



Digital Information Transmitted by Scalar Waves Effects Biological Response in Yeast

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ABSTRACT

Scalar waves (longitudinal waves) seem to play an important role as a carrier for biological information. Previous investigation provided evidence for the assumption that analogue information can be brought to effect in a biological target by scalar wave transport [1,9,11]. In a series of experiments we obtained results pointing out that also digital information can be transported effectively to a biological target.

Key Words: Scalar waves - longitudinal waves - information transfer - digital information - adverse side effects - drugs

1. INTRODUCTION

Scalar waves represent a class of electromagnetics as described by the Laplace equation [5]. Tesla was the first to construct technical devices for the generation of scalar waves [13]. His machines were able to transport electrical energy and information (radio) as well. Tesla's results were excellent but merely empirically based. After his death, it took nearly half a century until a stringent physical and mathematical explanation for the scalar wave phenomenon could be established [4, 5, 6]. I.e. the *magnetic* aspect of scalar waves must be considered proven since the experimental detection of magnetic monopoles by Morris et al. [9].

Scalar waves, however, are not just a technical product. There is a lot of indirect evidence for naturally occurring scalar waves: e.g. smoke frizzling while rising in a complete windless surrounding or vortex like formations in a hurricane. Such phenomena must be attributed to potential vortices as elementary constituents of scalar waves [6].

Natural occurrence of scalar waves consolidates the assumption that scalar waves may be used by biological systems (cells) as a means of communication. Cells continuously generate an electric tension of +70 mV at the outer part of their membranes. This value converted to the SI unit V/m results in an enormous tension of 10^7 V/m. Thus, cells should easily be able to function as radio transmitters. From an evolutionary point of view, it is evident that, 600 million years ago, primitive multicellular organism completely lacked of modern communication means such as a nervous system, hormones, pheromones and so on. Their only means of communication must have been cell radio, and it is highly probable that this first communication method has been preserved evolutionarily up to our days.

Furthermore, there exists experimental evidence for scalar waves transporting information in biological systems: K.Meyl and H.Schnabl transferred the information of gibberillinic acid to peas which resulted in a statistically highly significant acceleration of the germination process [8]. Nobel laureate Luc Montagnier sent the mere information of an intact bacterial DNA chain to corresponding DNA primers and achieved a correct reconstitution up to a 75% level [10]. In a previous study, we could show that the analogue information transfer of clotrimazole is able to reduce yeast growth in a statistical significant manner [1].

These positive results encouraged us to study also the effects of *digital* information in our yeast model.

2. MATERIALS AND METHODS

2.1. Scalar Waves

Scalar wave fields were generated by Meyl's Experimental Scalar Wave Kit as described in [1].

2.2. Cultivation of Yeast and Growth Assessment of Yeast Colonies

50 mg of dry yeast were dissolved in 0.5 ml RPMI. Aliquots of the suspension were explanted on 2% glucose sabouraud agar plates. The size of the colonies (surface) was measured by a video microscope system as described in detail in [1]. Growth measurement was performed directly after implantation and after 48 hours.

2.3. Statistical Evaluation

Measured values were lined up in a spreadsheet. Mean values and standard errors were calculated. The results were subjected to a two-sided Student's t-test. The average values of the colony surfaces before incubation and scalar wave radiation (start) were converted to 100%, the further growth also being calculated as percent values. Each graph was calculated on a basis of 30 colonies (n 30, fd 58).

2.4. Controls

Uninformed distilled water, filled into identical bottles to those containing real information to be transferred to the yeast colonies, served as control.

2.5. Digital Information

Digital clotrimazole information:

This information was extracted from a nonlinear system analysis device for medical diagnostics and therapy (*Oberon Pathfinder*) [3] and transferred to water by an experimental scalar wave kit. The transfer was repeated three times, each time followed by an intense shaking process as described in [2]. This process is called „dynamisation“. In another series of experiments, the dynamisation procedure by hand was replaced by a technical device (BIOSCALAR 2000). This device is able to perform the dynamisation process mechanically and synchronously during the information transfer. The informed water was installed in the experimental scalar wave assay as described in [1] thus serving as a source of (digital) information for the yeast colonies during a 48 hours period of time.

Rife frequencies:

Royal Raymond Rife (1888-1971) was an American researcher and microbiologist who developed a series of frequencies resonant to a multitude of microorganisms. If a resonant frequency meets a microorganism the latter will be disintegrated [12]. The Rife frequency „Mold and Mycoses (Fungus Diseases)“ was directly taken from a personal computer via the acoustic exit and modulated upon the scalar wave field by the acoustic input of Meyl's experimental device during a 48 hours' time.

3. RESULTS

Controls:

Yeast colonies exposed to scalar waves modulated by empty information (distilled water) achieved a growth of 190% after 48 hours.

Transfer of clotrimazole digital information from OBERON to water, dynamisation by hand (Hahnemann), then from the informed water to yeast for 48 hours:

This procedure resulted in a growth of the yeast up to 157%. Yeast growth inhibition compared to the control (water) by this method is statistically significant (t 2,707, fd 58, p 0, 0118). (Fig. 1A)

Transfer of clotrimazole digital information from OBERON to water, dynamisation and synchronous scalar wave information transfer by the BIOSCALAR 2000 device, then from the informed water to yeast for 48 hours:

by this method, the growth of the yeast only reached 122%. This result compared to the control is statistically highly significant (t 4,877, fd 58, p 0, 0000156). (Fig. 1B)

Continuous transfer of Rife frequency „Mold and Mycoses (fungus disease) “directly into the scalar wave kit via the audio input for 48 hours:

This method also resulted in a statistically highly significant growth inhibition of the yeast to 124% (t 5,623, fd 58, p 0, 00000105). (Fig. 1C)

Figure 1 shows a synopsis of the results.

