

THINKING ABOUT THE TRUTH

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ABSTRACT

In one future, much further away than what our calculations could have predicted, a race called the Phronesians, the *new* humans, arise. They have sent a scientific laboratory back to 2018 to obtain samples of gene GJB2 in order to create from it a synthetic biological tool that will allow them to see colors and hear without the need of special aids.

Shortly before departure, it is discovered that the supervolcano 00IIII-000*0 will likely erupt in the next hundred days, however the Phronesian authorities refuse to make it public. Part of the scientific community believes that one specific kind of the GBJ2 gene would rescue all humans, while others are sure it will poison them.

One of the scientists traveling with the lab learns of the pending eruption and subsequent debate and has to make the big decision: to collect the specific mutation of GJB2 or to avoid it.

Upon arrival, the laboratory is open to visitors, who might have the disputed GJB2 gene. Through access to advanced technology, they will experience the materiality and immateriality of their own bodies.

Phronesis

There is no true meaning of a text, no authors authority. Paul Valery

11th period before the big expedition

Once I heard they have names. That was enough to trigger me, to change my life. Just to imagine a word with a special meaning... I imagine somebody calling me "Cuchara" or "Path." I mean, in those times I couldn't think about any name because I didn't know any, so I just used to pick my favorite words and imagine Element-M26-027 calling me that, which would mean that she likes me more than the other kids at the Institute. But then I'd realize how inefficient I was and immediately become afraid that somebody at the Phronesian National Institute for Youth Education and Growth would find out.

However, this little wish was strong enough to push me to choose the training in Homo Sapiens Sapiens' History. There I learned a lot of names and millions of other interesting details that the colleagues from the Phronesian Space Radiation Filtering System found and interpreted.

Now I'm here, the night before the Phronesian National Conference, so excited to have been invited. It's my first time because normally only the experts from the Phronesian **N**ational Institute of **H**ominidae **E**volution and a few other lucky ones can attend. Now I'm a lucky one... What an honor! ...and I mean what honor and luck I have to be a part of the selected team that will travel for the first time back to the Sapiens Sapiens era... I'll finally meet them alive, I'll finally be able to ask their names! **M**orning! As the Homo Sapiens Sapiens used to say. ...I'm so excited! ...well, perhaps too excited. My digestive system is a bit out of whack. I hope this doesn't affect my ability to concentrate, otherwise everybody will realize how inefficient I am and how low my efficiency level is right now. Luckily, during this period my only task is to listen and learn... uff.

Writing helps me get rid of this sickness, all this emotional thinking. So, little book, I'm sending you back to your hideout and I'll let you know about my fantastic period later!

hm... I'm writing again out of habit and need, but I actually have very little energy left.

More than half of the congress period was dedicated to welcoming the Institute Experts. Like everybody else in the Area, I was so happy to see them up close.

I'm so grateful for everything they did for our Phronesian Civilization. I feel so proud to be able to work for them. However, I must admit that that ceremony was very, very long... After the welcoming speech the first presentation came. That presentation was nice... But what a waste that I wasn't able to be efficient the whole time and didn't understand everything. Tomorrow will be better. I'm going to sleep now so that next period I can show up rested and ready to learn!

can't stop thinking about that speech about Humanity. I... I just can't sleep any more. It should've been deeper. My whole training was about Humanity, about Sapiens Sapiens Humanity! ...I was so happy to hear about my special topic on the first period. I said that it was good, and it was. But I'm still so disappointed that there wasn't enough time to make a long, in-depth presentation.

They barely talked about the Sapiens Sapiens belief that they were the logic center of every sentence, and all the other things one learns in the first 60 periods of training. There wasn't even time to talk about their inefficiency or their lack of control over their emotional mind. In their conclusion, the experts just said this (which by the way somehow didn't even manage to be included in the summary): "As we all know, emotions killed half of them... the other half were finished by the big explosion."

Everybody in the conference Area laughed and that was the end.

It wasn't funny! ... I wanted to hear more about the origins of those emotions, and about all of the interesting customs and traditions that they produced... For example, the use of names, their living model into Familia, their beauty ideals, religions... och! It's not like everybody knows about it, not everybody is as lucky as me to be enrolled part time at the Phronesian Space Radiation Filtering System Department; not everybody has access to classified articles...

And the joke about the big explosion... nobody would find it funny if they studied the little information that was rescued from that period. Because of their inability to control their emotions, the last messages and images produced by Sapiens Sapiens in those final periods were extremely emotional in the most negative sense. It's still a mystery who made the final decision. What is known is that a deep excavation in the earth's crust caused the chain of events. With the permission of the Director of that civilization, an enterprise dug deeply into the crust and injected a liquid compound at high pressure into the subterranean rocks. Unfortunately, the Sapiens Sapiens involved in that process underestimated the indirect connection of this earth layer with the basaltic magma of the super volcano 00II-000*0 "Yellowstone" underneath. The reaction between the compound and the magma was immediate. The huge explosion erased all twenty-five Quarters around the volcano and created a series of violent movements in all the tectonic plates on the planet. Not so long ago the colleagues of the department found out that the excavation was made in what Sapiens Sapiens called Sonora, current quarter 987-654-32^; an inhabited but poisoned part of the planet. Following these events, nuclear plants all over the world started leaking radioactive substances, and those who had survived the other catastrophes were poisoned and died.

There is evidence that some of them managed to leave the planet, but their technology could only support life for a maximum time of 1825 periods. They eventually died in space. Their machines however made their way back to Earth via Earth's gravitational field and crashed into its poisoned landscape.

I was so hoping that this would all be explained in more detail so that I might learn something new. I almost wished I could be one of the Experts and explain it myself... But instead, all I could do was laugh like everybody else...

Ach, I doubt anybody cares because it's not relevant anymore, and we can't change the past. The fact is that we are here and they are gone...

I need to rest. The upcoming period will certainly be better.

NIHE

PROCEEDINGS OF THE PHRONESIAN ARCHAEOLOGICAL DNA ARCHIVE OF THE NATIONAL INSTITUTE OF HOMINIDAE EVOLUTION

GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

The meaning of being Human and how Homo Sapiens Sapiens understood it

The largest amount of the Homo Sapiens Sapiens' knowledge got lost during and after the event of its extinction. Thanks to the efforts of scientist of the Phronesian Space Radiation Filtering System it was possible to recuperate much information.

Based on the discovery of an ancient *http* signal captured from a beam reflected by the black hole Cygnus X-1 (IG. 1), we can observe that from the *Homo Sapiens Sapiens* perspective, a *human*, is the logical subject of the predicative speech. It is the entity of the physical substrate of determinations

and logical subject of the language about reality. Its soul is the essence (*tò tí ên eînai*), the specific form (*eîdos*) and the entity (*ousía*) of the living being. The essence of the human is the content of its definition.

The human is a living-rational-animal which is born, feeds, grows, reproduces, ages and dies (living). It feels, desires and moves (animal). And finally, intelligently reasons and speaks (rationally).

As we now know, the "Homo" includes modern humans and its extinct relatives (e.g. *Homo Sapiens*



Sapiens, Neanderthal, Denisovan), as well as other ancestors, such as the *Homo erectus*. This taxonomic family of primates also includes other eight extinct species: Pongo, Gorilla, Pan (chimpanzee) and the bonobo.

The skeleton of the universe is made up of information and this information creates the phenomena of matter. Accordingly, the *eîdos* or set of functions corresponding to a natural entity are the reason of the entity itself, and thus of its form, causing the elements to organize in order to fulfill the function to which they are destined to serve: the specific activity of the human. That is, its cause for being, its purpose.

It was especially surprising to find that *Homo Sapiens Sapiens* already intuited that the specific form of a living being configured its set of vital activities or functions (feed, reproduce, etc), which altogether can be denominated as life.

What *Sapiens Sapiens* did not know is that the subject is something determinate while its matter isn't. The matter begins to be determinate only when becoming a form. For example, hominids need to communicate, that is why they have a specific -material- form that allows them to communicate. The nature of macromolecules, under the current advancements in genetic technoscience, is no longer distinguishable from the processes in which they intervene, and are considered as forms of biotic artifacts, commonly known as *biofacts*.

However, the human is the physical subject of change, i.e., the one that stays identical as a substrate of the different modifications caused by a change. That which always stays identical, the *ousía*, is formed by the *genome* of the individual, which does not change, for example by aging, and which is transmitted from one generation to another. This concept was already discovered by the *Sapiens Sapiens* scientists, but their understanding of it reached only a very premature level of advancement and was disoriented by many mistakes.



IG. 1. Part of the reconstruction of the *http* signal reflected by the black hole Cygnus X-1. This information was recently interpreted by the experts of the NIHE *Homo Sapiens* Sapiens studies department.

9th period before the big expedition

What a great second round, the evolution of Homo Sapiens Sapiens. It seems to be all about DNA. I knew of its existence, but didn't really learn about it in depth; so I'm excited about the next period when they explain it. Anyway, I was most excited to learn about the role of a Mother at the genetic level. It seemed to confirm the importance of the existence of couples...

