

## Abnormal Brain Lateralization In High Functioning Autism

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### Abnormal Brain Lateralization In High

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 Article (PDF Available) in Journal of Autism and Developmental Disorders 33(5):539-43 · November 2003 with 1,009 Reads How we measure 'reads'

### (PDF) Abnormal Brain Lateralization in High-Functioning Autism

title = "Abnormal Brain Lateralization in High-Functioning Autism", abstract = "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 Forty-seven autistic individuals with a history of disordered early language development and 22 autistic individuals with normal early language acquisition were matched with 112 healthy individuals and compared on a standardized measure of lateral preference, the Edinburgh Handedness Inventory.

### 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 ...

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 in language, such as Broca and Wernicke areas.

### Abnormal lateralization of functional connectivity between ...

in High-Functioning Autism Paul R. Escalante-Mead, 1 Nancy J. Minshew, 2 and John A. Sweeney 1,3 Disturbances in lateral preference in autism are of interest because of their potential to shed light

### 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 con-trols) and the sensory profile test only to the ASC group.

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## **Abnormal Linguistic Lateralization and Sensory Processing ...**

Abnormal functional lateralization and activity of language brain areas in typical specific language impairment (developmental dysphasia) ... At the subject level, a high-pass filter was applied to functional MRI data to remove slow signal drifts due to undesired effects. ... there is no difference of lateralization for the rest of the brain ...

## **Abnormal functional lateralization and activity of ...**

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 ...**

Abnormal brain lateralization in autism has been measured by multiple techniques, including magnetic resonance imaging (MRI) [10, 17, 18], functional MRI [11, 19, 20], diffusion imaging [14, 15, 21], positron emission tomography [22-24], and electroencephalography [25-27].

## **Abnormal lateralization of functional connectivity between ...**

It is well-recognized that studying ADHD dimensionally is more controlled for comorbid problems and medication effects, and provides more accurate assessment of the symptoms. Therefore, the present study applied the dimensional approach to test the relationship between brain lateralization and self-reported ADHD symptoms in a population sample.

## **Frontiers | Brain lateralization and self-reported ...**

Abnormal lateralization of functional connectivity between language and default mode regions in autism Jared A Nielsen<sup>1,2</sup>, Brandon A Zielinski<sup>3</sup>, P Thomas Fletcher<sup>4</sup>, Andrew L Alexander<sup>5,6</sup>, Nicholas Lange<sup>7,8</sup>, Erin D Bigler<sup>9,10</sup>, Janet E Lainhart<sup>5</sup> and Jeffrey S Anderson<sup>1,10,11,12\*</sup> Abstract Background: Lateralization of brain structure and function ...

## **Abnormal lateralization of functional connectivity between ...**

Lateralization of brain function. Function lateralization such as semantics, intonation, accentuation, prosody, etc. has since been called into question and largely been found to have a neuronal basis in both hemispheres. Another example is that each hemisphere in the brain tends to represent one side of the body.

## **Lateralization of brain function - Wikipedia**

Brain injuries sufficient to cause right hemiparesis were strongly associated with left handedness and atypical (right hemisphere or bilateral) speech representation. Among nonhemiparetic patients, abnormal extratemporal radiological findings were associated with an increased incidence of left handedness and atypical speech lateralization.

## **Brain injury, handedness, and speech lateralization in a ...**

Abnormal brain lateralization has been implicated in schizophrenia in both structural (e.g., grey matter volume, cytoarchitecture and dendritic arborization, or in white-matter integrity) and functional measures (e.g., functional connectivity).

## **Functional brain lateralization in schizophrenia based on ...**

Recently, a growing body of data has revealed that beyond a dysfunction of connectivity among different brain areas in schizophrenia patients (SCZ), there is also an abnormal asymmetry of functional connectivity compared with healthy subjects. The loss of the cerebral torque and the abnormalities of gyrification, with an increased or more complex cortical folding in the right hemisphere may ...

## **Abnormal Asymmetry of Brain Connectivity in Schizophrenia**

Cerebral lateralization is a fundamental property of the human brain and a marker of successful development. Here we provide evidence that multiple mechanisms control asymmetry for distinct brain systems. Using intrinsic activity to measure asymmetry in 300 adults, we mapped the most strongly lateralized brain regions.

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