Francisco São Paulo Sidney Tokyo Toronto

# Contents

<i>Contributors</i>	<i>xiii</i>
<i>Preface</i>	<i>xvii</i>

## *I* *INTRODUCTION*

### *1* *An Interactional Perspective for Human Development 3*

DAVID MAGNUSSON and VERNON L. ALLEN

Contemporaneous and Developmental Perspectives	3
A Mechanistic versus a Dynamic Model of Man	6
An Interactional Position	7
The Environment	9
The Person	18
The Developing Person in the Environment	22
Summary and Conclusions	26
References	27

## II THE ENVIRONMENT: ITS ROLE IN HUMAN DEVELOPMENT

### 2

#### *Patterns of Infant-Mother Attachment as Related to Maternal Care: Their Early History and Their Contribution to Continuity* 35

MARY D. SALTER AINSWORTH

Description of the Ainsworth Longitudinal Project	35
Patterns of Attachment as Assessed in the Strange Situation	36
Attachment, Stability, and Continuity	44
Direction of Effects in Mother-Infant Interaction	46
Attachment Research and the Person-Environment Interaction Perspective	50
References	53

### 3

#### *Conceptions of Environment in Childrearing Interactions* 57

MARIAN RADKE-YARROW and LEON KUCZYNSKI

A History of Orientations	58
Concepts of Interaction	60
Concepts and Contents of Rearing Environments	62
Rearing Studies of Normal and Depressed Mothers	66
Conclusions and Prospects	71
References	74

### 4

#### *The "Person" Characteristics of Children and the Family as Environment* 75

ELEANOR E. MACCOBY and CAROL NAGY JACKLIN

Interactions of Child and Parent Characteristics	76
The "Effective" Environment of Parent and Child	79
Mutual Influence: The Changing Interpersonal Environment	82
Longer-Term Interactions	85
Conclusions	89
References	90

### 5

#### *The Person-Environment Relationship: Lessons from Families with Preterm Infants* 93

BARBARA R. TINSLEY and ROSS D. PARKE

The Impact of Children on Families: Some Recent Research Trends	93
The Impact of the Premature Infant on the Caregiver-Infant Relationship	95

Beyond the Mother–Infant Dyad: The Father–Infant Dyad and the Family Triad as Contexts for Development of the Preterm Infant	97
Community Support Systems and Preterm Infants	100
Conclusion	106
References	106

## 6

*Physical and Social Environment as Factors in Development* 111

JOACHIM F. WOHLWILL

From the Social to the Physical Environment—and Back	111
Physical and Social Environment Compared	114
Developmentally Relevant Forms of the Environment–Behavior Relationship	117
Developmental Changes in the Role of Environmental Modes	120
Evidence Concerning the Environment–Development Interaction	123
Conclusion	125
References	127

## III

THE PERSON: COGNITIVE PROCESSES

## 7

*The Development of Personal Theories of Reality from  
an Interactional Perspective* 133

SEYMOUR EPSTEIN and NANCY ERSKINE

The Nature of Personal Theories of Reality	133
The Progress of Scientific and Personal Theories	137
Precursors to a Theory of Reality	140
Development of a Personal Theory of Reality during Adolescence	144
Development of a Personal Theory of Reality during Adulthood	145
References	146

## 8

*Delay of Gratification as Process and as Person Variable  
in Development* 149

WALTER MISCHEL

Combining Experimental and Correlational Strategies	149
Processes Underlying Effective Delay: Situational and Cognitive Determinants	152
Delay Ability as a Person Variable	157
Long-Term Correlates of Early Waiting Behavior	159
Conclusions	163
References	164

## 9

*Concern with One's Competence: Developmental Shifts in  
Person-Environment Interaction 167*

HEINZ HECKHAUSEN

The Developing Self as an Agent of Change in Coping with Interactions	168
A Developmental Step Reversing the Implications of Being Praised or Blamed	173
A Midlife Trap for Achievement-Motivated Executives at the Top Level	177
Conclusions	182
References	183

## 10

*Person-Situation Interactions in Human Development:  
Cognitive Factors and Coping Strategies 187*

IRWIN G. SARASON and BARBARA R. SARASON

Person-Situation Interactions	187
Interactions and Continuity versus Change	188
Intervention and Person-Situation Interaction Systems	189
Summary and Conclusions	195
References	197