Or rather... the importance of having parents. That is something nobody I know could imagine. A life without the Institute's advice, to be taken care of by only two Elements! I cringe at the idea, but I'm also curious about it. I wouldn't even know how to live without the protection of the institute, surrounded only by two ignorant Elements. At the same time, it would be amusing to be the only infant in the care of Element-M26-027. I'd no longer have to compete. But I'd be so inefficient if I thought I was special. Being slightly different is already hard. I wonder if being special is similar somehow...

Let's have a rest now.

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GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Evolution of Hominids. The development of the Homo Sapiens Sapiens

Although the *ousía* or human genome does not suffer any changes within the life of an individual and it certainly is transmitted from one generation to another, in general, the DNA does evolve throughout long periods of time. This makes possible the adaptation of living beings to new environments and ways of life.

Biofacts, including complex organs and instincts, have been perfected over time, through the accumulation of

innumerous light variations which were positive for the individuals. There always has been a struggle for existence that had favored the preservation of every useful deviation of the structure or of the instinct. When an activity is not longer necessary due to a change in the life style of the individual, the disuse, sometimes helped by natural selection, will frequently

tend to reduce an organ. This explains why some species differ so strongly from very near relatives, as it will be later shown.

Due to billions of years of evolution, humans share genes with all living organisms. The percentage of genes or DNA that organisms share records their similarities. Humans share more genes with organisms that are more closely related to them.

For all living beings that are perfect, i.e. those that are not incomplete and does not have spontaneous generation, the most natural of its acts is to make another living being alike themselves. Homo Sapiens Sapiens solved this necesity by joining in pairs called Parents. This duality was formed by a female and a male parts, the so called Mother and Father. Thus, their genome is the combination of DNA from both parts. However, mitochondrial DNA (mtDNA), which comes solely from the mother, is present and transmitted in bigger amount than the father's one, and survives from generation to generation. This is because the female egg contains large amounts of mitochondrial DNA, whereas the male sperm contains just a small amount and it is used mainly for the movement needed to reach the egg (IG. 1).

The history of human adaptations refers to the evolutionary process leading up to the appearance of modern humans. The wo-men with all its noble qualities still bears in its bodily frame the indelible stamp of its origin: the Hominidae great apes or hominids.





IG. 2. Localization of the super volcano Mount Toba in Sumatra Island in Trans - Siam area (red point).

The earliest documented members of the genus Homo are *Homo Habilis* which evolved around 4.6 million years ago. *Homo Habilis* is the first species for which exists evidence of use of stone tools. The brains of these early hominids were about the same size as that of a chimpanzee. This information is based on the identified factors of the mitochondrial DNA.

However, we, the *Homo Transhumanian*, did not evolve directly from any primates living in the present. DNA shows that our species, *Homo Sapiens Sapiens* and chimpanzees diverged all from a common ancestor species that lived between 1600 and 1200 million periods ago. The last common ancestor of monkeys and apes lived about 5000 million periods ago.

The evolution of *Homo Sapiens Sapiens* can be followed from its geographical starting point: Africa. As our samples have shown, there is more genetic diversity in Africa compared with the rest of the *Sapiens Sapiens* world put together.

About 36, 500, 000 periods ago a second wave of *Sapiens Sapiens* humans migrated out of Africa. They are likely to have been 'modern' in terms of their appearance and behavior. They were more successful at surviving than the first group and covered the whole world in a relatively short period of time. As they migrated, they would have encountered earlier, primitive humans, eventually replacing them. Genetically, the eight billion individuals of the *Sapiens Sapiens* world, before its devastation, varied relatively little from these *Homo Sapiens* that ventured out of Africa.

The origin of *Homo Sapiens Sapiens'* DNA of mitochondrial origin has been tracked back to just one African woman who lived 219, 750, 000 periods ago. She wasn't the first or only woman on Earth at that time, but she was one of the few women which survive the sudden catastrophe of the eruption of the super volcano 000I-000*0 "Mount Toba" in Sumatra, Trans-Siam area, 146, 000, 000 periods ago, which led to the first nuclear winter, followed by a 1,000-year ice age. At that time humans were on the brink of extinction, dwindling to as few as 10,000 (IG. 2).

DNA evidence suggests that several haplotypes of *Neanderthal* origin were present among all non-African populations, and *Neanderthals* and other

hominids, such as *Denisovan Hominin* may have contributed up to 6% of the genome of the *Homo Sapiens Sapiens*. The genome sequenced samples suggested that *Denisovan* and *Neanderthal* interbreded. Some *Neanderthal* DNA is similar to the DNA from *Homo Sapiens Sapiens* from European and Asian origin but these similarities are not seen in African DNA. A degree of interbreeding between *Neanderthals* and early *Homo Sapiens* then occurred in these areas. It is known that this interbreeding probably took place about 34, 675, 000 periods ago and it is estimated that the proportion of *Neanderthal*-derived DNA in people outside Africa was 1.5 to 2.1 per cent.

It was identified a degree of interbreeding between Homo Sapiens Sapiens and Homo Transhumanian during the last thousands of periods before the *Sapiens Sapiens* extinction. Genetic evidence shows that the natural ribonucleosides have the f.-dribofuranose configuration as reported by NIHE collaborators, and spectroscopic evidence indicating that the deoxyribonucleosides have the same configuration as the ribonucleosides has been obtained. This demonstrates that it was also our ability to think and communicate in a non emotional level, what allowed us to survive as species. By about 49, 275, 000 periods ago, *Homo Transhumanian* was not only a worldwide species, but the sole surviving human species. There is no hope of finding again a living Homo Sapiens Sapiens in our contemporary time, since either the species nor the groups reappear once their ordinary chain of generation is interrupted.

8th period before the big expedition

It was overwhelming. It's incredible how much knowledge the Experts have. This period's congress presentation was focused on the Sapiens Sapiens genome. The Experts said the genome is something like a recipe to read humans... I didn't learn much about it in my training. So yes, I'll admit I got a bit lost here and there, but it was a complicated topic!

When I saw the paper summarizing the period I realized that it was a lot longer than the paper about the first period, and I was ashamed at how little I understood. I have a newfound respect for my colleagues who discovered the genome and are able to process it.

I also saw Element-R4-194 in the hall. I hadn't talked to him since I moved to the Phronesian **N**ational Institute of **H**ominidae **E**volution for my training as an Accompanying Scientist. He was friendly as always and shook his head to greet me.

I'll go and read the text they handed out today with the hope of understanding more of tomorrow's speech. It's going to be about the difference between our recipe and Sapiens Sapiens recipe, a topic that I should know more about from my training...

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GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Characterization of the Homo Sapiens Sapiens' Genome

The specific form *eîdos* of all known kind of hominids is determined by their *ousía* or genome, which is a set of genetic instructions, a unique chemical code that guides their growth, development and health. It consist of sections of DNA, or deoxyribonucleic acid, which produce molecular codes that regulate the output of genes, i.e. the timing and degree of proteinmaking. As already discovered in the *Sapiens Sapiens* era, proteins are the building blocks of tissues and their functions.

Living bodies in general, are made up of millions of cells (100,000,000,000) each carrying DNA in their nucleus (IG. 1). In the case of *Homo Sapiens Sapiens*, the genome is form by 3,000,000,000 base pairs long and is packaged into 23 pairs of chromosomes, which themselves form a threadlike structure in the cells, made of a long DNA molecule, wrapped around a protein scaffold.



Every living organism from past eras and ours also have chromosomes. The definite combination of chromosomes produced by the DNA lead to one specific form and thus to a tool for the fulfillment of one specific task. In this way, organisms, or better said, their molecules become biotic artifacts: Biofacts. As any other object, a Biofact is eligible for being the property of someone.

The production of these Biofacts takes place within the activities of the DNA and RNA. These two nucleic acids play complementary roles in living cells through two important kinds of interaction, the *transcription* and the *translation* processes. These two processes were of high importance to *Homo Sapiens Sapiens* and still are to *Homo Transhumanian*.

In the case of *Homo Sapiens Sapiens*, nucleic acid units consist of a phosphate ion, HPO4-, a sugar (ribose in

the ribonucleic acids, deoxyribose in the deoxyribonucleic acids), and a purine side chain. Their primary structure results from the specific linkage of four different nucleotides: adenine's air (**A**), guanine's fire (**F**), thymine's water (**W**) and cytosine's earth (**E**). Thanks to a high degree of complementarity between characteristic base pairs, **A**

always bonds with **W**, and **F** always with **E**. It would be useless, that the elements were in the code if they were not in the right proportions and combination: each element always knows its alike (Table 1).

