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A Possible Mechanism on How the Human Being's Brain Works

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Abstract: *Based on the author's understanding about our universe and personal experience, a possible mechanism about how the human being's brain works is proposed. It is found that the cooperation between the two half brains of human being in the memory activity plays important role. It is concluded that if the cooperation between the two half brains stops or is blocked for some reasons, the person will lose his memory. This work offers a possible treatment for those patients in hospital who lose their memory by accident or just by aging of brain.*

Keywords: *human being's brain; neurons; memory; left half brain; right half brain;*

I. Introduction

Since the human being appears on the earth, to understand how the human being's brain works causes much attention from the researchers [1]. However, even though a lot of researchers continuously work in this field, to my knowledge, the mechanism about how the human being's brain works is still not elucidated clearly yet. The key obstructs for research in this field are: 1. The human being's brain is a complex system, the neurons in the brain are more than ten millions, not mention that each neuron includes more than ten millions cells; 2. No experimental method can be directly applied to get the information how each neuron is functioning, not mention each cell in neuron. This situation results from the fact that the researchers can't open the human being's brain to do experiment, the researchers only can do indirect experiment to get the indirect experimental data regarding how each group of neurons (notice: not one neuron) in the human being's brain response to the impulse or signal outside the human being's brain. These limitations keep the research about how the human being's brain is functioning at stage of guessing and reasoning.

Based on author's understanding of our universe [2, 3] and experience (see appendix), the human being is just immersed in electromagnetic universe. Here we will explore a different way to elucidate how the human being's brain works.

II. Discussion

In order to make our discussion easy, we use the Fig.1 as a simplified model of the human being's brain. Each small circle in the picture represents one neuron in the human being's brain.

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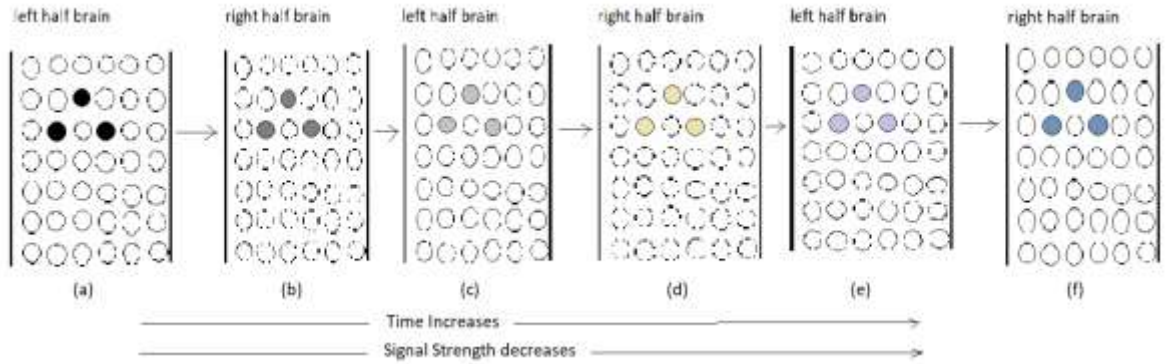

Fig.1. Illustration of the Structure of the Human being's Brain (in fact, the structure of the human being's brain is three dimensional, not two dimensional).

Two half brains of human being are working cooperatively. When the left half brain or right half brain get the electromagnetic signal or impulse, some neurons will be activated (see the black sphere in left half brain in Fig.1 (a)). At the same time, these activated neurons will make a sign onto its partner (here it is right half brain, See Fig.1 (b)). When the left half brain stops getting signal or impulse from outside, then the right half brain will reversely make the signature onto the left half brain (see Fig.1 (c)). This cycle will continue but the strength will become weaker and weaker until disappear. This process just looks like the electromagnetic wave continue reflecting between two mirrors, for each cycle of reflection, the strength of the electromagnetic wave will be reduced and until disappear completely (in fact, not "completely", just become very, very weak. The whole process can be illustrated in Fig.2).

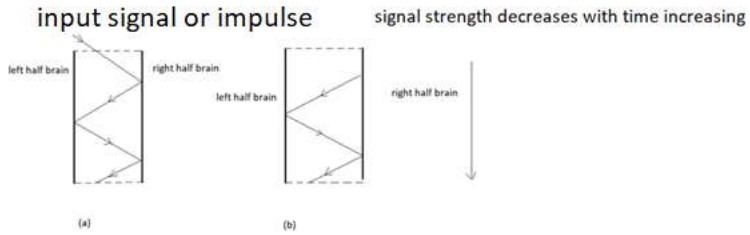

Fig.2 Simplified illustration of the signal passing between two half brains of human being

(a) There is inputting signal or impulse; (b) There is no inputting signal or impulse;

We believe, most of people have such kind of experience [4], that is, for some forgotten things, sometime later, it will be remembered, especially, when the brain gets the same or similar signal or impulse of electromagnetic wave, the brain will start a reckoning process, first the half brain will make a signature onto another half brain. If the signature matches the "old" signature, the brain will remember the "old" memory. Otherwise, the signature will make a new signature onto another half brain and the human being's brain will define the signature as a new memory. Sometime even no signal or impulse from outside the human being's brain, people still can remember the "old" thing, this situation is due to the signature left by the former signature or impulse is strong, therefore, the signature still sign each other between two half brains, just strength is reduced, not like at the beginning so strong, but still can be "remembered". This is the reason why in order to remember a thing or object, we have to take a look the thing or object again and again or repeatedly. For human being, they call this process as "familiar", or "very familiar".

