

## Treatment of Diabetic Retinopathy with Medical Enhancement of The

## Unsuspected Intrinsic Property of Melanin to Dissociates the Water Molecule

Arturo Solís Herrera\*, María del Carmen Arias Esparza, Ruth I Solís Arias

Human Photosynthesis® Research Centre, Aguascalientes<sup>2000</sup>, México

\*Corresponding author: Ceena John, Human Photosynthesis® Research Centre. Aguascalientes 2000, México. comagua2000@yahoo.com

Received: April 03, 2021

Published: April 15, 2021

### Summary

Diabetic retinopathy is the leading cause of blindness between the ages of 15 and 65 worldwide. The incidence and prevalence have not changed in the last 70 years, which means that the treatments available are not working. Diabetic macular edema and proliferative diabetic retinopathy remain the leading causes of both moderate and severe vision loss in most developed countries. In most patients, retinopathy develops 10 to 15 years after diabetes has been diagnosed. Globally, 629 million persons are expected to have diabetes by 2045. The prevalence of diabetes has been increasing in both developing and developed countries.

Globally, from 1990 to 2010, visual impairment due to diabetic retinopathy increased by 64% and blindness by 27%. Known risk factors are relatively poor predictors of retinopathy development or progression, and genetic association studies have proved disappointing. Whether diabetic retinopathy begins as a vasculopathy or a neuropathy is not known.

So far, treatment of diabetic retinopathy constitutes a formidable challenge.

**Keywords:** Diabetes; Retinopathy; Hemorrhages; Retina; Photocoagulation

### Introduction

Thinning of the inner retinal layers precedes clinical evidence of diabetes-related vascular lesions, which is consistent with the observed fact that when energy decreases, in any system, the mass tends to disappear [ ]. Thereby, our body is not an exception. Especially since the human body's energy source is not glucose, but sunlight. The dogma prevalent to date states that in glucose, plants store the energy of the sun, but energy cannot be stored and on the other hand, if glucose were energy source, diabetics would fly.

Every way of life on earth depends on the light coming from the sun, but it needs to be transformed into a type of chemical energy that can be used by living organisms. The universal mechanism we observe in nature is the dissociation of the water molecule. But to date it was wrongly believed that only the chlorophyll of the plants was able to carry out such separation. However, during a descriptive, observational study of the three main causes of blindness and their possible correlation with the blood vessels of optic nerve, we found that our body posed the unsuspected ability to dissociate the water molecule, like chlorophyll in plants. The study lasted twelve years (1990- 2002) and included 6000 patients [ ].

Our observation opens a new era in biology and therefore in medicine, as textbooks from both disciplines require re-writing.

Water Dissociation in Human Body as Source of Energy

Glucose is the universal precursor of any organic molecule in plants and animals, but it cannot provide the energy that its own metabolism requires. The deeply rooted dogma about glucose as source of energy and biomass at the same time, now is broken in thousands of pieces. Our finding of the intrinsic property of melanin to dissociate the water molecule [ ], like plants, marks a before and after in Biology and therefore in Medicine.

Current biochemistry is 95 % theoretical because it trying to explain an inexistent double role of glucose. Biomass and energy are always together but have enough differences that make impossible the sacrosanct role of glucose as source of energy. The very first step in transduction of sunshine to chemical energy is astonishing accurate dissociation of water molecule as follows:



Water is a unique example in Nature of liquid composes by two gases at room temperature. The separation of water molecule in the laboratory requires heat to 2000°C. Chlorophyll is extremely sensitive to toxic action of oxygen, thereby is expelled to atmosphere. Le Courvoisier in Paris, and Priestley in London proposed the idea that glucose is combined with oxygen, inside the cells, to get energy. After almost 300 years, this dogma has been dominant.

In regards our research, we found that melanin is the equivalent in humans to chlorophyll in plants. Both molecules can dissociate the water molecule. But melanin is thousand times

more efficient. The water dissociation inside melanin can be described as follows:



The reaction product with real value is molecular Hydrogen, due to its energy carrier per excellence in the Universe. Inside melanin, the presence of the toxic oxygen is tolerated, thereby the process is reversible, in chlorophyll is irreversible.

**Melanin as the Great Transducer**

It is particularly important for living things sunlight transformation into chemical energy. The water dissociation is the universal mechanism that nature uses at most. The eye is not exception, thereby, the biological role of the pigment epithelium of retina must be rethink (Figure 1).