The phenomenon of complementarity also stabilizes *Homo Sapiens Sapinens*' intramolecular secondary structures of RNA and intermolecular of DNA,

respectively. The general principles of molecular structure account satisfactorily for the chemical properties of the substances. The highly specific interactions are based on the principle of twofold complementarity, that of electrical activity and that of spatial atomic organization, the so-called conformation. This provokes a mechanical lock - key function where a specific form can complement another form. It results from (a) consistent, regular distances between the polar ends within the four bases (given by the ring structure of the sugars) and (b) from the overall matching form of the base pairs **A** and **W**, and **F** and **E**. Therefore, a rung consists of a long and a short components.

Phenomena present at a macromolecular level, like the solubility of molecules in water, are also present at intra molecular level. Polarity effects and electrons' dissociation play an important role also inside the smallest structures, including DNA. Here the complementarity between the components happens specially because of their electric charge. The exact communications exist between the visible and the invisible, the top and the bottom, the matter and the



mind, the planets and the metals. The molecule end "A" has electrically charged end positions that meet complementary positions of "B" (IG. 2). As a result, in the DNA two polar ends of **A** and **W** are bind by two hydrogen bonds, while **F** and **E** are bind by three corresponding bonds.

Different than ours, the *Homo Sapiens Sapiens*' DNA has a twisted structure in the shape of one double helix. A configuration of polypeptide chains in many proteins is the **A** helix. In this structure the amino-acid residues are equivalent; characteristic to the *Sapiens Sapiens* is the existence of only one type of relation between a residue and neighboring residues, one operation which converts a residue into a following residue. Through the continued application of this



operation of rotation-translation the \mathbf{A} helix is built up.

This is caused by the information of the space interacting with the information of the dark energy, an unknown fact during the *Sapiens Sapiens* era. Our hyper-X-ray photographs show a very strong meridional reflection, with spacing about 3.40 **A**. This reflection corresponds to a distance along the fiber axis equal to three times the distance per residue (IG. 3). That which is below resembles that which is above, and that which is above resembles that which is below, this accomplish the wonder of the one thing. The helixes have the sense of a righthanded screw and just as all things exist through contemplation of the one and come from the one, so all things are born by adaptation of this one thing.

The phosphate groups are closely packed about the axis of the molecule, with the pentose residues surrounding them, and the purine groups projecting radially, their planes being approximately perpendicular to the molecular axis. The operation that converts one residue to the next residue in the polynucleotide chain is a rotation by about 105° and translation by 3.4 Å (IG. 4)

The RNA or ribonucleic acid of *Homo Sapiens Sapiens* has a similar structure to their DNA. It contains adenine's air (**A**), guanine's fire (**F**), cytosine's earth (**E**) and terra- uracil (**T**), instead of thymine's water (**W**), like in the DNA. The so called (r)RNA is part of the structure of the ribosome, while the variations tRNA and mRNA are only present in the cell when they are being used to create new proteins. The process of *transcription* transfers the cell's genetic

Table 2. Homo Sapiens Sapiens' DNA - m RNA Polar ends complementarity	
Α	Т
F	Е
W	Α
E	F



information between DNA and RNA to produce those proteins. During the *transcription*, an enzyme called an RNA polymerase uses a gene, or section of DNA as a template to create a strand of messenger RNA (mRNA). The RNA polymerase unzips the section of DNA that is to be copied, so that it is temporarily found in two



IG. 4. Helix. Rotation of the polynucleotide chains in *Homo* Sapiens Sapiens' DNA single strands. This causes the materia prima to possess an incomplete body, an effective elixir and a clear, transparent, volatile and mobile Mercurius. The polymerase reads and interprets the DNA's base molecules and creates a strand of mRNA using complementary base molecules. The mRNA strand will then have **A** where the DNA has **W**; **T** where the DNA has **A**; **F** where the DNA has **E**; and **E** where the DNA has **F** (Table 2).

For the *translation* the cell uses RNA to create essential proteins. This takes place in the cell's ribosome, where ribosomal RNA (rRNA) is located. A ribosome, which is composed of rRNA and proteins, attaches to a strand of mRNA; then the corresponding segments of tRNA also attach to it. In this way a new amino acid chain is produced:

mRNA + tRNA= new amino acid chain (Protein)

With the structure described, the information contained in a DNA strand is also contained in the second strand to its full extent - quasi as a backup although in a complementary form. In the process, the spiral is separated and a breaking up of the polar bonds is initiated. The elements transform into each other or into their respective constituents, and in turn, the constituents can dissolve into their original elements (**A**, **F**, **W** and **E**). Through the continuous process of this reciprocal procreation, the permanence of things is ensured. Each half of the spiral thus serves as a template for a replica, which later will be complemented into an entire DNA helix. Everything comes from the one and returns to the one, through the one and for the one (IG. 5).



7th period before the big expedition

Well... another crazy period. It was great to see real data comparing our similarities to Homo Sapiens Sapiens and other primates. However, the rest of the information about the senses and the quality of the samples is not new to me, because I know it very well from my training, so I didn't feel as lost as I did last period. The presentation really made me think about the influence of air quality on our ability to perceive color and sound. I've never really thought about the existence of colors. I don't remember seeing them... ever. The first volcanic eruption happened when I was really young, before I started forming memories. I don't know anybody in the Institute that can actually see colors....

What I do remember is the implanting of my first Auditory Protection Filament. That was painful. I know they did it as fast as they could in order to protect as many infants as possible, but having experienced the pain and nausea it causes, I don't wish it on anybody... Even if the newborn Elements get it implanted more gently.

My Efficiency Therapist says that the poison from the first year of small volcanic eruptions is responsible for my tendency to overthink things. So I'm grateful to have received a filament.... but I hope future generations of Phronesians don't need them, and that they don't have so much noise in their heads.

woke up again. The images of the deformed infants won't leave me alone.

During my training at the Phronesian National Institute of Hominidae Evolution we had a short visit to the Laboratories of the Techno-Biofact Improvement Department. I overheard some Experts trying to save an Element... his or her screams were unbearable. They told us they were helping him... or her?

But I knew the creature was really suffering and in a lot of pain. I was secretly very happy when the Phronesian Legislation published that they were banning such activities, even though it makes our work more difficult. I don't want anybody suffering such pain. In my head his/her screams feel like my own because of my memories of the implantation of my Filament...

I'll take Compound 01110000~ and force myself to rest.

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GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Genetic differences between Homo Sapiens Sapiens and Homo Transhumanian and their relevance in current health issues

While the genetic difference between *Homo Transhumanian* individuals in the present is minuscule, about 0.1%, the average of the same aspects of the *Homo Sapiens Sapiens* genome indicates a difference of about 0.3%. Chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*) differ from modern humans to a degree of 1.3%. The DNA difference with gorillas, another of the African apes, is about 1.7%. Most importantly, chimpanzees, bonobos, and all kind of humans show the same amount of difference from gorillas. The 0.3% *H. Sapiens Sapiens - H. Transhumanian's* distinction involves a measurement of only substitutions in the base building blocks of those genes that both human kinds share. A comparison of the entire genome, however, indicates that segments of DNA have also been deleted, duplicated over and over, or inserted from one part of the genome into another. When these differences are counted, there is an additional 0.5 to 1% distinction between the *H. Sapiens Sapiens* and the *H. Transhumanian's* genomes (IG. 1).



As already well known and also mention in other presentations in this Congress, the genome of hominids contains the chemical code of biofacts that guides the growth, development and health of the owner. Through the normal process of evolution the genome adapts to the necessities of the species, giving them the necessary tools to live. The DNA -RNA interactions of *transcription* and *translation* gave the Homo Transhumanians the exact Biofacts needed to live under the regular environmental, technical and stress conditions of their context. However, as it is known by all contemporaries, the relative recent activities of the super volcano Taupo changed those regular conditions to which our genome adapted over trillions of periods. The atmospheric conditions since the volcanic activity of the last fifteen years caused a strong increment of the percentage of Argon in the current atmosphere (IG. 2).

As also mention by other colleges, the entire sensitive perception process through acoustic and visual abilities takes place thanks to the presence of air, i.e. Nitrogen, Oxygen and Argon molecules. Owing to the airy and fiery nature of the human body, guanine's fire and adenine's air are generally responsible for acoustic and visual perception.

The modification of the air quality through the increment of Argon in the atmosphere has caused radical changes of the *Homo Transhumanian* sensory abilities, characterized mainly by a significant declination of the visual perception, including total loss of colors' recognition and a strong increment of the acoustic perception, what itself have been the cause of severe mental issues in big proportions of the Phronesian population.

Although the changes in our genome allowed us the *Homo Transhumanian* to survive over our predecessors, the *Homo Sapiens Sapiens*, currently it has been proved that a genomes' section deleted from our sequence by evolution is the key Biofact for our survival under the new atmospheric conditions. According to our colleges from the Astro -Atmospheric Department, the new amount of Argon is very similar to the measured in the *Homo Sapiens Sapiens*' environment few thausends of periods before its extinction. Consequently, the genome code of the humans living in that time include the genetic tools missing at present (Fig 3). Specifically said, the Biofact GJB2, the 13th chromosome of the *Homo*



Sapiens Sapiens' genome, is the one that was proved to be able to give *Homo Transhumanians* the necessary resistance to current air's quality (IG. 3 and 4).

