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Probe into Reverse Operation of Apoptosis Gene

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ABSTRACT

Objective: The programmed death process of cells according to gene coding belongs to apoptotic natural extinction (PCD). The purpose of this study is to explore the phenomenon of "returning to old age and rejuvenating children" in the extreme anoxia, no nutrients and survival in the extreme environment of fish and earthworm. **Methods:** the adult earthworms were put into the sealed quartz sand or fine yellow sand plastic bottle with humidity of 35-40%70 ml and poured out 100-150 d, then put back into the natural environment (simulated natural plastic basin) and raised 100-150 d, to collect the experimental information. The same object can be observed repeatedly. **Results:** The earthworms which were closed in the little oxygen-free and nutrition-deficient vials were reduced by autophagy, and the rings and reproductive pores disappeared completely. When they were put back into the natural environment for two or three months, they were all restored to their original morphological structure. **Conclusion:** Most of the same subjects underwent 1-3 years of cyclic observation. The biological structure was adapted to the changing environment. It was helped by the resonance of many biota and complex stress factors.

1. Experimental Research

Information indicates that earthworms live for one year[1]. In order to confirm that a earthworm in the continuous circulation of 2012.4.30-2015.5.1 was kept in an "ecological basin" (a large plastic box), a total of 10 F of the same size were excavated$_1$Cercaria age, especially put into the ecological basin feeding. Only P generation of 3 and 5 F will be left until April 17,2016.26.17$_2$Children. The claim that earthworms live one year is verified. Experimental study of earthworm life cycle is shown in table 1.

2. Analysis and Discussion of Experimental Results

2.1 Analysis of Experimental Results

Through the above table information, we can see that most of the experimental subjects disappeared 36 months ago in the cycle time of the two habitats, and only a few individuals survived each cycle. Essential apoptotic genes result from the accumulation of genetic mutations and DNA replication errors during the rounds of cycling, mutual symbiosis, parasitism and microorganism species in the digestive tract of earthworm[2], the resonance frequency of the population community and the difference of metabolic factors. Analysis of major causes of death from tissue-cell level, hypoxia-inducible factor-1(hypoxia-inducible factor 1HIF-1)[3]decompensation function. The cell carries on the compensatory anaerobic respiration; the tissue cell autophagy, the anaerobic metabolism produces a large number of toxic substances, the PH drops rapidly causes the internal environment to be extremely disordered bcl-2(the inhibition apoptotic protein reduces), the

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Table 1. Experimental study of earthworm life cycle

Experimental time	Experimental Methods	Information extraction
h November.1.15	Field D20cmR2.5cm belt, bottle	
h 2018.3.1.9	Open the seal bottle	Two all in, life as before, D slightly reduced R reduced to 0.2 cm ring belt still left traces immediately put into plastic bottles.
h 2018.6.6.9	Open plastic bottles	The length of both reduced to 0.15 cm R. Immediately put into the "ecological basin ".
h 21.13.21	Digging ecological basins	If one disappeared, the other life recovered as DR first time, but the ring belt, reproductive hole did not regenerate. Immediately into the "ecological basin ".
h 2019.8.7.9.30	Digging ecological basins	Ring belt, reproductive hole milky white visible.
h 10.12	Wild take D20cmR2.5cm5 adult ,350 ML glass bottle three ,70 ML plastic bottle two.	
2019.2.15.15.33 h	Unsealing two devices	A large glass bottle disappeared two alive, plastic bottle saw two and long 2 cm fragments, different from the former is the ring basically disappeared. Because the DR and ring belt change little, immediately into the original environment.
20.19.4.27.10.30 h	Unsealing two devices	Plastic bottle two life such as initial DR sharp reduction R shrink to 0.1 cm, ring belt, reproductive hole completely disappeared. Put into the ecological basin 11 h on the same day. Large glass bottle only one form and plastic bottles are also put into the ecological basin.
h 2019.8.14.9	Digging ecological basins	A living D25cm, R0.25cm, ring belt, reproductive hole visible. Another developed apologetic D10cm, R0.15cm, ring band is obvious, reproductive hole is shallow.
2020.1.19.11.53 h	Natural selection of 5 adults D20-25cmR0.25cm 100 ml glass bottles 2 70 ml plastic bottles 3 each put 1 seal	
2020.5.16.12 h	Unsealing device	One of the glass bottles survived, and the ring band disappeared into the reproductive hole. Plastic bottles of 2 survivors DR were significantly reduced D5cm,R0.1cm. ring, reproductive holes disappeared. Immediately put three more into the ecological basin.
2020.8.16.8.20 h	Digging ecological basins	Only one is alive, the D15cm,R25cm, ring belt is not completely disappeared, the reproductive hole is shallow.