## IV

*THE PERSON: BIOLOGICAL PROCESSES*

## 11

*The Role of Genes as Determinants of Behavior 201*

MARIANNE RASMUSON

Genes and Development	201
Sex Determination	203
Single Genes Can Affect Behavior	204
Multifactorial Background and Threshold Traits	205
Quantitative Traits	206
Gene-Environment Interaction	209
An Evolutionary Perspective	210
Conclusions	211
References	212

## 12

*Endocrinology and Behavior 213*

PETER ENEROTH

Receptors	214
Cyclicity	216
Conclusions	218
References	219

## 13

*The Inheritance of Human Deviance* 221

SARNOFF A. MEDNICK, TERRIE E. MOFFITT, VICKI POLLOCK, SHARON TALOVIC,  
WILLIAM F. GABRIELLI, JR., and KATHERINE T. VAN DUSEN

Genetics in the Etiology of Schizophrenia	222
Genetics in the Etiology of Alcoholism	225
Genetics in the Etiology of Criminal Behavior	229
What Is Inherited in Deviance?	237
Conclusion	239
References	240

## 14

*Biological and Psychosocial Risk Factors and Development during Childhood* 243

BERNHARD MEYER-PROBST, HANS-DIETER RÖSLER, and HELFRIED TEICHMANN

The Rostock Longitudinal Study on Two-Year-Olds	244
The Rostock Longitudinal Study on Six-Year-Olds	252
References	258

## 15

*From Emotional State to Emotional Expression: Emotional Development from the Perspective of Person–Environment Interaction* 261

MICHAEL LEWIS and LINDA MICHALSON

The Noninteractive, Biological Approach to Emotional Development	264
An Interactive, Socialization Model of Emotional Development	265
Socialization Rules	268
Implications for Personality Development and Psychopathology	272
References	274

## V

*SOCIAL ADAPTATION: THE PERSON IN THE ENVIRONMENT*

## 16

*A “Goodness of Fit” Model of Person–Context Interaction* 279

RICHARD M. LERNER

The “Goodness of Fit” Model	280
Empirical Support for the Goodness of Fit Model	282
Enhancing Goodness of Fit	290
References	292

17

*Statistical and Personal Interactions: Facets and Perspectives* 295

MICHAEL RUTTER

Additive Co-action	296
Synergistic Interaction	297
Buffering Effects	300
Ordinal and Disordinal Interactions	301
Transactional Effects	305
Ecological Considerations	307
Personal Interactions as Descriptors of the Environment	309
Interactions as Selectors of Environments	310
Interactions in Terms of Opportunities	313
Conclusions	314
References	315

18

*The Stability of Change:  
Psychosocial Development from Adolescence to Young Adulthood* 321

RICHARD JESSOR

A Prospective Study of Problem Behavior and Psychosocial Development	322
Psychosocial Change from Adolescence to Young Adulthood	324
The Temporal Stability of Changing Psychosocial Attributes	330
The Prediction of Differential Psychosocial Change	333
Predicting the Timing of Transition Behavior	338
Conclusions	340
References	341

19

*Childhood Environment and Maturity of Defense Mechanisms* 343

GEORGE E. VAILLANT

Ego Mechanisms of Defense: A Definition	344
Empirical Validation	346
The Failure of Childhood Environment to Predict Adult Mechanisms of Defense	350
Premorbid Predictors of Maturity of Defenses	350
Conclusion	352
References	352

20

*Low School Achievement and Aggressive Behavior in  
Adolescent Boys* 353

DAN OLWEUS

Basic Variables	354
Possible Hypotheses	354

Methods	356
Results	357
Discussion	362
References	365

## VI USES OF INTERACTIONAL PERSPECTIVE: CONCEPTUAL AND METHODOLOGICAL ISSUES

### 21

#### *Implications and Applications of an Interactional Perspective for Human Development* 369

DAVID MAGNUSSON and VERNON L. ALLEN

General Implications	370
Units of Analysis	371
Person versus Variable Approaches to Developmental Research	372
Prediction of Behavior versus Lawfulness of Processes	374
Stability Coefficients as Indicators of Temporal Consistency	375
Limitations of Cross-Sectional Research	378
A Plea for Longitudinal Research	378
Data Collection and Treatment	379
Analysis of Environments	381
An Interactional Model of Maladaptation, Stress, and Behavioral Disorders	382
A Final Comment	385
References	386

<i>Subject Index</i>	389
----------------------	-----