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Abstract

The role of the electromagnetic field in the self-organization of living matter and the effects of externally applied fields

Emilio del Giudice

It is shown that the ensemble of biochemical reactions acquires a space-time ordering by means of the close interplay between biomolecules and e.m. field, whose outcome is the emergence of a phase locking among the biocomponents governing through resonant interactions selective biochemical patterns. It is possible to interfere with these patterns by using suitable externally applied e.m. fields.