

## **It is our duty to know**

### **Part 4- end.**

Session nr 6 of 7 May 2023 – Original English.

Place : Mezza Verde in Belgium

Continuation of session nr 5 of 2023- part 2+3

## **THE WAVE GENOME**

### **Quantum holography of DNA.**

#### **FUTURE SCIENCE SOLARI REPORT-**

#### **ULRICKE GRANOGGER - august 2018**

[\(1581\) Future Science – The Wave Genome – Quantum Holography of DNA with Ulrike Granögger - YouTube](#)

### **PART 4**

#### **EXPERIMENTS TO SHIFT THE PARADIGM.**

Please consider with all that has been said before that this would imply and suggest at least two important aspects :

- 1) that the genetic information does not lie only in the individual chromosomes, within the nucleus of each cell but is also fractally distributed and realized by the complete **“chromosome continuum” or “quantum field of the whole organism”** – with each manifestation of the chromosome set being in communication with the oscillating holographic field of all other sets of chromosomes in each cell.



*OSCILLATING HOLOGRAPHIC FIELD CHROMOSOMES;*

You are not just a conglomerate of individual cells but yourself a standing wave form of acoustic and electromagnetic information that is quiet literally recreating, rebuilding itself continually from the vacuum.



Furthermore this chromosome continuum throughout the organism obviously does not only have a spatial extension, intercommunicating throughout the body and even beyond, but also

a temporal component communicating important sequences of information across generations of a specie type.



It is a lateral and longitudinal space-time-quantum-holographic process.

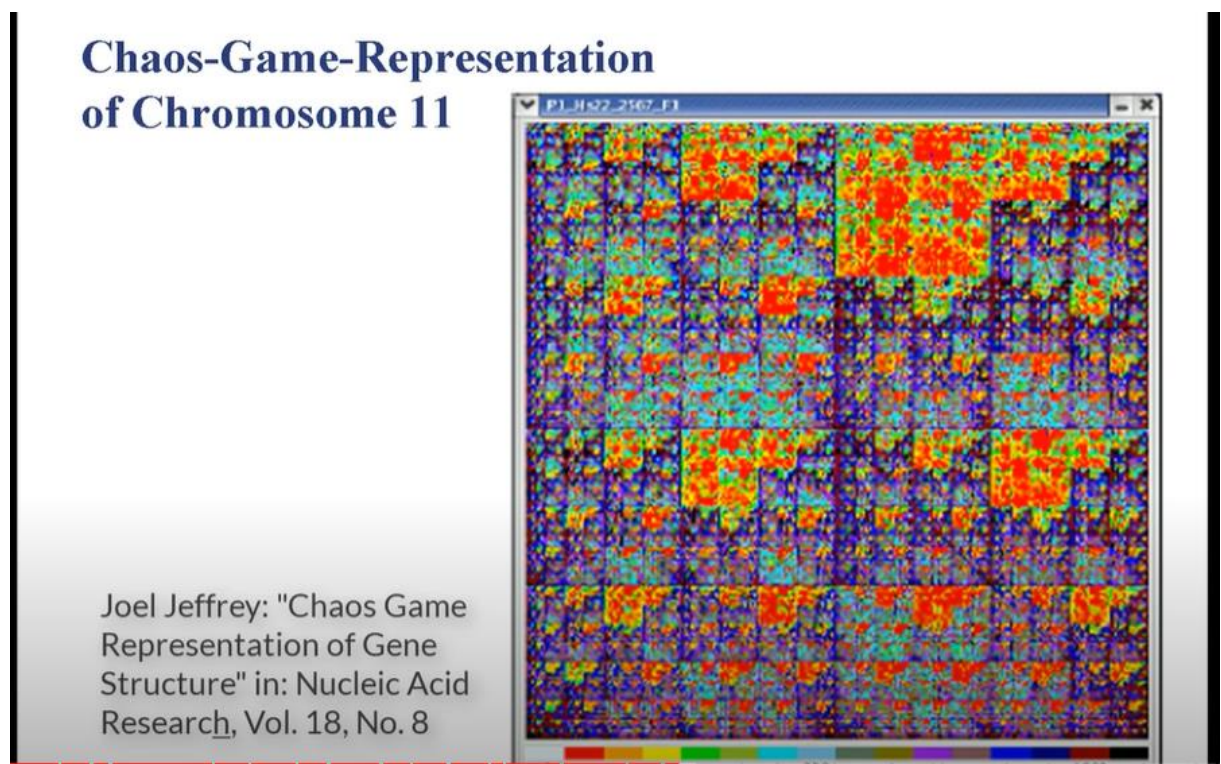


- 2) The results of the “phantom” DNA experiment imply and suggest that the code is not only contained in the coding genes but its enactment also requires the rest of the DNA, the 98% , its non-coding parts, so-called introns or ‘junk’ that do not have obvious functions but that provide the context for the expression of the gene texts in the cell.

In an article that I wrote in 2008 on exactly this topic, namely **“The Holography of the Genetic Code”** published in German in a book on “Global Scaling”, I pointed to the work of chaos game representation to visualize the order and pattern of DNA. There is very clear indication that the genetic code, DNA, is a fractal.

The “*chaos game representation*” of Joel Jeffrey and other researchers has shown that the sequence of nucleotides in the genome is not random or following the ‘Boltzmann constant’, but displays global patterns and long-range correlations that linear perspectives do not show. 56:55

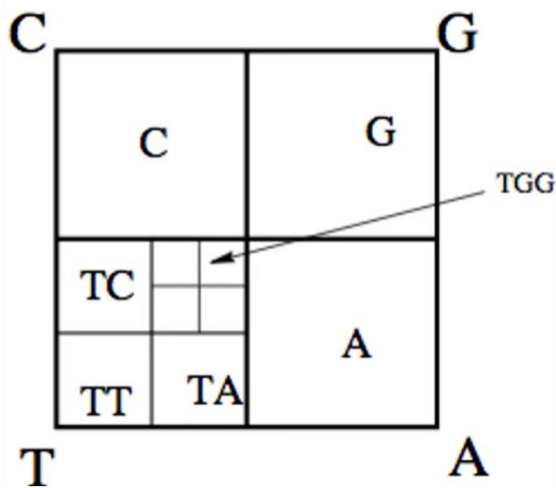
Here we see the **chaos-game** representation of a region of the human chromosome 11 which exhibits a characteristic fractal pattern.



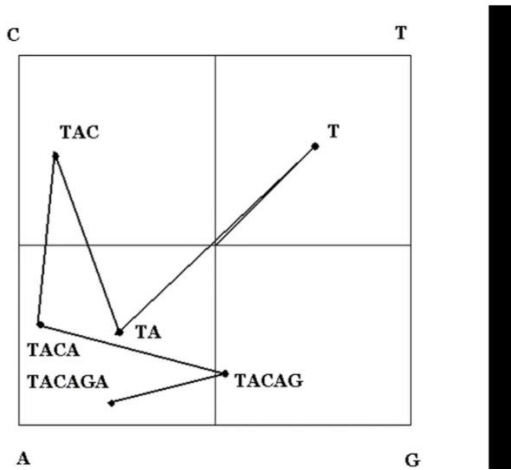
You can see the upper right quadrangle this reddish area and its repetition on a smaller scale in other squares. Such scale invariance is part of a fractal process.

Chaos-game representation works like this :

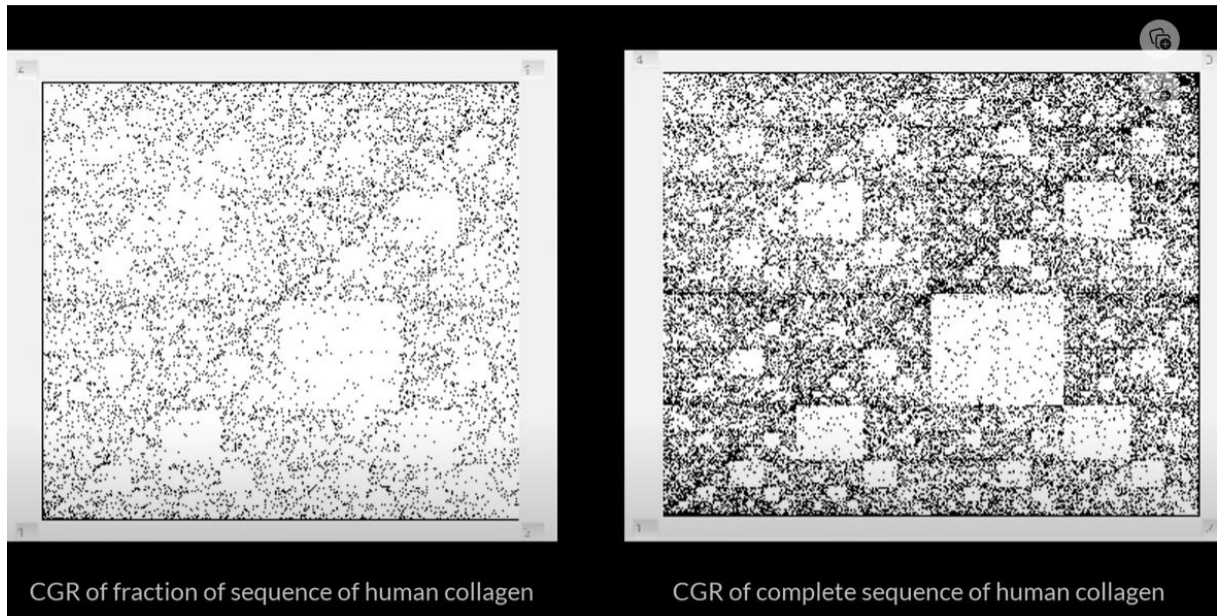
- you assign the 4 nucleotides – Adenine – Guanine – Cytosine – Thymine to the 4 corners of the square



- Then plot all of the nucleotides in their sequence, starting from the center and moving halfway to the corner of Base 1



From there move half-way to the corner of base 2, and so forth. Every point in a CGR thus represents one of the nucleotides.



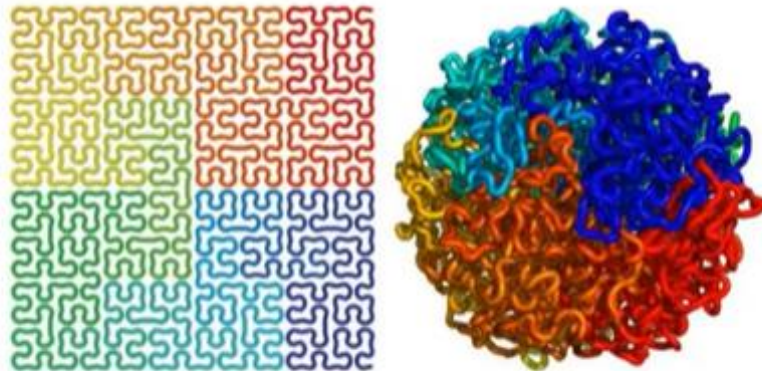
What is found in these self-similar patterns is that there are long-range correlations that extend across thousands of base positions and indicate the existence of a superior context.