The energy needs of the retinal photoreceptor layer are one of the highest in the body, as they are ten times more than the cerebral cortex. A little below the bone marrow, which produces between 2 and 3 million blood cells per second [ ]. And both tissues share the anatomical characteristic of not possessing any blood vessels, under normal conditions.

**The Theoretical Basis of the Body's Functioning**

Since it was not even suspected that our body could dissociate the molecule from water, we can say that current therapeutic approaches are mostly wrong. But now that we can separate glucose from energy function and limit it to carbon chain source, therapeutic outcomes in our patients will certainly improve.

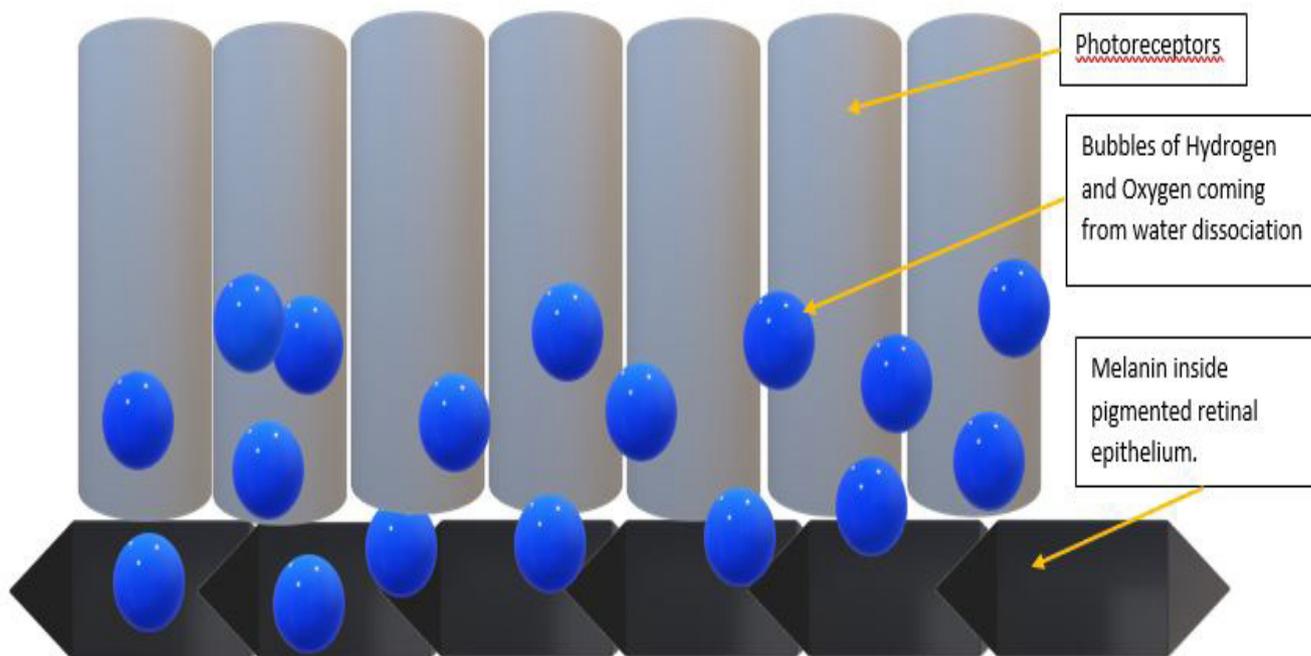


Figure 1: Diagram to show the source and flow of energy.

**Case Report**

Male patient in the sixth decade of life, with long-evolving diabetes mellitus, who already has mild to moderate proteinuria, and who had his lower left limb amputated for complications of diabetes.

The patient came with us for vision problems despite cataract surgery and laser photocoagulation on several occasions. On the date of the first exam (03/20/2020), the following photographs were taken: (Figure 2,3)

Once the legal requirements were met and informed consent was signed, treatment with QIAPI 1®, sublingual drops at the dose of three drops every two hours during the day was initiated.

A month later (09/04/2020), the patient returned to control and the following photographs were taken: (Figure 4-7).

The patient lives several hours away by car, so the next appointment was a year later. The photographs were as follows. (Figure 8-11).

**Discussion**

The physiology of the retina changes if we consider that our body takes energy from light by dissociating water, such as plants. By restoring water dissociation levels, which are depauperated with environmental pollution, the response of the tissues is substantive. The patient that we describe in this report, it is a usual case, it is not an exceptional case, our patients improve significantly [ ], not only of the eye problems but of the whole body, since the dissociation of water is the fundamental way to obtain energy from the sun of the whole organism.