The deletion of the searched Biofact, a normal process of evolution, was the result of a break in the conformation principle caused by a partial change of the electrical charge of the molecules and thus of their spatial atomic organization. Due to this, the body was unable to perform the *transcription* process of the Biofact GJB2 resulting in its inactivation and later deletion from the *Homo Transhumanian* genome.

Since the discovery of this phenomenon three years ago, all NIHE efforts have been focused on the reinsertation and activation of this Biofact into the *Homo Transhumanian* genome. At the beginning, our former colleges tried to bring *Homo Sapiens Sapiens* eggs to Phronesian time and inseminate them with *Homo Transhumanian* sperm, unfortunately the results were every time negative, including the birth of malformed and non healthy Elements. These erroneous tests caused the decision of the National Phronesian Organization for Living Beings Rights to create a special Legislation that prohibited any kind of modern *Homo Sapiens Sapiens - Homo Transhumanian* interbreeding.

New studies have revealed a new and better method: the synthesis of the biofact GJB2 as macromolecules that can be inserted into the *Homo Transhumanian* genome. Although this is impossible to reach in living *Transhumanian* individuals, it has







been successfully tested as an inoculation into the genetic information of a non fertilized

Transhumanian egg. The positive reacting exemplars (up to 95% of the samples) are then fertilized. In this way, the fertilized egg will grow up having the Biofact GJB2 into its genetic structure and eventually will

inherited it to later generations. This achievement would mean that for future generations the use of visualization safety glasses and filaments for acoustic protection won't be necessary any more, an advantage that certainly is relevant for the survival of the Phronesian civilization and all *Homo Transhumanian* wo-men kind.

In order to synthetice the biofact gen-GJB2 it is necessary to obtain active samples of mitochondrial DNA from healthy *Homo Sapiens Sapiens* individuals. This kind of DNA is easier to extract than DNA found in the nucleus of the cell and has many copies to work with. It can be easily found in the saliva of living animals, or if necessary, in the bones, since DNA can survive there long after the animal dies. However, in our case, since the Biofact GJB2 is specially active in living individuals and specially strong if taken during the development of the *identification path* (which directly triggers the *transcription* and *translation* processes) the samples with the best qualities are those obtained from living specimens of *Homo Sapiens Sapiens* during or directly after a conversation.

Although *transcription* and *translation* processes take only few seconds pro thousands positions, just rarely mistakes can be found in the *Homo Sapiens Sapiens'* DNA. Evidence in support of this is provided by the infra - electron micrographs of preparations of sodium thymonucleate described by NIHE colleagues. Accordingly, there is 99.0% probabilities of obtaining good quality samples containing a high active samples of the Biofact GJB2.

It can been summarized that only the common effort of scientists of NIHE working in situ and in the laboratories at the Phronesian Institutes can insurance the survival of the *Homo Transhumanian* species and also reach the greatest advance of Technoscience history: the free deliberation of the own genome and thus of the own evolution.



IG. 3. Air composition in Homo Sapiens Sapiens era and in our current Phronesian (Homo Transhumanian) time.

6th period before the big expedition

What a scandal! The colleagues that presented their research last period didn't show up to this period's presentations. Other Elements of the Institute gave us corrected papers of the past presentation in which the word "eventually" was replaced by "definitely". It's clear the colleagues made a mistake by not informing us that the inoculation of the Biofact GJB2 will "definitely" be inherited by the next generation of fertilized eggs.

And as a result of their lack of transparency, the working environment became very stiff and everybody stopped conversing with each other or even making eye contact.

We were informed that starting with the present period, all papers would be handed out the period following the presentation, in order to avoid more printing errors.

They collected the published papers with the errors while I was on the lavatory, so now I have both versions... It amazes me how a single word can create so much unease.

The current period's theme about the Interpretation Path wasn't teaching me anything I didn't already know. I was left with the same unanswerable questions as always. For instance, what's the relationship between the senses and the genome?... I'm sure they know more. They have to!

I mean, they work on it every period!

They definitely know more but the Institute Experts are probably keeping the information secret... or are they still corroborating its truthfulness? It's boring for us, but it's best for our civilization.

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PROCEEDINGS OF THE PHRONESIAN ARCHAEOLOGICAL DNA ARCHIVE OF THE NATIONAL INSTITUTE OF HOMINIDAE EVOLUTION

GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Genetic differences between Homo Sapiens Sapiens and Homo Transhumanian and their relevance in current health issues

While the genetic difference between *Homo Transhumanian* individuals in the present is minuscule, about 0.1%, the average of the same aspects of the *Homo Sapiens Sapiens* genome indicates a difference of about 0.3%. Chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*) differ from modern humans to a degree of 1.3%. The DNA difference with gorillas, another of the African apes, is about 1.7%. Most importantly, chimpanzees, bonobos, and all kind of humans show the same amount of difference from gorillas. The 0.3% *H. Sapiens Sapiens - H. Transhumanian's* distinction involves a measurement of only substitutions in the base building blocks of those genes that both human kinds share. A comparison of the entire genome, however, indicates that segments of DNA have also been deleted, duplicated over and over, or inserted from one part of the genome into another. When these differences are counted, there is an additional 0.5 to 1% distinction between the *H. Sapiens Sapiens* and the *H. Transhumanian's* genomes (IG. 1).



As already well known and also mention in other presentations in this Congress, the genome of hominids contains the chemical code of biofacts that guides the growth, development and health of the owner. Through the normal process of evolution the genome adapts to the necessities of the species, giving them the necessary tools to live. The DNA -RNA interactions of *transcription* and *translation* gave the Homo Transhumanians the exact Biofacts needed to live under the regular environmental, technical and stress conditions of their context. However, as it is known by all contemporaries, the relative recent activities of the super volcano Taupo changed those regular conditions to which our genome adapted over trillions of periods. The atmospheric conditions since the volcanic activity of the last fifteen years caused a strong increment of the percentage of Argon in the current atmosphere (IG. 2).

As also mention by other colleges, the entire sensitive perception process through acoustic and visual abilities takes place thanks to the presence of air, i.e. Nitrogen, Oxygen and Argon molecules. Owing to the airy and fiery nature of the human body, guanine's fire and adenine's air are generally responsible for acoustic and visual perception.

The modification of the air quality through the increment of Argon in the atmosphere has caused radical changes of the *Homo Transhumanian* sensory abilities, characterized mainly by a significant declination of the visual perception, including total loss of colors' recognition and a strong increment of the acoustic perception, what itself have been the cause of severe mental issues in big proportions of the Phronesian population.

Although the changes in our genome allowed us the Homo Transhumanian to survive over our predecessors, the Homo Sapiens Sapiens, currently it has been proved that a genomes' section deleted from our sequence by evolution is the key Biofact for our survival under the new atmospheric conditions. According to our colleges from the Astro -Atmospheric Department, the new amount of Argon is very similar to the measured in the Homo Sapiens Sapiens' environment few thausends of periods before its extinction. Consequently, the genome code of the humans living in that time include the genetic tools missing at present (Fig 3). Specifically said, the Biofact GJB2, the 13th chromosome of the Homo



Sapiens Sapiens' genome, is the one that was proved to be able to give *Homo Transhumanians* the necessary resistance to current air's quality (IG. 3 and 4).

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inherited it to later generations. This achievement would mean that for future generations the use of visualization safety glasses and filaments for acoustic protection won't be necessary any more, an advantage that certainly is relevant for the survival of the Phronesian civilization and all *Homo Transhumanian* wo-men kind.

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IG. 3. Air composition in Homo Sapiens Sapiens era and in our current Phronesian (Homo Transhumanian) time.

learned the topics of this and the next period during my core training to become an Accompanying Scientist: what is and how to use AD and SF devices, what to do abroad in the mobile laboratory, etc.... Thus, as expected, I wasn't very impressed with this period.

I did however have a very eye-opening experience talking to Element-R4-194. What he told me shattered my hopes for the future...

We only talked briefly, but the conversation was extremely disturbing. He told me that his colleagues from a Laboratory near his made a terrible discovery: Volcano 00IIII-000*0 "Taupo" is not about to stop erupting permanently as everyone had thought, but on the contrary, Taupo is going to erupt again in much more explosive manner than before in a couple of thousand periods and will produce violent disturbances of tectonic plates all over the planet. They don't yet know when exactly this is going to happen.

I don't even know what to... think... what to say... or write?

This discovery changes everything. It basically means that a huge part of our Phronesian civilization, or better said, of the entire Transhumanian world population will die! How are our cities supposed to survive the pressure of the plates' movements? How fierce are those movements going to be?

Even if the Phronesian Experts have enough time to rebuild and modernize the old abandoned underground cities, most of us still wouldn't survive! Our population has exploded since we returned to live on the earth's surface... Not even half of us would fit into those old structures.