Most earthworm adults with fertility have ring bands and reproductive pores. Experimental sealing device, the experimental object after filling sand, solid, cover plastic film, tighten the cap coated with paraffin, placed indoors. The ecological basin is placed on the balcony. The D represents body length and R represents thickness.

ba ×(promotes the apoptotic protein increase)[4]Apoptotic genes accelerated along the DNA coding program. All organelles have changed their structure and lost their original function. The release of lysosomal enzymes due to lysosomal rupture leads to the death of lysosomal individuals. Mud bodies were common during the experiment.

2.2 The Production of Stress-Reverse Regulatory

The production of stress-reverse regulatory proteins drives the reverse movement of apoptotic genes: when oxygen in the sealing device is depleted by consumer metabolism, HIF-1 almost lost his function, Many microbial metabolic factors in the intestinal cavity of earthworms, Into the nucleus of the tissue through multiple channels, the excitation induces mutations in introns (invalid segments on the DNA chain) into exons (valid segments on the DNA chain); That is, invalid genes are mutated into effective genes (stress steering regulatory genes). the gene is rapidly transcribed into mRNA ► ribosomes ► translated into stress-steering regulatory proteins (YJZXT-Pr). Crook first discovered the apoptosis inhibitor protein IAP, from baculovirus Involved in this stress response, Also included I HIF-1, P16 a negative cell cycle regulator[5]At present ,8 anti-apoptotic factors have been found. Apoptosis suppressor gene (Ced) inhibits the issuance of apoptosis signal, closes the outer pore of mitochondria, and prevents the emergence of apoptosis factors such as cytochrome C, Smac. [6]. The whole process of the reverse operation of apoptotic genes, the comprehensive regulatory factors such as cytokines, some RNA or even some inorganic mineral element ions, are also actively involved in the mediation of the reverse operation of apoptotic genes.

At present, scientists know the trajectory of apoptotic genes. However, the reverse operation of apoptotic genes is rare. From the logic, dialectic principle, the whole nature has contradictions and opposites of unity principles; for example: up and down, high and low, before and af-

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ter, left and right, north and south, black and white, size, and so on! Since the apoptotic gene can run forward, it must also retreat retrograde. Then the reverse operation of apoptotic gene is also a protective reaction, and the instinct of seeking advantages and avoiding disadvantages belongs to biological instinct. We are common in life, in aviation, earthquake and other major disasters can survive by chance are often young children, because young children have strong vitality, high adaptability. This is also the result of natural selection. As shown below:

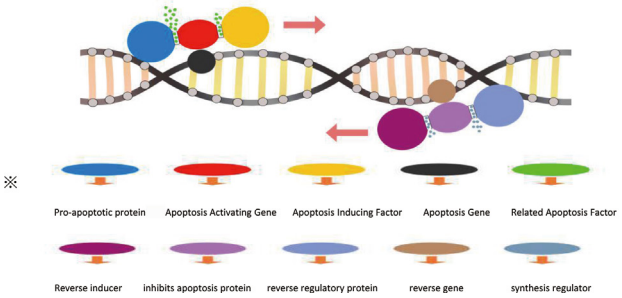

Figure 1. Result of natural selection

Why is the first signal to retrograde apoptotic genes derived from the metabolism or secretion of community organisms in the digestive tract of earthworms? Because when earthworms are sealed to "cut off food ", stop oxygen, at this time earthworms can not absorb the biological decomposition products from the intestinal cavity for the worm, can only rely on autophagy to maintain life. At this time, the product of the metabolic resonance with the host under the living conditions of parasitic and symbiotic organisms should be the comprehensive factor of the reverse operation of apoptosis. Because only the host "rejuvenation" they retain a limited living environment, in which the community organisms wait for the afterlife in the form of dormancy. This kind of special energy is also the result of long-term mutual adaptation and natural selection evolution.

