

Summary in short of the lecture held by Dr. Heinrich, LABO TECH in Bamberg on 29.01.2005

Symptoms of electro-sensitivity are very complex and they often correspond to symptoms which are known from CFS or MCS syndromes. In no previous study could be proved out any monocausal context between disruptive influence by electric field effects and symptoms of disease. Life-functions (including ill making influences) are regulated on different hierarchical levels. If you want to get an exact 'Cause-Symptom'-picture you must not mix the 'Cause-Effect' level.

Like in all cases of ill making influences, also when somebody suffers from electro-sensitivity, the subcellular level of regulation is implicated primarily by biophysical disruptive influences. The essential material basis for the regulation of life-functions are proteins: enzyme- and structure- proteins, ensuring metabolic turnover, substance transport, signal transfer and structure and warranting the essential basis for all organs integrity or organic functions. Proteins are regulated structurally and functionally in the thermodynamic system 'the living being' and that happens absolutely not linearly. All regulations (e.g. enzyme-activation/ inactivation, formation of the enzyme-substratum-complex and substratum splitting proceed off with their own different frequency (Enzyme-constant factor: enzyme-activation-substratum deposition-substratum splitting-enzyme inactivation etc.).

Therefore, the change from the keto- to enolstructure and restitution of ketostructure of peptidchain is the pre-condition for regulation of all protein-functions.

The antiradicalic protective enzymes (for permanent obligatory detoxication of radicals) and f.ex. the phosphodiesterases a.o. breaking down the biosignals intensifying or mediating messenger substances (e.g. cAMP, cGMP etc.) are characterized naturally by very high frequencies of activity in ranges from 10 MHz to 10 GHz (as to changes of electrical fields/ change of charge/ change of enzymatic activities).

Orders like those of magnitude aren't unusual for cellular phone frequencies, that's why resonance reactions, caused by radio frequency provoke electrosmog, are able to disturb essential enzyme-functions and lead to disregulations of life-functions. Permanently they bring about chronic damages of organs and caused by defective functions of antiradical detoxication it leads to damages of DNA, of metabolism and organ functions and results in further exacerbation of existing diseases or defects of functions.

The complex-serum-redox-difference-provocation-analysis has been developed as a diagnostic method in 1964-1984 at Rostock University. Now, the method has been applied/ used for more than 61.000 patients around the world. By the method disregulations of structural and/or functional activation-inactivation steps can be detected.

By that way the results permit to state or to assess the degree of damages on the molecular-biologic level and permit to derive recommendations for therapy.