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Autism Spectrum Disorders By
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**The Neuroscience
Of Autism
Spectrum
Disorders By**

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**Homeostatic Control of Brain
Function offers a broad view of
brain health and diverse
perspectives for potential
treatments, targeting key areas
such as mitochondria, the immune**

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system, epigenetic changes, and regulatory molecules such as ions, neuropeptides, and neuromodulators. Loss of homeostasis becomes expressed as a diverse array of neurological disorders. Each disorder has multiple comorbidities - with some

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**crossing over several conditions -
and often disease-specific
treatments remain elusive. When
current pharmacological therapies
result in ineffective and inadequate
outcomes, therapies to restore and
maintain homeostatic functions can
help improve brain health, no**

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matter the diagnosis. Employing homeostatic therapies may lead to future cures or treatments that address multiple comorbidities. In an age where brain diseases such as Alzheimer's or Parkinson's are ever present, the incorporation of homeostatic techniques could

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successfully promote better overall brain health. Key Features include .
A focus on the homeostatic controls that significantly depend on the way one lives, eats, and drinks. . Highlights from emerging research in non-pharmaceutical therapies including botanical

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**medications, meditation, diet, and
exercise. · Incorporation of
homeostatic therapies into existing
basic and clinical research
paradigms. · Extensive scientific
basic and clinical research ranging
from molecules to disorders. ·
Emerging practical information for**

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improving homeostasis. · Examples of homeostatic therapies in preventing and delaying dysfunction. Both editors, Detlev Boison and Susan Masino, bring their unique expertise in homeostatic research to the overall scope of this work. This book is

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**accessible to all with an interest in
brain health; scientist, clinician,
student, and lay reader alike.**

**Anxiety in Children and
Adolescents with Autism Spectrum
Disorder: Evidence-Based
Assessment and Treatment begins
with a general overview of the**

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history of research on anxiety in ASD and the path towards evidence-based assessment and treatment methods. Thereafter, chapters focus on the nature of ASD and anxiety comorbidity, the assessment of anxiety in ASD, and its treatment. Later chapters are

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devoted to future directions for research on this topic, including a discussion of anxiety assessment and treatment for adults and minimally verbal individuals. Anxiety disorders in children with autism spectrum disorder (ASD) can cause substantial distress and

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impairment over and above that caused by ASD alone. Emerging research on genetic, psychological, psychophysiological, and psychometric aspects of ASD establish anxiety as a valid and necessary treatment target in this population. This book is designed

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to help a broad array of providers who work with children with ASD understand cutting-edge, empirically supported treatments for anxiety, including specific treatment plans and strategies. Presents a balanced discussion of the scientific literature on anxiety in

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**ASD Provides a pragmatic,
clinically applied focus that gives
readers a 'how-to' guide for the
treatment of anxiety in ASD
Considers the distinct ways in
which anxiety presents in children
and adolescents with ASD and the
challenges this presents to**

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assessment and treatment

**Examines emerging areas of
anxiety assessment and treatment
research in ASD**

**Autism: The Movement Sensing
Perspective is the result of a
collaborative effort by parents,
therapists, clinicians, and**

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researchers from all disciplines in science including physics, engineering, and applied mathematics. This book poses questions regarding the current conceptualization and approach to the study of autism, providing an alternative unifying data-driven

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**framework grounded in
physiological factors. This book
reaches beyond subjective
descriptions of autistic phenomena
and embraces a new era of
objective measurements, analyses,
and statistical inferences. The
authors harness activities from the**

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nervous systems across the brain and body (often in tandem), and introduce a platform for the comprehensive personalized phenotyping of individuals with autism. The impact of this approach is discussed to advance the development of tailored treatments

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**options, enhance the ability to
longitudinally track
symptomatology, and to
fundamentally empower affected
individuals and their families. This
book encompasses a new era for
autism research and treatments,
and our continuous effort to**

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**collectively empower and embrace
the autistic community.**

**Autism spectrum disorders (ASD)
constitute a major public health
problem, affecting one in every 150
children and their families.**

**Unfortunately, there is little
understanding of the causes of**

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ASD, and, despite their broad societal impact, many people believe that the overall research program for autism is incomplete, particularly as it relates to the role of environmental factors. The Institute of Medicine's Forum on Neuroscience and Nervous System

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Disorders, in response to a request from the U.S. Secretary of Health and Human Services, hosted a workshop called "Autism and the Environment: Challenges and Opportunities for Research." The focus was on improving the understanding of the ways in which

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**environmental factors such as
chemicals, infectious agents, or
physiological or psychological
stress can affect the development
of the brain. Autism and the
Environment documents the
concerted effort which brought
together the key public and private**

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stakeholders to discuss potential ways to improve the understanding of the ways that environmental factors may affect ASD. The presentations and discussions from the workshop that are described in this book identify a number of promising directions for research

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**on the possible role of different
environmental agents in the
etiology of autism.**

**Evidence-Based Assessment and
Treatment**

**Neurotechnology and Brain
Stimulation in Pediatric Psychiatric
and Neurodevelopmental Disorders**

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**Challenges and Opportunities for
Research: Workshop Proceedings
Advances in Research**

A Computational View of Autism

The Movement Sensing Perspective

Autism Spectrum Disorder:

Perspectives from

Psychoanalysis and

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**Neuroscience, offers a
guide to understanding and
treating the ASD toddler
from the dual perspectives
of psychoanalysis and
neurofunction through
describing in great detail**

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**intensive treatments of
four children who began
therapy as toddlers. The
authors hypothesize that
dyadic therapy and
Reflective Network Therapy
can impact a child by**

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**modifying the biochemistry
of the brain, resulting in
alteration of emotion and
cognition. Their chapter
on neurobiological
mechanisms of change
describes these hypotheses**

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in depth.

