Contents

| Section i. Theoretical and Developmental Framework | |
|--|--|
| Chapter 1 | |
| INTRODUCTION | 3 |
| Eric Schopler, Nurit Yirmiya, Cory Shulman, and Lee M. Marcus | |
| Chapter 2 | |
| TREATMENT FOR AUTISM: FROM SCIENCE TO PSEUDO-SCIENCE OR ANTI-SCIENCE | 9 |
| Eric Schopler | |
| Historical Background Perpetuation of the Research–Clinic Gap Bridging the Gap between Research and Service Autism as Spectrum Disorder Intervention Spectrum Bridging the Controlled Research to Service Gap Medical Model Habilitation Approach The Autism Culture | 10 11 12 13 14 14 15 17 |
| Implications for Intervention by Social Policy | 21 23 |
| NCICICES | ۷. |

xvi CONTENTS

| Chapter 3 | |
|---|--|
| APPLYING DEVELOPMENTAL PRINCIPLES TO THE STUDY OF AUTISM | 25 |
| Jacob A. Burack, Luigi Pastò, Mafalda Porporino, Grace Iarocci, Laurent Mottron and Dermot Bowler | |
| Developmental Principles in the Study of Persons with Autism | 26 32 37 38 |
| Chapter 4 | |
| THE OTHERWORLDLY GIFTS OF AUTISM: MYSTICAL IMPLEMENTATION OF FACILITATED COMMUNICATION IN THE ULTRA-ORTHODOX COMMUNITY IN ISRAEL | 43 |
| Yoram Bilu and Yehuda Goodman | |
| The Cultural Construction of Autism The Controversy Over Facilitated Communication The Implementation of FC in the Haredi Community in Israel The Religious Rationale of FC in the Haredi Context "What Does the Soul Say" in FC Sessions? Clinical Implications of Metaphysical FC Between Clinical and Metaphysical FC References | 43 44 45 46 47 51 52 54 |
| Section II: Biological Perspectives | |
| Chapter 5 | |
| COMPARISON OF SIBLINGS OF INDIVIDUALS WITH AUTISM AND SIBLINGS OF INDIVIDUALS WITH OTHER DIAGNOSES: AN EMPIRICAL SUMMARY | 59 |
| Nurit Yirmiya, Michal Shaked, and Osnat Erel | |
| Method | 61 64 |

| CONTENTS | xvii |
|--|--|
| Implications for Interventions | 70 71 |
| Chapter 6 | |
| FRAGILE X SYNDROME AND AUTISM | 75 |
| Deborah D. Hatton and Donald B. Bailey, Jr. | |
| Fragile X Syndrome Fragile X Syndrome and Autism: Review of the Literature Studies by the Carolina Fragile X Project Implications for Intervention Summary and Future Directions References | 76 77 79 85 86 87 |
| Chapter 7 | |
| ANALYSIS OF THREE CODING REGION POLYMORPHISMS IN AUTISM: EVIDENCE FOR AN ASSOCIATION WITH THE SEROTONIN TRANSPORTER | 91 |
| Nurit Yirmiya, Tammy Pilowsky, Lubov Nemanov, Shoshana Arbelle, Temira Feinsilver, Iris Fried, and Richard P. Ebstein | |
| The Organic Basis of Autism Genetics and Behavior Genetics of Autism Participants Genotyping Statistical Methods Results and Discussion Clinical Implications References | 91 92 94 95 95 95 97 98 |
| Chapter 8 | |
| AUTISM, STRESS, AND CHROMOSOME 7 GENES | 103 |
| Michael Shapira, David Glick, John R. Gilbert, and Hermona Soreq | |
| Autism as a Complex Trait, Candidate Loci, and Genes | 104 106 |

