Photosynthesis in human beings as a natural food through the blue light

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Summary

In a previous article published in 2009, reference was made to blue therapy for the treatment of some diseases. In this work, emphasis is placed on feeding through this therapeutics and in the photo bioenergetics process that occurs at the cellular level. Likewise, hemoglobin is confirmed as a photosynthetic pigment comparable with chlorophyll in plants. Other applications that can generate this procedure are disclosed and it is promoted to investigate the occurrence of photosynthesis in other mammals.

Keywords: photosynthesis in humans / natural feeding / hemoglobin as photosynthetic pigment / bidirectional therapy.

Some time ago, reference was made to blue therapy as a resource for the successful treatment of certain diseases such as hypertensive crises, asthma attacks, sinus tachycardias and certain tumors, amongothers.¹Likewise, details had been given about the action of the permanent magnetic fields, capable of modifying the structure of the liquids that are ingested and of changing their surface tension. Accordingly, the magnetized water is able to dissolve atherosclerotic plaques of the arteries and vesicular lithiasis by the calcium they contain, in the same way that prevents the deposition of calcium in the arteries.²

In both contributions it was demonstrated that both cyanotherapy and liquid magnetization are bidirectional procedures, since both manifest themselves in a sense as a therapeutic resource and, on the other hand, as a preventive modality. The most recent example of "bidirectionality" appears in the pioneering work on stem cells by John B. Gurdon and Shinya Yamanaka, demonstrating that mature stem cells can be reprogrammed to become induced pluripotent stem cells. These works completely revolutionized the understanding of how organs are developed, a circumstance previously considered only in the sense of immature cells up to specialized ones, and that earned their authors the award of the Nobel Prize for Medicine 2012.^{3,4}

The existence of plasma membrane receptors coupled to the G protein is known, which are stimulated by some physical signals such as light, flavors and odors, as well as by substances such as adrenaline, histamine, dopamine and serotonin. There are also receptors in the eyes to capture light. Researchers Robert J. Lefkowitz and Brian K. Kobilka also won the Nobel Prize for Chemistry 2012, for their work demonstrating the existence and functioning of beta-adrenergic receptors and the specific moment in which a receptor of this type is activated by a hormone that sends a signal to the inside of the cell.^{5,6}

Most of the information that is received through the organ of vision is due to the photosynthetic receptors located in the retina. This statement is not new, since from the year 1604 the famous astronomer Johannes Kepler had already reached that conclusion.⁷

When talking about the photochemistry of vision, reference is being made to the phenomenon consisting of the penetration of light in the optical stick through its surface. In the optical stick there is a series of two-layer membrane discs containing rhodopsin.

This pigment is broken down into two components, namely retinol and opsin, and as a result of this photochemical reaction, excitation of the photoreceptors takes place and the nerve impulses are propagated by the optic nerve to the brain.^{7,8}

In all body cells, oxygen combines with the degradation products of carbohydrates, proteins and fats under the influence of various enzymes that control the kinetics of chemical reactions in the mitochondria that release the necessary energy. From there, the compound called adenosine triphosphate (ATP) is obtained, used by all cells for their intracellular.⁹

Among the characteristics of human hemoglobin is its ability to combine laxly and reversibly with oxygen and transport it to the cells.¹⁰It is also able to transport the blue light quanta of the retinal vessels of the eye to the cells, where activate the plasma membrane receptors and a process is produced in which ATP is obtained from the ADP. Hence, hemoglobin can be considered as a photosynthetic pigment, given its ability to absorb light and transform light energy into other types of energy through a photo-biological process. This statement can be demonstrated by means of the electronic paramagnetic resonance spectrometer, which is used for the study of photochemical processes and, in particular, of photosynthesis.¹¹

This new knowledge allows inferring its application to other activities that man performs. For example, in the agricultural work you can use the glasses of blue crystals, which favorably influence the achievement of greater productivity of those who dedicate themselves to it. The use of these glasses can make it possible to obtain better personal marks for high performance athletes, especially those who practice disciplines that require great physical efforts such as road cycling, marathon and swimming in the background, among others.