**This handbook celebrates
the abundantly productive
interaction of
neuropsychology and
medicine. This interaction
can be found in both**

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**clinical settings and
research laboratories,
often between research
teams and clinical
practitioners. It accounts
for the rapidity with
which awareness and**

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**understanding of the
neuropsychological com-
ponents of many common
medical disorders have
recently advanced. The
introduction of
neuropsychology into**

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**practice and research
involving conditions
without obvious
neurological components
follows older and
eminently successful
models of integrated care**

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**and treatment of the
classical brain disorders.
In the last 50 years, with
the growing understanding
of neurological disorders,
neuropsychologists and
medical specialists in**

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**clinics, at bedside, and
in laboratories together
have contributed to
important clinical and
scientific advances in the
understanding of the
common pathological**

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**conditions of the brain:
stroke, trauma, epilepsy,
certain movement
disorders, tumor, toxic
conditions (mostly alcohol-
related), and degenerative
brain diseases. It is not**

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surprising that these seven pathological conditions were the first to receive attention from neuropsychologists as their behavioral symptoms can be both prominent and

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**debilitating, often with
serious social and
economic consequences.**

**Rev. ed. of: Biology of
the autistic syndromes /
Christopher Gillberg, Mary
Coleman. 3rd ed. 2000.**

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**From a preeminent
researcher, this book
looks at the key role of
joint attention in both
typical and atypical
development. Peter C.
Mundy shows that no other**

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symptom dimension is more strongly linked to early identification and treatment of autism spectrum disorder (ASD). He synthesizes a wealth of knowledge on how joint

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**attention develops, its
neurocognitive
underpinnings, and how it
helps to explain the
learning, language, and
social-cognitive features
of ASD across the**

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**lifespan. Clinical
implications are explored,
including reviews of
cutting-edge diagnostic
methods and targeted
treatment approaches.
Biometals in Autism**

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**Spectrum Disorders
Development, Neuroscience,
and Clinical Fundamentals
Autism**

**The Neurology of Autism
Using Virtual Reality
Technologies in Autism**

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Intervention

Improving Communication, Behavior, and Family Dynamics

Handbook of Educational
Psychology and Students with
Special Needs provides

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educational and psychological researchers, practitioners, policy-makers, and graduate students with critical expertise on the factors and processes relevant to learning for students with special needs. This includes

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students with attention-
deficit/hyperactivity disorder,
other executive function
difficulties, behavior and
emotional disorders, autism
spectrum disorder, intellectual
disabilities, learning disabilities,

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dyslexia, language and communication difficulties, physical and sensory disabilities, and more. With the bulk of educational psychology focused on "mainstream" or "typically developing" learners,

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relatively little educational
psychology theory, research,
measurement, or practice has
attended to students with
"special needs." As clearly
demonstrated in this book, the
factors and processes studied

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within educational
psychology—motivation and
engagement, cognition and
neuroscience, social-emotional
development, instruction, home
and school environments, and
more—are vital to all learners,

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especially those at risk or
disabled. Integrating guidance
from the DSM-5 by the
American Psychiatric
Association and the
International Classification of
Diseases (ICD-10) by the World

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Health Organization, this book synthesizes and builds on existing interdisciplinary research to establish a comprehensive case for effective psycho-educational theory, research, and practice

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that address learners with special needs. Twenty-seven chapters by experts in the field are structured into three parts on diverse special needs categories, perspectives from major educational psychology

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theories, and constructs
relevant to special needs
learning, development, and
knowledge building.

Explores how the explosion of
neuroscience-based evidence in
recent years has led to a

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fundamental change in how forensic psychology can inform working with criminal populations. This book communicates knowledge and research findings in the neurobiological field to those

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who work with offenders and those who design policy for offender rehabilitation and criminal justice systems, so that practice and policy can be neurobiologically informed, and research can be enhanced.

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Starting with an introduction to the subject of neuroscience and forensic settings, The Wiley Blackwell Handbook of Forensic Neuroscience then offers in-depth and enlightening coverage of the neurobiology of

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sex and sexual attraction,
aggressive behavior, and
emotion regulation; the
neurobiological bases to risk
factors for offending such as
genetics, developmental,
alcohol and drugs, and mental

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disorders; and the neurobiology of offending, including psychopathy, antisocial personality disorders, and violent and sexual offending. The book also covers rehabilitation techniques such

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as brain scanning, brain-based therapy for adolescents, and compassion-focused therapy. The book itself: Covers a wide array of neuroscience research Chapters by renowned neuroscientists and criminal

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justice experts Topics covered include the neurobiology of aggressive behavior, the neuroscience of deception, genetic contributions to psychopathy, and neuroimaging-guided treatment Offers

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conclusions for practitioners and
future directions for the field.