As discussed in literature works [2, 3], our universe is full of electromagnetic wave. The human being is living in the electromagnetic ocean. This electromagnetic ocean exists as basic background "noise". In order to detect a tiny electromagnetic signal or impulse, the human being must keep extremely quiet for reducing the background "noise", just like reducing the electromagnetic ocean level, the small island ("signal" or "impulse") will show up from the electromagnetic ocean.

Each object in our universe will have their own electromagnetic wave's pattern or shape, the weakest one is coming from object itself radiation, the second weakest one is coming from the interaction between the object and its environment, such as reflection or refraction of electromagnetic wave [5]. The latter electromagnetic wave's pattern or shape is relatively easy to detect by the human being's brain but still need reducing the electromagnetic ocean level.

The mechanism proposed above offers a possibility that if we hope to prevent the recovering or remembering the picture or object from the human being's brain, we just need increasing the electromagnetic ocean level by increasing randomly electromagnetic wave background to suppress the functioning of two half brains of the human being or repeatedly to remove the signature marked in the human being's brain.

As the human being, the electromagnetic wave radiated from himself will be a little stronger than that of lifeless object, because the human being himself is a complex electromagnetic system, therefore, the human being can radiate stronger electromagnetic wave signal but the second kind of signal (from the interaction between the human being and his environment, such as reflection and refraction) is similar to the lifeless object.

In medicine case, some people can lose memory by accident or just by aging of brain. Based on our model above, it is due to the cooperation between the two half brains of human being is not smooth or totally blocked. That is why the half brain of human being can't find the signature left in other half brain, that is, the human being's brain can't identify it is new or old memory because the brain can't find its partner from other half brain. Therefore, they "lose" memory

III. Conclusion

From the discussion above, we can draw conclusion that the memory of human being's brain need the cooperation between two half brains of human being. If this cooperation between two half brains of human being stop or be blocked for some reasons, the human being will "lose" memory. This work here offers a possible working mechanism of human being's brain and may helpful in the treatment of patients who "lose" their memory.

Conflicts of Interest: The author declares no conflicts of interest regarding the publication of this paper.

IV. Reference

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V. Appendix

Case 1: In 1967, due to the cultural revolutionary movement, the society in city becomes disordered. For safety, my parents send me to the countryside to live together with my grandparents in village. Around July, summer time, it is very hot, almost all kids in the village are playing water in the river nearby the village. All kids are very happy to play in the water. I immersed my body in water and feel very comfortable to watch other kids playing around there but suddenly, no any reason, I feel unhappy and start to miss my elder brother. We have almost two years without seeing each other. I decide not playing water there and go back home. When I open the door, suddenly I see my elder brother just standing in the garden of my grandparent's house.

Both of us are very excited and happy. That day we talk each other a lot. But later I can`t understand why I have that feeling when I play water in the river nearby the village?

Case 2: In 1970, I enroll the middle school in our county. In middle school, teachers ask us to do eye exercise to protect our vision. One day in September, I get up in the morning and go out to do the eye exercise under a big tree in front of our house. After finishing eye exercise, I still close my eye and stand there quietly. Suddenly, in my brain appears a picture that a "cicada" staying on my front clothes. The picture stays in my brain for just a few second, and then disappears. I think it is illusion and don't take this situation seriously. After another few seconds, I open my eye and plan to go back home for breakfast but subconsciously, I take a look my front of clothes, the situation surprises me because I find a "cicada" exactly staying on my front clothes. I grasp the "cicada" in my hand and go home to have my breakfast for school. But I can't understand how this situation happens?

Case 3: In 2025, July, one-day midnight, I am in a state of half wakening up and half sleeping. Suddenly, in my brain appears a picture which is my car on the parking lot of my house but one tire is flattened (see Fig.1a). The situation lasts in my brain just for a few seconds. I don't take the case seriously and fall in deep sleeping state. Next day morning, I waken up and I don't pay special attention to the situation shown up in my brain in mid night yesterday and think it is just illusion. After my breakfast, I plan to serve my client and go to my car on the parking lot. Suddenly I find one tire of my car is flattened. The situation is exactly as the picture shows up in my brain in the mid night of yesterday. I am confused how this can happen?

For the above three cases, the common point is: in three situations, I am always in totally relaxed state, not only physically, but also spiritually.

Based on the above three cases, I try to understand how the human being's brain works and therefore, write this paper for other researchers in the field to share the result of my thinking.

Fig.1a The Car shows up in my brain that day midnight.