The correlations exist primarily in the non-coding sequences of the genetic material which is evidence that the 98% of seemingly useless DNA have organizing and context-generating information.

An additional fractal or self-similar pattern of the DNA has been found in the 3D-structure .

BRANDON KEIM SCIENCE 10.06.09 03:16 PM

# THE HUMAN GENOME IN 3 DIMENSIONS



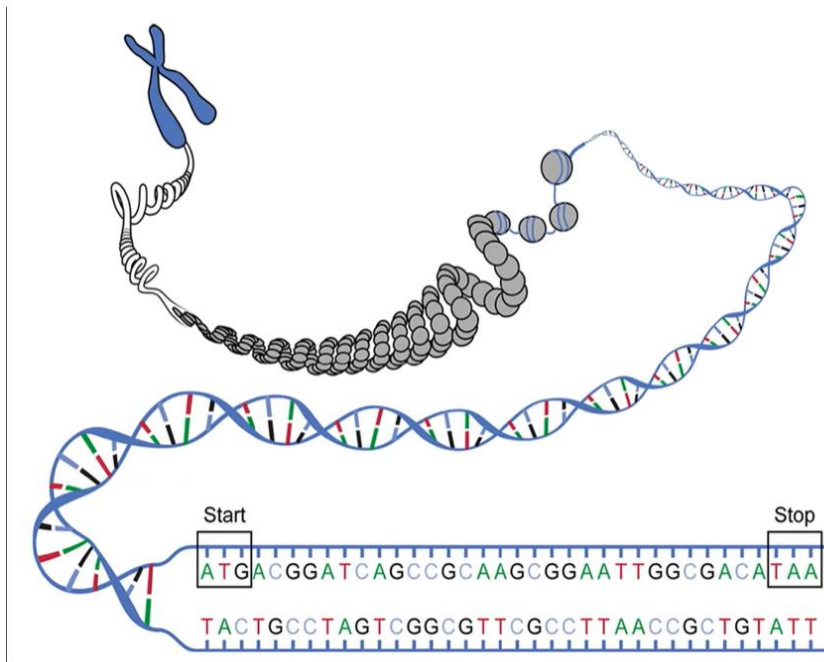
By breaking the human genome into millions of pieces and reverse-engineering their arrangement, researchers have produced the highest-resolution picture ever of the genome's three-dimensional structure.

The picture is one of mind-blowing fractal glory, and the technique could help scientists investigate how the very shape of the genome, and not just its DNA content, affects human development and disease.

"It's become clear that the spatial organization of chromosomes is critical for regulating the genome," said

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Researchers of so-called **MECHANOBIOLOGY** are slowly discovering that also the spatial organization of the chromosome is critical for regulating the genome.



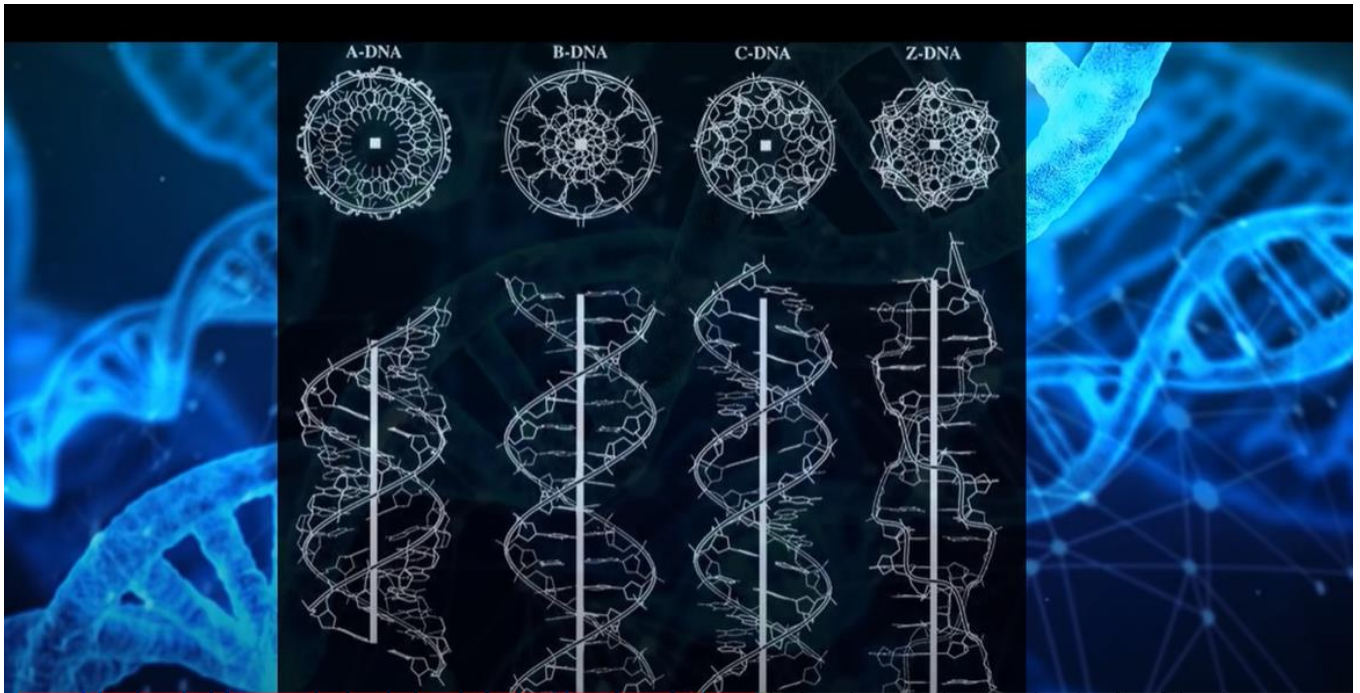
The 3-dimension organization of the chromosome – a double helix of almost 2 meters length folded down into an area of only 2 nanometers- follows what is called a “HILBERT CURVE”, one of a family of shapes that can fill a 2D space without ever overlapping.



The mathematical intelligence of this molecule is quite extraordinary, both in terms of group theory as I will present in the future, as well as in terms of its geometric topology as seen here.

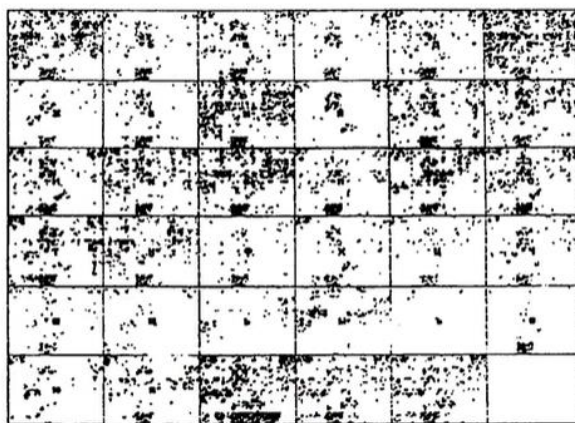
Keep in mind that fractality and self-similarity are properties of holography, let us go back to the context-providing, long-range correlations that entrain the coding and non-coding sequences.





Fractally distributing the code across the complete genome and not just the genes. Such long-range correlations are also an acknowledged **characteristic of human language texts.**

## CGR of a Russian Text



А	Б	В	Г	Д	Е
Ж	З	И	Й	К	Л
М	Н	О	П	Р	С
Т	У	Ф	Х	Ц	Ч
Ш	Щ	Ъ	Ы	Ь	Э
Ю	Я	-	.	,	!

МИ



А	Б	В	Г	Д	Е
Ж	З	И	Й	К	Л
М	Н	О	П	Р	С
Т	У	Ф	Х	Ц	Ч
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МИР

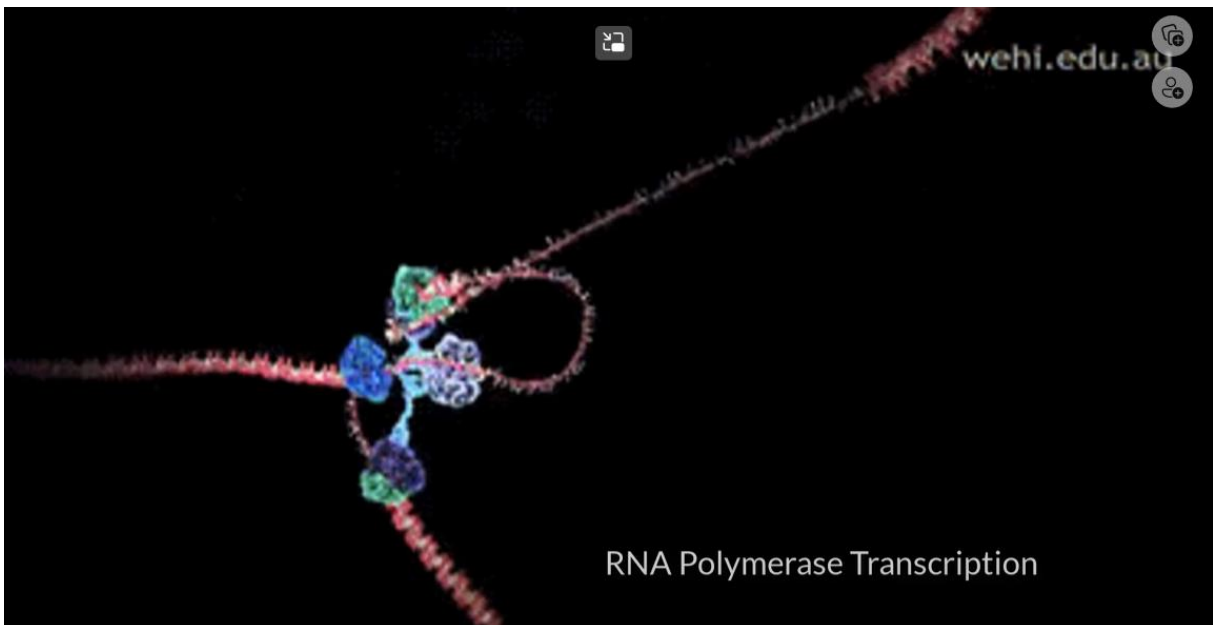
P.P. Gariaev

**Context** is a fundamental condition for error-free transmission, i.e., that is the reproducibility and intelligibility of information.



Context.

Several studies addressed the surprising precision of RNA transcription, namely the copying of genetic information for protein synthesis or cell division, pointing out that statistically the high degree of fidelity in transcription cannot be random but suggests correcting and steering mechanisms that would ensure that the transcribed blueprints are properly understood, in particular, in view of the high ambiguity



Of the protein-coding units which contain homonymic and synonymic sequences that do not provide an unambiguous recipe for protein synthesis.