The Handbook of Forensic
Neuroscience is a welcome book
for all researchers, practitioners,
and postgraduate students
involved with forensic

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psychology, neuroscience, law,
and criminology.

Autism is an emerging area of
basic and clinical research, and
has only recently been
recognized as a major topic in
biomedical research.

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Approximately 1 in 150 children are diagnosed as autistic, so it is also an intense growth area in behavioral and educational treatments. Financial resources have begun to be raised for more comprehensive research

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and an increasing number of scientists are becoming involved in autism research. In many respects, autism has become a model for conducting translational research on a psychiatric disorder. This text

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provides a comprehensive
summary of all current
knowledge related to the
behavioral, experiential, and
biomedical features of the
autism spectrum disorders
including major behavioral and

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cognitive syndromology,
common co-morbid conditions,
neuropathology,
neuroimmunology, and other
neurological correlates such as
seizures, allergy and
immunology, gastroenterology,

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infectious disease, and
epidemiology. Edited by three
leading researchers, this volume
contains over 80 chapters and
nine shorter commentaries by
thought leaders in the field,
making the book a virtual

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"who's who" of autism research. This carefully developed book is a comprehensive and authoritative reference for what we know in this area as well as a guidepost for the next several years in all areas of autism

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research.

Offers the latest research and science on autism, including new neuroimaging and genetic research that provide new theories on what causes autism spectrum disorders as well as

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new ways to treat and diagnose
them.

The Neurobiology of Autism
Memory Makes The Brain: The
Biological Machinery That Uses
Experiences To Shape Individual
Brains

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Synaptic Dysfunction in Autism
Spectrum Disorder and
Intellectual Disability
Applications of Cognitive
Neuroscience
Special Issue: The Emerging
Neuroscience of Autism

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Spectrum Disorders

Autism Spectrum Disorder and
Alzheimer's Disease

The Neuroscience of Autism

provides a comprehensive

accounting of autism spectrum

disorders by integrating scientific

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findings from behavioral, cognitive and neurobiological research. The book begins by defining autism, identifying characteristics and prevalence, exploring its history, and then moving on to the cognitive and social bases of behavioral symptoms,

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the brain bases of behavioral and cognitive symptoms, and finally, intervention practices. It examines theoretical models such as weak central coherence, enhanced perceptual functioning, and the extreme male brain hypothesis.

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Finally, the book addresses the increased attention on the brain connectivity model of autism, looking at the synchronization of brain activity across different brain areas, the causal influence of a brain region on another, and white matter cable

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**connections in the brain. Delves into
the increasing prevalence of autism
in the United States Focuses on
screening tools for early
identification Discusses the
neuroanatomical differences seen in
individuals with autism Examines**

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**the inferences gained from
functional MRI studies of autism
The Neuroscience of Autism
Spectrum Disorders Academic Press
This volume in the International
Review of Neurobiology is a
comprehensive overview of the state-**

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of-the-art research into autism pathophysiology. Its chapters cover a wide range of etiologies, from genetics and development to environmental factors. In addition, it discusses key cell and behavioral phenotypes, including cortical and

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cerebellar phenotypes, as well as language and motor outputs. Finally, this volume's chapters on gene expression in the brain describe how genes may be connected to phenotypes in autism. Broad coverage of genetic and cellular

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**phenotypes in autism Focused on
basic research Chapters primarily
written by new investigators with a
fresh perspective on the biological
underpinnings of autism
This book starts with a new sub
category of Autism Criminal Autistic**

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Psychopathy and school shootings. It focuses on a number of interventions, including speech and language pathology, speech and language assessment instruments, occupational therapy, improving functional language development in

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**autism with natural gestures,
communication boards etc as well as
helping people with autism using the
pictorial support, training of
concepts of significant others, theory
of mind, social concepts and a
conceptual model for empowering**

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families of children with autism cross culturally. It also examines the issue of hyperandrogenism and evidence-based treatments of autism. In terms of assessment, it focuses on psychological and biological assessment including

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**neurotransmitters systems,
structural and functional brain
imaging, coping strategies of parents,
examines the intertwining of
language impairment, specific
language impairment and ASD, as
well as implicit and spontaneous**

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Theory of Mind reading in ASD. In terms of aetiology, it focuses on genetic factors, epigenetics, synaptic vesicles, toxicity during neurodevelopment, immune system and sex differences. It also examines the link between social cognitive

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**anatomical and neurophysiologic
biomarkers and candidate genes.**

**This book will be relevant to all
mental health professionals because
autism occurs in all the different
areas of psychiatry and professionals
who will find it helpful will be**

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psychiatrists, psychologists, social workers, nurses, teachers and all those working with persons with Autism including parents who nowadays are interested in knowing more and more, at a detailed level about their children or adults with

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autism.