| xviii | CONTENTS |
|-------|----------|
| | |

| Chromosome 7 and Autism | 108 110 111 |
|---|---|
| Section III: Communication and Social Issues | |
| Chapter 9 | |
| COMMUNICATIVE INTENT IN AUTISM | 117 |
| Cory Shulman, Odette Bukai, and Sigal Tidhar | |
| Communicative Intent: Definition Communicative Intent: Determining Intentionality Elements of Communicative Intent Development of Communicative Intent in Typically Developing Children Communicative Intent and Autism Purpose of the Current Study: Importance of Systematic Procedures Participants Quantitative Aspects of Communicative Intent Qualitative Aspects of Communicative Intent Summary Possible Subtyping According to Communicative Intent Implications for Intervention References | 118 119 120 121 122 124 125 126 127 128 129 130 131 |
| Chapter 10 | |
| ISSUES IN EARLY COMPREHENSION DEVELOPMENT OF CHILDREN WITH AUTISM Linda R. Watson | 135 |
| Speech Perception in Infants Speech Perception in Autism Constructing Meaning in Social Interactions Early Strategies for the Social Construction of Meaning Deficits in Early Social Construction of Meaning by Children with Autism Later Strategies for Constructing Meaning in Social Interactions Cascading Deficits in Construction of Meaning by Children with Autism Symbol Formation and Autism Implications for Intervention Summary References | 136 137 138 139 140 143 144 145 146 147 |

| CONTENTS | xix |
|----------|-----|
| ONTENTO | Al. |

| | 71.71 |
|---|--|
| Chapter 11 | |
| THE EXPERIENCE OF LONELINESS AND FRIENDSHIP IN AUTISM: THEORETICAL AND PRACTICAL ISSUES | 151 |
| Nirit Bauminger and Connie Kasari | |
| Loneliness in Typical Development: Conceptual Basis | 152 152 154 163 164 |
| Section IV: Education and Intervention | |
| Chapter 12 | |
| ISSUES IN EARLY DIAGNOSIS AND INTERVENTION WITH YOUNG CHILDREN WITH AUTISM | 171 |
| Lee M. Marcus, Ann Garfinkle, and Mark Wolery | |
| Factors in Early Diagnosis Intervention Strategies Based on Learning Characteristics Basic Components of a Preschool Program Brief Review of Program Models Examples of Specific Intervention Strategies The Center-Based Early Intervention Demonstration Project for Children with Autism Implications for Future Intervention Research and Practice References | 172 174 176 178 179 181 182 183 |
| Chapter 13 | |
| EVALUATING TREATMENT EFFECTS FOR ADOLESCENTS AND ADULTS WITH AUTISM IN RESIDENTIAL SETTINGS | 187 |
| Mary E. Van Bourgondien and Nancy C. Reichle | |
| Determinants of Outcome Measures | 188 188 189 191 |

| XX | CONTENTS |
|-----|----------|
| 701 | CONTENTO |

| Conclusions Based on Available Research Methodological Considerations Summary References | 194 195 196 197 |
|---|---|
| Chapter 14 | |
| PSYCHOPHARMACOLOGIC TREATMENT STUDIES IN AUTISM | 199 |
| Linmarie Sikich | |
| Criteria for Empirically Supported Treatments | 200 203 214 |
| Chapter15 | |
| SLEEP PROBLEMS IN AUTISM | 219 |
| Shoshana Arbelle and Itezhak Z. Ben-Zion | |
| Normal Sleep Sleep Problems in Children Sleep Problems in Autism The Etiology of Sleep Problems in Autism Treatment of Sleep Problems in Autism Conclusions References | 219 222 223 224 225 226 226 |
| Chapter 16 | |
| CONCLUDING COMMENTS | 229 |
| Cory Shulman, Robert Zimin, and Edna Mishori | |
| The Developmental Approach in Autism The Biological Approach in Autism Interventions Based on Research Results The Multidisciplinary Approach in Autism The Cultural Approach in Autism | 229 230 231 232 233 |
| INDEX | 235 |