

## Organic Matter and its Sources of Energy

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### ABSTRACT

The high-energy processes of the early universe led to the formation of matter, atoms and molecules in a scientific manner. And so simple organic compounds were also formed, which in the course of development developed into highly specialized systems. But along this path of development, the influence of the laws of nature was preserved, even though the effects of the exertion of influence can be assessed in different degrees. From the knowledge of biochemistry, the impression remains that the energetic conditions of the cell systems appear to be “quasi autonomous”. But that is not the case. The influence of natural forces, such as magnetism, is present in these biological systems and is of crucial importance. This is discussed, because energy is life.

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### Introduction

Energy is the power or ability of a particle or system to do work. And the processes of life are energy-intensive processes; Energy that must be created in the system of organic matter. The carrier of energy generation is the metabolism of all organisms. Metabolism refers to all biochemical processes in plant or animal organisms that are required to generate energy to maintain bodily functions and thus life.

Metabolic processes are primarily researched in biochemistry. However, they can also be interpreted physically as an exchange of free energy for order. Living beings increase their order and consume energy in the process. Entropy decreases in the organism and increases in the environment.

The provision of energy to maintain bodily functions must therefore be differentiated in two ways:

- The cellular dynamic process of the biochemical processes to provide high-energy connections for the stability of the cellular processes with regard to biochemical and cell-physiological processes.
- The energy absorption from free energy of the environment through the mutual influence that has resulted from the evolution of life processes and life in general.

It is therefore important to emphasize the physical conditions as the basis of life and life processes in order to make the fundamental meaning understandable. From the general point of view of medicine, but also of other branches of natural science, the importance of physical effects is underestimated or not considered.

### Discussion

The biochemical processes of the cell systems are fundamentally aimed at the formation of high-energy connections in order to enable the dynamic processes. From foreign substances that are supplied via food, the cell converts these substances from food-related basic substances into energy-rich substrates via reaction chains of biochemically defined cycles. This separation and conversion of substances are the characteristics of biochemical processes. These chemical processes thus form the basis for cell metabolism and the associated descriptive biochemical organizations of the cell and ultimately of the organisms in general.

These forms of energy generation have been clarified on the basis of extensive biochemical research and therefore form our understanding of life processes. Thus they form i.a. the basis of physiological considerations and interpretation and in particular also of pharmacological therapeutic decisions.

But this form of observation is only one side of the provision of energy for organic matter and life. As we know, life developed in evolutionary processes. This means nothing else than the environmental factors are involved and were one of the basics in relation to the forces of nature. One of these basic conditions is the earth's magnetic field. This raises the question of how this natural force affects organic matter?

The earth's magnetic field exerts a pulsating influence on organic matter with an intensity of 30-60 Micro-Tesla and a frequency of 7-10 Hertz and is in resonance with matter. This energy transfer is efficient if, according to the question presented, the oscillation frequency of the earth's magnetic field corresponds to that of the organic matter, that means, that both are in resonance. The terrestrial magnetic field induces an electronic ring current in the molecules. Depending on the direction of the ring currents, the

character of the magnetic field effect differs, so that a distinction is made between paramagnetism and diamagnetism. Due to their size, organic molecules are mainly subject to the definition of diamagnetism. The energetic effects relate to the character of the electrons. Angular momentum, the rotation of the electron around its own axis, is defined as spin. It is the quantum-mechanically describable property of elementary particles such as electrons.

The system of physically conditioned energy transfer to organic molecules occurs from the electromechanical radiation of the magnetic field as a product of amplitude and frequency. The energy is calculated according to the relationship  $E=h \cdot f$  as resonance energy (E energy, f frequency, h Planck's constant) with an effect on the molecules [1]. It leads to their molecular vibrations. The oscillating electromagnetic field thus induces oscillating electric dipole moments which are caused as a condition of resonance. This absorbs the energy of the system. This is how all molecular interactions are controlled [2].

It follows from the fact that the influence of the earth's magnetic field is an indispensable variable. The energetic influx is essential and indispensable for the functionality of the cell systems. In other words, the earth's magnetic field makes life possible, the loss means death.

In contrast to the natural effects of magnetism that cannot be influenced, the question arises as to the usability of these physical conditions [3-6]. And these result in physiotherapeutic measures that could be used more intensively with a better understanding of the connections. The example of the pulsating magnetic field resonance therapy shows the usability strikingly. Even if this therapy cannot be described as a causal treatment, it can be regarded as a supportive physiotherapeutic measure that has been scientifically established. These therapies are not replaced by pharmacological measures that influence the dynamic biochemistry of the cell. From an occidental point of view, therapeutic approaches of Chinese medicine appear in a special position of physiotherapeutic forms of treatment. Here, too, the focus is on energy. The focus is on absorbing energy through meditative exercises. An interpretation of the processes is undoubtedly difficult and can only be done in a quantum-mechanical and philosophical sense [5]. What is certain, however, is that an energy flow is achieved. And that can only be explained by reference to the resonance energy, although the meditative exercises also play a role in a metabolically induced increase in biochemically generated energy. The vegetative nervous system as an autonomously controlling system plays a mediating role. The meditative sedative influence on the vegetative system also affects the use of pulsating magnetic field resonance therapy, which should be carried out under the condition of mental relaxation. The stabilization of the life processes enables a balancing of the metabolism and the energetic conditions of both the environmental resonance energies and the biochemically synthesized energy potentials of the cell.

There is no doubt that the mainstream of scientific thought is centered in the biochemical pharmacological field. However, the natural sciences, especially physics, encourage an expanded way of thinking and the cognitive abilities of humans enable a broader view.

## Conclusion

The organic molecules and thus life as a whole are dependent on the laws of nature, which have an influence in the form of energy, control them in a targeted manner and thus regulate the cellular

processes in their diverse dynamic form. From a physical point of view, the energy supplied to them or the energy they generate themselves in these complex dynamic processes is the engine of life. As a result of evolutionary influences, energetic processes have become linked. And you have to be aware of this connection in order to be able to make targeted decisions. This opens up therapeutic decisions on a complex scale and strengthens the understanding of the processes and promotes their acceptance. In this way, research is closely linked to development and its implementation through the cognitive abilities that humans are given.

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