

### Question of the day: „Quo vadit vitta terrae”?

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**Abstract.** Meditating on the future of life on Terra, in front of us, spontaneously appear very the same questions frequently: “What’s happening in our terrestrial biosphere? Why it does happen like this? What is to be done to protect life on Terra?, and finally, from all these questions to get to a more complex question, from a fundamental category: where does life on Terra? Also, studying the historical evolution of life on Terra, I think, unconditioned of course, we could divide it into 2 periods: the first period - from the beginning – till the appearance of *Homo*, and the second – from the appearance of *Homo* – till now, a period when under the influence of human factor in the biosphere have occurred a lot of changes, especially in reforming the trophic pyramid? Meanwhile, in our terrestrial biosphere there appeared parasitism which also implied itself in „use” of „trophic pyramid” and affected the health of terrestrial creatures, causing a lot of devastating epidemics. Thus, searching for methods of protection of life on Terra, beside the correction of made mistakes, we got the intention of creating a Regional Center for Combating Parasitic Pathologies.

**Key Words:** life on Terra, biosphere, trophic pyramid, parasitism, epidemics.

**Introduction.** In everyday life, spontaneously, against the humanity on Terra are produced the most different changes, which, in their turn put us in front of new and new problems. When meditating upon these, we find ourselves with new and new questions, through which, I think, the most frequent are: what does it happen in the terrestrial biosphere? why does it happen like this? why do we have to protect the life on Terra?, nearly have become rhetorical questions (Castravet 2011). Eventually, from all these questions a general one is highlighted the most, it is a much more complex one, of a strategic order, which does fit the category of fundamental problems and that is predicting in essence, oriented towards future – “where does the life on Terra go to?”

Otherwise, beginning with the first question concerning the appreciation of different events that take place in the terrestrial biosphere, first of all I think we must realize that the big majority of all “the happenings” both in the entire Universe, as well as in the biosphere (as all consists of matter, which is in a permanent movement and in different interrelations, beginning with the interrelation among the elementary particles of atoms, among the atoms themselves, among the living organisms, among the living organisms and the environment, among the plants, and so on), is a reflection of the consequences of different movements and interrelations in the Universe (Mihăilescu 2011). The interrelations from the most different organisms, especially the trophic relationships among the terrestrial organisms, have formed in the biosphere the trophic pyramid, which consists of multiple “elements” of the trophic chains, in other words, from which is built the “life carcass”, which, in principle, “is wearing” the meaning of life and the life on Terra itself, and which, under the influence of the most different factors, especially the human factor, there took place multiple changes and events, including the “reforming” of the structure of the trophic pyramid (Stamp 1965, Лемешев 1989).

While searching the answers to the second category of questions, which contributes at stating the causes that induce the appearance of the most various events, it is important to underline the factors and the concrete ways that interfere in the appearance of various changes and events, especially the negative ones, which cause problems. It is important to mention that such a negative factor are the contagious diseases, from “the time” of the appearance of parasitic forms of interrelations among the terrestrial organisms, a phenomenon that definitely involved itself in affecting the

trophic pyramid, inclusively the health of all the creatures of the entire biosphere, causing the multiple devastating epidemics throughout history.

In what concerns the third category of questions, the last ones force us upon the objective of solving the apparent problems, finding ourselves in an ever so enigmatic world, where we have to identify the peculiarities of the evolution and to forecast the future of the life on Terra.

**Material and Method.** The materials for the parasitological research, simultaneously with the ecological ones that were accumulated over about one half of century from the entire territory of the Republic of Moldova, beginning with the research of the parasitological situation of the livestock farms (both of the individual ones, as well as of the state ones). At the same time, during about 10 years, in collaboration with the scientists of the ABRO Virology Laboratory of the Institute of Epidemiology and Microbiology of the Ministry of Health, with the aim of emphasizing the diseases with natural focal length and the research of the general ecological situation of the Republic, we have undertaken multiple permanent expeditions in the midst of nature, going through the long and wide the territory of the Republic of Moldova in all the seasonal periods – in winter, in spring, in summer and in autumn, collecting and performing personally the parasitological autopsy of over 10 000 specimens of different mammals and wild birds, which belonged to 137 species from different systematic groups. I have prepared during the expeditions by myself (with my own hands) over 25 000 of total preparations – brain and blood smears and fingerprints of lungs, heart, liver, kidneys, spleen etc. Along the way I also made the parasitological research of about 3 000 patients from clinics, hospitals and various bodies from morgues, especially the ones which diagnosis remained not established and many thousands of various sick animals, which I have collected different materials, inclusively blood samples for immunobiological investigations.

In recent years I have made many research in nature, in the same localities, where I have been many years ago, when I had made research in these localities and I had stated obvious changes in the ecological situation within the territory. At this time I have prolonged the parasitological research of many sick animals and of various patients that were not established the diagnosis and that were pointed many species of parasites, many of which I had detected for the first time on the territory of the Republic of Moldova and I have even highlighted for scientific domain new species of parasites.

I have used many other methods in the original research. As, for example, are the diagnostic methods on the basis of clinical manifestations and especially, the immunobiological, epidemiological and necropsy methods, especially at those “patients” whose diagnosis was not established. In the original research the basic methods of general biology have never been absent: the observation, the comparison, the historical method and the experiment.

Using all these methods, I have obtained certain results that I was looking for combining into a certain scientific vision. All my hypothesis, conclusions and visions were compared with the already included data in the scientific circuit to realise the newness of my research.

**Results.** A big part of the most important results of the multiannual research will be exposed in details in the monograph “Theory of Parasitic Processes”, which, I hope will be edited in the nearest future.

In addition, meditating upon the scientific data obtained during above a half of a century, as well as from the latest research that I undertake, taking into consideration the negative phenomena which we discover daily from various communications and information of scientific nature, I have in my portfolio several research about parasitic processes, which try to give a personal answer of mine to the eternal question “Quo vadit vitta Terrae”.

**Discussions.** Starting from the results of the original investigations, I hope very much that the XXI<sup>st</sup> century will become the century of biology or at least the century of ecology. Otherwise, even from the beginning of the XX<sup>th</sup> century the scientists have proposed this century to be the century of biology, but unfortunately, the previous century has become the century of the atom.

Personally, meditating always on the problems of the existence of life on Terra, I have come to the vision that "the carcass" of life is the trophic pyramid, but the biosphere is the aura of life, which is very fragile and needs to be protected. The human has created more good things on Terra, some of which are absolutely phenomenal. But it is also true that he, being situated on the top of the trophic pyramid, has even changed the nature, making some species to disappear and using them as food till the last specimen, the others considering harmful has destroyed them physically. Thus, the human has destroyed many species, which in their interrelations with other species were living in natural biocenosis during the evolution. On the other hand, the internal parasites have destroyed many species. There have intervened many other factors on the way, which have brought the ecology to present situation.

**Conclusions.** I submit a proposal for the inauguration of a new section for the development of a large discussion on the topic: "where does the life on Terra go to"? In principle, this problem is addressed to the attention and meditation of the whole humanity and is oriented towards research and conclusions of perspective, because, the answer to this question is to be found altogether, resuming the accumulated knowledge of the whole scientific community. Therefore I urge all the scientists, inclusively the ecologists, to interfere with their information, findings and visions and together give an objective answer to the fundamental question: "how do we assure a future where life could prolong its evolution?"

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