

Scientists from Human Genome Project
Junk DNA possible ET origin?

Alien DNA group of researchers working at the Human Genome Project will be announcing soon that they made an astonishing scientific discovery: They believe so-called non-coding sequences (97%) in human DNA is no less than genetic code of an unknown extraterrestrial life form.

The non-coding sequences are common to all living organisms on Earth, from molds to fish to humans. In human DNA, they constitute larger part of the total genome, says Prof. Sam Chang, the group leader. Non-coding sequences, also known as "junk DNA", were discovered years ago, and their function remains mystery.

Unlike normal genes, which carry the information that intracellular machinery uses to synthesize proteins, enzymes and other chemicals produced by our bodies, non-coding sequences are never used for any purpose. They are never expressed, meaning that the information they carry is never read, no substance is synthesized and they have no function at all. We exist on only 3% of our DNA.

The junk genes merely enjoy the ride with hard working active genes, passed from generation to generation. What are they? How come these idle genes are in our genome? Those were the question many scientists posed and failed to answer - until the breakthrough discovery by Prof. Sam Chang and his group.

Trying to understand the origins and meaning of junk DNA Prof. Chang realized that he first needs a definition of "junk". Is junk DNA really junk, (useless and meaningless) or it contains some information not claimed by the rest of DNA for whatever reason? He once mentioned the question to an acquaintance, Dr. Lipshutz, a young theoretical physicist turned Wall Street derivative securities specialist. "Easy," replied Lipshutz. "We'll run your sequence through the software I use to analyze market data, and it will show if your sequences are total garbage, "white noise", or there is a message in there." This new breed of analysts with strong background in math, physics and statistics are getting more and more popular with Wall Street firms. They sift through gigabytes of market statistics, trying to uncover useful correlation between the various market indexes, and individual stocks.

Working evenings and weekends, Lipshutz managed to show that non-coding sequences are not all junk, they carry information. Combining massive database of the Human Genome Project with thousands of data files developed by geneticists all over the world Lipshutz calculated Kolmogorov entropy of the non-coding sequences and compared it with the entropy of regular, active genes. Kolmogorov entropy, introduced by the famous Russian mathematician half a century ago, was successfully used to quantify the level of randomness in various sequences, from time sequences of noise in radio lamps to sequences of letters in 19th century Russian poetry. By and large, the technique allows researchers to quantitatively compare various sequences and conclude which one carries more information than the other does. "To my surprise, the entropy of coding and non-coding DNA sequences was not that different", continues Lipshutz. "There was noise in both but it was no junk at all. If the market data were that orderly, I would have already retired."

After a year of cooperation with Lipshutz, Chang was convinced, there is a hidden information in junk DNA. However, how could one understand its meaning if the information is never used? With active sequences you try to watch the cell and see what proteins are being made using the information. This wouldn't work with dormant genes. There will be experiment to test a hypothesis; one should rely on the power of his thought. Since there are letters, it should be tested in some old languages, perhaps Sumerian, Egyptian, Hebrew, and so on. Prof. Sam Chang solicited help from three specialists in the field, but none of them managed to find a solution. There were no cultural clues, no references to other known

languages, the field was too alien for the linguists.

"I asked myself: who else can decipher a hidden message?" Chang continues. "Of course, cryptographers! In addition, I began talking with researchers at the National Security Agency. It took me few months to make them return my calls. Were they running background checks on me? Alternatively, were they too busy lobbying senators on retaining and strengthening their authority to control exports of encryption technologies? Eventually, a junior fellow was assigned to answer my questions. He listened, requested my questions in writing and after another, few months turned me down. His message was polite but meant, "Go to hell with your crazy ideas. We are a serious agency, its National Security, dude. We are too busy."

Well, Sam, forget the Government, talk to the private sector. Therefore, I began approaching computer security consultants. They were genuinely interested, and a couple of them even began working on my project, but their enthusiasm always faded after a month. I kept calling them until one nice fellow told me: "I'd love to work on your project if I had more time. I am overbooked. Emissaries of major banks and Fortune 500 companies are begging me to plumb the holes in their networks. They pay me \$500 an hour. I can give you an educational discount, can you afford \$350?" Scrambling \$15/hr for a post doctoral studies is a big deal in academia, \$350 sounded as something extraorbital." Eventually Prof. Chang was referred to Dr. Adnan Mussaelian, a talented cryptographer in the former Soviet republic of Armenia. Poor fellow barely survived on a \$15 a month salary and occasional fees for tutoring children of Armenian nuveau riches. A \$10,000 research grant was a struck of luck, he began working like a beaver.