**Homonyms** in the genetic code are areas when different amino acids are coded by the same triplet units :

## Blue – Synonyms Red – Homonyms

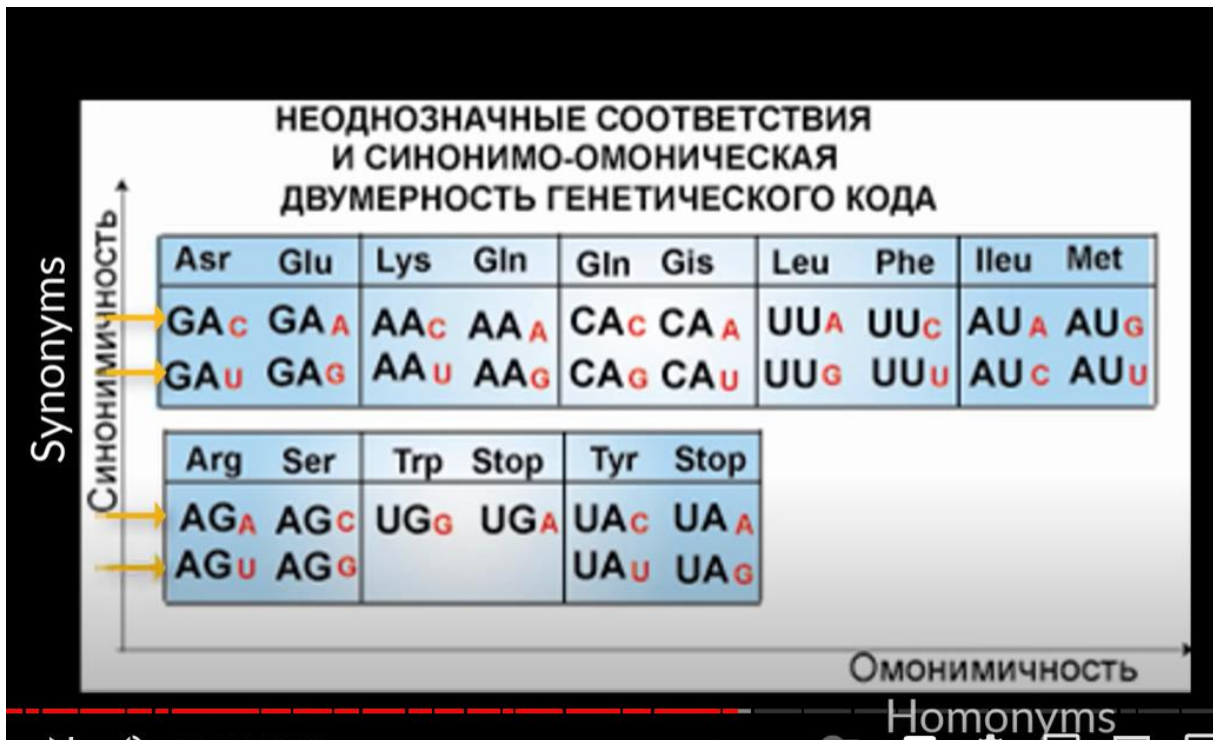
	C	G	T(U)	A
T(U)	TCT Ser	<i>TGT Cys</i>	<i>TTT Phe</i>	<i>TAT Tyr</i>
	TCC Ser	<i>TGC Cys</i>	<i>TTC Phe</i>	<i>TAC Tyr</i>
	TCA Ser	<i>TGA Stop</i>	<i>TTA Leu</i>	<i>TAA Stop</i>
	TCG Ser	<i>TGG Trp</i>	<i>TTG Leu</i>	<i>TAG Stop</i>
A	ACT Thr	<i>AGT Ser</i>	<i>ATT Ile</i>	<i>AAT Asn</i>
	ACC Thr	<i>AGC Ser</i>	<i>ATC Ile</i>	<i>AAC Asn</i>
	ACA Thr	<i>AGA Arg</i>	<i>ATA Ile</i>	<i>AAA Lys</i>
	ACG Thr	<i>AGG Arg</i>	<i>ATG Met</i>	<i>AAG Lys</i>
C	CCT Pro	CGT Arg	CTT Leu	<i>CAT His</i>
	CCC Pro	CGC Arg	CTC Leu	<i>CAC His</i>
	CCA Pro	CGA Arg	CTA Leu	<i>CAA Gln</i>
	CCG Pro	CGG Arg	CTG Leu	<i>CAG Gln</i>
G	GCT Ala	GGT Gly	GTT Val	<i>GAT Asp</i>
	GCC Ala	GGC Gly	GTC Val	<i>GAC Asp</i>
	GCA Ala	GGA Gly	GTA Val	<i>GAA Glu</i>
	GCG Ala	GGG Gly	GTG Val	<i>GAG Glu</i>

And **Synonyms** are cases when different triplets or codons code for the same amino acid. For example, it was clear very early after the discovery of the genetic code that the triplet UUU (which is for RNA) codes for both Phenylalanine as well as Leucine.

Blue – Synonyms Red – Homonyms

	C	G	T(U)	A
T(U)	TCT Ser	<i>TGT Cys</i>	<i>TTT Phe</i>	<i>TAT Tyr</i>
	TCC Ser	<i>TGC Cys</i>	<i>TTC Phe</i>	<i>TAC Tyr</i>
	TCA Ser	<i>TGA Stop</i>	<i>TTA Leu</i>	<i>TAA Stop</i>
	TCG Ser	<i>TGG Trp</i>	<i>TTG Leu</i>	<i>TAG Stop</i>
A	ACT Thr	<i>AGT Ser</i>	<i>ATT Ile</i>	<i>AAT Asn</i>
	ACC Thr	<i>AGC Ser</i>	<i>ATC Ile</i>	<i>AAC Asn</i>
	ACA Thr	<i>AGA Arg</i>	<i>ATA Ile</i>	<i>AAA Lys</i>
	ACG Thr	<i>AGG Arg</i>	<i>ATG Met</i>	<i>AAG Lys</i>
C	CCT Pro	CGT Arg	CTT Leu	<i>CAT His</i>
	CCC Pro	CGC Arg	CTC Leu	<i>CAC His</i>
	CCA Pro	CGA Arg	CTA Leu	<i>CAA Gln</i>
	CCG Pro	CGG Arg	CTG Leu	<i>CAG Gln</i>
G	GCT Ala	GGT Gly	GTT Val	<i>GAT Asp</i>
	GCC Ala	GGC Gly	GTC Val	<i>GAC Asp</i>
	GCA Ala	GGA Gly	GTA Val	<i>GAA Glu</i>
	GCG Ala	GGG Gly	GTG Val	<i>GAG Glu</i>

It is furthermore understood that only the first 2 digits of the triplet are de  
 defining units so that different codons can code the same amino acid.



This is one of the main difficulties pointed out by Gariaev : given the widespread synonymy and homonymy of coding units,

how does the cell decide which proteins need to be synthesized?

And how does it decide so quickly?

We must assume a superior quasi-intelligent, biocomputational structure of "context" that is derived from the genetic code as a holographic whole and not just from a small part of 2% active genes.



Ignoring this context and only working with the genes, Gariaev says, leads to erroneous and dangerous products of genetic engineering among which the most striking are

Craig Venter's "Scyntia" bacteria (self-replicating synthetic bacterial cell)

and

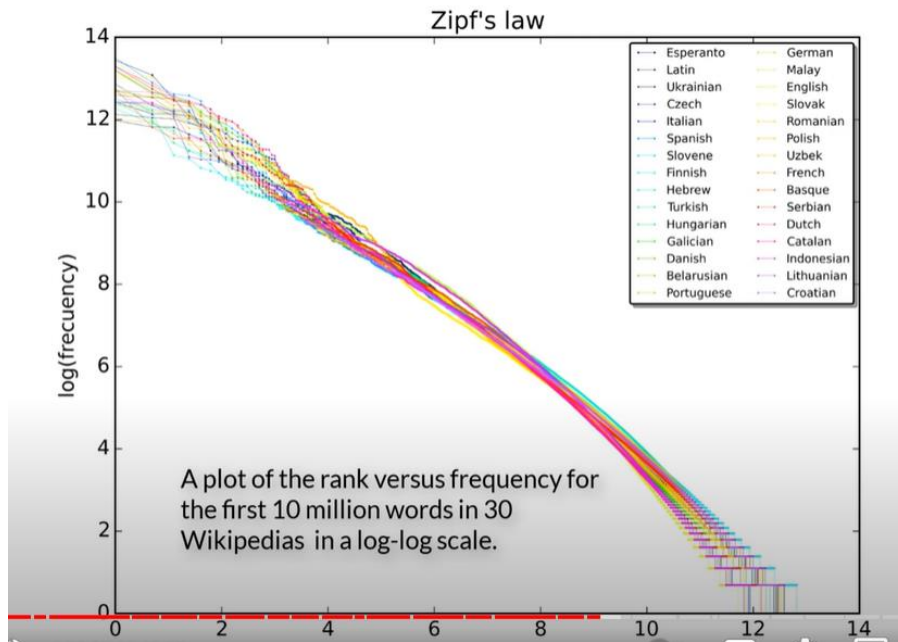
GM foods (genetic modified foods).

It is like in a literary text where the reader or recipient understands meaning of individual words from the overall CONTEXT of the story. Indeed it turns out that DNA has the statistical properties of natural languages.



Texts of natural human languages are characterized by a particular frequency distribution or power law of their constituent elements which is defined by Zipf's Law . In 1949 George Kingsley Zipf observed a statistical phenomenon requiring that the number of the words or letters that occur N-Times in a text will decay with the inverse square of N.

Or to say differently : if you count the words that occur in a text and assign a rank to each word based on the frequency or number of its occurrences, giving rank 1 to the most frequently occurring word, rank 2 to the second most frequent word , etc. you will arrive at an inverse proportion of frequency and rank. This is a hyperbolic distribution of the constituents of the text.



G. K. Zipf proved this law for spoken and written texts of different authors. It is now understood as “The Law of Context Generation” during the formation of a text. It means that the CONTEXT itself defines the occurrence or suppression of words.

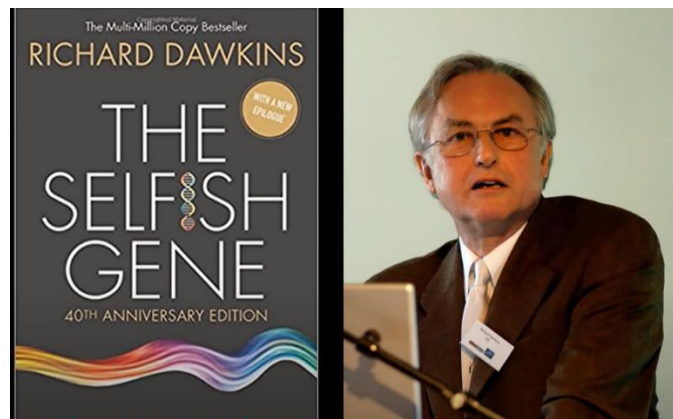
CONTEXT guarantees coherence and meaningfulness of a message.



