# Big Guess of lives–Neural network learning algorithm

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## Abstract

Every organ of the human body is a delicate and rigorous work of intelligence, which is spontaneous and not subject to the subjective control of the human body. Each organ include the brain, contains powerful intelligence. So where does intelligence come from? I suspect that intelligence comes from the way the neural networks between cells are organized.

## 1 Connections between cells

Cells are also organized through neural networks, but most cells are weakly connected and communicate less frequently with each other. For example, the cells of the hand, because the way of connection is very weak, and the outer skin needs to maintain a harder and more fixed structure, bones need to be supported, their intelligence is limited, but the touch is all over the body. The cranial nerves in the brain, which often need rapid vision, hearing, and vocalization, which require a great scale of intelligence, also continue to develop and adapt to have faster and more compact neural network connections, becoming an important center.

However, the internal surface area of the body's internal organs is very large, such as blood vessels, and the tactile feedback of blood vessels is less needed, and the perception of selection filtering is often a larger sense of touch - pain will be feedback, which is the sympathetic nerve to transmit the signal after selection filtering to the nerve center.

### 1.1 The inheritance of the reproductive system

Is there a neural network system in the body that controls the genetic material in the body, which is also learning to adapt to the body's environment and feedback, continuously learning and deciding which physical properties can be passed on to future generations and which can not be passed on to future generations, and which is also responsible for modifying gene fragments of genetic material?

This neural network system, like a scientist, based on previous experience and knowledge, decides how to combine genes, modify genes, mutate genes, and experiment in the reproductive organs over and over to produce germ cells. This system itself constitutes a set of neural networks.

In any case, the offspring in the final experiment will eventually be tested by the living environment. However, the experiments conducted by this neural network system are also more serious and rigorous, and they have certain principles. But the reasonable experiments here, in the final progeny, show small variation, basically little functional difference, can survive normally; Of course, there are some exceptions, and there are some failures in doing experiments prudently; Of course, there are neural network systems that are poor and always fail.

### 1.2 Fertilized egg to fetus

The process of the body organs developing from a fertilized egg into a fetus is a process of learning to adapt in the mother's womb, constantly dividing and changing cells, in the form of neural networks, learning to adapt to make up each organ tissue, and eventually becoming a fetus. The egg and uterus provide the environment for essential nutritional hormones and provide feedback.

The whole process from germ cell to fetus is a very delicate process. And the reproduction of plants, animals, etc., does rarely go wrong. This sophisticated process is the embodiment of intelligence.

### 1.3 Fast connections of the human brain

The cranial nerves in the brain, which often require rapid vision, hearing, and vocalization, are also constantly developing, learning and adapting to have faster and more compact neural network connections, becoming important centers.

Nowadays, the science and technology of human beings on the earth is developed, and the communication from the beginning to send signals by walking, very slow, behind the text, there are horses, there is paper, there are wired phones, there are wireless mobile phones, and the development of communication technology has brought a leap in the speed of information exchange, and human beings have become the brain of almost all creatures on the earth.

This is not in the past era, such as the age of dinosaurs, backward ape era, people's information exchange is tightly limited to a small local range. The large neural networks of the entire planet are weakly connected and have very poor intelligence. So now is the age of life's self-awareness, as opposed to the age of biological consciousness awakening.

In the future, if the transmission speed of computers far exceeds that of humans, and the efficiency of the connection scale is far greater than that of the whole human race, mankind will face great challenges.

### 1.4 Blood from different species cannot be exchanged

Because of the different environments and feedbacks that different species have learned to adapt to, after not a few hundred million years of change, they can no longer be used with each other, or only parts of the blood can be used interchangeably.

Life and its cells and tissues are constantly learning and will become more adaptive to the environment and feedback in the future.

### 1.5 Last

Why such a guess? Because Algorithms for constructing society organizations,and also for lives [1] believes that the most important thing about the human body is that it is nested with many neural networks, which are the intelligence that organizes life activities,and they are extremely adaptable.

## References

[1] Shuai Liu. Algorithms for constructing society organizations,and also for lives. 2023. https://mp.weixin.qq.com/s/ukdCdx0sXGUqKRD7gvQ3Qg.