Assessment of genetic mutations by the gene's 5-httlpr and slc6a4 and scc6a4 in the human depression

Abstract

In this study we have analyzed 300 people. 140 Human depression and 160 control group. The genes 5-HTTLPR and SLC6A4 and SCC6A4 analyzed in terms of genetic mutations made. In this study, people who have genetic mutations were targeted, with nervous disorders, Human depression. In fact, all people with Human depression, 114 people had a genetic mutation in the gene 5-HTTLPR. And 16 had a genetic mutation in SLC6A4 gene were a genetic mutation in the gene SCC6A4 and 10, respectively. Any genetic mutations in the target genes control group did not show.

Keywords: genetic study, cheating wives, mutation 5-httlpr, slc6a4, scc6a4 genes

Introduction

Today, the love of marriage, are very important factor for survival is good and healthy. Every person with a sense of love can be permanently have a healthy lifestyle and good. Every person with a sense of love, can be found in all the hardships of life, feel fortunate. Since the genotypes of the human personality in control, so the sense of love of gene, comply.1-3

Depression is a state of low mood and aversion to activity that can affect a person’s thoughts, behavior, feelings, and sense of well-being.1-3 People with a depressed mood can feel sad, anxious, empty, hopeless, helpless, worthless, guilty, irritable, angry4-6 and restless. They may lose interest in activities that were once pleasurable, experience loss of appetite or overeating, have problems concentrating, remembering details or making decisions, experience feelings of guilt, worthlessness, and diminished ability to think or speak.5 Depressed mood is a feature of some psychiatric syndromes such as major depressive disorder but it may also be a normal temporary reaction to life events such as bereavement, a symptom of some bodily ailments or a side effect of some drugs and medical treatments. A DSM diagnosis distinguishes an episode (or 'state') of depression from the habitual (or 'trait') depressive symptoms someone can experience as part of their personality.5

Materials and Methods

This study, 140 case with Human depression and 160 controls were analyzed studied. Peripheral blood samples from patients and parents with written permission control was prepared. After separation of serum, using Real Time-PCR technique of tRNA molecules was collected. To isolate 5HTTLPR1A erythrocytes were precipitated from hydroxethyl starch (HES) was used. At this stage, HES solution in ratio of 1 to 7 with the peripheral blood of cases and controls were mixed. After 90 minutes of incubation at room 37°C temperature, the supernatant was removed and centrifuged for 26min at 560 Gera. The cells sediment with PBS (phosphate buffered saline), pipetajh and slowly soluble carbohydrate ratio of 1 to 7 on ficole (Ficol) was poured in the 680G was centrifuged for 51 minutes. 5HTTLPR1A gene also are included, has a lower density than ficole and soon which they are based. The remaining erythrocyte has a molecular weight greater than fico lead deposited in test tubes.7-9

To determine the purity of 5-HTTLPR, SLC6A4, SCC6A4 cells are extracted, flow cytometric was used. For this purpose, approximately 6-8×10^6 5-HTTLPR, SLC6A4, SCC6A4 cells were transfer red to 1.7ml Eppendorf tube and then was centrifuged at 8°C, the cell mixture was passed from pillar LSMACS. Then the cells were washed with PBS and attached to the column LSMACSS pam Stem cell culture medium containing the transcription genes 5-HTTLPR, SLC6A4, SCC6A4 and were kept.10-13

Discussion and Conclusion

According to the results of sequencing the genome of cases with Human depression, and the genetic mutations 5-HTTLPR, SLC6A4, SCC6A4 genes found that about 89% of cases with Human depression, they have this genetic mutation. Cases with Human depression, unusual and frightening images in the process of Human depression, experience. Lot epigenetic factors involved in Human depression. But the most prominent factor to induce Human depression, mutations is 5-HTTLPR, SLC6A4, SCC6A4 genes. Despite the results of this study, but this cannot be documented for mutations to all human beings. Because epigenetic factors such as the life and thinking of every human being is different. The aim of this
study was to understand the causes of divorce and infidelity, men and women in life than to be together. Since the character of all human beings to control their genotype, so no more prominent factor of DNA molecules to investigate abnormal behaviors of people there. We hope other researchers in this important study do more to get the results they understand the similarities and differences (Figures 1-7).

Figure 1 Schematic view of co-existence with other genes SLC6A4 gene and its corresponding.

Figure 2 Schematic view of how the SLC6A4 and 5-HTTLPR gene effectiveness in different parts of the brain.

Figure 3 Schematic view of the pattern formed in the band gene 5-HTTLPR.

Figure 4 Schematic view of the diagram expression in gene 5-HTTLPR and SLC6A4.

Figure 5 Schematic diagram graphing the activity of BDNF and 5-HTTLPR and SLC6A4 genes depression and betrayal of marital life.
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Figure 6 Schematic view of the diagram graphing the expression of gene 5-HTTLPR polymorphisms in families studied and control group.

Figure 7 Schematic view of the nucleotide sequence of the gene 5-HTTLPR polymorphisms in families studied and control group.

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Conflict of interest

Author declares that there is no conflict of interest.

References