Neurobiology of Autism

The Autisms

Understanding Autism

The Neuroscience of Autism

Spectrum Disorders

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Autism Spectrum Disorder

Emerging Programs for Autism Spectrum Disorder: Improving Communication, Behavior, and Family Dynamics brings forward a hybrid and a transdisciplinary methodology to identify methods used

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to diagnose, treat, and manage those with autism within personal and social constructs and values building exemplary international experiences from across the globe. Luminary experts offer their superb level of expertise through their research,

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experience, and clinical work. The book addresses all the aspects of care, lifespan, and lifestyle issues from treatment to living. It will emphasize issues related to neurodiversity, individuality, best practices, and support of people on the Autism

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Spectrum and their families. In addition, this book includes specific case studies, highlighting family experiences and the application of best practices by therapists thereof. Provides a multidisciplinary approach of the diagnosis, management and

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treatment of autism spectrum disorders Includes specific case studies highlighting family experiences Emphasizes issues related to neurodiversity, individuality and improving quality of life
For this long-anticipated new edition,

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neurologists Margaret L. Bauman and Thomas L. Kemper bring together leading researchers and clinicians to present the most current scientific knowledge and theories about autism. "Anyone doing research in autism or other developmental disorders will

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find this an invaluable book to read to make sure all areas are understood and to serve as a rich source of references." -- American Journal of Psychiatry

In an exploration of bringing concepts from other disciplines to

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Chinese as a foreign language, a comparison between individuals diagnosed with Autism Spectrum Disorder (ASD) and foreign language learners help us analyze and better understand how foreign language learners can successfully be socialized

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into a target language and culture. According to the Diagnostic and Statistical Manual of Mental Health Disorders V (2013), a diagnosis of ASD includes persistent deficits in social communication and social interaction across multiple contexts;

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furthermore, individuals with ASD are often described as visual learners and are claimed to exhibit relative strength in visual processing. ASD is both a linguistic and social disorder. Ochs et al. (2004) declare that the struggles and successes of those

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Individuals who are diagnosed with autism make apparent what is most essential to participation in human society. Exploring the struggles of individuals diagnosed with ASD can shed light on the parallels of learning to comprehend social signals in a

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foreign culture. Through this comparison, foreign language pedagogues can better understand what foreign language learners struggle with to communicate in Chinese culture. This in turn better informs all Chinese as a foreign

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language (CFL) curriculum.

In DSM-5, published in 2013, the classification of autism spectrum disorder (ASD) was created, subsuming several diagnoses and representing a significant evolution from its first appearance in the DSM-

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Ill three decades earlier. Autism Spectrum Disorders reflects this evolution, offering clinicians and families a succinct, definitive, and up-to-date guide to current research in the field and its impact on assessment and treatment. The book begins with

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the epidemiology of ASDs, which have increased in prevalence, and explores genetic heritability and environmental risk factors. It then explains the roles of the psychiatrist, neurologist and pediatrician in assessing the patient, examines assessment tools and

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processes, and describes the latest advances in a variety of treatments and interventions. The text's focus is on educating and empowering families and health care providers to determine whether appropriate genetic testing and counseling have been

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undertaken, whether the individual has had the relevant assessment, and whether skilled behavioral treatment and additional medical assessment or treatment are required. Specifically, the text: Reviews existing prevalence estimates for ASDs since 2000 and

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discusses methodological factors impacting the estimation of prevalence and the interpretation of changes in prevalence estimates over time. Evaluates genomic and epigenomic research over the last decade in the context of translating

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findings to practice, in terms of testing (e.g., copy number variants and whole-exome sequencing) and counseling. Examines the role of environmental toxicity in immune dysregulation, which has now been noted among individuals with ASD and their family

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members by numerous studies.

Reviews medical and cognitive
assessments that may be needed.

Reviews targeted treatments that have
the potential to reverse

neurobiological abnormalities in ASD

Reviews behavioral treatments that

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are effective in promoting development and improving behavior. Describes the Developmental, Individual Difference, Relationship-based (DIR) model, a comprehensive developmental theory with relevance across the lifespan, which targets the

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core deficits of ASD identified in DSM-5. Provides an overview of school-based interventions for students with autism, exploring the rationale for conducting school-based research and examining existing teacher-, paraprofessional-, and peer-

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mediated interventions school-based interventions. Explores other approaches to ASDs, such as complementary and integrative approaches and non-invasive brain stimulation technologies, including transcranial magnetic stimulation.

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The push for early screening is resulting in earlier diagnosis of ASDs and the provision of evidence-based interventions that have a positive impact on outcomes. Autism Spectrum Disorders provides a bench-to-bedside guide that is essential reading for

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health care providers and families
facing the challenges inherent in
these complex disorders.