And what about the air??? How much worse will it become? Would the GBJ2 Mission still be relevant? We would definitely need to have one generation of Elements already inoculated with the Biofact. The eruption will happen when that generation will probably still be too young to survive such harsh circumstances. Right now there are only 4 infants and 4 nursing Elements that have it... and anyhow, if the air is extremely polluted the new genetic resistance won't be enough... it didn't rescue Homo Sapiens Sapiens either.... If Transhumanians survive they will be forced to live under the earth again...for many generations...

Ve been lying down for too long. I can't even keep my eyes closed. I'm over-thinking, I know, but what else can I do under these circumstances?

The history of the survival of the Homo Transhumanians over the Sapiens Sapiens is repeating itself in my head. I can't stop thinking that we've already survived immense catastrophes... We are strong. Phronesians are the most efficient civilization of our time. Why shouldn't we survive? ...Why?

The whole history is playing over and over in my brain... Transhumanians are the children of catastrophes... Sapiens Sapiens around the Quarter 159-114-01^, what they called Chernobyl, started to mutate. Most of the mutations weren't visible, but their genetic structure and protein-generating system mutated slowly and the changes were transmitted from one generation to the next. One of the many changes was the mutation of the Biofact GJB2, which eventually disappeared altogether.

The first generations after the disaster that Sapiens Sapiens' caused in that quarter were very sick, but slowly, later generations became stronger and stronger, and more and more healthy; much healthier than the Sapiens Sapiens. Nobody knew that they were already the evolved Homo, a different species entirely. But they were the only Humans that survived the first periods after the 00II-000*0 explosive eruption and the following calamities.

Of course they were lucky that the wind blew first in the south west direction. But they had a much higher resistance to radio activity than the rest of their world. Besides, it was especially because of their ability to control their emotions that they didn't allow panic to control them and organized themselves to move into the Optymistychna caves' system in Quarter 159-102-00[^], where they stayed during 547 500 periods, built entire cities, and developed their own technology.

 \mathbf{M} y eyes are heavy and my hands almost cannot hold the pen... My whole body says stop, rest!

It's just that my brain and my heart are running at the same speed since I spoke to Element-R4-194.

No future. I cannot imagine it.

I construct it in my thoughts like a memory made a few minutes ago, when my eyes were open in the darkness of my Area, when I couldn't see a difference between having my eyes open or closed... It was simply dark, entirely dark; no depth, no pattern. It must be like that.

And still, I can sense myself; I know I'm here... somewhere, even if it's a placeless place.

I'm here, inside my body, which is the only place in the endless darkness. I feel so disturbed when I think about the darkness without the only place I really know: the inside of my body.

When I die, when we all die, we won't have a body anymore... Will we disappear with it too?

Or are we going to exist like the air, without a form and without a place?

I'm so disturbed, I'm as inefficient as I have never been before.

I need to calm down and wait for the right solution, it might be hiding somewhere.

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PROCEEDINGS OF THE PHRONESIAN ARCHAEOLOGICAL DNA ARCHIVE OF THE NATIONAL INSTITUTE OF HOMINIDAE EVOLUTION

GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Interpretation Path Phenomena in the Homo Sapiens Sapiens Species

The ability of thinking, staring from the most relevant topic, the thinking about the own efficiency, in the case of the *Homo Sapiens Sapiens*, about the own existence, as well as the identification of the self existence at molecular level, takes place through the common use of the senses, followed by the process of interpretation of what has been sensed, the so called *interpretation path*.

The sensitive objects are part of the external and individual realities. There is no sensitive perception of the sensory organs in absence of external objects, although there is in them fire, earth and the rest of the elements that constitute the object of sensation. The sensitive faculty is not in act, but only in potentiality, while the sensitive is already in entelechy. i.e., the realization of the potential. This structure of entelechy is possible thanks to the nervous system, which must receive and process impulses coming from the world outside in order to react, communicate, and keep the body healthy and safe. Much of these impulses come through the sensory organs: the eyes, ears, nose, tongue, and skin. The specialized cells and tissues within these organs receive raw stimuli and translate them into signals that the nervous system can use and transform into information. Nerves relay the signals to the brain, which interprets them as sight (vision), sound (hearing), smell (olfaction), taste (gustation), and touch (tactile perception). These Biofacts or specialized cells allow the human to accomplish the vital functions or activities that a living organism does. This process takes place also in *Homo* Transhumanians, but the difference is the range of perception that we have in comparison to Homo Sapiens Sapiens.

The Biofacts GJB2, PRPS1, SMPX, AIFM1, COL4A6, GJB6, STRC, KCNQ4, TECTA, POU3F4, MYH14 and SLC17A8; and PRPF31, PFPF8, RPGR, ABCA4, NR2E3, NRL, RHO, OFD1, RP1, RP2, CA4, C80RF37 and TTC8 of the human genome are the main responsible for the senses of acoustic and visual abilities respectively, and thus, the two most important senses for the self - identification processes.



IG. 1. *Interpretation path* triggered by the acoustic and vision Biofacts GJB2, PRPS1, SMPX, AIFM1, COL4A6, GJB6, STRC, KCNQ4, TECTA, POU3F4, MYH14 and SLC17A8; and PRPF31, PFPF8, RPGR, ABCA4, NR2E3, NRL, RHO, OFD1, RP1, RP2, CA4, C80RF37, and TTC8.



These two senses allow the human individual to perceive its own appearance and to communicate, i.e. receive and give information. In this way, these genes are the triggers of the *interpretation path* (IG. 1). This development works parallel to the DNA's process of *translation*, where the RNA uses and interprets the information that "sees" in the DNA gene to create a complementary reflection.

The acoustic and visual abilities cause the selfidentification through their essential role in communication and self perception. Communication builds identity in all hominids through the cognitive process of social learning, which consists on the mimicry of emotions, behaviors and attitudes that are seen in others. At a molecular level, communication functions on the base of the phenomena of complementarity, explained by our colleges in another presentation in this Congress. Accordingly, communication is the interaction with the immediate environment, and there where there is not communication, interaction is not possible and thus survival, as our history as proved. One sensitive impulse triggers the involved Biofacts and with this it causes the *interpretation path*.

The hearing of sound and the vision of patterns and colors are sensitive objects per se. Each is responsible of each kind of sensation. What receives the sound is soundless, what receives the color is colorless. This is also evident in each part of the DNA chain that is formed by phosphate di-ester groups and linking β -Dribofuranose or β -D-deoxyribofuranose residues with 3', 5' linkages, with twenty-three nucleotide residues in seven turns of the helix.

The sensation in action of the acoustic, the visual, and the rest of the sensitive objects are external and is taking place on individual objects.

What have been sensed is called a sign. In *Homo Sapiens Sapiens* these signs are captured by the senses in a period of 0,1 seconds, while the interpretation between what is present and what is absent, the *interpretation path*, takes additional 1,5 to 2 seconds. This process consists of a phenomenon in which a sign, its object or content, and its interpretation exist in an interplay.

The duration of these processes differs in direct relation to the genus and evolution stage of the Hominid. It has been observed that for the identification of the own tissue *Homo Sapiens Sapiens* humans need up to 10 seconds more than *Homo Transhumanian* and *Homo Neanderthalensis* additional 15, while Chimp hominids need only 4 more seconds.

The chain of thoughts in the *interpretation path* takes place around an interrelation of what is perceived through signs and what is not. In this relation of what is present and what is absent, the first refers to the object that act as an "antecedent". This antecedent must be present and perceptible while the "following" has to be absent. The value of the "antecedent" is its interpretation as a sign of the existence of its cause (the "following"), reason why the cause is not important any more in the process. In consequence, every interpretation let to know more about the sign: possible origin, reason that caused it and even the context. There is always a semiotic relation in which a specific kind of antecedent is correlated to a specific kind of following. As a result of this, the sign becomes independent from the channel that transmit it. As explained before, high specific complementarity phenomena are taking place while interpretation is being processed (IG. 2).

Thus, signs are something nonmaterial, but a interrelation of implications between two sentences. A sign in the *interpretation path* stands for something else. It is an *antecedent* or previous signal that reveals a following event or sign that is about to be seen or heard. In this case the "following" is not meant in a chronological way, but as something that is actually the cause of the antecedent. An example of this is a strident sound as a signal of the existence of a collision, or smoke as a sign of the existence of fire (IG. 3).



IG. 3. Process of signs interpretation in *Homo Sapiens Sapiens* brain. 1. Transmitter of a sign; 2. Biofacts: acoustic and visual; and 3. Brain.

In the ear the sound is something external and exists in act and in potency. The sound in act is always produced by something hitting or reflecting against something in something. The vacuum is the principal agent of listening when, together with the air, in compacted form and without losing its unity, is set in movement. The sound is like the light: it is always being reflected.