Adnan promptly confirmed the findings of his Wall Street predecessor: The entropy indicated tons of information almost in the clear, it was not too strong cryptographic system, it didn't appear to be a tough problem. Adnan began applying differential cryptoanalysis and similar standard cryptographic techniques.

He was two months in the project when he noticed that all non-coding sequences are usually preceded by one short DNA sequence. A very similar sequence usually followed the junk. These segments, known to biologists as alu sequences, were all over the whole human genome. Being non-coding, junk sequences themselves, alu are one of the most common genes of all.

Trained as a cryptographer and computer programmer, and having no knowledge of microbiology, Adnan approached the genetic code as of computer code. Dealing with 0, 1, 2, 3 (four bases of genetic code) instead of 0s and 1s of the binary code was a sort of nuisance, but the computer code was what he was analyzing and deciphering all his life. He was on familiar territory. The most common symbol in the code that causes no action followed by a chunk of dormant code. What is that? Just playing with the analogy Adnan grabbed the source code of one his programs and fed it into the program that calculates the statistics of symbols and short sequences, a tool often used in decoding messages. What was the most common symbol? Of course, it was "/", a symbol of comment! He took a Pascal code, and it were { and } ! Of course, the code between two slashes in C is never executed, and is never meant to be executed; it is not the code, it is the comment to the code!

Being unable to resist the temptation to further play with the analogy, Adnan began comparing statistical distributions of the comments in computer and genetic code. There must be a striking difference. This should show up in statistics. Nevertheless, statistically, junk DNA was not much different from active, coding sequences. To be sure, Adnan fed a program into the analyzer: surprisingly, the statistics of code and comments were almost the same. He looked into the source code and realized why: there were very few comments in between the slashes, it was mostly C code the author decided to exclude from

execution, a common practice among programmers.

Adnan, religiously inclined person, was thinking about the divine hand - but after analyzing the spaghetti code inside the sequences he convinced himself that *whoever wrote the small code was not God. Who wrote the active, small coding part of human genetic code was not very well organized, he was a rather sloppy programmer. It looked like rather somebody from Microsoft, but at the time human genetic code was written, there was no Microsoft on Earth.*

On Earth? It was like a lightning... Was the genetic code for all life on Earth written by an extraterrestrial programmer and then somehow deposited here, for execution? The idea was mad and frightening, and Adnan resisted it for days. Then he decided to proceed. If the non-coding sequences are parts of the program that were rejected or abandoned by the author, there is a way to make them work. The only thing one needs to do is to remove the symbols of comments and if the portion between the `/*.....*/` symbols is a meaningful routine it may compile and execute! Following this line of thought, Adnan selected only those non-coding sequences that had exactly the same frequency distribution of symbols as the active genes. This procedure excluded the comments in Marcian or Q, whatever it was. He selected some 200 non-coding sequences that most closely resembled real genes, stripped them of `/*, //,` and similar stuff and after few days of hesitation sent e-mail to his American boss, asking him to find a way to put them in E-coli or whatever host and make them work.

Chang did not replied for two weeks. "I thought I was fired", confessed Dr. Mussaelian. "With every day of his silence I more and more realized how crazy my idea was. Chang would conclude I was a schizophrenic and would terminate the contract. Chang finally responded and, to my surprise, he did not fire me. He had not bought my extraterrestrial theory but agreed to try to make my sequences work."

Biologists have attempted for years to make junk sequences express, without much success. Sometimes nothing turned out; sometimes it was junk again. It was not surprising. Grab an arbitrary portion of the excluded computer code and try to compile it. Most likely, it will fail. At best, it will produce bizarre results. Analyze the code carefully, fish out a whole function from the comments, and you may make it work. Because of careful Mussaelian's statistical analysis 4 of the 200 sequences he selected, began working, producing tiny amounts of a chemical compounds.

