Abnormal Brain Lateralization In High Functioning Autism

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Lateralization in individuals with high-functioning autism and Asperger's disorder: A frontostriatal model. Journal of Autism and Developmental Disorders, 32, 321-332.

~~Abnormal Brain Lateralization in High-Functioning Autism ...~~
Abnormal Brain Lateralization in High-Functioning Autism 541. Fig. 1. Percentages of left, right, and mixed lateral dominance in. healthy individuals and autistic individuals with and without early.

~~(PDF) Abnormal Brain Lateralization in High-Functioning Autism~~
T1 - Abnormal Brain Lateralization in High-Functioning Autism. AU - Escalante-Mead, Paul R. AU - Minshew, Nancy J. AU - Sweeney, John A. PY - 2003/10/1. Y1 - 2003/10/1. N2 - Disturbances in lateral preference in autism are of interest because of their potential to shed light on

brain maturational processes in this disorder.

Abnormal Brain Lateralization in High-Functioning Autism ...

abnormal-brain-lateralization-in-high-functioning-autism 2/8 Downloaded from datacenterdynamics.com.br on October 28, 2020 by guest research on atypical cerebral lateralization in the most common neurodevelopmental disorders: stuttering, dyslexia, autism and intellectual disability. Emphasis is placed on recent studies, as well as descriptions of

Abnormal Brain Lateralization In High Functioning Autism ...

Abnormal Brain Lateralization in High-Functioning Autism Paul R. Escalante-Mead,1 Nancy J. Minshew,2 and John A. Sweeney1,3 Disturbances in lateral preference in autism are of interest because of ...

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Abnormal Brain Lateralization In High Functioning Autism

Brain lateralization for language in high-functioning children with autism spectrum conditions (ASC) and sensory processing were explored as a part of a neuropsychological profile. A dichotic listening test and the Luria laterality subtest were administered to all participants (including controls) and the sensory profile test only to the ASC group.

Abnormal Linguistic Lateralization and Sensory Processing ...

Children with specific language impairment exhibited a significant lack of left lateralization in all core language regions (inferior frontal gyrus-opercularis, inferior frontal gyrus-triangularis, supramarginal gyrus and superior temporal gyrus), across single or combined task analysis, but no difference of lateralization for the rest of the brain.

Abnormal functional lateralization and activity of ...

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Abnormal Brain Lateralization In High Functioning Autism

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Abnormal Linguistic Lateralization and Sensory Processing ...

The lateralization of brain function is the tendency for some neural functions or cognitive processes to be specialized to one side of the brain or the other. The medial longitudinal fissure separates the human brain into two distinct cerebral hemispheres, connected by the corpus callosum. Although the macrostructure of the two hemispheres appears to be almost identical, different composition of neuronal networks allows for specialized function that is different in each hemisphere. Lateralizatio

Lateralization of brain function - Wikipedia

Lateralization of brain structure and function occurs in typical development, and abnormal lateralization is present in various neuropsychiatric disorders. Autism is characterized by a lack of left lateralization in structure and function of regions involved ...

Abnormal lateralization of functional connectivity between ...

All in all, the information presented above on abnormal brain lateralization in ADHD is inconclusive; albeit most evidence favors right hemisphere dysfunction. In arriving at this conclusion, it is underlined that atypical laterality is based on research carried out on individuals fulfilling the DSM criteria for ADHD which is termed the categorical approach.

Frontiers | Brain lateralization and self-reported ...

The abnormal broadband EEG asymmetry in autism may point to a diminished capacity of right temporal cortex to generate EEG rhythms. The concurrent lack of normal leftward asymmetry of mu rhythm suggests that abnormalities in EEG lateralization in autism may be regionally/functionally specific.

Abnormal EEG lateralization in boys with autism ...

Autism is characterized by a lack of left lateralization in structure and function of regions involved in language, such as Broca and Wernicke areas.Using functional connectivity magnetic resonance imaging from a large publicly available sample (n = 964), we tested whether abnormal functional lateralization in autism exists preferentially in language regions or in a more diffuse pattern across networks of lateralized brain regions.The autism group exhibited significantly reduced left ...

~~Abnormal lateralization of functional connectivity between ...~~
Several contributions have reported reduced brain lateralization in schizophrenia, causing a failure of left hemisphere dominance. Evidence of altered connectivity among distinct cortical areas is also accumulating. The aim of the present article is to critically review such contributions.

Brain Lateralization and Developmental Disorders provides a comprehensive review of key findings and speculations from previous research on atypical cerebral lateralization in the most common neurodevelopmental disorders: stuttering, dyslexia, autism and intellectual disability. Emphasis is placed on recent studies, as well as descriptions of the author ' s personal research which will provide a promising new direction for future research on these issues. In this text, Asenova presents four separate studies aiming to examine hemispheric asymmetries in neurodevelopmental disorders. These include the subtypes of developmental stuttering, the subtypes of developmental dyslexia, mild, non-syndromic intellectual disability with comorbid speech and language deficits and autism spectrum disorder with comorbid severe language impairment. The use of uniform research methods, including dichotic verbal perception tasks and lateral preference performance tests, has led to findings that suggest that this new approach could be a key factor in overcoming the ambiguity of findings from previous studies. By focusing on the discussion of key issues concerning the role of atypical laterality in the genesis of neurodevelopmental psychopathology in both past research and Asenova ' s own studies, Brain Lateralization and Developmental Disorders is a valuable reading for students and researchers in neurodevelopmental psychopathology, as well as in developmental neuropsychology and developmental neuroscience.