Neurodevelopmental Disorders
Handbook of Medical
Neuropsychology
Anxiety in Children and Adolescents

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with Autism Spectrum Disorder
Neuronal and Synaptic Dysfunction
in Autism Spectrum Disorder and
Intellectual Disability
Cognitive Plasticity in Neurologic
Disorders
Homeostatic Control of Brain

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Function

***The development of the young
brain after birth and the
emergence of cognitive
capacities, mind, and
individuality rest on the
maturation of a dense net of***

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synaptic connections between neurons. Memory Makes the Brain describes the dramatic, competitive elimination of surplus synapses that occur in the young, maturing brain — in a process called synaptic

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***pruning that was discovered
by pediatric neurologist Peter
Huttenlocher in the 1970's at
the University of Chicago.
Explaining similarities
between developmental
pruning and learning***

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***processes in the adult brain,
neurobiologist Christian
Hansel offers a unique
perspective on brain
adaptation and plasticity
throughout lifetime, at times
weaving in personal accounts***

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***and memories. The cellular
plasticity machinery that
enables learning is known to
be affected in brain
developmental disorders such
as autism. Memory Makes the
Brain explains how both***

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maturation and adult synaptic plasticity are deregulated in autism, and how we begin to trace back autism-typical behavioral abnormalities to such synaptopathies.

"This authoritative resource,

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***now thoroughly revised for
DSM-5, has set the standard
for the comprehensive
assessment of autism
spectrum disorder (ASD).
Leading experts demonstrate
how to craft a scientifically***

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***grounded profile of each
child's strengths and
difficulties, make a formal
diagnosis, and use
assessment data to guide
individualized intervention in
clinical and school settings.***

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Chapters review state-of-the-art instruments and approaches for evaluating specific areas of impairment in ASD and co-occurring emotional and behavioral disorders. Considerations in

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***working with children of
different ages are highlighted.
With a primary focus on
children, several chapters also
address assessment of
adolescents and adults. Key
words/subject areas: autism***

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***spectrum disorders, ASD,
Asperger syndrome,
Aspergers, DSM5, DSMV,
assessments, tests,
psychological testing,
neuropsychological
examination, early***

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***intervention, early
identification, clinical
evaluation, differential
diagnosis, developmental
disabilities, developmental
disorders, children,
adolescents, toddlers, infants,***

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***neurodevelopmental
disorders, screening
approaches, measures,
diagnostic criteria, DSMIV
Audience: Clinical and school
psychologists,
neuropsychologists, child***

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***psychiatrists, special
educators, speech-language
pathologists, social workers,
and counselors; also of
interest to pediatricians"--
This book is a comprehensive
overview of the clinical and***

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***scientific aspects of Autism
from the leading experts in the
field. The clinical section
covers everything from
epidemiological features to
epigenetic regulation to
behavioral therapies and much***

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in between. The basic science section presents the latest knowledge on the underlying causes of the disorder including the role of various neurotransmitters, neurexins and neuroligins, reelin, and

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other proteins. Chapters also explore the cognition and motor control in autism and the connection between oxidative stress and mitochondrial dysfunction and autism. The thorough

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***description of these
underlying causes may help
researchers and clinicians find
more effective treatments and
therapies for the 1 in 68
American children who have
been diagnosed with Autism.***

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Modern neuroimaging offers tremendous opportunities for gaining insights into normative development and a wide array of developmental neuropsychiatric disorders. Focusing on ontogeny, this

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***text covers basic processes
involved in both healthy and
atypical maturation, and also
addresses the range of
neuroimaging techniques
most widely used for studying
children. This book will enable***

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***you to understand normative
structural and functional brain
maturation and the
mechanisms underlying basic
developmental processes;
become familiar with current
knowledge and hypotheses***

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***concerning the neural bases
of developmental
neuropsychiatric disorders;
and learn about neuroimaging
techniques, including their
unique strengths and
limitations. Coverage includes***

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***normal developmental
processes, atypical
processing in developmental
neuropsychiatric disorders,
ethical issues, neuroimaging
techniques and their
integration with***

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***psychopharmacologic and
molecular genetic research
approaches, and future
directions. This
comprehensive volume is an
essential resource for
neurologists,***

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***neuropsychologists,
psychiatrists, pediatricians,
and radiologists concerned
with normal development and
developmental
neuropsychiatric disorders.
Autism Spectrum Disorders***

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***Comprehensive
Developmental Neuroscience
Recent Advances
The Wiley Blackwell Handbook
of Forensic Neuroscience
Perspectives from
Psychoanalysis and***

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Neuroscience

Thinking Across the Spectrum

***This selection of
contemporary research
provides up-to-date
perspectives from leading
investigators who are at***

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*the cutting edge of
studies in autism spectrum
disorders. The book allows
readers to grasp new
approaches to
understanding the autism
spectrum. Key areas of*

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theory and research are covered, from classification and diagnosis, genetics, neurology and biochemistry, to socio-cognitive, developmental

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and educational perspectives, essential to a broader understanding of the autism spectrum. In addition it introduces new emphases on MEG, epilepsy and memory. In

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***highlighting both
biomedical and
psychological
perspectives, this book
reflects the multi-level
emphasis of contemporary
thinking about autism. By***

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***addressing key unanswered
questions, Researching the
Autism Spectrum acts as a
guidepost for future
research and provides an
authoritative and
multidisciplinary***

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perspective.

