

1. Record Nr.	UNINA9910798212203321
Autore	Sala Carlo
Titolo	Neuronal and synaptic dysfunction in autism spectrum disorder and intellectual disability // Carlo Sala, Chiara Verpelli
Pubbl/distr/stampa	Amsterdam, Netherlands : , : Academic Press, , 2016 ©2016
ISBN	0-12-800533-5
Descrizione fisica	1 online resource (396 p.)
Disciplina	618.9285882
Soggetti	Autism in children - Diagnosis Autism in children - Treatment Autism Spectrum Disorder - genetics Neurodegenerative Diseases - genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Front Cover; NEURONAL AND SYNAPTIC DYSFUNCTION IN AUTISM SPECTRUM DISORDER AND INTELLECTUAL DISABILITY; Series page; NEURONAL AND SYNAPTIC DYSFUNCTION IN AUTISM SPECTRUM DISORDER AND INTELLECTUAL DISABILITY; Copyright; Contents; List of Contributors; Preface; Acknowledgments; I - AUTISM SPECTRUM DISORDERS AND INTELLECTUAL DISABILITY: GENETIC AND NON-GENETIC CAUSES; 1 - Experimental Tools for the Identification of Specific Genes in Autism Spectrum Disorders and Intellectual Disab ...; POSITIONAL MAPPING; Linkage Mapping; Balanced Translocation Breakpoint Mapping; Autozygosity Mapping CANDIDATE GENE APPROACHCOPY NUMBER VARIATIONS; Genome-wide CNV Detection Methods; Targeted CNV Detection Methods; NEXT-GENERATION SEQUENCING; Next-Generation Sequencing Platforms; Whole-Genome Sequencing Studies in ID and ASD; Exome Sequencing in ID and ASD; CONCLUSION; References; 2 - Genetic Causes of Autism Spectrum Disorders; INTRODUCTION; TWIN AND FAMILY STUDIES IN ASD; FROM CHROMOSOMAL REARRANGEMENTS TO COPY NUMBER VARIANTS IN ASD; FROM CANDIDATE GENES TO WHOLE EXOME/GENOME SEQUENCING STUDIES IN ASD; COMMON VARIANTS IN

ASD; THE GENETIC ARCHITECTURE OF ASD
BIOLOGICAL PATHWAYS ASSOCIATED WITH ASDPERSPECTIVES;
Acknowledgments; References; 3 - Genetics of X-Linked Intellectual
Disability; INTRODUCTION; HISTORY OF XLID; CLASSIFICATION OF XLID;
Syndromal XLID; Nonsyndromal XLID; Genotype-Phenotype Correlation;
Redefining XLID; DISEASE MECHANISMS; Presynaptic Vesicle Cycling and
Transport; Cytoskeletal Dynamics; Cell-Adhesion and Transsynaptic
Signaling; Translational Regulation, Protein Degradation, and Turnover;
FUTURE CHALLENGES AND THERAPEUTIC APPROACHES; References
4 - Genetic Causes of Intellectual Disability: The Genes Controlling
Cortical DevelopmentINTRODUCTION; DEVELOPMENT OF THE
MAMMALIAN BRAIN CORTEX; GENETIC BASES OF CORTICAL
MALFORMATIONS AND THEIR CONTRIBUTION TO BETTER
UNDERSTANDING NORMAL CORTICAL DEVELOPMENT; Malformations
Resulting From Abnormal Neurogenesis; Malformations Resulting From
Neuronal Migration Defects; Malformations Thought to Be Related to
Late Migration and/or Postmigrational Defects; Malformations Resulting
From Pial Basement Membrane Defects: Type II Lissencephaly (or
Cobblestone Lissencephaly); DISCUSSION
ID With Malformations of Cortical Development versus ID Without
Apparent MalformationsMalformations of Cortical Development and ID:
What Are the Perspectives to Reverse Cellular and Neurodevelopmental
Defects?; Acknowledgments; References; 5 - Immune Dysfunction in
Autism Spectrum Disorder; INTRODUCTION; IMMUNE ABNORMALITIES
IN ASD; The Neuroimmune System; The Peripheral Immune System;
Cellular Immunity; Blood Cytokines; Immunoglobulins; The Enteric
Immune System; Neuroimmune Interactions; Peripheral Immune
System-Brain Interactions; IMMUNE-RELATED SUSCEPTIBILITY FACTORS
FOR ASD
Immune-Related Environmental Risk Factors