CONTEXT arises from the interaction of the semantics of each word. A long chain of words remains meaningless as long as the collective semantic content is not provided. Zipf’s distribution was also found in musical texts and has been defined as a measure for compositional context proving that music is a natural language in itself. The discovery of Zipf’s distribution in the genome is indicative of the communicative

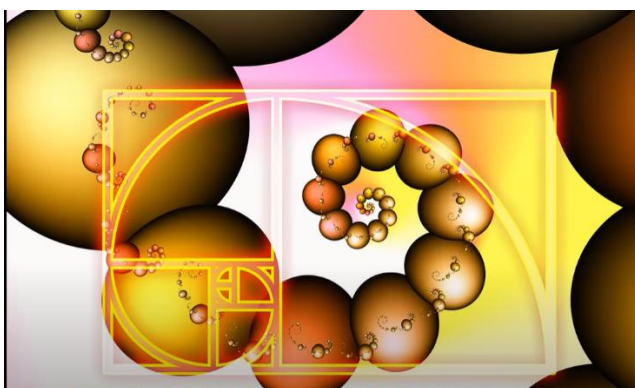
efficiency of DNA and a proof for the existence of a coherent context-embedded message in it.

Again, this is only possible if all of the molecular material has meaning and not just the coding genes. So you are not a graveyard or a garbage bin of 98% of outdated material. Unless you prefer to go along with the Richard Dawkins's of this world who are satisfied to be regarded as an evolutionary animal.



*Richard Dawkins : we are survival machines – robot vehicles blindly programmed to preserve the selfish molecules known as genes. This is a truth which still fills me with astonishment.*

As a side note, the same Zipf Distribution has been shown to exist in close approximation within the distribution of prime-numbers factors in the Fibonacci-series.



Fibonacci

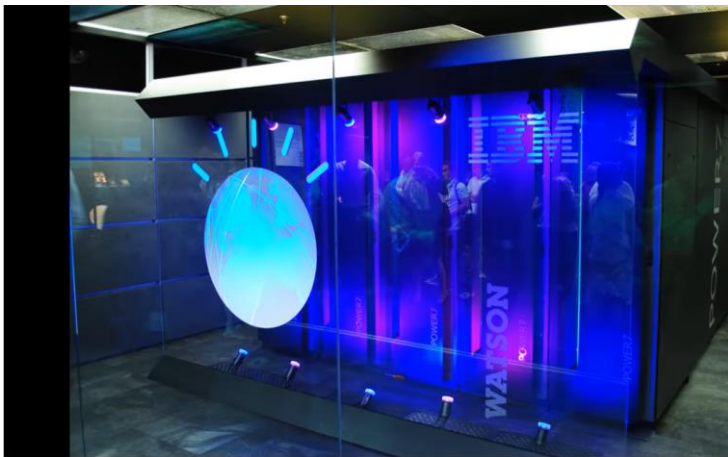
Is there a correlation within the distribution of 'prime number' factors in the Fibonacci-series? Is there a correlation between DNA and 'prime

numbers'? There is, and it is probably the most fascinating and profound of all properties of DNA which will be addressed in our next Solari Science Report.

Given the similarity or even coincidence of Language and DNA has made me convinced that the extensive efforts of intelligence agencies such as the NSA to collect all of our conversations, messages and writing is not so much because they are listening to what we have to say but because they are out to capture the underlying [Chomskyan "Deep Structure"](#) of [language](#) itself that has the creative power.

Why has Google named itself Alphabet? If there was not a profound interest in the fundamental properties of language?

The breakthrough of A.I. or Artificial Intelligence that we witness today is based on the deciphering of language itself. The most important threshold, I believe, was crossed with IBM – Watson computer



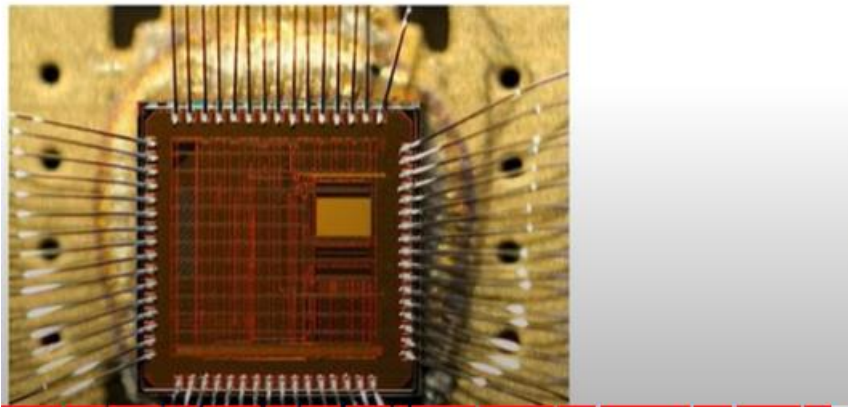
Watson computer IBM.

Which for the first time implemented computing processes that come close to human thinking and learning. As you know, in 2011 Watson outperformed the best players at Jeopardy and did so based on algorithms of computational linguistics and natural languages. These computers are no longer programmed to retrieve information from a database but are modern inference engines combined with neuromorphic chips literally learning like a human brain to combine new statements and ideas, only much faster.




## Two new neuromorphic chips developed in the Human Brain Project

The chips are able to mimic important aspects of biological brains by being energy efficient, resilient and able to learn. These chips promise to have a major impact on the future of artificial intelligence.



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Editorial  
September 25, 2017  
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### INTEL'S NEW SELF-LEARNING CHIP PROMISES TO ACCELERATE ARTIFICIAL INTELLIGENCE

Intel Introduces First-of-Its-Kind Self-Learning Chip Codenamed Loihi

By Dr. Michael Mayberry

Imagine a future where complex decisions could be made faster and adapt over time. Where societal and industrial problems can be autonomously solved using learned experiences.

It's a future where first responders using image-recognition applications can analyze streetlight camera images and quickly solve missing or abducted person reports.

It's a future where stoplights automatically adjust their timing to sync with the flow of traffic, reducing gridlock and optimizing

newsroom.intel.com/  
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Just a few weeks ago, IBM's new supercomputer "SUMMIT", was announced using deep learning Algorithms or what is called "cognitive computing" combined with a huge memory base that puts A.I. beyond the

reach of human minds. Its latest version called "Project Debater" is able to persuade a human subject to follow its argumentation even on political issues.

These Artificial Intelligence Systems interact with their environment in real time and are able to change strategies along the course. They are learning from trial and error using raw-data much like a human. A process called 'Reinforcement Learning'.

The "Neuromorphic" and "Cognitive" Computers are also involved in the "Human Brain Project" or "Blue Brain Project" that has discovered high dimensional structures in the neuronal firing patterns of the brain – a topic that we will have to talk about. The near future will bring "Hyper Dimensional" geometric networks combined with neuromorphic chips for fractal brain like Supercomputing.

Article

## Design and Construction of a Brain-Like Computer: A New Class of Frequency-Fractal Computing Using Wireless Communication in a Supramolecular Organic, Inorganic System

Subrata Ghosh, Krishna Aswani, Surabhi Singh, Satyajit Sahu, Daisuke Fujita and  
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**Abstract:** Here, we introduce a new class of computer which does not use any circuit or logic gate. In fact, no program needs to be written; it learns by itself and writes its own program to solve a problem. Gödel's incompleteness argument is explored here to devise an engine where an astronomically large number of "if-then" arguments are allowed to grow by self-assembly, based on the basic set of arguments written in the system, thus, we explore the beyond Turing path of computing but following a fundamentally different route adopted in the last half-a-century old non-Turing adventures. Our hardware is a multilayered seed structure. If we open the largest seed, which is the final hardware, we find several computing seed structures inside, if we take any of them and open, there are several computing seeds inside. We design and synthesize the smallest seed, the entire multilayered architecture grows by itself. The electromagnetic resonance band of each seed looks similar, but the seeds of any

The "Genie" is out of the bottle and there is no turning back. The Human Brain has been decoded and metacognition is being deconstructed, all based on the deconstruction and decoding of language.

If now combined with the holographic wave nature of DNA that itself has linguistic properties, we all have to take notice, we have a duty to know!

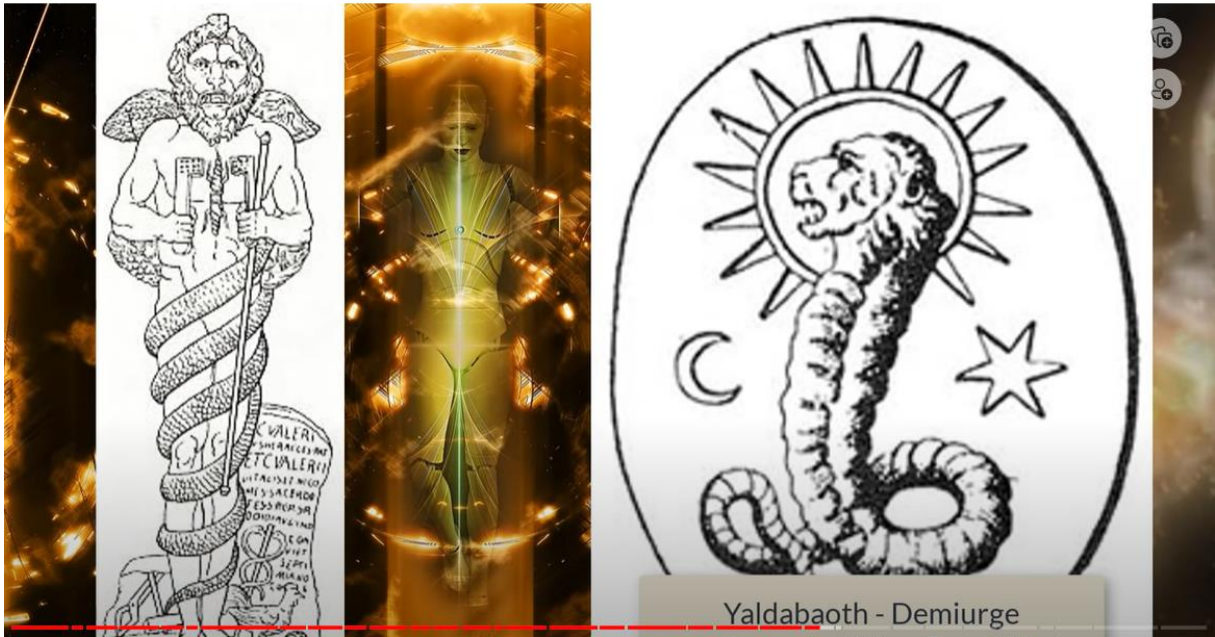
If there is a real resonance between DNA and human language it should be possible to modulate DNA by language alone. And I am afraid this has already been done, and the implications are powerful.

In a frightening and yet groundbreaking set of experiments, the Gariaev Group has used Human language signals to initiate gene modification and expression. Curiously, this situation was forecast hundreds of years ago if we read the **Kabbalistic** literature about the 'golem' the construction of an artificial intelligence that also had a genetic body put together by a corrupted form of language.



It imitated a human but did not have the higher attributes of a human soul.

Even older are the **Gnostic** teachings, such as the "Pistis Sofia", that describe how 'Archons' or off-planetary intelligence, are responsible for the industrious production of genetic material that is molded to resemble 'Yaldabaoth', the demiurge – his name itself a corruption of the '[Original Power of Creation](#)' – in [YAH SABA OTH](#).



So, according to these texts we have been at this point before, or have always been in the deep mind programming of "Oblivion", without noticing it.