2.3 Evidence of Reverse Movement of Apoptotic Genes

(a) earthworms

(b) the 2-3 month adult

(c) the 3-5 adult

(d) 3-5 month adult

Figure 2. Reverse Movement of Apoptotic Genes

Figure 2(a) is a worm that seals the worm after 3-4 or 5 months. Individuals are 3-7 times smaller than adult D, R reduced 2-3 times. ring band, reproductive pore completely disappeared. Figure 2(b) spent 2-3 months digging out an ecosystem, At 1.2 cm in front of the head, reproductive foramen is still not fully recovered. Figure 2(c) a well - developed adult, A large cylinder at the rear end of the head is its ring band. Figure 2(d) lower part of the map is inverted U the right corner of a small depression for reproductive holes.

Genes determine traits. The structure of the ring and reproductive pores of earthworms is controlled by the related structural genes. This structure under special environmental conditions, the regulation of various metabolic factors, apoptosis gene reverse operation, resulting in the loss of these structures, and when the living environment changed to the original natural conditions, Under the regulation of various genetic substances and metabolic factors, the original structure was restored and developed again.

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3. Conclusions and Prospects

3.1 Conclusions

Once nutrients and air are cut off, earthworms quickly stress HIF-1 and, in collaboration with biological stress metabolic factors in the gut community, induce DNA introns-invalid genes to mutate into exons-effective reverse apoptosis regulatory genes, guide transcription into reverse response regulatory proteins, and promote the conversion of certain nucleic acid fragments, amino acids and their derivatives, or even some inorganic elements in tissue cells.

3.2 Prospect

Based on the theory of disturbance effects of animals, cave organisms, frozen cold, drought, high temperature and other environments have evolved corresponding instinct —— dormancy. Cell metabolism is very slow. There is a species of Cam bandue living in the U.S .(Alabama) Shenta Cave (Shelta cava) that can still produce children at the age of 100 and has a life span of 175[7] Li Qingyuan, a traditional Chinese medicine scholar in the late Qing Dynasty and early Republic of China, lived 256 years. In the Ming Dynasty, there was a monk in Sichuan who lived more than 300 years and was received three times by Emperor Zhu Di. Chen Jun was born in 881 and died in 1324 at the age of 443. After four dynasties, his body shrank back into a baby at the age of 400[8] People who have suffered in their daily lives, or who have suffered from a chronic disease for many years, can live to be 100 years old. According to the principle of cytogenetics, the limit of human life is 5-7 times that of ontogeny (25 years old), that is ,125-175 years old. The general explanation is that Li Qingyuan introduced that he likes to drink Lycium barbarum tea for a long time; the senior monk is obviously due to the lack of desire, fresh air in the residence, meditation with luck, and maintaining a good state of mind. That Li Jun phenomenon can only be explained by the reverse operation of the apoptotic gene. There are also examples of scholars: in the environment with low level of economic development, people often live with slower apoptotic genes and longer life span[9] .Its essence should be caused by the interruption and reverse operation of apoptosis genes in important organs and tissues of human life. In addition, there are often news reports that people at home and abroad suffer from terminal illness, not to see a doctor but to sell property, couples driving around the world. A few years later, when he got home and went to the hospital, the miracle occurred, and all clinical symptoms disappeared. Who can say that it is not the reverse application of apoptotic genes!

In recent years, there have been a lot of media talk; because of the progress of life science, human beings can live forever in the future! Human tissue and organ factories can be established through molecular biology, genetic engineering, protein engineering, cell engineering principles and so on. Later, with age changes, parts can be replaced at any time (tissues and organs). Think that's still the modern concept of longevity? I think the desire for human health and longevity should learn from the top three ancient people. With the progress of science and technology, scientists will one day study the law of reverse operation of apoptotic genes and the regulation of drugs and comprehensive regulatory factors, with the aim of actively changing the trajectory of apoptotic genes. Control and change the metabolic characteristics of human physiology to keep youth alive.

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