The path of sound transport over the outer and the middle ear to the inner ear is called the air line. The ear is naturally adapted to air and precisely because it is immerse in it and contains air, when the one outside moves, the inside air is moved too. The human, as any other animal, is unable to hear from all parts of its body, as well as the air does not enter it from everywhere. The air inside the ears is enclosed with the purpose of letting it remain motionless, in this way it can accurately perceive all movement variations. High sounds move the organ a lot in few time, while low sounds moves it few and in very long time. The *Homo Sapiens Sapiens* acoustic ability allow it to perceive sounds between 20 Hz and 20,000 Hhz, 1000 Hz less than *Homo Transhumanian*. A *Sapiens Sapiens* individual with a normal hearing sense can listen very low sounds of about 0 HdB, while noises of more than 120 HdB can cause severe pain and damage its hearing system.

The voice is a kind of sound that is exclusive to living beings. The perception of one's own voice is mainly caused by the bone conduction, which is in many hominids, including *Homo Sapiens Sapiens*, dissembled by the air conduction.

The "visible" is the object of the sight. The light is the color of the transparent one when this is in entelechy under the action of fire or an agent similar to the body situated on the superior part of the Area. The proper functioning of the sight is only possible when the color sets into motion the transparent, and the sensory organ is, in turn, moved by the latter with which it is in contact. Thus, what is seen in the light is the color (or

the patterns that it forms), that is why it is not visible if there is no light. This is what covers all those things that are visible per se.

Since the air of the atmosphere is the factor that allows the dissemination of light, its role in the visual ability is as relevant as the one of the light itself.

While the modern human's eye is able to perceive electromagnetic radiations of the light spectrum with wavelengths between 350 and 780 Hnm, *Homo Sapiens Sapiens* perceived only wavelengths between 400 to 700 Hnm. took the exact amount of Compound 01110000~ necessary to rest 240 minutes. Immediately after that my eyes opened and my mind felt almost empty. I could not think of anything.

I suppose this is the only way to keep being efficient. I'll go to the Congress now, perhaps the news of the big discovery will be accompanied by new solutions.

The last presentation of this period, of the entire Congress, was a big surprise for me — a big surprise of not hearing anything new. Not a single word about what is going to happen.

Seems like they don't believe anymore in the ability of Transhumanians to control their emotions, to act in the most accurate way and to be strong enough to follow an order that brings a solution... Or perhaps they're working out a survival plan but will make it public on another occasion? But when?

I don't know, but the mobile laboratory, I mean Element-G63-292, Element-K42-308 and I are going to depart in four periods.

I talked for a second with Element-R4-194. He told me some other details about the infants that have already been inoculated with GJB2. I don't want to imagine how he gets so much information...

However, as he told me, the Elements taking care of the infants pointed out an observation that at first the Experts didn't wanted to take seriously, but that is slowly forcing everybody to think: these infants show stronger attachment to the Elements around them than regular Transhumanian offspring. They seem to be more emotional and have a tendency to search for contact amongst themselves but also with other Elements around them. It is the opposite of what would be expected: these infants aren't continuously lamenting, but rather smiling and laughing instead. This factor might be a great problem for the GBJ2 inoculation theory and its expectations. Are those infants ever going to be able to concentrate? Will they ever be able to live efficiently?

That is to say, of course, if the Transhumanians survive the upcoming catastrophes...

Element-R4-194 invited me to come the period after the next one to his Laboratory at the Techno-Biofact Improvement Department of the Institute. I would be able to do it if I tell my Coordinator, Element-C41-218, that I need some extra samples for the preparation of the Mobile Laboratory...

I've never lied to my Coordinator before. Actually I've never lied before at all, or even said something untruthful to anyone on purpose. It happened once by mistake and it took me few hundred minutes to figure it out and correct myself within the same period. Telling such a lie would not just be extremely inefficient, but if somebody discovered it, it would also certainly cost me my enrollment and thus my opportunity to travel back to the Sapiens Sapiens era, and my chance to fulfill all of my duties.

And to stand up again... or rather, I was lying in bed for quite a while. I have rested too little in these periods, and I am already risking the GJB2 Mission just by decreasing the agility of my brain and thus my efficiency level, which will be measured again just before we must depart.

I made a decision: I must go there and become properly informed about the actual situation. If there is anything I can do to save our Transhumanian wo-men kind, then I am forced to do it. I am at least forced to try.

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GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Interrelation between Homo Sapiens Sapiens' Genome, Immune System and Interpretation Path. New Methods for Measurement and Evaluation

The analysis of the *Homo Sapiens Sapiens'* immune system made by the NIHE laboratories has proved that its functions work in exact same way than the *interpretation path* and that they even are triggered by this process. Recent studies have also indicated a direct effect of the Biofact GJB2 on the bodies' reaction to the Argon percentage in current atmosphere. From the impulses created by the *interpretation path*, those caused by the process of self-identification showed to be the most significant ones because of their triggering effect on the Biofact GJB2 and thus in the part of the immune system that is relevant to us.

Accordingly, the efforts of the NIHE have been focused on the development of methods and tools for the measurement and evaluation of the self identification process and all factors involved in it.

For the analysis of the self-identification process during the *interpretation path*, the so called **AD** device offered the best results in measuring the brain and genetic activities. This devise is able to measure the production and transmission of the biophotons triggering the activities of the DNA and RNA groups

by enhancing the electrical activity needed for the complementarity effects on *translation* and *transcription* processes (IG.1).

Since the **AD** device works through the conduction of vibrations though the cranial bones, it is also able to allow communication between hominids of different evolution stages. With this device, all Hominids are able to perceive sound through the bones because



IG. 1. *Interpretation path* in *Homo Sapiens Sapiens*. Fluctuation of Biophotons throughout the brain.

the sound waves directly reach the cochlea and thus stimulate the hair cells. By doing so, a common language is not longer necessary since the impulses and their meaning reach directly the brains of the communicating humans. Due to the hominids' ground necessity of self definition in order to communicate its ideas and specially to make decisions, the communication itself triggers the self -identification



process to be measured by the **AD** device. In this way the device fulfill a double task, that of measuring the genetic processes and the biophotonic transit inside the brain, and that of allowing communication, a vital factor for the activation of the Biofact GJB2. Direct contact with *Homo Sapiens Sapiens*' individuals is necessary for the use of this device.

The specialists from NIHE developed the **SF** device, in order to complement the information obtained by the **AD** tool. Using a reflecting surface as a prosthesis, this device is able to measure the magnitude of the stimulating field and the enzymatic DNA processes related to it.

As a prosthesis, mirrors are channels that allow information to pass. The reflected image, alike any other object cannot be interpreted. What is interpreted is always the stimulating field or duplicate of the reflected object. In the *Homo Sapiens Sapiens* brain this is caused due to an enzymatic influence of the interactions which initiates the dynamic process of DNA duplication in the context of cell division, or also during the DNA replication in biotechnological processes (IG. 2).

Our brain had already trillions of periods to get used to the vision ability and the inversion of the retinal image. *Homo Sapiens Sapiens*, however, have only had couple of millions of periods to get used to the image on the mirror, reason why their brain still does not understand completely the conceptual reflection of the physical phenomenon of illusion, causing a divergence between perception and reasonable judgment. Due to this fact, mirrors are necessary for identity tests and test of the evolution of the brain of hominids. The Ideovision is connected to a very detailed teleology, endeavoring to find a meaning in every detail. The perception of the own body as a unity and the experience of a mirror are deeply linked. In this way the Subjectivity, the Mirroring and the Semiosis follow each other in a circle of manifestations of the perception, thinking and awareness. By the age of about six months, Sapiens Sapiens' infants and chimpanzees both seem to recognize their reflection in a mirror. While chimpanzees rapidly lose interest in the discovery, Sapiens Sapiens' typically become very interested and devote much time and effort to explore the connections between their bodies and their images. This process is related directly to the effect caused by the absolute space and air contained in it. As the tests showed, the surface of the water filling of a rotating container, is bended in a parabolic line due to the centrifugal forces arising from the rotation. This rotation is relative to the absolute space.

When humans (*Homo sapiens sapiens* as well as *Homo transhumanian*) are in front of a mirror which is distorted, they perceive that it is somehow still saying the truth, since it really reflects rays originated by their bodies, and thus the *interpretation path* can take place. In this case they interpret the information given by the mirror in the same way they would interpret light refraction. The electric impulses of the genetic processes of *translation* and *transcription* cause a clear lineal fluctuation from the sensory organs to the occipital and cerebellum areas of the *Homo Sapiens Sapiens*' brain. The **SF** device as an external element is able to follow these routes, record them and measure them (IG. 3).



only to be placed at a distance of at least 2 meters from the studied specimen. For this reason this device has been successfully used for the preparation tests necessary for the design and calibration of the analysis' station in the Mobile Laboratory that will travel to the *Sapiens Sapiens*' era.

Due to their abilities, both devices, **AD** and **SF** together are able to trigger the *interpretation path* and to measure all involved processes, giving reliable information about the activities of the *Homo Sapiens Sapiens*' Biofact GJB2, which is of extreme interest to Phronesian civilization and all *Homo Transhumanian* human kind, as it was explained in another presentation from our colleges from NIHE Health Research Department (IG. 4 and 5).