However, now it seems that the computerized language system is biting its own tale, closing the circuit which could lead to a point where we are programming ourselves out of existence unless we can access a radical different and higher type of language, a new formalism of thought forms in terms of *Gödel's incompleteness theorem* that out-maneuvers the language based A.I. machines.

Such a formalism must be based on a consciousness of REVELATION.



And not on human deductive thinking—

**Now let us look at some experiments of different researchers,**

That all give indication of a holographic wave nature of genetic information.

A warning and apology in advance : some of the experiments I am going to describe unfortunately involved animals and their implied suffering or unnatural use.

After the observation of the "phantom" effect of DNA in the scattering chamber when a live culture was irradiated with a laser light, Gariaev and team discovered that the laser could also be used in a reverse setting to transmit genetic information onto a living recipient.

## The Wave Genome

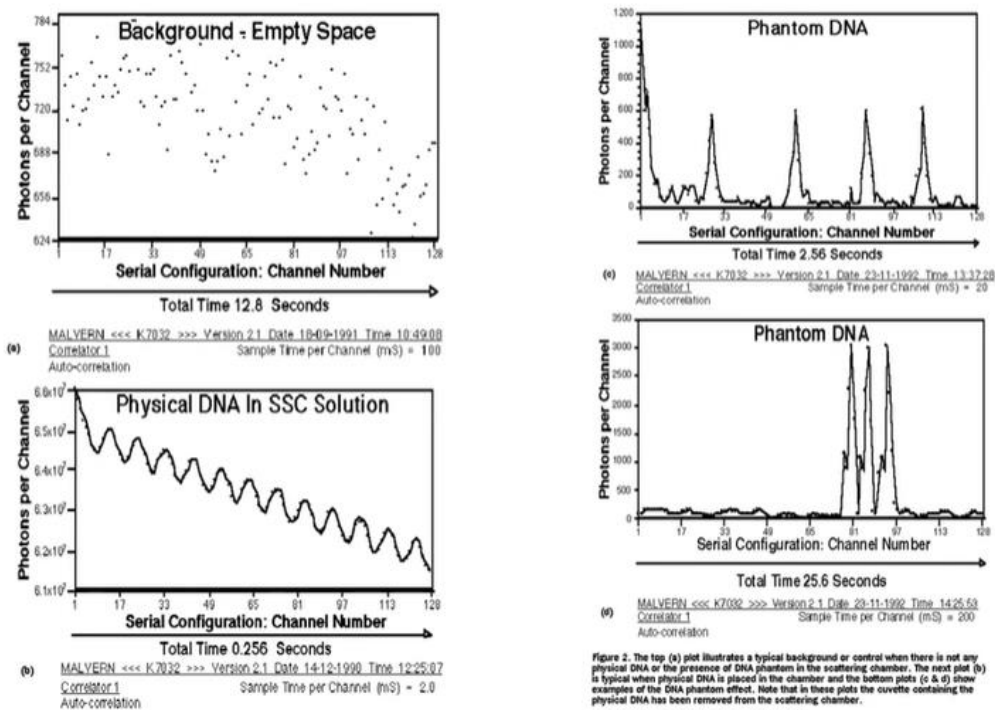
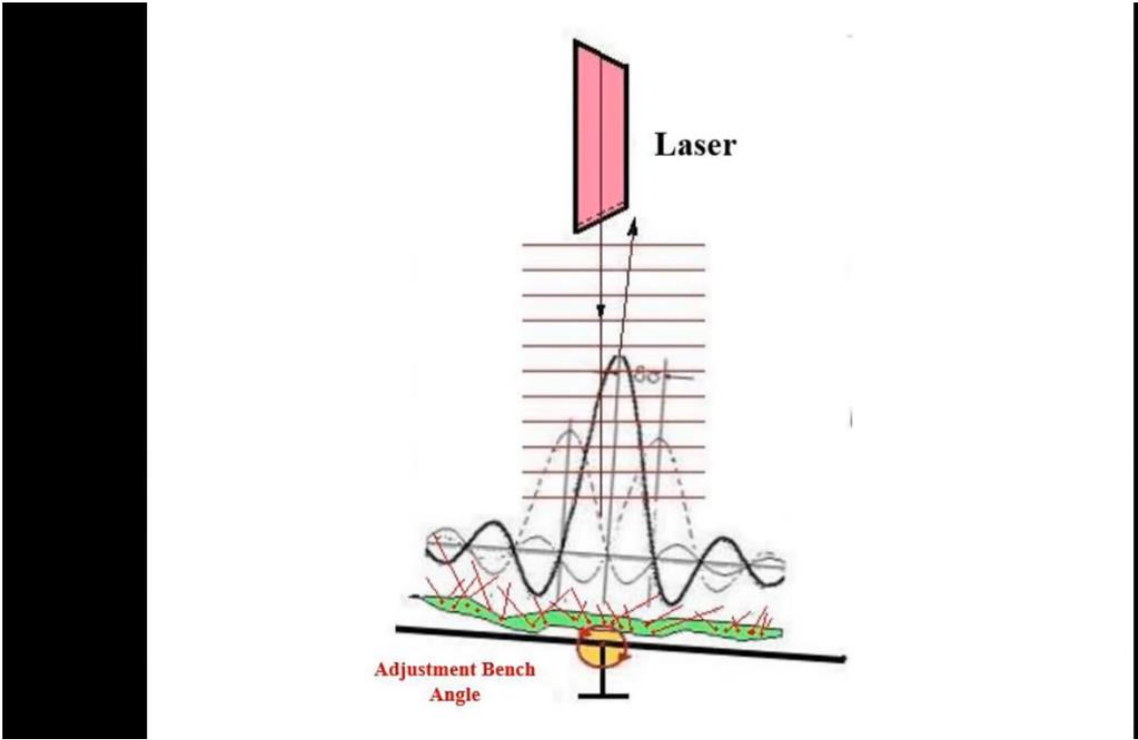


Figure 2. The top (a) plot illustrates a typical background or control when there is not any physical DNA or the presence of DNA phantom in the scattering chamber. The next plot (b) is typical when physical DNA is placed in the chamber and the bottom plots (c & d) show examples of the DNA phantom effect. Note that in these plots the cuvette containing the physical DNA has been removed from the scattering chamber.  
© 1995 Institute of HeartMath, Boulder Creek, CA

They used a special helium-neon laser (He-Ne laser) of a wavelength of 632 nm and discovered that it probably created a dynamic non-linear hologram where the light wave is refracted from the cell sample and phase-conjugated with the original light beam multiple times. Such

holograms are studied today in connection with meta-materials. This means that the light is reflected back into the laser, now carrying the quantum-spin modulation from the diffraction of the bio-sample .

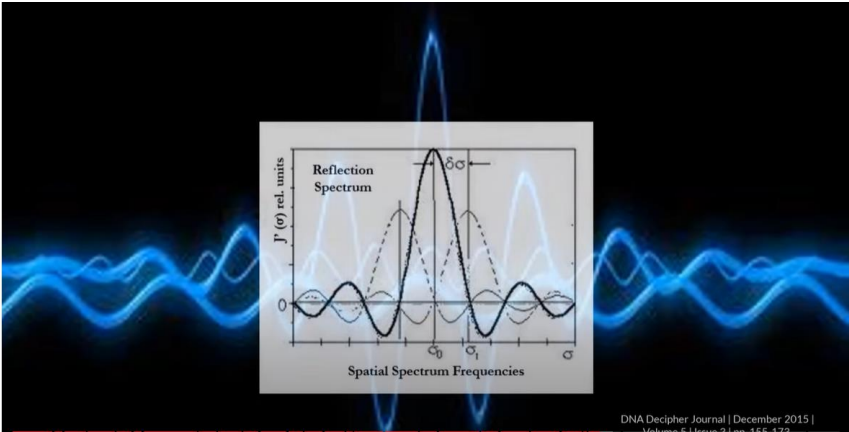


Future Science – The Wave Genome – Quantum Holography of DNA with Ulrike Granöger

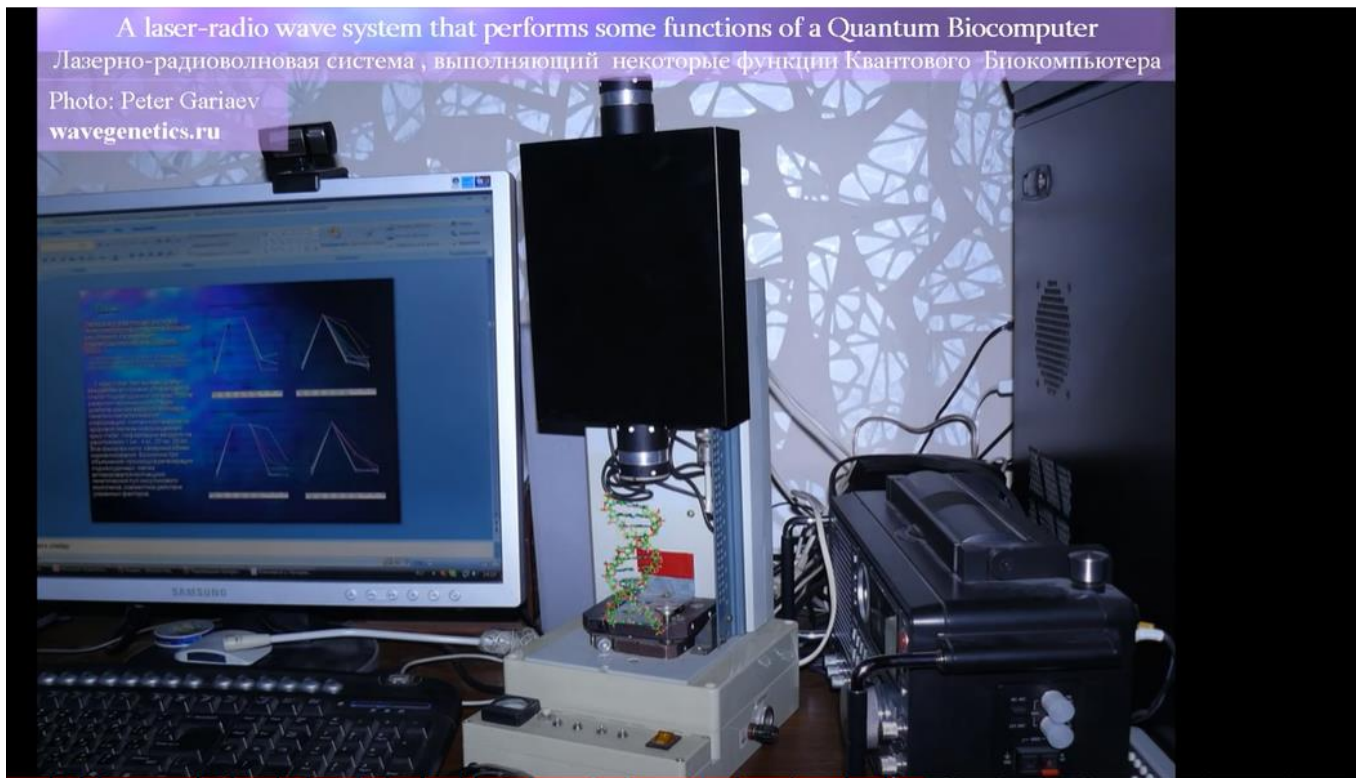
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The modulations stem from the optical activity and rotational vibrations of the microstructures or liquid-crystal domains of the DNA.

