

Electro-hyperthermia principle

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We suggested [1] a special superconducting-like mechanism to act in the life processes. The theory focuses on the ordered water- states [2] in extracellular aqueous electrolyte, having a primary role in every information exchange between the living units regardless on its complexity.

Considering the order-disorder phenomenon of the water-states and on the special dynamism of the symmetry-breaking processes we suggest to use not only the heat effects but the advantages offered by the presence of an electric-field during the treatments, (see table). This combination allows to monitor the living process, and gives a special selectivity to act. Due to this combined effect the effectivity of the hyperthermia can be increased and act directly to the regions which in the classical hyperthermia is targeted only with the combination of the ionising radiation [3]. Furthermore, the electro-effect allows to focus the energy loss of the external fields on to the cancerous vicinity, and stops the malignant processes by a multi-action effect [4].

References

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