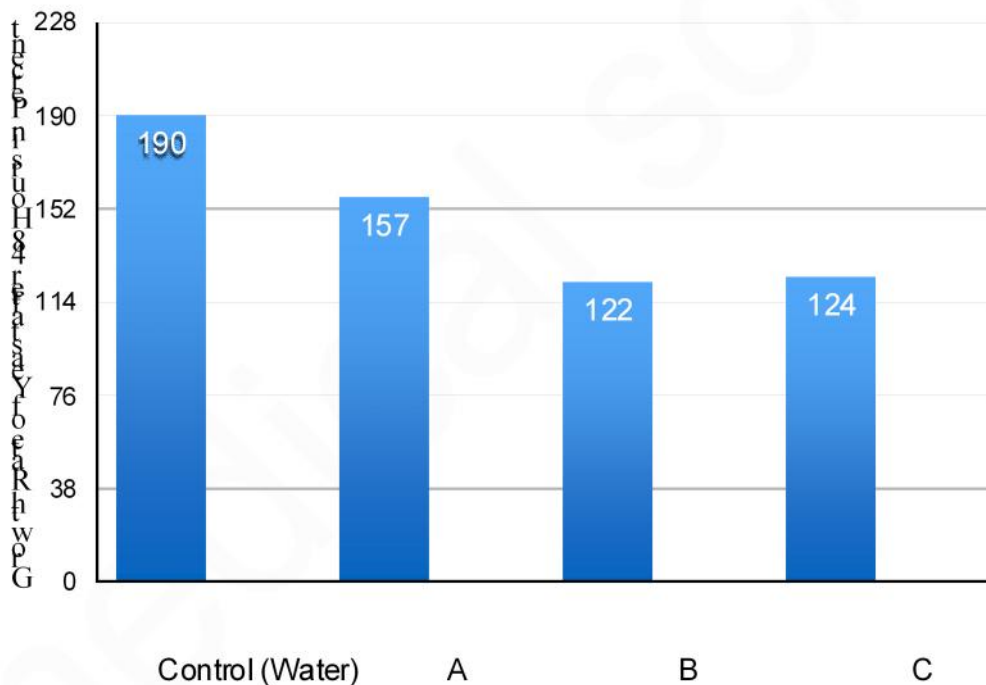


Figure 1

Growth rates of yeast in percent under the influence of different information carried by scalar waves. For details see text.

4. DISCUSSION

Our experiments provide strong evidence for the assumption that not only analogue information, but also digital information can be transferred by scalar waves to a biological target. Compared with our previous experiments [1] transferring analogue clotrimazol information to yeast, the digital clotrimazole information is even working better. This seems astonishing as analogue information is principally more complete than digital one. We do not know however, how complete some information at minimum must be to provoke a biological response. Apparently, biological systems are

ruled by fuzzy logic [14]. In a fuzzy logic system, even fragmentary information will be of relevance if contextual information will assist the fragmentary one. Any cell will have to deal with numerous different information at any moment. Thus, cells will define their actual status more by the context of a multitude of information than by a highly precise single one.

On the other hand, the conditions allowing information to induce a biochemical reaction at the target are also of importance. In analogy to Faraday's law of induction, Meyl has developed a model [7] that explains how an information carried by magnetic scalar waves induces a biochemical reaction at the target: benzene ring like structures are omnipresent in cells. They are e.g. part of the cholesterol molecule as constituent of the cell membrane or as purine/pyrimidine rings of the DNA or RNA. Even cell water attached to membranes is forming benzene ring like structures by electric charge transfer [11]. All these benzene ring like structures have free electrons in common, floating inside the ring. A modulated magnetic scalar wave will find its specific target according to the law of resonance passing orthogonally by a benzene ring like structure. Thus its free electrons are set in motion, inducing a micro current that serves as an energetic impact to induce a biochemical reaction. Eventually, the mobility of the whole system is crucial: the more rigid, the less probable that rings and magnetic scalar waves will find to each other. We therefore assume that digital information transfer by scalar waves increases the probability for an effective interaction of scalar wave and target by a higher fluidity compared with analogue signals derived from watery solutions. This concept is supported by the fact that up to now, we always failed to transfer analogue information from solid sources (e.g. tablets, capsules or pellets).

5. CONCLUSION

Digital information transfer may be useful for medical treatment. There will be lesser or even no adverse side effects as there is no need for the organism to metabolize a chemical substance. The pollution of the environment could be reduced as less metabolic waste products are excreted with urine and/or feces. Further experimental work on more complex organisms as e.g. mammalian is necessary to elucidate the question if digital information transfer could be a useful option for medical treatment in man.

SUMMARY OF RESEARCH

1. Scalar waves are a class of electromagnetics. They can be derived mathematically from the extended Maxwell equations and from the Laplace equation. They seem to be a ubiquitous natural phenomenon but can also be generated artificially. Scalar waves may play an important role in cell communication.
2. By means of a technically generated scalar wave field, information can be transported to biological target without any direct or chemical contact. The data presented in this paper suggest that even digital information is transmitted effectively.

FUTURE ISSUES

Further studies are necessary to show if scalar wave transmitted information will also be effective in complex biological organisms as man. If so, pharmacotherapy could be assisted by scalar wave information transfer. This could reduce adverse side effects, as chemical application of drugs could be decreased. The pollution of the environment could be diminished as fewer metabolic end products are released with urine and/or feces.

DISCLOSURE STATEMENT

Dr.Johannes A. Ebbers and Prof.Dr.ing.Konstantin Meyl declare that there is no actual or potential conflict of interest including any financial, personal or other relationship with other people or organizations that could inappropriately influence, or be perceived to influence, this work.

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