

## The Neuroscience Of Autism Spectrum Disorders By Joseph D Buxbaum

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Edited by two leaders in the field, this volume offers a current survey and synthesis of the most important findings of the 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.

The Neuroscience of Autism Spectrum Disorders: Amazon.co ...

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 isolating brain disorder. New research is leading to greater understanding of and ability

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to treat the disorder at an earlier age.

The Neuroscience of Autism Spectrum Disorders | ScienceDirect

The discovery, published in Neuron, illuminates the molecular details of a key process in brain development and adds to the scientific understanding of the biological basis of autism spectrum...

The neuroscience of autism: New clues for how condition ...

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The neuroscience of autism: New clues for how condition begins

In 1943, the first description by Kanner 3 of autistic disturbances included speculation about genetic inheritance, but early psychoanalytic hypotheses focused on the early social environment as a cause for autism, including the fallacy of the "refrigerator mother." 4 In the 1970s, twin studies identified genetics as a major contributor to the risk of autism. 5 Within the heterogeneous spectrum of ASD, data point to both genetic and environmental risk factors that contribute to risk. In ...

The Emerging Clinical Neuroscience of Autism Spectrum ...

The Neuroscience of Autism Spectrum Disorders Book Review: 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 isolating brain disorder.

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DiCicco-Bloom and colleagues summarize their presentations at the Neurobiology of Disease workshop at the 2005 Annual Meeting of the Society for Neuroscience. The autism spectrum disorder (ASD) is among the most devastating disorders of childhood in terms of prevalence, morbidity, outcome, impact on the family, and cost to society.

The Developmental Neurobiology of Autism Spectrum Disorder ...

Regarding the amygdala, there are four lines of evidence for an amygdala deficit in autism. 88 Firstly, a neuroanatomical study of autism at postmortem found microscopic pathology (in the form of increased cell density) in the amygdala, in the presence of normal amygdala volume. 89, 90 Secondly, patients with autism tend to show a similar pattern of deficits to those seen in patients with amygdala lesions. 91 Thirdly, a recent structural MRI study of autism reported reduced amygdala volume ...

The cognitive neuroscience of autism | Journal of ...

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With research showing that autism and Asperger Syndrome run in families, Cambridge researchers have been using molecular genetic studies to identify 'susceptibility genes'. Collaborations with researchers at the Wolfson Brain Imaging Centre have been used to pinpoint specific structural and functional differences in the brains of people with autism and Asperger Syndrome.

The Autistic Brain :: Cambridge Neuroscience

Edited by two leaders in the field, this volume offers a current survey and synthesis of the most important findings of the 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.

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People with autism may appear to daydream constantly or be unaware of people around them. Most children with autism prefer to play by themselves, and treat other people like furniture. The major symptoms of autism include: Communication Problems: Many people with autism are uncommunicative - they will not speak, gesture, or make facial expressions. When they do speak, the speech may be in a sing-song pattern or monotone (no variation in pitch, like playing a single note on an instrument).

Neuroscience For Kids - Autism

The Neuroscience of Autism Spectrum Disorders Book Review: 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 isolating brain disorder.

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The neuroscience of autism spectrum disorders. [Joseph D Buxbaum; Patrick R Hof;] -- 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 isolating brain disorder.

The neuroscience of autism spectrum disorders (eBook, 2013 ...

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The Neuroscience of Autism Spectrum Disorders eBook ...

The psychology and biology of a complex developmental condition Autism is diagnosed when a child or adult has abnormalities in a "triad" of behavioural domains: social development, communication,...

(PDF) The Cognitive Neuroscience of Autism

Autism spectrum disorder (ASD) debuts in childhood and is a neuropsychiatric condition characterised by limited communication and social skills and repetitive behaviour.

Imagery Reveals Autism-Related Brain ... - Neuroscience News

Neuroimaging has been extensively used to study brain structure and function in individuals with attention deficit/hyperactivity disorder (ADHD) and autism spectrum disorder (ASD) over the past decades. Two of the main shortcomings of the neuroimaging literature of these disorders are the small samp ...

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 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 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 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 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. 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 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 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 broadest, most expert coverage available

The Neuroscience of Autism provides a comprehensive accounting of autism spectrum disorders by integrating scientific 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

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symptoms, 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. 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 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 the inferences gained from functional MRI studies of autism

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Autism Spectrum Disorder: Perspectives from Psychoanalysis and Neuroscience, offers a guide to understanding and treating the ASD toddler from the dual perspectives of psychoanalysis and neurofunction through describing in great detail 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 modifying the biochemistry of the brain, resulting in alteration of emotion and cognition. Their chapter on neurobiological mechanisms of change describes these hypotheses in depth.

Taking an all-inclusive look at the subject, Understanding Autism: From Basic Neuroscience to Treatment reviews state-of-the-art research on the 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 be affected by these molecular, genetic, and

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infectious etiologies. It reviews key findings that inform diagnosis, epidemiology, clinical neuroscience, and 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 devastating disease. With chapters authored by clinical and basic researchers at the forefront of molecular and systems neuroscience, clinical neuroscience, and health economics, the book presents a powerful and comprehensive synthesis of current research on autism and its underlying neural substrates. The book's two editors are considered elite pioneers in this area of research. Dr. Rubenstein was recently elected to the highly prestigious Institute of the Medicine, an honor reserved for those most committed to professional achievement and public service.

Neuronal and Synaptic 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 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 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 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 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 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 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 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 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 and patient-derived stem cell culture

For this long-anticipated new edition, 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 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

Autism is an emerging area of basic and clinical research, and has only recently been recognized as a major topic in biomedical research. 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 and an increasing number of scientists are becoming involved in autism research. In many respects, autism has become a

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model for conducting translational research on a psychiatric disorder. This text 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 cognitive syndromology, common co-morbid conditions, neuropathology, neuroimmunology, and other neurological correlates such as seizures, allergy and immunology, gastroenterology, 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 "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 research.

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