

Contents

Chapter 1	Neurobiology, diagnosis, and treatment in autism: an introduction <i>Daria Riva</i>	1
Neurobiology		
Chapter 2	New diagnostic instruments and methods for autism spectrum disorders <i>So Hyun Kim</i>	13
Chapter 3	Conventional neuroimaging in autism <i>Alessandra Erbetta</i>	19
Chapter 4	Multimodal imaging of brain connectivity in autism spectrum disorders: an overview <i>Patrizia Chiesa and Ludovico Minati</i>	25
Chapter 5	Autism: the genetic viewpoint <i>Orsetta Zuffardi</i>	37
Chapter 6	Gene–environment interactions in autism spectrum disorder <i>Antonio M. Persico</i>	43
Chapter 7	GABA is essential for the construction of neuronal circuits early in development: dysfunction in autism spectrum disorders <i>Rocco Pizzarelli and Enrico Cherubini</i>	51
Chapter 8	The role of the immune response in autism spectrum disorders <i>Paul Ashwood and Milo Careaga</i>	65

Psychopharmacology

Chapter 9	New prospects towards more effective medication for ASDs <i>Roberta Zanni, Silvia Petza and Alessandro Zuddas</i>	81
Chapter 10	Pharmacologic treatment of autism in clinical practice <i>Gabriele Masi</i>	93

Rehabilitation

Chapter 11	The TEACCH approach to working with individuals on the autism spectrum: understanding, educating, empowering <i>Steven E. Kroupa</i>	107
Chapter 12	Experience using the TEACCH program at the Autism Center of AO San Paolo in Milan: applications and critical aspects <i>Monica Saccani</i>	121
Chapter 13	Applied Behaviour Analysis and the analysis of verbal behaviour in treating autism <i>Judah B. Axe</i>	127
Chapter 14	Applied Behaviour Analysis: the Italian experience of the Scuolaba Model for children with autism spectrum disorders <i>Lucia D'Amato</i>	139
Chapter 15	DIR–Developmental, Individual Difference, Relationship-Based Model: the sensory-motor affect connection to progress <i>Serena Wieder</i>	147
Chapter 16	The DIR model in treating autism: an Italian experience <i>Filippo Muratori and Giulia Campatelli</i>	155
Chapter 17	Imitation in autism spectrum disorders: from research to treatment <i>Giacomo Vivanti</i>	161
Chapter 18	Speech and language therapy intervention from the perspective of a multi-professional approach <i>Luciano Destefanis and Giuseppe Maurizio Arduino</i>	169
Chapter 19	Early psychomotor intervention in the treatment of young children with autism spectrum disorder <i>Roberto Militerni, Alessandro Frolli, Giovanna Gison, Guido Militerni and Ivana Sozio</i>	187
Chapter 20	Social skill training in autism spectrum disorders <i>Massimo Molteni and Sara Forti</i>	195

Complementary and alternative therapies

Chapter 21	A review of methods for facilitating speech in nonverbal children with ASD <i>Allison Landers, Gottfried Schlaug and Catherine Y. Wan</i>	203
Chapter 22	Complementary and alternative medicine in treating autism: myths and reality <i>Laurence Robel</i>	217