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### Towards a new paradigm in metabolism: The unsuspected intrinsic property of melanin to dissociate the water molecule

From several decades, the pathways by which living beings interact with the environment to get the energy that is required to boost all and each one of the chemical reactions that make up the living beings has been a mystery. The theory that prevails today is based on the glucose as source of energy for excellence in the eukaryote cell. However, this theory has significant contradictions that have not been yet resolved. The structure of the mitochondrial membrane supposes a strong discrepancy in the biochemical/biomechanical model of the electron flow which is impermeable to the passage of the NADH reduced by the extra-mitochondrial glycolysis. Furthermore, one still cannot explain the fact that every NADH donates two electrons, for instance, every O<sub>2</sub> molecule needs four electrons to generate water: 2H<sub>2</sub>O<sub>2</sub>. On the other hand, high levels of glucose in blood would be a protection factor in diseases characterized by low energy levels such as Alzheimer's disease, heart failure and cancer, wherein the cell presents significantly decreased levels of voltage, which depend on the available energy. Our discovery of an unsuspected inherent capacity of melanin absorbs visible and invisible light, dissipating the absorbed energy through the dissociation of the molecule of water, such as chlorophyll in plants; it will radically modify our concepts of cellular metabolism. The carbon atoms of glucose are the perfect building-block with which our body builds 99% of the biomolecules that make us up, but the energy necessary for the series of transformations is suffered by the carbon chains that glucose contains, our body gets energy from light, through the dissociation of water, as the plants.

### Biography

Arturo Solis Herrera has completed his graduation as Medicine Doctor from Institute Polytechnic Nacional, Mexico with the specialties in Ophthalmology from National University of Mexico and Neuro-Ophthalmology from INNN, Mexico. He has completed his Master of Science degree from University of Aguascalientes, Mexico and PhD in Pharmacology from Universidad de Guadalajara, Mexico. He is the Director and Founder of Human Photosynthesis® Research Center, Mexico.

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