The virtual duplication of the stimuli works as a duplicate of the body as an object, as well as a duplicate of the body as subject, which seem to separate from each other. The experience of the mirroring is a singular experience of the threshold between perception and signification, due to the permanent temptation of the humans to believe they were someone else. Specially this temptation, which has a strong presence in *Homo Sapiens Sapiens*' genome, causes the high degree of security of a reliable results from the **SF** device.

The *interpretation path* in the case of the *Homo Sapiens Sapiens'* visual ability, i.e. the relation of the present and the absent, is seen when the imaginary control of the own body precedes the real one. This secondary but extremely relevant process causes the acceptance of the image on the mirror as a manifestation of a symbolic matrix in which "I" in its original form burst. In this way the language represents the "I" in its function as a subject in general. This very phenomenon is present within the genetic process of *translation* and protein creation which can be measured by the **AD** device mention before.

While the **AD** device must be applied directly on the head of the studied hominid and be activated by verbal communication activity, the **SF** device needs





NIHE

GENETIC CHARACTERISTICS OF THE HOMO SAPIENS SAPIENS AND THEIR RELEVANCE IN CURRENT PHRONESIAN HEALTH ISSUES Congress Paper

Field Research: Phronesian Mobile Laboratory. Direct Observation of Hominids, Collection of Samples and Qualitative Interviews with Individuals of the Studied Group. Manual for Accompanying Scientists

We are very proud to present the first Mobile Laboratory station that will travel 44 486 430 periods back to the *Homo Sapiens Sapiens*' era. The Accompanying Scientist will collect the necessary samples of the Biofact GBJ2 for its further alteration and synthesis into a synthetic Biofact that can be inoculated in *Homo Transhumanian* egg cells.

In order to give visibility to the hard and important work of this mobile laboratory, and as an effort to make more transparent the work of NIHE in other places and epochs while studying different kinds of Hominids, especially under the current great importance of sample collection, it was decided to include in this Congress Paper the regular manual of activities for the scientists accompanying the Phronesian Mobile Laboratory. Further details of the expedition are confidential and thus will not be shared in this paper.

Once the mobile laboratory has been built up and calibrated by a specialized NIHE Technician (usually the same person that transports the laboratory and the Accompanying Scientists to the place and time of study) the accompanying scientists shall immediately start testing the proper function of the experimentation tools: the **AD** and **SF** devices, as well as the **HK** centrifuge. Since the Accompanying Scientists are responsible for the correctness of the samples' preparation and analysis, as well as the feasibility of the study in the selected context, it is of their own interests to verify all devices before and after each test, and to protect the Archaeological DNA Archive (A·DNA Archive) and themselves from every possible infection.

Although the selection of the position of the Laboratory in the studied period is the responsibility of the specialists from NIHE Institute Laboratories, the accompanying scientists are encouraged to make recommendations depending on the observations they make upon arrival.

The pre-establish procedure for the analysis will be the same as the one explained and practiced during the training of the accompanying scientists. Small improvisations needed for the realization of the test on the studied individuals are allowed, however continuous communication with the NIHE staff at the Institute is strongly recommended.

The interaction with the studied hominids shall always take place in teams. At least one scientist shall welcome the individuals, give them the necessary protection equipment and take care that they do not touch or contaminate the samples of the A·DNA Archive. It is also the responsibility of this scientist to make a first direct observation and general evaluation of each visitor, and to communicate to the rest of the team if any irregularity or difference to the expected parameters is detected. In some cases, when the



laboratory is bigger than the regular stations or the interest of the local contemporary community is big (and thus numerous individuals are visiting) the welcoming/safeguard team shall be assisted by the Technician, who will be responsible for the safety of the collected samples.

The scientist responsible for the direct interviews with the studied individuals and the collection of their DNA samples must at all time avoid any direct contact with them or their samples. This scientist must register all observations after every meeting and corroborate that the measurement signals received by the **AD** device are being properly correlated to the **SF** device's lectures. Especially important is to verify if the communication through the **AD** device is correct and that both the scientists and studied individuals can understand each other. It is the responsibility of the interviewing scientist to disinfect and recalibrate all devices before every new contact with the *Homo Sapiens Sapiens'* individuals.

According to the current National Phronesian Legislation for Living Beings Rights, each individual, independently of its kind, has the freedom to decide if it wants to participate in any sort of study, to know the origin of other possible participants and specially to decide if it wants to give any sample of its Biofacts, for example its GJB2 gen. Consequently, the A·DNA Archive is entirely dependent on the biological donations that the individuals agree to make. By donating a sample, the owner automatically accept the de-codification and manipulation of its biotic artifacts, and simultaneously concedes the ownership to the entity that received the donation. Since the agreement of donation is verbal, the proper function of the **AD** and **SF** devices play a key role, not only on a scientific level, but also a legal one.

Thus, it is of extremely high importance to observe and follow the current good manners and behavioral rules of the studied hominid group. The success of the analysis, and specifically of the collection of DNA samples, relies in big part on this factor. It is the responsibility of the accompanying scientist, specially of the interviewer, to persuade the individuals to participate in the study and to donate their DNA samples, which is only possible by gaining their trust through the customary behavior.

The interview with the individual Sapiens Sapiens shall always include the following nine stages: a) welcoming sign; b) a visual invitation to apply the **AD** device on their head: c) a question about the weather (for device testing purposes); d) a short introduction to the general goal of the A·DNA Archive and the benefits that it would offer to its society; and e) an invitation to give a sample that could be analyzed. Once the DNA of the individual has been treated, the interviewer must f) invite the individual to take the sample out of the centrifuge and then g) inform the individual about the sources from where the other hominid samples were obtained. In the final stage the interviewer must h) make a clear invitation to donate the sample, including a phrase about the importance and positive impact of doing so; and i) thank the individual, retire the **AD** device, and send them back to the entrance area where they will be asked to leave. The selection of the necessary signs and phrases for the interviews is entirely dependent on the selected civilization and its good manners and behavior rules. It is especially important to communicate content "g)" in a positive way, since some individuals from different Sapiens Sapiens' groups might have a negative reaction to this information. It is strictly forbidden for the studied individuals to know the time and place where our civilization lives, and specifically to know about the extinction of their own species.

After finalizing every working period, the devices and the laboratory must be disinfected and prepared for the next working session. Before leaving the laboratory, all accompanying scientists must activate their coordination devices and connect them to the alarm system of the A·DNA Archive.

Once the planned analysis' journey is finished, the accompanying scientists must make the final inspection and packaging of samples and wait for the specialized technician to re-calibrate the machine and bring it to the stage of departure. All this is of extreme importance in order to allow the safe travel back to the NIHE station in our Phronesian time.

Accompanying scientists are strongly counseled to scrutinize the right implementation of all guidelines described in this text and to collect as many samples as possible.

3rd period before the big expedition

The present period is my obligatory recreation time. I have to register my activities and my food intake on the **NM** device that I wear around my wrist. It measures my corporal behavior, including my heart and brain activities, and it counts my steps and the speed of them. Any measurement that does not match the values specified by my Coordinator activates a short alarm. In this way she can be sure that I'll treat my body in the right way and that I'm fit for our big departure in three periods.

So yes, little book, I am very quiet this period. But I don't need to force myself. I took Compound 01110010`. My body feels heavy, it can move only slowly. In my head all ideas and worries are gone. It feels as if a big white cloud were covering my brain. I cannot explain it in any other way. I sleep in the times I'm supposed to, I wake up as scheduled, and I feed myself as I am told to. There is no sound but the one of my feet moving slowly, of my jaw chewing slowly. My skin feels deeper than normal. The world around me seems to be a picture where everything is and stays in the place that it was given. Food does not have a taste. I sit here, quiet, waiting for the next scheduled resting minutes. As I bend my back a bit I feel little electric impulses in my neck. This is amusing actually, but only for a few seconds. I automatically sit straight again. I just wait for the minutes to pass... went to the Techno-Biofact Improvement Department. Element-R4-194 saluted me at the entrance hall as if he did not know me, and escorted me to his Laboratory. Once in his cubicle, he handed me the necessary protection equipment, and I followed him through several long corridors in silence. We met three Security Supervisors on our way, but they just scanned the codes on our coats rapidly and let us through. Anyway it was impossible to recognize us with all that equipment on.

We went directly to the secluded nursery where we met Element-M30-535, Element-M78-430, and Element-M56-302, who care for the eight inoculated infants. They saluted us friendly by shaking their heads and immediately started describing the biotechnologically-altered offspring. The eggs were fertilized in two different experiment sessions and each of the two groups was inoculated with a different variation of the Biofact GJB2. As they explained, in the time when the air quality of the Sapiens Sapiens was similar to our current one, GJB2 was not a well-defined Biofact, but in many cases it was present as various mutations within diverse populations.