In this patient, as in the vast majority, we see a decrease in sugar levels, so insulin requirements decrease noticeably (in half or less). So, usually, patients refer to improvement in their vision problems and other body discomfort such as paresthesia, cramps, diarrhea, pain, hypoglycemia, etc. What was to be expected because our body has handled glucose since the beginning of time, and it is not forgotten.

But the right supply of energy is critical for the body to function properly, just as it has since the beginning of time.



Figure 2: The photograph shows the status of the right eye's retina before our treatment.



Figure 3: The retina of the left eye prior to our treatment.

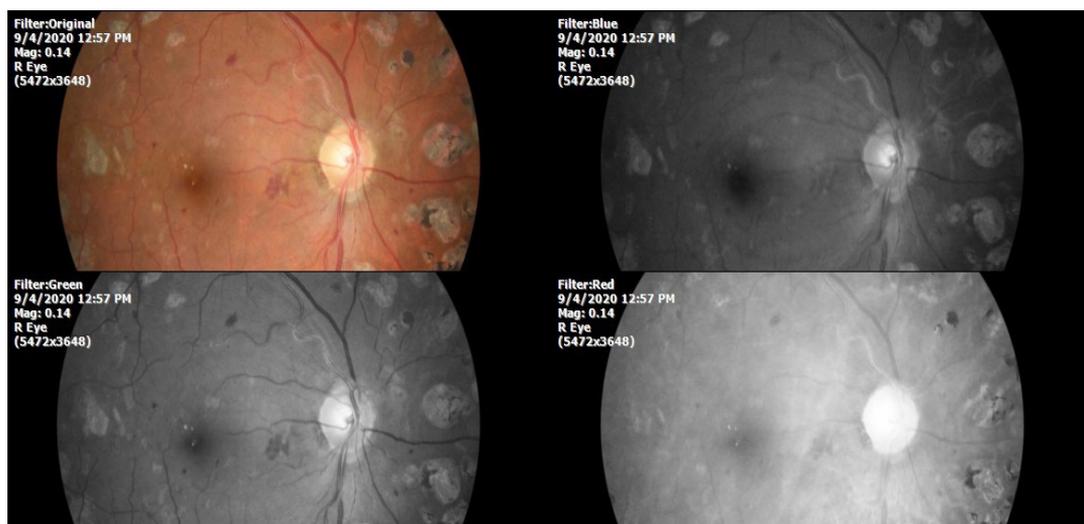


Figure 4: The retina of the right eye shows some positive changes with one month of treatment.



Figure 5: Retina of the right eye, the greater the magnification, one month of treatment.

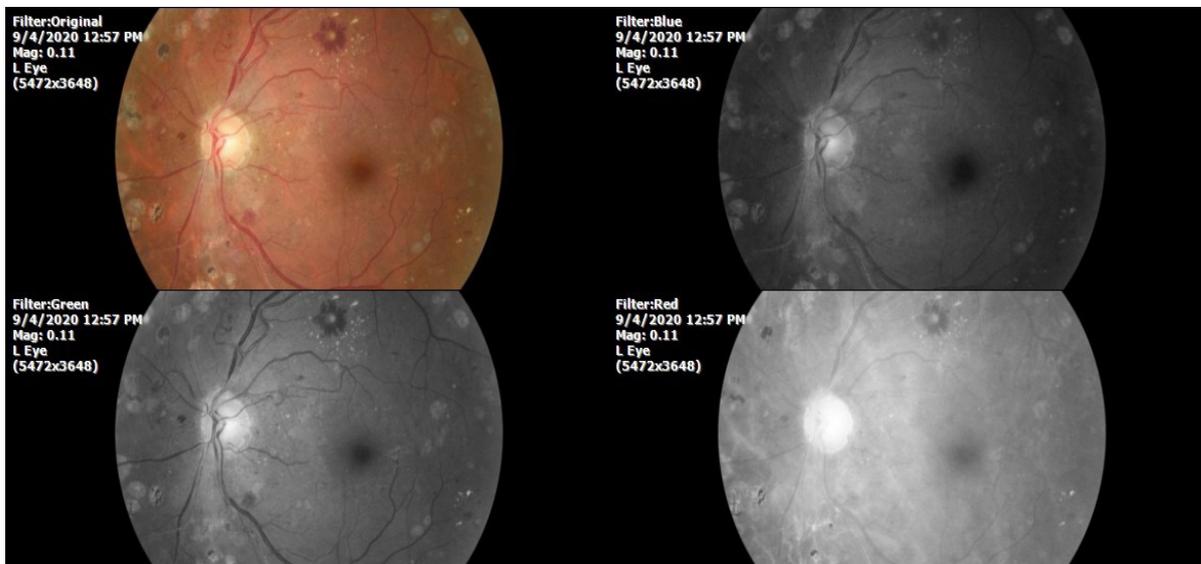


Figure 6: Retina of the left eye per month of treatment.

