

# Reactivation of biochemical memory: the case of pathway of Alcohol

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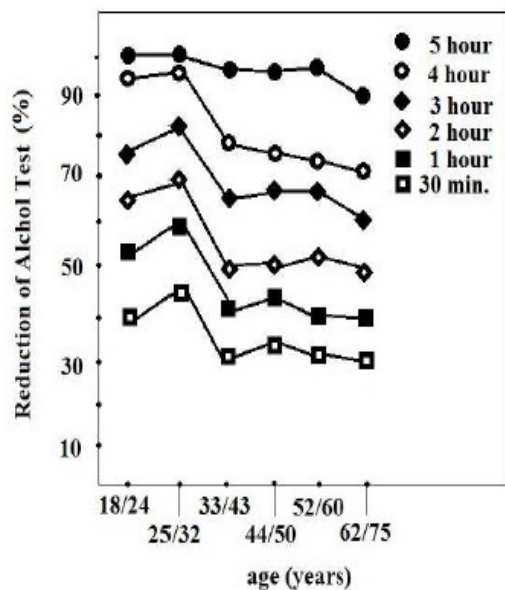
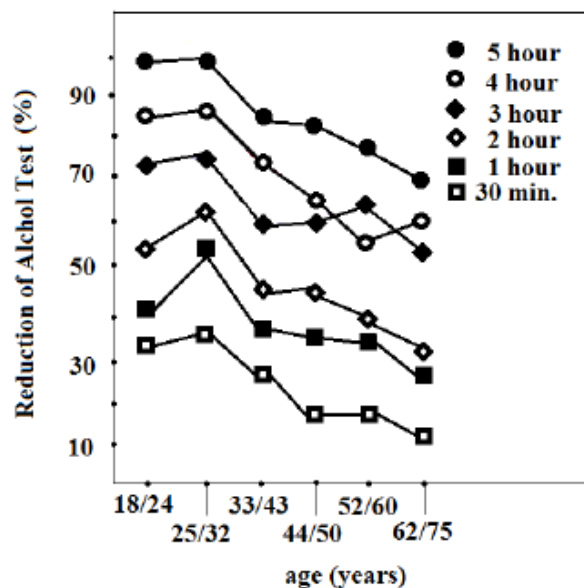
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## Abstract for COSMOS AND BIOSPHERE

We are aware that every crystal of water contains informations. Specifically, crystal geometry is the same information that crystallizes. It is well known in the literature that water has specific properties and Montagnier proposes it as a vector. In fact, his studies describe novel property of DNA. The capacity of some bacterial DNA sequences to induce electromagnetic waves at high aqueous dilutions [1]. It appears to be a resonance phenomenon triggered by the ambient electromagnetic background of very low frequency waves. As well as water has memory, also structure of the enzymatic substrates takes on specificity for the mitochondrial and cellular enzyme equivalents containing within them a definite biochemical memory. Recent developments in nutraceutical indicate new possibilities for correction of some dangerous "detours" human nutritional process. Seem to involved a series of memories biochemical that play a role in guiding the Krebs cycles of fats and urea. If only one of these memories loses its ability can cause damage. Recent computational biology studies are focusing attention on nature and role of biochemical memories ("memory switch" in Naren's chemical reaction space Ramakrishnan [2, 3] and Upinder S. Bhalla [4]). In fact, speaking of biochemistry, we must avoid confusing biochemical processes with classical chemical processes. The human body's biochemistry cannot ignore the activity of the enzymes and these determine the exact "spatial" conformation of the biological molecules that depends specifically on the type of bonds between atom and atom, but above all by the energy of these bonds and the distribution of charges External (electrons) in the molecule. Energy and type of bonds determine a precise three-dimensional structure that can not only have a specific enzyme (metabolic pathway) specific target, but these are the overall characteristics that allow an interaction between "substrate" and enzyme to determine in the latter an "adaptation" that is critical for the enzyme-catalyzed reaction. The term "key-lock" explains the encounter between the substrate and the enzyme, but it does not clarify why the reaction takes place. The concept of "adaptive capacity" allows to clarify how the enzymatic reaction takes place. Adaptation is, in summary, a spatial modification of the enzyme induced by the substrate-enzyme ratio, due to the binding energies that interact. The lack of "adaptation" allows us to understand, in large measure, how drugs act. While they have the same spatial structure of any substrate and may in turn encounter the enzyme, they do not, however, exhibit the same binding energy characteristics and are unable to "adapt" the enzyme structure, so there is a blockage of the enzymatic function, more or less reversible, resulting in interruption of the metabolic pathway. Adapting the enzyme structure around the biochemically specific and "correct" substrate is the key condition for consistent metabolic reactions. A new line of nutraceutica, seems to act on reactivating these memories with the goal to correct the anomalies affecting any of the homeostatic cycles. Citozeatec Inc. works to produce substrates containing correct biochemical information that can be recognized by enzymes and restore the correct metabolic pathways. A study of the metabolism of ethyl alcohol (in its various manifestations Dionysian and more deviated as reported by recent government reports) shows encouraging results by these supplements to orient the enzymatic activities as in the case of ethyl alcohol pushed toward the Krebs cycle and aerobic metabolism (Figure 1 and 2). Some tests were carried out where one of these supplements was recently with the ambition to save the drink of a good glass, preserving in the At the same time physical and mental lucidity. Interesting preliminary results indicate the efficacy of these biodynamic supplements to reduce prevention recommendation through proper feeding and reactivation of normal biochemical memories which is a new frontier of prevention and as a nutrition supplement in the treatment of many current pathologies. This nutritional supplement reduces also alcoholism and improve cenesthesia - that is, the sensory perception of well-being and malaise – and the performance status. From researches during Vinitaly [5], emerges that there may not be linear relationship between alcoholic strength and reaction capacity. In particular, it was observed as the tested supplement in addition to reducing the alcohol content - effect measured with precision instruments - results in a recovery of Cenesthesia and of Psychophysical Efficiency [6]. This important result has nothing to do miraculous, but appears to be linked to the ability of the integrator to activate alcohol dehydrogenases and aldehyde dehydrogenases enzymes that would easily convert ethyl alcohol to the aerobic metabolism with production of ATP, water and carbon dioxide [7, 8]. The mechanisms by which the integrator components would produce such enzymatic activation need to be more thorough, but reducing alcoholism and restoring of psycho-physical efficiency encourage further research at cellular level (in collaboration with international research centers) at the clinical level, just to be able continue to verify these results even in university and institutional settings. In other words, it emerges that the use of these biodynamic supplements could be a realistic solution to tontradiction between the pleasure of drinking a good glass with safety, efficiency and of course the thorny legal medical patrol case at risk. Further studies appear necessary to evaluate the enzymatic implications of metabolism foods and the corrective potential of

metabolism of this line of biodynamic supplements contributing to the preventive objectives set out in the above-mentioned EU.



## References

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