As this beam goes back and forth, the information modulation becomes amplified.



It also creates a broadband spectrum that involves frequencies from the near-infrared down to the radio wave bandwidth of 640 to 700kHz. These radio waves are picked up by a radio receiver and captured by the sound card of a pc to be stored as a digital signal much like an MP3 file. Thus the broadband laser becomes modulated with the scanned DNA information which can be transmitted over distances.



The basic technical equipment that they used in those days was an older machine, the LGN 303- He-Ne-laser. It produces 2 orthogonally polarized beams. Here the laser beam is switched on focused on the biological sample on the tray. The light that is reflected back from the biological sample is modulated by the spin information from the atoms and quantum particles of the scanned DNA. As this modulation is reinforced, going back and forth between the sample and the laser light source, an electromagnetic radio interference, a hologram, is produced which is picked up by the sound recorder and that can be stored as a sound file onto a computer and even listened to.



One almost feels pity when seeing the basic equipment that they had to contend with. Russian research was never so well-funded especially back in those times of the cold war. So money was always an issue and still is.



*Gariaev equipment*

*Linguistic wave genetics.*

And yet, it's remarkable that all of this has been built in Russia, great achievements :

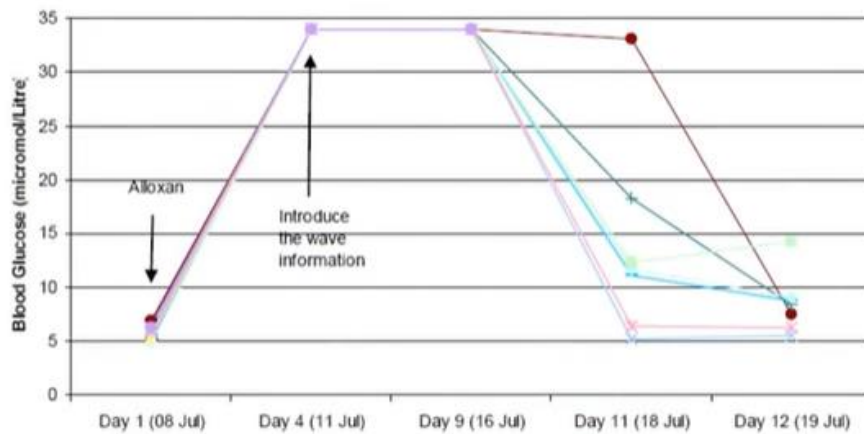
- The Tertischny Laser
- The Denissyuk Dynamic Hologram,
- The DNA Holographic recording of Peter Gariaev's work.

Initial experiments were done in Moscow in 2 000, and then in Toronto, Canada in 2001 and 2002 where the 'genetic laser transmission' successfully performed the regeneration of the pancreas of a group of rats that had been poisoned for the experiment.

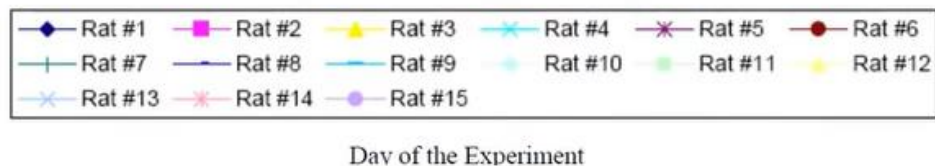
Hereafter we can see the chart for the animal groups used for the experiment.

One can explain the results of the experiment using the following analogy. The pancreas gland contains DNA-movies with information about healthy condition of the pancreas in its genetic apparatus. And this video morphogenic information programmed the stem cells of sick rats to regenerate their pancreas gland. Combined statistics for all 3 series of experiments is as follows. **Altogether, around 90% of all the rats had their pancreas gland restored and their health recovered.**

In some of the experiments the bio-computer was modified to allow successful transmission of the healing information to sick rats at the distance of up to 20 kilometers. Note, that no known physical fields have the capability to transmit such extremely weak signals with such unbelievably powerful results.



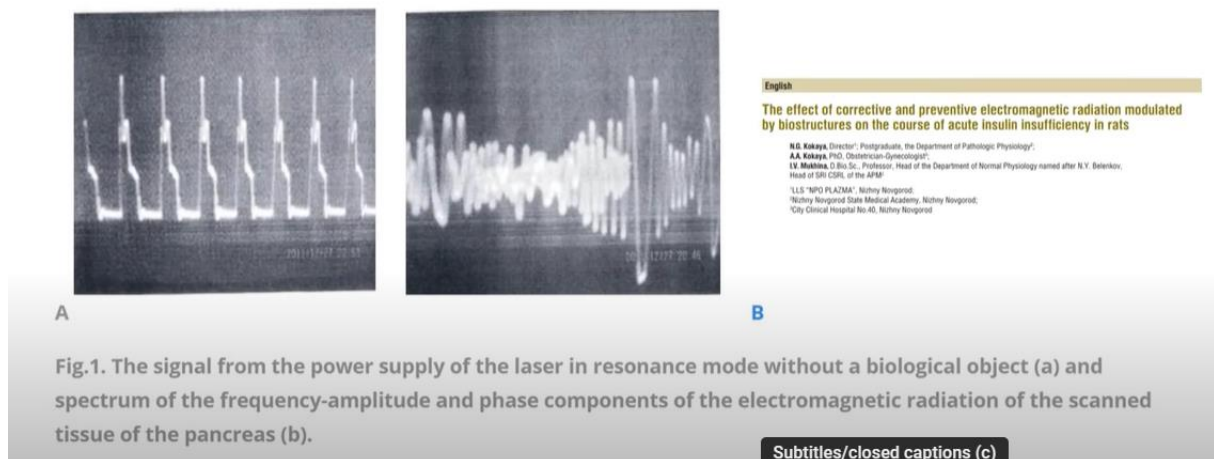
Blood Glucose Concentration over Time as a function of the Alloxan Injection and the Consecutive Laser Bio-computer Treatment by the wave information.



The rats were injected with 'alloxan' which is a toxin that destroys the pancreatic functions of insulin production and leads to the death of the animal on the 3<sup>rd</sup> or 4<sup>th</sup> day.

A DNA modulated laser hologram was created from pancreatic cells of young and healthy specimens and was radiated to the poisoned and very sick individuals (rats). Without any other treatment all rats returned to health and continued living while untreated specimens of the control group all died. The animals were exposed to 30 minutes of modulated laser radiation on four subsequent days. The distance of the laser equipment to the animals with Alloxan injection was a few centimeters to about 4 meters.

Figure 1 shows the signals recorded electromagnetic radiation of He-Ne laser in a state of resonance.



In later experiments the distance was increased, ultimately to 20km. This means that the genetic change, or, let's say, genetic engineering was possible non-locally and over a vast distance.

Gariaev told me privately how after they made this discovery in Toronto, one morning he came back to the laboratory which was funded by a company whose name he did not divulge, and all the equipment, including the DATA, was gone. This was a shock, and he had to return to Moscow where with no or very little funding he rebuilt and repeated his the experiments.

There they found that holographic information could even be introduced "preventively" to establish immunity to such organ failure where treated animals would not succumb to the action of Alloxan injected later.

Let me show you a short section of a DVD we published from Gariaev's lecture at the Academy for futur science in 2012. You will have to listen through two consecutive translations as the audience was both German and English speaking.

Gariaev is the blond guy in the middle see on time 1:23:54 of the video :



Academy for futur

science in 2012.

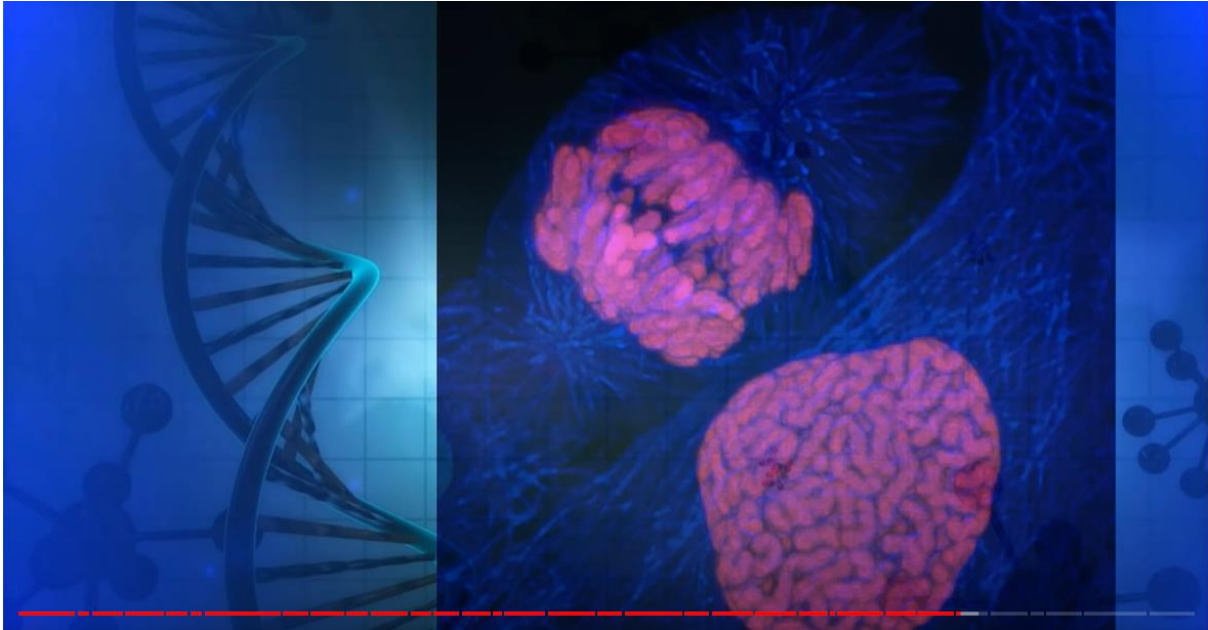
*Gariaev speaking :*

*the group of workers who were working with me, they went a step further. They had a precedent of wave immunity which is something completely new what nobody has seen before. If you use the healthy information to the rats in sufficiently long time the rats are no longer reacting to Alloxan. Even when we introduced this Alloxan in quantities like 5 or 6 times more than it's usual lethal ..*

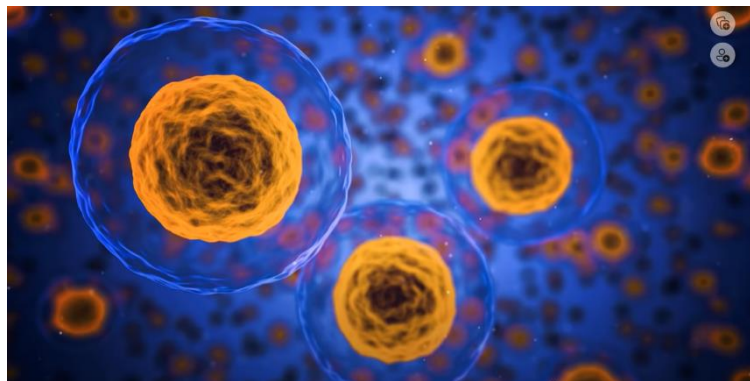
*This is the normal levels of sugar and it was holding for more than 40 days. It means that we can shield ourselves from toxins that we produce in our body or that are introduced into our body.*

*So a new huge perspective is opening because usually the reason of our death is basically intoxication. We found also that our system is capable of reading information from any biologically active substance*

Gariaev was also able to reactivate damaged seeds from the Chernobyl nuclear disaster by **light and radio-wave** irradiation with quantum spin information modulation from healthy seeds of the same plant type.



