



## Remark on Neutrosophic Genetics: A generalized way towards five schemes of Mutation and Transmutation

Victor Christianto<sup>1</sup>\*

<sup>1</sup> Malang Institute of Agriculture (IPM), Malang – INDONESIA, email: victorchristianto@gmail.com

\*Corresponding author: victorchristianto@gmail.com

### Abstract

In a recent paper, Smarandache describes an extension to evolution theory by coming up with Neutrosophic Genetics. This short remark is intended as letter to editor of IJNS.

**Keywords:** Neutrosophic Logic, Neutrosophic Genetics, Mutation, Biological Transmutation, out of Africa hypothesis.

### 1. Introduction

It is known that Darwinian evolution theory has become a hallmark in biology field, chiefly based on premises such as natural selection and intraspecies and extraspecies mutations. In a recent paper, Smarandache describes an extension to evolution theory by coming up in 2020 with the Neutrosophic Genetics [1]. Neutrosophic Genetics is the study of genetics using neutrosophic logic, set, probability, statistics, measure and other neutrosophic tools and procedures. In his paper, based on the Neutrosophic Theory of Evolution {that includes degrees of Evolution, Neutrality (or Indeterminacy), and Involution} [11] that he proposed in 2017 – as extension of Darwin's Theory of Evolution, he shows the applicability of neutrosophy in genetics, and he presented within the frame of neutrosophic genetics the following concepts: neutrosophic mutation (which is an abrupt evolution, that can be any of positive/neutral/negative evolution), neutrosophic speciation, and neutrosophic coevolution.

While we appreciate new extension to evolution theory by Smarandache [1, 11], allow us to bring to reader's attention more basic facts beyond just slow changes called evolution.

### **Remark of Neutrosophic Genetics paper**

An extension of standard evolution theory is well welcomed. Nonetheless, allow us to bring to reader's attention some more facts, for instance: nature comes not only with slow changes (evolution), but also with rapid and sometimes abrupt changes, for instance earthquakes, avalanches, floods and other natural disasters like meteorites strike. Several observers have warned us that we are now undergoing the sixth extinction process. Unlike previous five extinctions in the past, the coming 6<sup>th</sup> extinction may be man made[4].

Furthermore, the idea of natural selection as the basic process of mutation has been challenged by Jaroslav Flegr and others. See his book [2].

And one more note, Darwin concluded that in the past history of human species must be migrating outward from Africa. Such a simplistic story can be challenged. Interested readers may wish to see Cremo & Thompson's book: *Forbidden Archaeology*[3].

Other possible challenge from evolutionary story of human species come from recent findings, which are quite shocking in Europe, namely the upright walking ape called *Danuvius Guggenmosi* found in Allgau, Bavaria. It is suspected that these findings are the ancestors of the German people. And if so it will break the general assumption that all humans come from Africa (*out of Africa hypothesis*).



Illustration 1. *Danuvius Guggenmosi* (source: [6])

What's interesting here, though, is that the new findings seem to suggest that it could be in ancient times, apes and humans lived side by side, or dinosaurs might be living alongside with human in the past (note: there are such figures in Cremo & Thompson's book).

More speculative slant of human history may involve ancient civilizations with higher culture in the past.

Is that true?

If it is true that there was an ancient civilization that was quite advanced, then it is possible that this has anything to do with theory presented by Stephen Oppenheimer: *Eden in the East?* [5]

#### **Towards five schemes of Mutation and Transmutation**

Moreover, allow us to give some more possible schemes of mutation and transmutation which were not mentioned in Smarandache's papers.

As our personal viewpoint, this author does not accept extra-species mutation, for instance an elephant cannot become horse, or vice versa. Because they are from different species. In the same way, an ape cannot become a human. However, intraspecies mutation is possible, like cross breeding between various types of orchid is possible.

What we would like to mention here are:

- Permanent mutation;
- Temporary/transient mutation such as in mycozyma (Beschamp). What this author means with temporary mutation is that often time certain cells mutate into another shape and then it can alter to yet another form. Beschamp's idea of microzymas has been recovered in various recent literatures. See for instance [7].
- Intraspecies mutation, can include improvement or defection of species;
- Sideway mutation, by infection or viruses;
- Transmutation of elements, such as biological transmutation. It is known that In the 1960s, Louis Kervran claimed to have conducted experiments and studies demonstrating violations of the law of conservation of mass by biological systems, according to which the amount of each chemical element is preserved in all chemical reactions [9][10].

## Conclusion

We hope that this short remark may be found useful to the readers in addition to the interesting papers by Smarandache, so we know that changes can happen both slowly and abruptly. It shall be clear that many things remain unknown, and many surprises can be expected in the field of biology.

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