It has been shown that when this procedure is applied to patients with clinical symptoms of fatigue, muscle weakness and fatigue, these disappear in a few minutes, without interrupting their physical activity. It can also be applied as a complementary therapy to reduce the healing time in patients suffering from malignant tumors with metastases that are treated with oral potassium and low sodium diet.¹²

Doctors who provide assistance to their patients are accustomed to indicate different therapeutic modalities depending on the pathology or pathologies in each case and, sometimes, do not notice that the food may be able to cure by itself any disorder, disease or certain disorder. As, unfortunately, there is not yet a generalized culture in this sense, we must find a way for these professionals to change their mentality and come to understand and assimilate the scope of this knowledge and be ready to put it into practice. Since photosynthesis is part of the complementary diet, it must be taken into account in this context.

General Considerations

The disease is a process that occurs within the cell and this explains why the true cause of many disorders has not been determined. In a functional disorder, there is always behind a structural disorder. However, there is no explanation of what happens inside the cell or whether it has its origin in energy problems, particularly ATP deficiency, because it has not been possible to quantify its use by cells. The same happens in any industry that, if it does not receive energy, can not function properly. In the specific case of cells, one should ask:

Do all cells receive enough energy (ATP) to perform their functions?

Does it receive only a group of cells and others receive it in a more limited way or do not receive it? Is this energy uniform to all the organs of the arteries that irrigate it through the blood?

Therefore, it is possible that diseases can also occur due to the lack of energy necessary for the maintenance of cells, mainly if they do not have the ATP required to perform their functions. Hence the importance of photosynthesis in humans as a natural food through blue light and the need for its indication for all acquired diseases that affect man.

From this we can also derive the probability that this process will develop in other mammals and that the procedure addressed in this work will be applied to them, which can transcend, in a particular way, those accorded to the chemical, physical and veterinary.

Bibliographic References

- 1. Espinosa Álvarez RF, Montero García JL, Novoa Blanco JF. Fotosíntesis en seres humanos como mecanismo de acción de la cianoterapia. Cont Quim 2009;4(4):16-7.
- 2. Espinosa Álvarez RF, Novoa Blanco JF, Montero García JL. Uso de la ingestión de líquidos previamente magnetizados para la salud humana. Cont Quim 2009;4(3):21-2.
- 3. Gurdon JB. The egg and the nucleos: a battle for supremacy. Disponible en: http://www.nobelprize.org/ nobel_prizes/medicine/laureates/2012/gurdon-lecture.html [Date of consultation: 4 jan 2013]
- 4. Yamanaka S. Induction of pluripotency by defined factors. Available in: http://www.nobelprize. org/nobel_prizes/medicine/laureates/2012/yamanaka-lecture.html. [Date of consultation: 4 jan 2013]
- 5. Lefkowitz RJ A brief history of G-protein coupled receptors. Available in: http:///www.nobelprize. org/nobel_prizes /medicine/laureates/2012/lefkowitz-lecture.html.[Date of consultation: 4 jan 2013]
- Kobilka BK. The structural basis of G-protein coupled receptor signaling. Available in: htpp://www.nobelprize .org/nobel_prizes/medicine/laureates/2012/kobilka-lecture.html. [Date of consultation: 4 jan 2013]
- 7. Bogdánov K. El físico visita al biólogo. Moscú: Editorial MIR. P. 48-51.
- 8. Guyton AC, Hall JE. Tratado de Fisiología Médica T 3. España: Mc Graw Hill Interamericana 1996. p. 694.
- 9. Guyton AC, Hall JE. Tratado de Fisiología Médica T 3. España: Mc Graw Hill Interamericana 1996. p. 3 p. 23.
- 10. Guyton AC, Hall JE. Tratado de Fisiología Médica T 3. España: Mc Graw Hill Interamericana 1996. p. 558.
- 11. Remizov A. Radioespectroscopia. In: Física Médica y biológica. Moscu: Editorial MIR 1987. p. 591.
- 12. Espinosa Álvarez RF, Montero García JL, Novoa Blanco JF. Teoría celular físico-química del cáncer. Cont Quim 2008;3(3):16-18