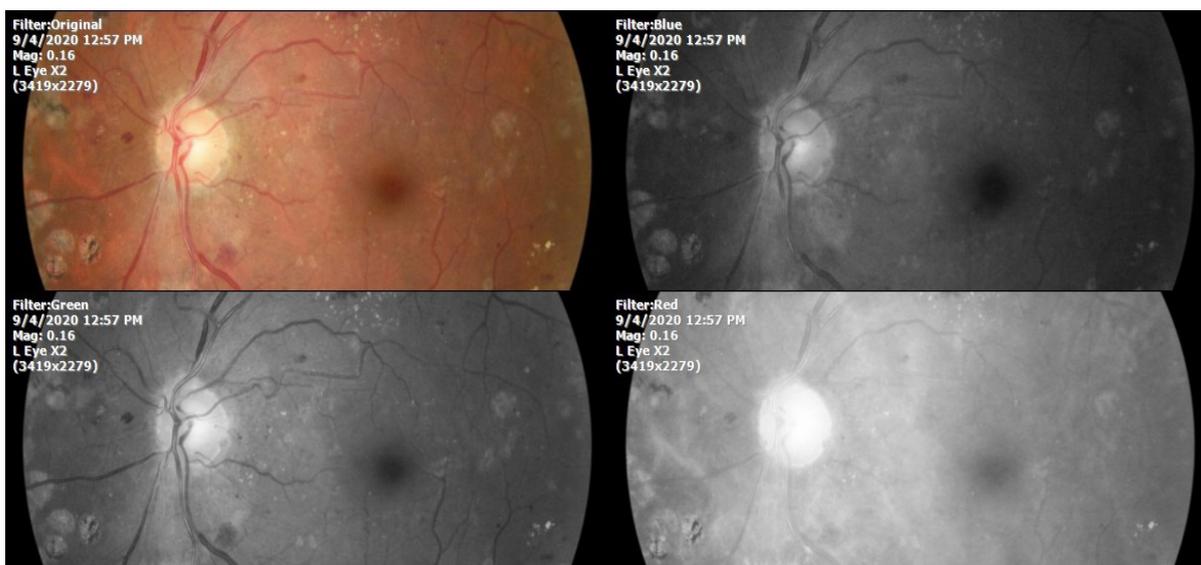


Figure 7: Retina of the left eye, greater magnification, per month of treatment.