*This book talks about the
multidimensional
biological etiology of
Alzheimers disease and
autism spectrum disorder
which leads to distinctive*

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*ways of perception,
thinking and learning in
affected individuals. It
provides a deeper emphasis
on the need for early
diagnosis, continuous
assessment of patients and*

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*the proper educational
methods and environment
required towards enabling
people affected with these
disorders capable of
evolving and learning.
This book explores*

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*alternative solutions for
autism spectrum disorder
based on the theory of
brain plasticity, the
relationship between the
gut microbiota and the
central nervous system*

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***along with genetic factors
and toxic metal exposures
which are responsible for
the oxidative damage
resulting in a decreased
ability of the patients to
use objects or response to***

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auditory stimuli. It also identifies and provides the latest research towards dealing with memory loss, which is the first sign of cognitive impairment followed by

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***behavioral disturbances.
These symptoms are
associated with a rigorous
neuronal decline and the
appearance of two brain
lesions, senile plaques
and neurofibrillary***

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tangles, which are mainly composed of AS and hyper phosphorylated tau protein respectively. This book also provides the latest research towards reducing autism disorder severity

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*such as targeting the
disease with symptomatic
treatments such as
cholinesterase inhibitors,
NMDA receptor antagonist,
B-secretase and B-
secretase inhibitors, a B-*

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secretase stimulators, tau inhibitors, immunotherapy, nutraceuticals, and nano drugs. This book will not only be a good resource for professors and lecturers teaching in the

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***area of neuroscience,
medicine, biochemistry,
neuroinformatics, and
nanotechnology, etc. but
also for professionals
working in the field of
occupational therapy and***

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*geriatric clinics and
rehabilitation.*

*In Neurology of Autism,
Mary Coleman, Catalina
Betancur, G. Robert
DeLong, Christopher
Gillberg, Yoshiko Nomura,*

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Lorenzo Pavone, Martin Ruggieri, and Michele Zappella use the tools of neurological analysis to address a number of the major questions that have arisen in the study of

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autism. The answers they present have important implications for the direction of future autism research, diagnosis, and treatment. What are the neurological signs and

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symptoms of autism? The latest information is presented here in an in-depth discussion of epilepsy, cranial circumference, changes in muscle tone, stereotypies,

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and mutism found in children with autism. In addition, a template is provided for practitioners to follow when conducting neurological examinations of a child with autism.

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What are the best options for the treatment of autism? The current medical, educational, and alternative therapies are thoroughly reviewed and evaluated. Is autism

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reversible? The question is explored for syndromic autism, where diseases may have a transient autistic phase, and reviewed in detail for nonsyndromic autism. Is autism

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***primarily a single
disease, as originally
described by Leo Kanner?
Research presented here
suggests that autism is,
instead, a syndrome
involving many disease***

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***entities. Has the
incidence of autism been
increasing in recent
years? A sophisticated,
historical review of
autisms prevalence rates
suggests that it has never***

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been rare. What is the relationship between autism and Asperger syndrome? The latest evidence presented here sheds light on the degree to which both syndromes

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share more than clinical characteristics; they also have some similar findings in imaging, neuropathological, and genetic studies. Which components of the brains

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neural networks need to be impaired to cause the appearance of autistic symptoms? Although there are many candidate regions, dysfunction of the cerebellum and its

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*circuits is noted to be of
great interest. Student
and professional
researchers,
practitioners, and parents
will find this book to be
a valuable resource for*

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*both the latest
information from basic-
science research and its
application to the
diagnosis and treatment of
autism. "[This book]
includes up-to-date*

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***genetic evidence,
underlining the
complexities of
genetic/environmental
influences...I recommend
this easy and informative
read."* -European Journal**

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of Pediatric Neurology

***"...authoritative." -The
Lancet Neurology***

***"Coleman's new book is an
absolute must-read for
anyone interested in the
progress made in***

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*understanding the causes
of autism. The field owes
her a tribute worthy of
someone who has
transformed an area of
neuroscience." -Simon
Baron-Cohen in Nature*

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Neuroscience

***"[I]nformative and
comprehensive in its
treatment of the
neurologic basis of
autism...well written and
easy to understand...the***

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***contributing authors have
done an excellent job of
making complex medical
concepts understandable to
all. The glossary at the
end of the book is
extremely helpful in this***

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***regard. The book is well
referenced, provides
helpful tables throughout,
and includes a summary of
relevant points at the end
of each chapter. The
authors are to be***

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*commended for presenting a
very balanced view of
current knowledge; they
also indicate what we do
not yet understand about
brain functioning in
autism and provide an*

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***important road map for
ongoing exploration."***

***-Marshalyne Yeargin-Allsopp
in The New England Journal
of Medicine "At last it is
recognised that
developmental neurology is***

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*the appropriate context in
which to explain autism.
The authors of this
volume, all pioneers in
the field, consider new
ideas on autism in this
context. They succeed in*

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*making surprising and
illuminating comparisons
between autism and
neurological disorders
whose origin is already
known. This work is a
significant step towards*

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*understanding the causes
of autistic
disorders."* -Uta Frith,
Institute of Cognitive
Neuroscience and
Department of Psychology,
University College London

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"When and if the secret of autism is teased from the myriad disease states that exhibit the syndrome, it will be through efforts such as are represented in this volume. Dr. Coleman

