

## Necessary Condition for Evolution

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Evolution of living organisms depends on information being passed from generation to generation. Without information transfer between generations of living organisms, evolution that we observe on Earth would not be possible.

In other words, the ability of living organisms to pass information from generation to generation is a necessary condition for evolution to take place.

Now let's consider the necessary condition for information to exist.

Information cannot exist without being encoded. Information encoding cannot be random, because randomly encoded information would not be retrievable. Encoding needs to be intelligent, systematic, coherent and durable.

So, the necessary condition for information to exist is its coherent encoding.

On the basis of the two necessary conditions defined above we can state with certainty, that the necessary condition for evolution to take place is existence of coherent information encoding.

Since we determined that evolution is impossible without information, the information encoding had to exist *prior* to the onset of any evolution, not just on Earth, but everywhere else in the Universe.

This raises a question: how did the information encoding appear?

One possibility is that a system of information processing and encoding existed prior to the onset of Life as we know it.

Could such a system appear by a random chance? Could such a system develop itself? Probability of each scenario above seems quite low. But which scenario is more probable?

### References

- [1] Chalko, T.J., Introduction to physics of consciousness, *NU Journal of Discovery* Vol 6, March 2009, <http://NUjournal.net>
- [2] Chalko T.J., Is Chance or Choice the essence of Nature?, *NU Journal of Discovery* Vol 2, March 2001, <http://NUjournal.net>