



Investigating the Occurrence of Genetic and Non-Genetic Language Disorders in Speech

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Abstract

The subject of language and speech can be studied from the perspective of various fields, such as biology. Biolinguistics is an interdisciplinary field that studies the biology and evolution of language and tries to find a cyclical function in the mind that enables us to understand the principles and foundations of language. The purpose of this research was to compare some genetic and non-genetic language disorders. The present research was conducted in a descriptive-analytical manner and tries to answer these two questions: 1. How does language genetics, which is a subset of biological linguistics, track defective genes in a range of genetic language disorders? And 2. What is the response of linguistics within the framework of Atkinson and Hilgard's theory for the treatment of non-genetic disorders and types of aphasia? To answer these questions, two books published based on the theories of Atkinson and Hilgard, entitled Introduction to Psychology (University Publishing Center, 2013), were reviewed, and aspects of language evolution and the genetics of speech disorders were discussed, along with significant advances and new studies in this field. In particular, one of the new studies was reviewed based on the latest research in the world for stuttering, namely the recently invented mental simulation method. In this method, by empowering the mind and harmonizing it with speech, the leading cause of stuttering is identified in the mind, thereby providing definitive, irreversible treatment for non-genetic disorders.

Keywords: Genetics, Biolinguistics, Stuttering, Aphasia, Speech disorders

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