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*has 'picked the brains' of
recognized experts from
neurology and related
sciences, and has
assembled a wealth of up-
to-date and meticulously
referenced information*

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*regarding both those
diseases and the core
symptoms of autism."*

*-Peter B. Rosenberger,
Massachusetts General
Hospital*

This volume makes clear

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that the cognitive and behavioural symptoms of neurologic disorders and syndromes are dynamic and changing. Each chapter describes the neuroplastic processes at work in a

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*particular condition,
giving rise to these
ongoing cognitive changes.
The Neuroscience of Autism
The Neuropsychology of
Autism
Neuroimaging in*

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***Developmental Clinical
Neuroscience***

Contemporary Perspectives

Autism and Joint Attention

Autism Spectrum Disorder

in the First Years of Life

Neuronal and Synaptic

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Dysfunction in Autism Spectrum Disorder and Intellectual Disability provides the latest information on Autism spectrum disorders (ASDs), the lifelong neurodevelopmental disorders that present in early childhood

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and affect how individuals communicate and relate to others and their surroundings. In addition, three quarters of ASD patients also manifest severe intellectual disability. Though certain genes have been

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implicated, ASDs remain largely a mystery, and research looking into causes and cellular deficits are crucial for better understanding of neurodevelopmental disorders. Despite the prevalence and

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insidious nature of this disorder, this book remains to be an extensive resource of information and background on the state of current research in the field. The book serves as a reference for this purpose, and discusses the

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crucial role synaptic activity plays in proper brain function. In addition, the volume discusses the neurodevelopmental synaptopathies and serves as a resource for scientists and clinicians in all biomedical

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science specialties. This research has been crucial for recent studies that have provided a rationale for the development of pharmacological agents able to counteract functional synaptic anomalies and potentially

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ameliorate some ASD
symptoms. Introduces the
genetic and non-genetic causes
of autism and associated
intellectual disabilities Describes
the genes implicated in autistic
spectrum disorders and their

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function Considers major individual genetic causes of autism, Rett syndrome, Fragile X syndrome, and other autism spectrum disorders, as well as their classification as synaptopathies Presents a

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thorough discussion of the clinical aspects of multiple neurodevelopmental disorders and the experimental models that exist to study their pathophysiology in vitro and in vivo, including animal models

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and patient-derived stem cell
culture

Autism is no longer considered a
rare disease, and the Center for
Disease Control now estimates
that upwards of 730,000 children
in the US struggle with this

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isolating brain disorder. New research is leading to greater understanding of and ability to treat the disorder at an earlier age. It is hoped that further genetic and imaging studies will lead to biologically based

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diagnostic techniques that could help speed detection and allow early, more effective intervention. Edited by two leaders in the field, this volume offers a current survey and synthesis of the most important findings of the

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neuroscience behind autism of the past 20 years. With chapters authored by experts in each topic, the volume explores etiology, neuropathology, imaging, and pathways/models. Offering a broad background of

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ASDs with a unique focus on neurobiology, the volume offers more than the others on the market with a strictly clinical focus or a single authored perspective that fails to offer expert, comprehensive coverage.

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Researchers and graduate students alike with an interest in developmental disorders and autism will benefit, as will autism specialists across psychology and medicine looking to expand their expertise. Uniquely explores

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ASDs from a neurobiological angle, looking to uncover the molecular/cellular basis rather than to merely catalog the commonly used behavioral interventions Comprehensive coverage synthesizes widely

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dispersed research, serving as
one-stop shopping for
neurodevelopmental disorder
researchers and autism
specialists Edited work with
chapters authored by leaders in
the field around the globe - the

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broadest, most expert coverage
available

Autism is no longer considered a
rare disease, and the Center for
Disease Control now estimates
that upwards of 730,000 children
in the US struggle with this

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isolating brain disorder. New research is leading to greater understanding of and ability to treat the disorder at an earlier age. It is hoped that further genetic and imaging studies will lead to biologically based

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diagnostic techniques that could help speed detection and allow early, more effective intervention. Edited by two leaders in the field, this volume offers a current survey and synthesis of the most important findings of the

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neuroscience behind autism of the past 20 years. With chapters authored by experts in each topic, the volume explores etiology, neuropathology, imaging, and pathways/models. Offering a broad background of

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ASDs with a unique focus on neurobiology, the volume offers more than the others on the market with a strictly clinical focus or a single authored perspective that fails to offer expert, comprehensive coverage.

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Researchers and graduate students alike with an interest in developmental disorders and autism will benefit, as will autism specialists across psychology and medicine looking to expand their expertise. Uniquely explores

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ASDs from a neurobiological angle, looking to uncover the molecular/cellular basis rather than to merely catalog the commonly used behavioral interventions Comprehensive coverage synthesizes widely

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dispersed research, serving as
one-stop shopping for
neurodevelopmental disorder
researchers and autism
specialists Edited work with
chapters authored by leaders in
the field around the globe □ the

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broadest, most expert coverage
available

The Neuropsychology of Autism
provides an up-to-date summary
on the neuropsychology of
autism spectrum disorders
(ASD), written by leaders in the

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field. It summarizes current knowledge about neurochemistry, neuroanatomy, genetics, and clinical presentations and provides helpful discussions on key functions such as language,

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memory, attention, executive
functions, social cognition, motor
and sensory functioning.

