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# Euro Dementia 2018: The future of dementia and Alzheimer's and the unexpected bioenergetic role of neuromelanin

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Dementia means a decline in power severe enough to interfere with existence. Alzheimer´s disease (AD) is that the most typical form of dementia. Mental functions frequently impaired are: memory, language and communication, attention, concentration, reasoning and judgment, interpretation of seeing. Usually symptoms start out slowly and gradually deteriorate. state of mind is usually one in every of the earliest symptoms of Alzheimer´s. Unfortunately, there's not a cure. So far, it's an error that the brain gets energy burning (oxidizing) glucose. However, among the contradictions inside that theory, we've got the very fact that glucose and oxygen aren't combined spontaneously within the blood or plasma, but until they're inside the cell, despite the mix of oxygen is abrupt and isn't easily controlled. The foregoing is simply a sample of the controversies which will be found in trying to elucidate the mechanisms by which glucose is that the source of energy. In fact, glucose is that the universal building block precursor, but cannot provide the energy that its own metabolism requires. Energy is also defined as everything that produces a change; our body and therefore the brain take it from the sunshine through the dissociation of the water molecule. The dissociation of the water molecule is performed by chlorophyll within the plants, and within the CNS the neuro melanin. Cognitive alterations in dementia and Alzheimer´s are extensive, which is congruent with the observed indisputable fact that in any system, when energy is that the problem, the fault is widespread. This explains that the depigmentation of the locus niger and also the locus coeruleus are a frequent finding in dementia and AD. Brain chemical reactions are surprisingly accurate, therefore the energy they require is surprisingly accurate, and it's precisely the way neuro melanin releases energy, within the style of H2 and high-energy electrons. Following the invention of the unsuspected property intrinsic of the melanin transforms the visible and invisible light into energy by means of the dissociation of the molecule of the water, because the chlorophyll in plants, old paradigms are breaking and appear new challenges.

Our purpose is getting down to decipher the operation of the cell supported the concept that actuality sources of energy of the eukaryote cell are the molecular hydrogen (H2)-gas- and also the electrons of high energy (e−) that continuously are formed inside the cell, because of the molecule of melanin, which decompose and reform the water incessantly and orderly.

It is necessary to switch our concepts about the functioning of the eukaryote cell separating glucose as a source of carbon chains with which our body synthesizes the 99% of biomolecules, and melanin as a source of energy. This is: glucose is that the universal precursor of any organic matter in our body, but cannot provide the energy that its own metabolism requires. the required energy to impel the highly complex intracell biochemical network is taken from visible and invisible light, through melanin's water dissociation, as chlorophyll in plants.

The challenge now's to know the functioning of the cell's metabolic pathways supported the energy that emanates from the melanin. It'll be an extended but interesting task because it changes completely the biology. To way of example, for this text, we are going to talk to the molecular logic of learning and memory, starting at the locus niger and locus coeruleus as main sources of energy of the Central system, making analogy within the way within which the eye-lens goes forming along the pre- and post-natal life.

The research about the plot of biochemical processes involved within the biology of learning and memory, all told its forms, has not considered the generation and distribution of energy needed to power all and every one amongst them in precision and accuracy happen normally.

Whether the energy of the glucose or the dissociation of water by the neuromelanin, within the work of research on the topic, published within the different scientific journals; different processes are usually mentioned, like synaptogenesis, neurogenesis; collateral sprouting, receptor adaptations, synaptic depression, facilitation, dendritic growth, intellectual function, dementia, amnesia, etc. But energy, defined as everything that produces a change, it's never mentioned. The very initiative of life, and thereby its origin, is explained by the unsuspected intrinsic property of melanin to remodel visible and invisible light into energy through the dissociation of the water molecule, as chlorophyll in plants.

It seems that researchers start from some process that they're interested, and hence build up theoretical scaffolding surrounded by an aureole of science and nil clinical results. We must detain mind that, in biology, nothing is sensible except considering evolution. Therefore, to review or experiment at some isolated a part of the entire, it's necessary to start out at the very beginning, which we now know is that the generation and distribution of energy by melanin. Otherwise, they're measuring in an exceedingly very precise way some prevalent bias, but the truth is much.

There are data within the literature for over 100 years pointing that light has a very important, even decisive effect in several biological processes, but apparently wasn't repaired in them or they were misinterpreted.

**Foot Note:** This work is partly presented at 11th International Conference on Alzheimer's Disease & Dementia May 24-25, 2018 at Vienna, Austria