Cerebral Lateralization and Cognition: Evolutionary and Developmental Investigations of Motor Biases, Volume 238, the latest release in the Progress in Brain Research series, discusses interdisciplinary research on the influence of cerebral lateralization on cognition within an evolutionary framework. Chapters of note in this release include Evolutionary Perspectives: Visual/Motor Biases and Cognition, Manual laterality and cognition through evolution: An archeological perspective, Laterality in insects, Motor asymmetries in fish, amphibians and reptiles, Visual biases and social cognition in animals, Mother and offspring lateralized social interaction across animal species, Manual bias, personality and cognition in common marmosets and other primates, and more. Presents investigations of cognitive development in an evolutionary framework Provides a better understanding of the causal relationship between motor function and brain organization Brings clinicians and neuroscientists together to consider the relevance of motor biases as behavioral biomarkers of cognitive disorders Includes future possibilities for early detection and motor intervention therapies

Left-right asymmetries of structure and function are a common organization principle in the brains of humans and non-human vertebrates alike. While there are inherently asymmetric systems such as the human language system or the song system of songbirds, the impact of structural or functional asymmetries on perception, cognition and behavior is not necessarily limited to these systems. For example, performance in experimental paradigms that assess executive functions such as inhibition, planning or action monitoring is

influenced by information processing in the bottom-up channel. Depending on the type of stimuli used, one hemisphere can be more efficient in processing than the other and these functional cerebral asymmetries have been shown to modulate the efficacy of executive functions via the bottom-up channel. We only begin to understand the complex neuronal mechanisms underlying this interaction between hemispheric asymmetries and cognitive systems. Therefore, it is the aim of this Research Topics to further elucidate how structural or functional hemispheric asymmetries modulate perception, cognition and behavior in the broadest sense.

State-of-the-art research on brain asymmetry, explained from molecular to clinical levels. Hemispheric asymmetry is one of the basic aspects of perception and cognitive processing. The different functions of the left and right hemispheres of the brain have been studied with renewed interest in recent years, as scholars explore applications to new areas, new measuring techniques, and new theoretical approaches. This volume provides a comprehensive view of the latest research in brain asymmetry, offering not only recent empirical and clinical findings but also a coherent theoretical approach to the subject. In chapters that report on the field at levels from the molecular to the clinical, leading researchers address such topics as the evolution and genetics of brain asymmetry; animal models; findings from structural and functional neuroimaging techniques and research; sex differences and hormonal effects; sleep asymmetry; cognitive asymmetry in visual and auditory perception; and auditory laterality and speech perception, memory, and asymmetry in the context of developmental, neurological, and psychiatric disorders. Contributors Katrin Amunts, Ulrike Bayer, Alfredo Brancucci, Vince D. Calhoun, Maria Casagrande, Marco Catani, Michael C. Corballis, Patricia E. Cowell, Timothy J. Crow, Tom Eichele, Stephanie Forkel, Patrick J. Gannon, Isabelle George, Onur Güntürkün, Heikki Hämäläinen, Markus Hausmann, Joseph B. Hellige, Kenneth Hugdahl, Masud Husain, Grégoria Kalpouzos, Bruno Laeng, Martina Manns, Chikashi Michimata, Deborah W. Moncrieff, Lars Nyberg, Godfrey Pearlson, Stefan Pollmann, Victoria Singh-Curry, Iris E.C. Sommer, Tao Sun, Nathan Swanson, Fiia Takio, Michel Thiebaut de Schotten, René Westerhausen

An engaging assessment of famous historical "hyperpolyglot" linguistic high achievers who demonstrated an extraordinary capacity for learning and speaking languages explains the sources of such abilities and what their collective talents reveal about the nature of memory and language. By the author of Um…: Slips, Stumbles, and Verbal Blunders, and What They Mean.

Communication in Autism adopts a multidisciplinary approach to explore one of the most common developmental disorders associated with communication impairment. Perhaps the most fascinating thing about communication in autism is that variation is as extreme as it could possibly be. While some individuals with autism have age-appropriate language, a number have exceptional language skills; others have little or no spoken language. In between these extremes are individuals who experience significant linguistic impairments. These impairments can affect peer relations and literacy skills. The chapters in this volume provide comprehensive coverage of both the theoretical underpinnings and the practical aspects of autistic communication. The result is a volume that showcases the wide range of methodologies being used in this field of research. It is invaluable for scientists, service providers, parents, individuals with autism, and students learning about communication and autism (e.g., in psychology, speech pathology, and education).

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ìA fantastic and monumental contribution to our field.î ñ Ralph M. Reitan, PhD "The field of neuropsychology has many specialized books on particular diseases, but there is always a need for a general text to cover the major aspects of neuropsychology from neuroanatomy to assessment to practice issues. This is one such book that attempts to provide comprehensive coverage of the field." --Doody's In the last decade, the number of books, courses, training opportunities, and journals dealing with clinical neuropsychology has greatly increased. Demand for a complete reference in the field is growing as practitioners in private practice, the court system, and the medical field continue to make discoveries and advance our knowledge of the brain system and how it affects our everyday lives. In order to address this urgent need, Drs. Horton and Wedding have edited this Third Edition of the classic Neuropsychology Handbook. In its pages are reviews of all the major areas in which clinical neuropsychologists work: the foundations of clinical neuropsychology brain structure and function neurological disorders psychiatric disorders diagnostic decision-making symptom validity testing neuroimaging behavioral change following traumatic brain injury disability determination rehabilitation planning, and more Very specialized areas of practice such as clinical neuropsychology with children, clinical neurotoxicology, and neuropsychological assessment in criminal law cases also receive chapters.

An Emmy Award-winning art director traces her partnership with a mother from India, with whom she united in a shared effort to communicate with their severely autistic sons and discovered breakthroughs that challenged prevailing theories about autism. Reprint.