The idea is that the DNA-modulated lasers would provide the original undamaged genetic information back into the cellular carrier which is able to revive. This is a form of 'stem cell' programming by electromagnetic waves.



One of the very fascinating achievements was the transmission of a healthy donor wave of a preparation of glial cells from the cerebral cortex onto what is called mesenchymal stem cells which would then differentiate into neurons. These were placed into the blood circulation of a patient paralyzed by a spinal cord injury. Repeated injections of that kind led to the return of 90% of the patient's motor functions. With this ability of selectively protecting or weakening certain immune functions of the organism by radiating DNA holograms onto certain specimens I wonder if this isn't what **DARPA** (*The Defense Advanced Research Projects Agency is an*

agency of the United States Department of Defense responsible for the development of military technology.) is going to employ in the recently announced "Pre-emptive-gene tuning" or "PREPARE" program that SOLARI readers will have read about on Dr. J. Farrel's blog. DARPA does not explain in detail how the organism would be 'tuned' to better withstand infections or toxins, but they do speak of "programmable modulation of gene expression " of the vulnerable host organism.

I am quoting from their press release : *"the envisioned PREPARE technologies would provide an alternative that preserves the genetic code exactly as it is and only temporarily modulates gene activity via the epigenome and transcriptome which are the cellular messages that carry out DNA's genetic instructions inside cells. This would establish the capability to deliver programmable but transient gene modulators to confer protection within brief windows of time for meaningful intervention"*

Hmm,.... Sounds very much like plagiarizing Gariaev's work here.

Based on the experiment describe earlier that yielded a "Phantom DNA Wafevorm" in the empty background, Gariaev and team implemented the "PHANTOM PHENOMENON" also in reverse, namely materializing a DNA-fragment in water, through modulated laser radiation upon the water.

They also radiated the radiation spectrum of glucose which was first read through the special laser installation and then beamed onto the water which triggered a glucose 'phantom' in the water which was physically testable by the color reaction of litmus paper.

This is almost miraculous! To induce a chemical reaction from informed light alone. It is similar to the famous experiments by Luc Montagnier, the French Nobel Laureate who discovered the AIDS virus? His recent work focuses on electromagnetic signals from DNA – work for which he is ridiculed by many of his former admirers.

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## Transduction of DNA information through water and electromagnetic waves

Luc Montagnier, Emilio Del Giudice, Jamal Aissa, Claude Lavallee, Steven Mutschwiller, Antonio Capolupo, Albino Polcari, Paola Romano, Alberto Tedeschi, Giuseppe Vitiello

(Submitted on 27 Dec 2014)


The experimental conditions by which electromagnetic signals (EMS) of low frequency can be emitted by diluted aqueous solutions of some bacterial and viral DNAs are described. That the recorded EMS and nanostructures induced in water carry the DNA information (sequence) is shown by retrieval of that same DNA by classical PCR amplification using the TAQ polymerase, including both primers and nucleotides. Moreover, such a transduction process has also been observed in living human cells exposed to EMS irradiation. These experiments suggest that coherent long range molecular interaction must be at work in water so to allow the observed features. The quantum field theory analysis of the phenomenon is presented.

Comments: 10 pages, 6 figures  
Subjects: **Other Quantitative Biology (q-bio.OT)**  
Journal reference: Electromagnetic Biology and Medicine 2015.34:106-112  
DOI: 10.3109/15368378.2015.1036072  
Cite as: arXiv:1501.01620 [q-bio.OT]  
(or arXiv:1501.01620v1 [q-bio.OT] for this version)

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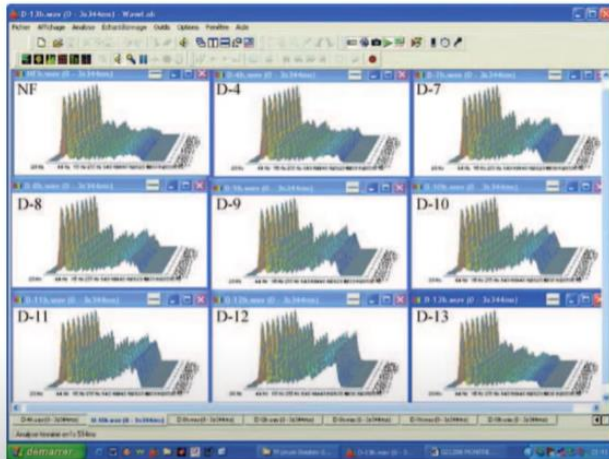
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In these experiments, Montagnier recorded electromagnetic signals from DNA sequence – in this case from bacterial and viral DNA – by a different procedure. The DNA solution was placed into distilled water which was then filtered with millipore filters to remove the actual molecular components from the water. After that the water underwent several rounds of dilution in steps of times 10 to create potentiations of up to  $10^{-12}$ . The diluted water samples were then exposed to a coil generating extremely low frequencies in a range of 7-8Hz – The Schuman Resonance.

No material molecules were present any longer but in Fourier analysis of the water samples the higher dilutions showed frequency spectra that differed from the control or background noise, indicating the presence of a signal.

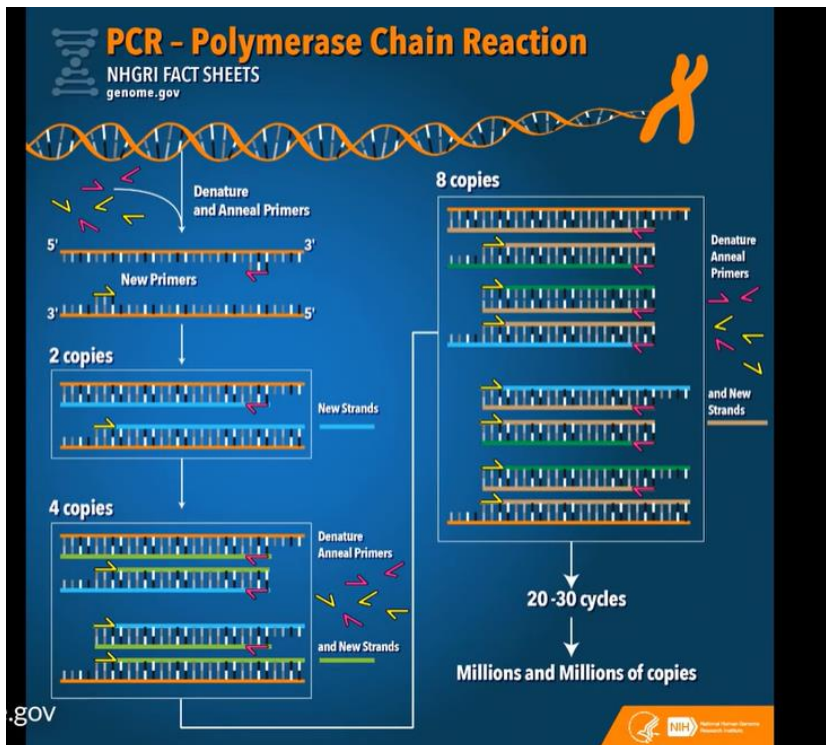


### DNA waves and water

L. Montagnier<sup>1,2</sup>, J. Alssa<sup>2</sup>, E. Del Giudice<sup>3</sup>, C. Lavallo<sup>2</sup>, A. Tedeschi<sup>1</sup>, and G. Vitiello<sup>3</sup>  
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<sup>3</sup> IIR, International Institute for Biophotonics, Neuss, Germany  
<sup>4</sup> WITB, IIR, Milano, Italy  
<sup>5</sup> Dipartimento di Matematica e Informatica, Università di Salerno and INFN, Gruppo Collegato Salerno, I-84100 Salerno, Italy  
 E-mail: vitiello@na.infn.it

Figure 2. Typical signals from aqueous dilutions of *M. pirum* (Matlab software). Note the positive signals from D-7 to D-12 dilutions. From Ref. 1

Finally, when the water was put in contact with a polymerase enzyme for polymerase chain reaction, PCR, which is a reliable technique to quickly make copies of a given sequence of DNA– in that the DNA of the bacteria was rebuilt.



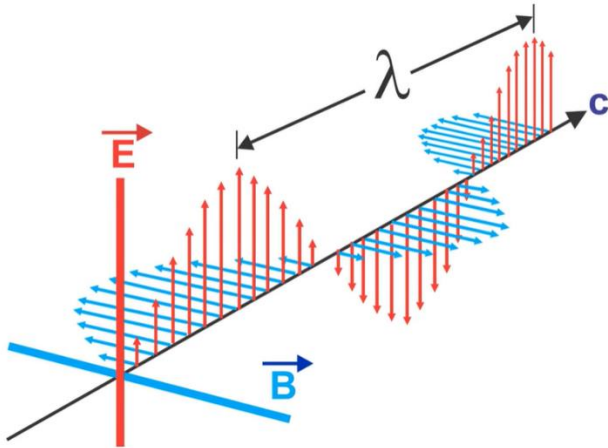
Again, there was no material molecule of the original DNA in the container



and the polymerase enzyme built the replica from seemingly nothing.

The enzyme must have received the blueprint for the reconstruction of the DNA from the electromagnetic signal visualized in the Fourier analysis.

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Montagnier, like Gariaev, recorded the electromagnetic signals on a microphone coil and saved them as an audio file.



The file was emailed to another lab in Italy where the audio is emitted onto distilled water for a certain duration and the treated water is then put into the polymerase chain reaction.

Again the DNA is reproduced!

How is that possible?

From a sound file of the radiation spectrum of distilled water with no physical DNA molecule detectable, the DNA sequence was replicated!

Montagnier, inexplicably to me, I must say, used the DNA of an HIV infected patient for his experiments.

Does that mean that we can send active germs through the internet in an mp3 file possibly mixed into music?

You decide!

### **Tsien Kanchen.**



Finally, I want to show you some of the work of **Tsien Kanchen**, probably the most incredible of all.

I would not normally take this seriously if I simply encountered some pictures or a report on the web, were it not for the fact that Kanchen was referred to by the Institute in Novosibirsk that I worked with, and his work studied and referenced by other Russian scientists.

