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Review Article

Development and Validation of the Biofrequency Applied Technique MMT (Molecular Music Therapy), with Consequent Application on A Cohort of Patients with A Wide Spectrum of Clinical Pictures

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Introduction

Everything that surrounds us vibrates and consequently emits a form of frequency that is not audible to the naked ear, since it falls within the range of ELF (Extreme Low Frequencies) waves, but it is possible to record it with appropriate sensitive instruments [1]. We need to imagine cells, atoms, molecules and subatomic particles, as entities that are not static but in constant motion; the single cells, as unicellular entities or forming a part of a tissue, in their movements, cause the emission of waves in the extracellular medium. These waves propagate in space, rich in water and solutes [2], meeting other cells. the same is true for the molecules that make up the cellular entities and for the same atoms that constitute these molecules. If it is possible to record the frequency of Nuclear Magnetic Resonance (NMR) of atomic nuclei, why would it not be possible to perform the same and record the bio resonance frequency for molecules and for the cells themselves? The question we asked ourselves in our research project is: can these extremely low frequencies have an effect on cellular functionality and on the structural-functional nature of the cells themselves? Studies conducted in past years have shown how ELF waves have an effect in regulating cell function [3].

A French scholar, physicist and musician, Joel Sternheimer, in the 1970s, wondered how music influenced plant growth and noticed, in his research project of recording bio resonance frequencies, with very sensitive instruments, of the single amino acids and nucleotides, that the frequencies of such molecules were similar to those of the musical notes, with the variation of few Hertz. He therefore created computerized matrices of association Amino Acid-Musical Note and Nucleotide-Musical Note [4]. In short, it was possible to convert the Primary Structure of a polypeptide or a protein or a nucleotide sequence of a specific segment of DNA and/or RNA, in a sequence of musical notes. After doing this, he converted the amino acid sequences of vegetable proteins useful for growth into music and sent them, like sounds, onto the vegetables themselves. The results led to the conclusion that plants treated with musical sequences derived from molecules grew more luxuriantly than untreated plants.

Material and Methods

Encouraged by these results, we developed an artificial intelligence software, calling it SONGENPROT-SOLARIS, which implemented Joel Sternheimer's association matrices, with the variant, implemented directly within the software algorithm itself, that sound production occurred 30 Hz phase shift between the right headphone and the left headphone, of the system directly connected to the instrumentation, made by laptop Acer ASPIRE 7540 G and Plantronics headphones. This allowed to create the phenomenon of Binaural Tones, capable of inducing a specific brain activity. We have therefore assembled a cohort of patients with a broad spectrum of clinical pictures (in total, we currently have 97 volunteer patients) in order to treat them with the sound emission of molecules such as: Sirtuin-1 (fundamental protein for regulation and scavenging of the radical oxygen and nitrogen species and the modulation of the oncosuppressor function and Telomeres length), Telomeres (repetitive TTAGGG sequences to the terminal portions of the chromosome arms, by not coding nature) and TP-53 (one of the most important tumor suppressors).

We therefore called this technique MMT or Molecular Music Therapy. The procedure consisted in placing the patient lying on a self-propelled bed, connected to an apparatus of headphones, directly connected with the laptop equipped with the specific software SONGENPROT-SOLARIS. The main purpose of our research project is to demonstrate the possibility of inducing genetic expression without the help of canonical stimulation with transcription factors, but only through the use of sound waves and electromagnetic frequencies. If a patient had low values of Sirtuin-1, Telomeres and/or, TP-53, determined by BDORT, then he/she would be treated with the sound sequence corresponding to these specific molecules, translated into music with the help of our software. The sound sequence, corresponding to the molecule in question, would stimulate the expression of the molecule gene itself, as a sort of genetic therapy based on the exclusive use of sounds.

Results

Before and after the treatment with the sound emission of the three molecules mentioned above, the patient was tested, using a BDORT [5,6], patented by Yoshiaki Omura in 1993, and applied, with plasticized functional slides, in order to perform a quantitative analysis on the three molecules described above (Sirtuin-1, Telomeres and TP-53). At the end of the MMT treatment we realized that the values of the three molecules increased (Figure 1) and this happened in subsequent treatments for the same patient (intrapatient determination) and in different patients, for the same pathology and for different clinical pictures (interpatient determination).

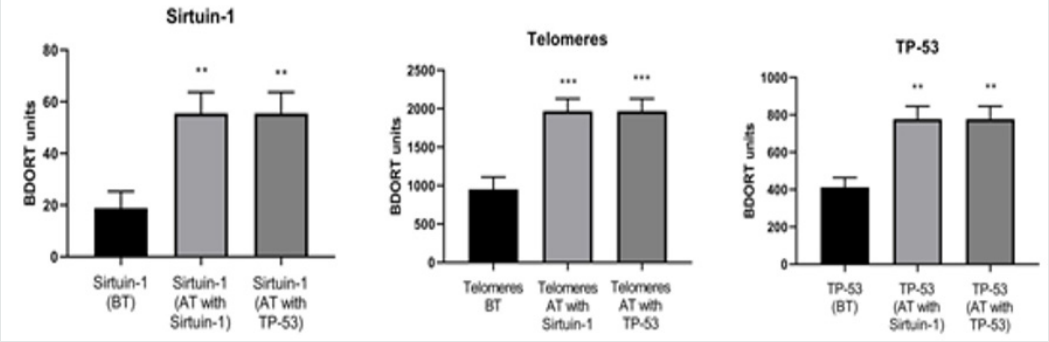

Figure 1: Summarized result of patients about three molecular parameters, detected Before Treatment (BT) and After Treatment (AT).

Discussion

The statistical re-elaboration of BDORT Test data, on the three molecular parameters determined before and after MMT treatment, was performed with Graph Pad Prism 8.0 statistical software. What we have obtained was a high degree of statistical correlation in the parameters measured after treatment (with $r < 0{,}002^{**}$ and $r < 0{,}001^{***}$). Through a series of treatments, the individual patients began to experience improvements at a psycho-physical level. Encouraged by these results, we decided to extend the research and perform epigenetic tests on patient blood samples, in order to confirm the results obtained with BDORT Test, on the three parameters taken into consideration (Sirtuin-1, Telomeres and TP-53). Epigenetic research will serve the dual purpose of confirming the validity of the MMT technique and the BDORT kinesiological technique.

Conclusion

Following the results obtained, and statistical significance of parameters after treatment, compared with parameters before of treatment, determined by BDORT technique, we can confirm that MMT represents a valid tool for therapeutic application, for the treatment of a wide spectrum of pathologies.

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