Exploring Neuroscience and
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Research to Guide Change in
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Researching the Autism
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The Autistic Brain

The Molecular Basis of Autism

Autism Spectrum Disorders are lifelong neurodevelopmental disorders with early clinical presentation that affect how individuals communicate and relate to others and their surroundings. In addition,

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three quarters of ASD patients also manifest severe intellectual disability. Though certain genes have been implicated, ASDs remain largely a mystery, and research looking into causes and cellular deficits are crucial for better understanding of neurodevelopmental disorders. Despite its high prevalence and

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insidious nature, there remains to be an extensive resource that provides information about the background and state of current research in the autism field. The first edition of Synaptic Dysfunction in Autism Spectrum Disorder and Intellectual Disability serves as a reference for this purpose, and discusses

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the crucial role synaptic activity plays in proper brain function. This volume discusses these neurodevelopmental synaptopathies and serves as a resource for scientists and clinicians in all biomedical science specialties. This research has been crucial for recent studies that have provided a rationale for

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the development of pharmacological agents able to counteract functional synaptic anomalies and potentially ameliorate some ASD symptoms.

*Introduces the genetic and non-genetic causes of autism and associated intellectual disabilities *Describes the genes implicated in ASDs and their

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function *Considers major individual genetic causes of autism, Rett syndrome, Fragile X syndrome, and other autism spectrum disorders, as well as their classification as synaptopathies

*Thorough discussion of the clinical aspects of multiple neurodevelopmental disorders and the experimental models

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that exist to study their pathophysiology in vitro and in vivo, including animal models and patient-derived stem cell culture. This book first explains autism, its prevalence, and some conventional intervention techniques, and it then describes how virtual reality technology can support autism intervention and skills.

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training. The approaches and technologies covered include immersive virtual reality, augmented reality and mixed reality. The tasks covered include emotion recognition, affective computing, teaching communication skills, imparting literacy skills, training for imitation skills, and joint attention skills. Most of the chapters

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assume no prerequisite knowledge of autism or virtual reality, and they are supported throughout with detailed references for further investigation. While the author is an engineer by profession, with specialist knowledge in robotics and computer-based platforms, in this book she adopts a user perspective and cites

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many real-life examples from her own experience. The book is suitable for students of cognitive science, and researchers and practitioners engaged with designing and offering technological assistance for special needs training. Neurotechnology and Brain Stimulation in Pediatric Psychiatric and

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Neurodevelopmental Disorders provides a comprehensive overview of neurotechnological devices as potential treatments for psychiatric and neurodevelopmental disorders in children and adolescents. Many neuropsychiatric disorders are covered such as Autism Spectrum Disorder, ADHD, Depression,

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Tourette's Syndrome, and OCD. Different device-based treatments are discussed such as Transcranial Magnetic Stimulation, Transcranial Direct Current Stimulation, Deep Brain Stimulation, Chronotherapy, and Neurofeedback. Provides an overview of neuromodulatory devices as potential treatments for

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psychiatric and neurodevelopmental disorders in children and adolescents
Gives evidence-based recommendations for non-drug interventions that may be effective for treatment options
Discusses different neuromodulatory treatment options, including TMS, tDCS, DBS, chronotherapy and neurofeedback

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Information about the symptoms, treatment, and research on Autism spectrum disorders including Autism and Asperger syndrome.

From Basic Neuroscience to Treatment
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Through the Strategic Use of Visualization

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Biometals in Autism
Spectrum Disorders focuses
on trace metals and
autism. Compared to other
references examining ASDs
or metallomics, this book
presents findings of

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abnormal metal homeostasis
in ASD, providing an
overview of current
findings on trace metal
biology, its role in ASD
etiology, and how abnormal
trace metal biology may be

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a common factor of several genetic and non-genetic causes of ASDs that were once considered unrelated. This comprehensive resource opens new vistas for the development of new

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therapies based on the targeted manipulation of trace metal homeostasis that will generate new awareness surrounding trace metal levels during pregnancy. Reviews the

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role of trace metals in
brain development

Summarizes research

linking trace metals and
autism Explores

heterogenous phenotypes as
a factor of genetic and

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non-genetic factors

Includes animal and human
stem research Contains

many useful diagrams,
tables and flow charts

Proposes future therapies
based on biometal

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homeostasis

Taking an all-inclusive
look at the subject,
Understanding Autism: From
Basic Neuroscience to
Treatment reviews state-of-
the-art research on the

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diagnosis, treatment, and prevention of autism. The book addresses potential mechanisms that may underlie the development of autism and the neural systems that are likely to

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be affected by these
molecular, genetic, and
infectious etiologies. It
reviews key findings that
inform diagnosis,
epidemiology, clinical
neuroscience, and

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treatment. The book concludes with a discussion of the economic cost of autism and provides a biomedical and public health perspective of the impact of this

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