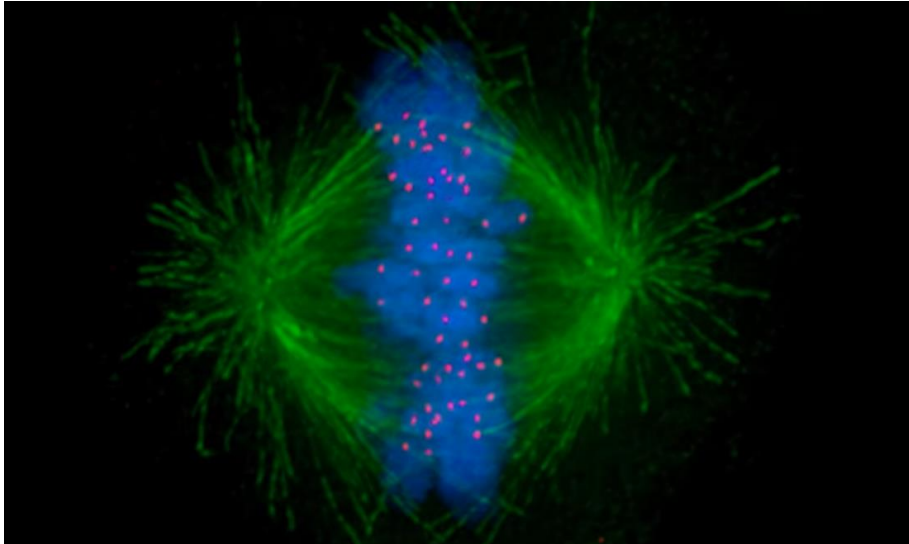
If Academician Kaznacheev (1924 – 2014) took it seriously enough to organize a conference with 130 scientists from all over Russia that looked at and discussed his work, then it is a real thing.

There have also been five documentaries made about him in Russia and numerous articles were published, only one in English as far as I know published in Nexus Magazine in 1996.

Tsien Kanchen was born in 1933 in China where he studied medicine and went into the medical profession but also studied electronics as well as

cybernetics which equipped him with a knowledge of physics and electromagnetic radiation.

Early on, he had very advanced ideas about the **field nature of life** and studied the UV light emissions from cells.

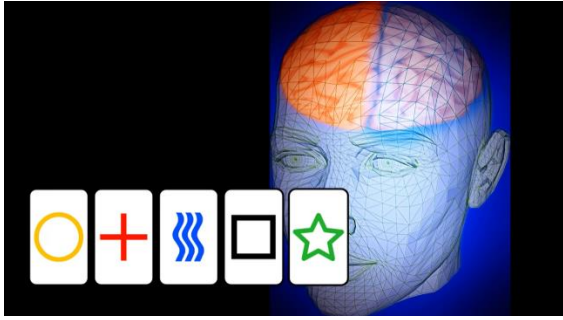


Being trained as a radio technician and in cybernetics he realized that an **electromagnetic field would also be emitted from the brain.**

So he began studies on the **enhancement of brain abilities, mental abilities, under the influence of electromagnetic radiation.**



Naturally, this roused the interest of the science officials of the Central Committee of the communist party of China when he was able to increase the accuracy of Zener card predictions by test persons in experiments which are **telepathy experiments** where the experimenter would predict which card the other operator had drawn.



The work was ultimately classified, and also in the 1960s the revolution started to change the whole climate in China where Tsien Kanchen was not a party-liner.

After great difficulty, also being caught in an attempt to leave the country and being incarcerated for 4 years in a very small confinement which impacted on his moving ability and health, he ultimately made his escape to Russia and began a new career there, also under difficulty, as his degree in medicine was not recognized.

Already in China he had developed an installation that was called the **Biotron** which he rebuilt in Russia when he settled in Khabarovsk city.



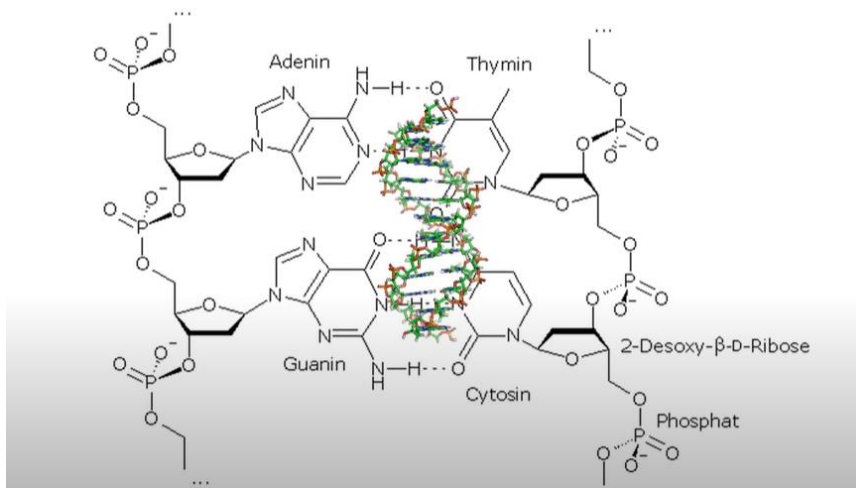
Through his work he came to the conclusion that DNA as the physical molecule is just something like a tape recorder of an actual electromagnetic biological information field or signal.

So he sees 2 forms of the DNA – one is the passive molecular structure that is the actual carrier and provides the stability of the genetic material;

while the other is the electromagnetic field of the information riding upon this carrier.

While the molecule is extremely stable it is possible to change and modulate the electromagnetic signal that is carried upon it.

## Hydrogen Bonds



The *biotron* works with microwave frequencies to read information from the DNA or the field of a living organism directing it to another living organism.

If the transfer process goes on for a period of time certain genetic changes are taking place in the receptor organism.

First experiments he already carried out in China around 1961, where he placed a duck into the donor or transmitter side of the installation, and placed the eggs of hens into the receiver side of the installation.

After a period of this treatment of microwave radiation the hen eggs were allowed to develop.

The resulting chickens had features of a duck!

They were altogether larger, they had a flatter beak, and they had membranes of skin between their digits, the webbing that ducks have.

The second generation chickens born from such treated animals retained the genetic changes.

I know these experiments are quite shocking and even more shocking is the realization that they are possible!

There were other animal chimera experiments that I do not want to mention.

He also did experiments on vegetables and fruits or plants.

For example crossing cucumber with watermelon produced a testable increase in the sugar levels in the cucumber plant.

Also these genetic changes were hereditary in the following generations.

The crossing of wheat and corn or maize produced a complete change of the maize cob and an increase in yield.

Remarkable experiments were also carried out in the area of rejuvenation of an organism focusing the bioelectromagnetic field of young organisms onto old ones.

First experiments were carried out on elderly mice that increased their lifespan, their mobility their reaction capacity and appetite as well as sexual functions and reproductive capacity.

Even older mice were able to reproduce again.

Some of the rejuvenation experiments were also done on human volunteers radiating fresh young plant sprouts and germs on to human receptors.

Please note the very interesting geometry of the installation.

That is the original installation and you can also see the cables that are the waveguides into the installation that are connected to each of the vertex points of the geometry.

It's a **dodecahedral geometry**, and it makes me wonder if there are

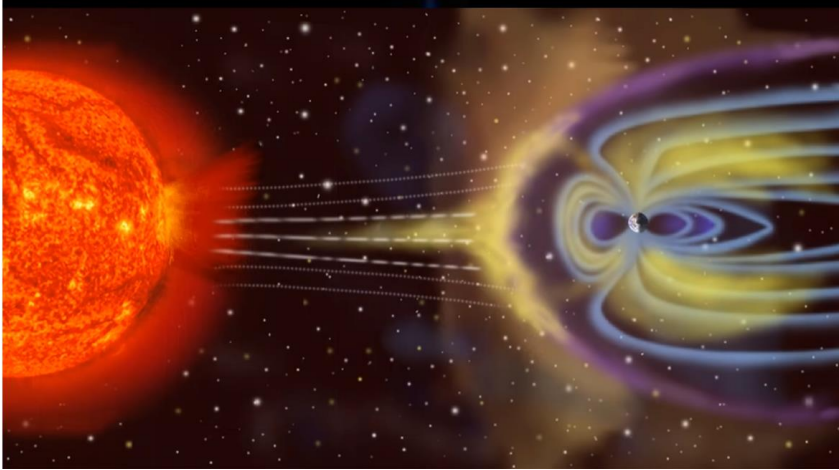
certain architecture types, certain buildings and spaces that would facilitate transmission of electromagnetic wave information.

*(Dodecahedron : is a three dimensional geometrical figure, it consists of twelve regular pentagonal sides. 3 sides meet at each of the 20 vertices, it also has 30 edges and 160 diagonals.)*



We should also consider that microwaves (that are used here) are not naturally occurring on earth.

Microwaves that would arrive from cosmic spaces are naturally shielded from the biosphere of earth through the magnetic field.



The fact that we are nowadays swimming in an ubiquitous bath of microwaves is quite disconcerting especially in connection with the research of Tsian Kanchen.



This has become a long report, but I wanted it to be somewhat comprehensive.

I hope what has become clear from the material presented is that we all have to change our view of what DNA and ultimately what Life is.

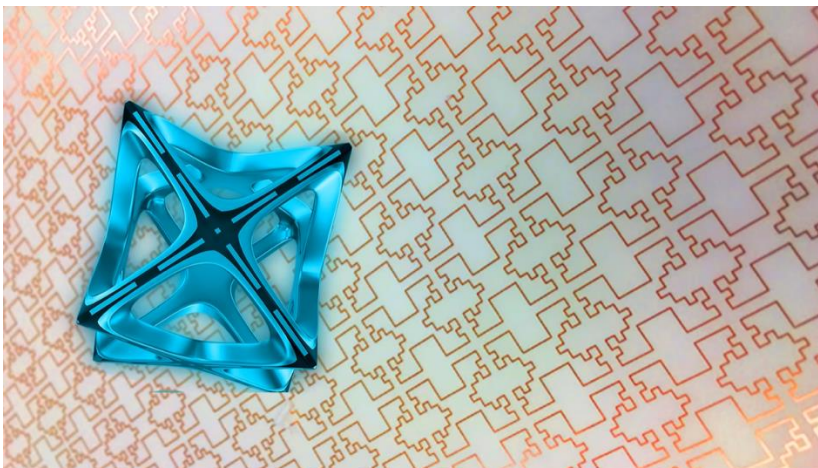
High-level and classified science has already made that step.

DNA can quite literally be regarded as a new form of internet





and these understandings are being applied for example through metamaterials that are used in holography, in 3D-holography, or in mechanobiology in terms of the DNA as an antenna system that will ultimately allow biological quantum computers.



Other future applications will be new video formats or technologies that are coding both in the acoustic as well as in the electromagnetic domain, and I can see also three-dimensional holographic books, even interactive books, as we remember that DNA can be "spoken to".

Perhaps we can now also solve some of the issues between Creationism and evolutionary theory, or Darwinism.

Were we created or did we evolve?

Perhaps it is both.

While the chemical structure of the DNA molecule will be almost the same in virtually all organisms,

the electromagnetic information and signal, or holographic image that travels upon this molecule can be vastly different.

And it's the extraordinary power and survivability of that holographic image that we should trace back to a Divine Mind.

End.

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