

## STUDY OF WATER-BASED ELECTRONIC-HOMEOPATHIC NOSODES

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Apart from traditional homeopathic copies prepared by the dilution/potentialization of parent substances, the electronic-homeopathic nosodes – preparations made by electronic-homeopathic copying the parent substance onto water with the help of M. Rae's or other (J. Benveniste) devices - have received a certain acceptance in some fields of complimentary medicine such as Electropunctural diagnostics, Applied Kinesiology in spite of a significant deficit of scientific data on their nature. The objective of the study is double blind estimation of biophysical differences between water-based electronic homeopathic nosodes (EHN) and blank water carrier. Two investigations were carried out.

The first one was connected to verification of biomedical effect of EHN with a biological model. 4 double blinded randomized trials for the estimation of influence of water-based EHN of organic fertilizer biohumus and placebo on growth and weight of tomato seedlings were handled. The electronic-homeopathic copying was carried out with "Simulator" (Metabolics Ltd, GB) apparatus. The tomato seeds were soaked in preparations then planted out in plastic boxes by 40-49 pieces. In the first experiment one box was separated in equal sections, in other experiments separate boxes were used. Equal exposition of plants to external conditions was achieved. The groups of plants were fed by preparations (200-300 ml) once a week. Duration of each experiment was 38 day. Nonparametric Mann-Whitney U-test and Wald-Wolfovitz runs test were used for statistical analysis. Significant distinctions in mass or/and growth of green part of plants fed by EHN and placebo were found in the last 3 experiments.

The second investigation was connected to determination of differences in EHN and hidden control (placebo) by means of absorption spectroscopy. During double blind randomized procedure 7 names of EHN and blank placebo were copied on ampoules with saline solution by means of «Simulator» (Metabolics Ltd, GB). There were 63 ampoules of nosodes (9 of each name) and 27 ampoules of the placebo. The absorption spectra were determined by UV – 2101 PC (Shimadzu, Japan) double-beam spectrometer in the band of 800 – 600 nm (increment of 0.5 nm). Nonparametric Mann-Whitney U-test was used for statistical analysis for each wavelength. Absorption spectra of five EHN names had narrowband regions marked by statistically-efficient ( $p < 0.05$  for at least two adjacent wavelengths) differences from placebo, in the band of 800 – 700 nm. Spectral differences of all EHN were represented by increase of absorption in the band of 702 – 743 nm, and decrease of absorption in the band of 779.5 – 790 nm re placebo.

Revealed distinctions between EHN and placebo points to the reality of the electronic-homeopathic copying phenomenon. This leaves no alternative than to suppose, agreeing with J. Benveniste, that water is able to “memorize” non-contact electronic actions. It does not seem anymore much incredible in the context of physics either (S. Lo, 1996; O. Ponomarev, 2000; S. Pershin, 2009). But how are the non-contact actions produced by M. Rae's apparatus capable of influence on water? Assuming that these actions are due to weak electromagnetic fields, the human body is a source of wide-band electromagnetic disturbances associated with the vital activity of cells and organs. Moreover, all this takes place against the background of magnetotelluric field, along with a field of permanent magnet set in M. Rae's apparatus placed beside the operator's body. Conceivably, the copied preparation interpreted as a certain passive resonator (Yu. Shaub, 1998) might modify the field of electromagnetic emission of the operator's organism or the interaction between this field and the aforesaid magnetic fields. In its turn this modified field is superimposed onto water. Thus EHN seems “commits to memory” not the self-field of preparation copied but an operator's response to the preparation. Hence there is well known operator's personality dependence of the prepared EHN effectiveness or experimenter effect of J. Benveniste's electronic preparations (J. Ives, 2006).