

Photonic Transduction of DNA Information in Living Cells

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We have previously reported the recording of electromagnetic signals (EMS) produced by aqueous dilutions of bacterial and viral DNAs. These recordings can be stored under a digitized form in lap top computers and sent via internet to distant recipient laboratories.

The original DNA sequences were retrieved from water nanostuctures induced by EMS by means of the ingredients of Polymerase Chain Reaction (PCR) using a thermo-resistant polymerase (TAQ).

We have now come to a new stage: instead of using PCR, we have exposed human living cells cultured in flasks to the amplified EMS of a bacterial DNA sequence.

After several days of exposure, we have found the specific bacterial DNA sequence in these cells.

At the same time, these cells of tumoral origin, are inhibited in their growth and finally die.

This indicates that such cells do possess the machinery to “read “ the message coming from the EMS and synthesize accordingly the foreign DNA.

Here we demonstrate a further step: that the latter process can be carried out by living cells in culture, indicating that these cells do possess the system to read the sequences from water nanostructures. Therefore this system does exist in nature.