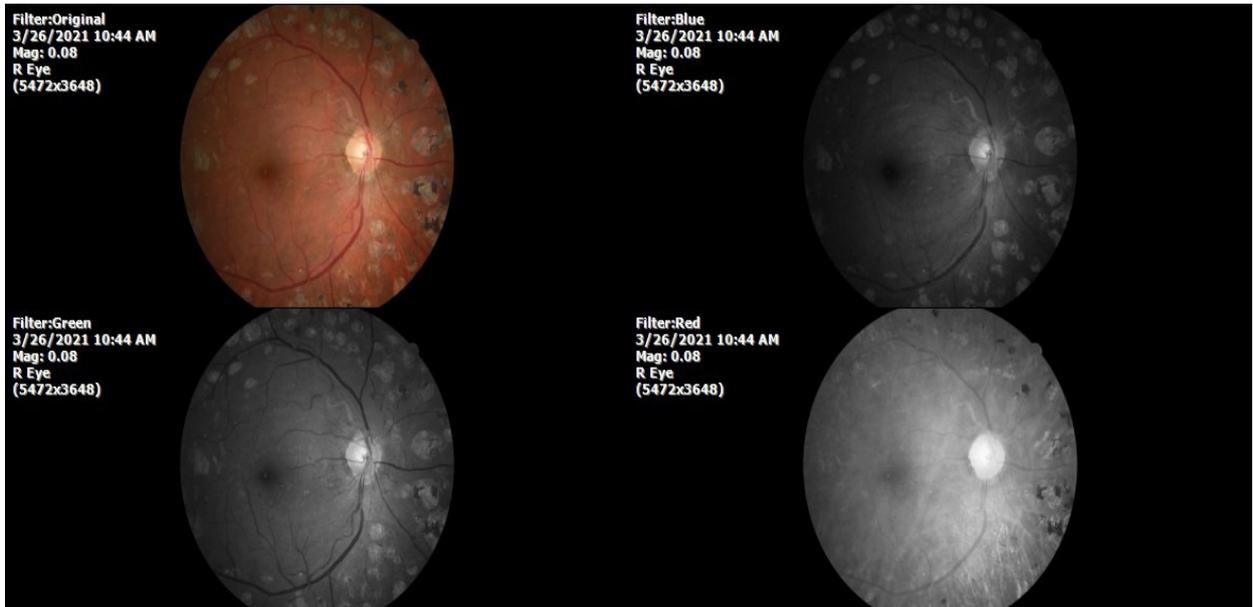


Figure 8: The retina of the right eye has continued to improve; the patient refers to better vision.



Figure 9: Retina of the right eye for greater magnification. One year of treatment.



Figure 10: Retina of the left eye, after one year of treatment. The patient refers to better vision.



Figure 11: Left eye retina for further magnification, after one year of treatment with QIAP1<sup>®</sup>, sublingual administration. We do not use laser; or intraocular injections.

## Conclusion

Nature makes all bodies without error, such is their righteousness, Chinese philosophers say. The body resembles a fractal system, which are extremely sensitive to the starting conditions, as well as iterative, as they constantly return to the origin [ ].

Environmental pollution has significantly changed the conditions under which the human body was created and subsequently evolved. The greater pollution of water [ ], air, and food, diseases become more common, more severe, more complex, involving more suffering. It is time to go back to the starting conditions, otherwise massive problems like the current COVID pandemic get more serious and frequent.

The development of new treatments based on new physiology that includes water dissociation, will make human medicine more efficient, less complicated, less expensive, less heroic. The usual deficit health budgets of all countries would also improve by making medical treatments more efficient. And in the realm of the environment, water care becomes more important than we think, because every way of life on earth depends on it in many ways, but we had not noticed its importance about energy.

We can and must strive to change the course of humanity as soon as possible, and the discovery of melanin's unsuspected intrinsic property of melanin to dissociating the water molecule represents the light at the end of the tunnel in today's dark landscape.

## Acknowledgement

This work was made possible by the unrestricted support of the Center for Human Photosynthesis<sup>®</sup> Studies, S.C.

## References

1. Jampol Lee M, Glassman Adam R, Sun Jennifer. Evaluation and Care of Patients with Diabetic Retinopathy. *N Engl J Med* 2020; 382: 1629-1637.
2. Herrera AS, Ashraf Ghulam, Esparza Maria CA, Tarasov Vadim V, Chubareb Vladimir N, Avila Rodríguez Marco, et al. Cerebrospinal Fluid, Brain Electrolytes Balance, and the Unsuspected Intrinsic Property of Melanin to Dissociate the Water Molecule. *CNS & Neurol Dis Drug Targets*. 2018; 17(10).
3. Herrera AS, Esparza Maria CA, Ashraf Ghulam, Zamyatin Jr Andrey A, Aliev Gjumrakch. Beyond Mitochondria, What Would be the Energy Source of the Cell? *CNS Agents in Med Chem*. 2015; 15: pp. 32-41.
4. Morrison SJ, Scadden DT. The bone marrow niche for haematopoietic stem cells. *Nature*. 2014 Jan 16;505(7483): 327-334.
5. Mackiewicz-Wysocka M, Araszkievicz A, Schlaffke J, Kuczynski S, Micek I, Zozulinska-Ziolkiewicz D. Lower melanin content in the skin of type 1 diabetic patients and the risk of microangiopathy. *Exp Clin Endocrinol Diabetes*. 2014; 122(4): 231-235.
6. Havlin S, Buldyrev SV, Goldberger AL, Mantegna RN, Osadnik SM, Peng CK, et al. Chaos Solitons Fractals. 1995; 6: 171-201.
7. Ji B, Zhao Y, Wei T, Kang PJ. Water science under the global epidemic of COVID-19: Bibliometric tracking on COVID-19 publication and further research needs. *Environ Chem Eng*. 2021; 9(4): 105357.