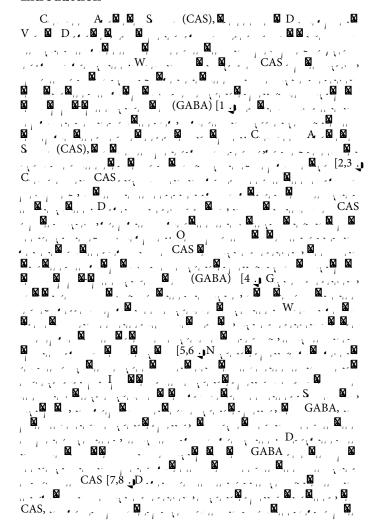


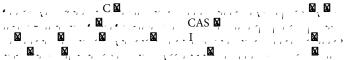
Examining the Relationship Between Gluten Sensitivity and Alterations in Plasma Levels of Glutamate and Gamma-Aminobutyric Acid in Childhood Apraxia of Speech

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Childhood Apraxia of Speech (CAS), a motor speech disorder characterized by dif culty planning and coordinating speech movements, presents a complex challenge for clinicians and researchers alike. Recent investigations have suggested a potential link between CAS and gluten sensitivity, as well as alterations in plasma levels of neurotransmitters diagnostic approaches and informing targeted interventions to improve outcomes for individuals with CAS. However, significant gaps and challenges persist, underscoring the need for continued research to unravel the complexities of this relationship and translate findings into clinical practice efectively.

Introduction





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01-March-2024, Manuscript No: jspt-24-131337; 04-March-2024, PreQC No. jspt-24-131337 (PQ); 18-March-2024, QC No- jspt-24-131337; 26-March-2024, Manuscript No. jspt-24-131337 (R); 31-March-2024, DOI: 10.4172/2472-5005.1000237

Angelina P (2024) Examining the Relationship Between Gluten Sensitivity and Alterations in Plasma Levels of Glutamate and Gamma-Aminobutyric Acid in Childhood Apraxia of Speech. J Speech Pathol Ther 9: 237.

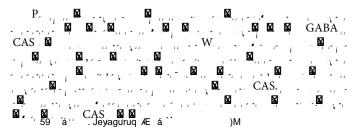
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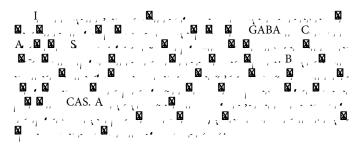
Neurotransmitters in focus: glutamate and gaba



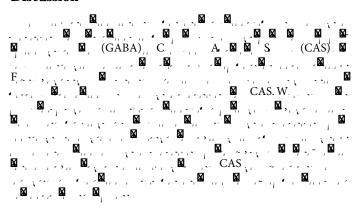
Research insights and clinical implications



Conclusion



Discussion



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