

A coherent water state - Implications for self-regulation and restoration of biological structures and functions

Water is a dynamical non-linear open system with inherent capability to self-organize by influence from directed energies. An organized highly stable coherent structure of bulk liquid water forms on irradiation in the presence of low entropy sunlight at room temperature, characterized by persistent fractal long distance-attraction based on the self-organization ability.

Reduction in thermal IR emission tunes a significant decline in surface temperature and aligns structural conformity. A distinctive configurative coherent aqueous state reveals a fractal scaling relationship in temperature fluctuations that maintains a self-organized structural adaptation irrespective of ambient temperature. In coherent water, the fractal constitution reveals a tentative high aesthetic preference in the human perception of naturalness, resembling the fractal nature of real snowflakes, structural architecture of biological structures and restoration of human physiological and cognitive functions as well as the fact that mimic geometry of natural objects is part of water ordering.

Examples will be given how this coherent water state, denoted "functional water", has considerably and broad implications improving human health. Functional water may be a significant factor in self-regulation of homeostasis. Being an important component in adaptive physiological homeostasis it is associated with fractal heart rhythm dynamics, a rapid parasympathetic restorative response from the heart, stabilizing normal blood pressure, stimulating humoral immunity and relieving the sensations of tinnitus.

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