The first inoculated group is composed of four 730 periods old infants, the second by four 185 periods old nurslings. As Element-R4-194 told me before, these infants behave differently than regular Homo Transhumanian offspring. What I still am thinking about is an amazing detail that I noticed in the last hundred periods: the younger infants cry more than the older ones when they were the same age, they seem to feel strongly disturbed by any disruption in the light conditions in their area, and they also feel disturbed by contact with anyone new to them. On the other hand, the infants in the older group react peacefully during changes in the light conditions and are pleased every time they meet new Elements. They are very friendly not only to each other, but they also constantly organize themselves to fulfill tasks and cheer each other up in order to overcome new challenging situations. For example, Element-M30-535 showed us a video where one of the female infants helped a male infant climb a slide and to sit on top; following that, she appeared to calm him down and help him by giving him a push to get started sliding. While sliding, both kids laughed and the female infant applauded him for his success...

The nurse didn't need to further explain the significance of this video. Every Phronesian knows that it would be in vain to expect this type of behavior from us or any other Transhumanians. Competition is, after all, the first concept we learn. Every single Element wants to be better than the rest. Nobody harms others, and of course we support each other, but we do all this in a purely non-emotional way.

After a 15 minute talk, Element-M78-430 escorted me to the area where the older infants live. At first when we arrived they seemed to be busy playing and ignored us. Then one of the males approached me and started making amusing faces, making senseless sounds as if he was trying to talk to me. I've never seen anything like this before! I guess that I haven't actually seen other infants after I myself was no longer one. It was very impressive. Suddenly, the female from the video came and held my right leg, looking up at me and smiled. I was perplexed. I bent down and she took my finger with her little hand. Both infants showed me around. It was such an unusual situation. I felt like I was on a planet that I've never heard of before. Those five minutes were long, nice, and at the same time disturbing. After an indication by Element-M78-430, we said farewell and went back to the nursery dialogue area. After visiting the infants, the nurses told us that they have been registering especially high efficiency levels on these four small individuals, which in a few cases were even higher than the known data from regular Transhumanians. In their opinion the specific kind of mutated GJB2 has strengthened the known qualities of Transhumanians and also gifted them the impulse to connect with each other. At the same time, they observed that these infants have the disadvantage that they cannot identify their own material existence, their own tissue, as other Transhumanians can, and even less so than the younger inoculated infants. However, they do seem to recognize their body as a tool by working together, no matter with whom, Phronesian or their own modified kind.

The Elements nursing these infants told me that they have the suspicion, a theory rather, that the real solution to our big upcoming problems (of which they knew about previously, before our contact) would be to find or cause those qualities in ourselves by finding a grown up individual with this kind of GJB2 and then analyzing all of their genetic and electrical impulses during conversation. With this information it might be possible to copy the routes and frequency of the Biophotons created, and reproduce them in the brain of regular Transhumanians.

As a solution for the future, they suggested inoculating all eggs with this specific mutation of GBJ2. However, the Experts of the department anticipate a negative effect of the use of this kind of GJB2, and warn that the introduction of emotional behavior in our society would certainly bring Transhumanian civilizations to similar catastrophes as those caused and suffered by the Sapiens Sapiens...

After all the descriptions and explanations, the three Phronesians finally communicated to me why they wanted to meet with me:

they intended to convince me to modify the goal for the GBJ2 Mission in Sapiens Sapiens time, and thus, instead of collect all sorts of DNA samples and Biofacts' variations, find the exact kind of mutation they favor and collect it, if not solely, than at the very least in a significantly larger percentage than the rest of the samples. According to them, this specific variation is widely spread in the selected Quarter where the Mobile Laboratory will land and start the collections.

I didn't know what to say, I couldn't promise them anything. I felt very disturbed and uncomfortable. I did assure them however that I would not betray them by telling others about their ideas and analysis. I thanked them for their friendliness and trust, and left with the promise that I would think about their request.

I learned then that Element-R4-194, as well as many others in his department, supports the opinion and request of the scientists I've met. We walked back to his Laboratory in silence. My entire body felt heavy and old. My mouth was dry. I just stared at the floor. After giving him back the protection equipment he suddenly took my hand and made eye contact. I was shocked. He told me to make the right decision and save the future of the Homo Transhumanians race... I just looked again at the floor and exited the premises as fast as I could. I would have run if I could, but I knew it would peak the suspicion of Security Supervisors all over the city.

Now I sit here, in my Area, alone with this experience, with this ocean of thoughts. I ask myself why did I go there, why?

My whole body is tense, I feel huge discomfort, almost pain...

I'll take Compound 01110000~ and go immediately to rest. The next period is the last before departure. I must be as efficient as ever, I'm the main Accompanying Scientist and have thus great responsibility, especially to my colleagues Element-G63-292 and Element-K42-308.

The last preparations before the big expedition to the Homo Sapiens Sapiens era and the secret landing in quarter 132-098-14[^], what they call Austria, have been effectively performed, and the equipment is all operating appropriately.

Now I'm sitting in my Area for the last time, "ready" to depart. My head is about to explode. Everything I saw and heard last period at the nursery keeps haunting me...

There are moments during which I have to remember the thoughts I had in the past resting periods, and in the hymns of Phronesian history, about how Transhumanians survived because they could communicate, because they could organize themselves... And I have to ask myself: What if that time it only worked because they acted that way, not only out of necessity, but also due to the bonds between them? What if the qualities of those four infants are exactly the ones we need?

Immediately the word "history" also pushes me in the opposite direction, back to the opinion of the Experts: emotionality is extremely dangerous!

Until now, after several billions of periods, no Transhumanian civilization has ever had a war or even serious disagreements that couldn't have been solved by pacts and legislation. In the same frame of time Sapiens Sapiens had endless wars, countless combats, and killed each other in massive numbers for the most illogical reasons...

I'm lost, I don't know what to do, what to choose.... The discussion in my mind starts over and over again. I even feel corporal pain from this. I don't want to have to make the decision that might destroy or save Transhumanians... I don't want to lie to my colleagues or betray them. I have to stop now. I must wake up in less than 400 minutes. I must force myself to sleep. I must force myself to do it without the Compound. I'm Transhumanian, I must be able to control my emotions... I shouldn't have any! In a few minutes I'll leave my area and move to the Laboratory. Our departure is in exactly 480 minutes.

I don't know what to do with you, you little book full of secrets. I hate you. I cannot take you with me. It disturbs me to leave you here. But I have no other option. They will supervise everything I'm taking with me. At least here nobody is supposed to inspect anything. I hope that's the case.

The big expedition is about to start.

I'm summoning all of the courage inside of me to stay strong and to make the best decision. I wonder what I'll do if I find an individual with the special GBJ2 mutation. What if he or she comes to the Laboratory? What if he or she actually makes a donation?

May none of my colleagues find out my divided concentration. May I keep being efficient. May my thoughts stop tormenting me...

I'm disturbed but excited, I might lose everything and hurt those that believe in me, but perhaps I might help others despite my inefficiency. Perhaps I will fulfill my self-imposed task...

ATTACHMENTS

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Indikation

 Personen mit chronischer oder temporärer Schallleitungsschwerhörigkeit, die eine Knochenleitungshörschwelle innerhalb der markierten Fläche im Audiogramm aufweisen.



BIOGRAPHY

Lala Nomada is a Mexican artist based in Vienna. She is a multidisciplinary artist mainly active in the field of performance art and installation. After 5 years of training at the painting academy of the Instituto Cultural Cabañas (Guadalajara, MX), and due to her interest in sciences, she studied Conservation and Restoration of Cultural Heritage at the ECRO (Guadalajara, MX) and later on Restoration of Stone and Ceramic Objects at the HAWK (Hildesheim, DE). In 2007 started her training in theater improvisation and in 2009 discovered performance art. She participated in several performance workshops with internationally recognized artists (Jürgen Fritz, He Chenyao, BBB Johannes Deimling, Antoni Karwowski, I. Keiner, Zierle & Carter, Zhou Bin, W. Costa, Peter Kozek, among others). From 2016 to 2018 she studied the master program "Art & Science" at the University of Applied Arts Wien (Vienna, AT), where she could fulfill her interest in science for the creation of art, not only for its conservation.

Her work has been presented internationally in solo and in collaboration projects. She has participated in festivals such as "LA/LA" (US), "UP ON" (CN), "Mothers' Tongue" (FI), "CREATURE Live Art" (LT), "Arizona Between Nosotros" (US), Crossover (DE), "Dugtungan" (PH), "Blauverschiebung" (DE), "Performing Sciences" (DE) and "Crossover" (DE), among others.

The work process of Lala Nomada is based on the creation of ephemeral sculptures during performative processes executed by herself or by the audience. Thus in her installations, the participant play the central role and give life to the work by activating the designed devices and chain reactions. During her performances she transmits to the audience not just an image but also the interest on her condition and the material qualities, its sounds, weight, flavour and textures. Lala puts all senses into the perception of the audience.



Detail of "Trust Blind". Performance - Installation based on the research of the historical site Friedrich Fort. Duration: Chapter I and II, 20 min each. Crossover Festival. Kiel, Sept. 3rd and 4th, 2016. Pict. R. Ghadyani