"I was anxiously awaiting the response from Chang," says Dr. Mussaelian. "Would it be a more or less normal protein or something out of ordinary? The answer was shocking: it was a substance, known to be produced by several types of leukemia in men and animals. Surprisingly, three other sequences also produced cancer-related chemicals. It no longer looked like a coincidence. When one awakens a viable dormant gene, it produces cancer-related proteins. Researchers began searching Human Genome Project databases for the four genes they isolated from junk DNA. Eventually, three of the four were found there, listed as active, non-junk genes. This was not a big surprise: since cancer tissues produce the protein, there must be somewhere a gene, which codes it! The surprise came later: In the active, non-junk portion of the code the gene in question (the researchers called it "jhlgl", for junk human leukemia gene) was not preceded by the alu sequence, i.e. the `/*` symbol was missing. However, the closing `*/` symbol at the end of "jhlgl" was there. This explained why "jhlgl" was not expressed in the depth of the junk DNA but worked fine in the normal, active part of the genome. The one who wrote the basic genetic code for humans excluded portion of the big code by embracing them in `/*... */` but missed some of the opening `/*` symbol. His compiler seems to be garbage, too: a good compiler, even from terrestrial Microsoft, would most likely refuse to compile such program at all.

*Prof. Sam Chang with his students began searching for genes associated with various cancers, and almost in all instances they discovered that those genes are followed by the alu sequence (i.e. protein as a comment closing symbol */), but never preceded by the comment opening /* gene! "This explains why diseases result in cell damage and their death, whereas cancers lead to cell reproduction and growth. Because only few fragments from the big code are expressed, they never lead to coherent growth. What we get with cancer, is expression of only few of genes alien to humans and symbiosis with some genes of bacterial parasites that lead to illogical, bizarre and apparently meaningless chunks of living cells. The chunks have its own veins, arteries, and its own immune system that vigorously resists all our anti-cancer drugs.*

"Our hypothesis is that a higher extraterrestrial life form was engaged in creating new life and planting it on various planets. Earth is just one of them. Perhaps, after programming, our creators grow us the same way we grow bacteria in Petri dishes. We can't know their motives - whether it was a scientific experiment, or a way of preparing new planets for colonization, or is it long time ongoing business of seedling life in the universe. If we think about it in our human terms, the extraterrestrial programmers were most probably working on one big code consisting of several projects, and the projects should have produced various life forms for various planets. They have been also trying various solutions. They wrote the big code, executed it, did not like some function, changed them or added new one, executed again, made more improvements, tried again and again. Of course, soon or later it was behind schedule. Few deadlines have already passed. Then the management began pressing for an immediate release. The programmers were ordered to cut all their idealistic plans for the future and concentrate now on one (Earth) project to meet the pressing deadline. Very likely in a rush, the programmers cut down drastically the big code and delivered basic program intended for Earth. However, at that time they were (perhaps) not quite certain which functions of the big code may be needed later and which not, so they kept them all there. Instead of cleaning the basic program by deleting all the lines of the big code, they converted them into comments, and in the rush they missed few /* symbols in the comments here or there; thus presenting mankind with illogical growth of mass of cells we know as cancer."

There are three options to the problem. Either delete all the /* symbols and comments and clean this way the basic code, or add all the missing */ and avoid illogical mixing of the basic code with the big code. Alternatively, in the third option, remove all the / symbols and let work the basic code with the big code as a complete program. Unfortunately, none of these options are within our capacity. **If we were able to efficiently insert genes into the chromosomes of living men, our breakthrough discovery would mean instant cure for all future cancer cases; at least from the programmer point of view.** Theoretically, we can do it in a laboratory, but we have no practical means to implant the repaired DNA into living subjects. The mystery of "junk DNA" and cancer seems to be solved, but no quick cure shall be expected. The best thing we can do now is to try nourishing new, cancer-free line of humans with gradually debugged basic genetic code. That will take a long time. For us and our children, there is no hope on the horizon.

"However, from the programmer's point of view, there is also positive outlook in it. What we see in our DNA is a program consisting of two versions, a big code and basic code. **First fact is, the complete program was positively not written on Earth; that is now a verified fact.** The second fact is, that genes by themselves are not enough to explain evolution; there must be something more in the game. What it is or where it is, we don't know. The third fact is, no creator of a new work, be it a composer, engineer or programmer, from Mars or Microsoft, will ever leave his work without the option for improvement or upgrade. Ingenious here is, that the upgrade is already enclosed - **the "junk DNA" is nothing more than hidden and dormant upgrade of our basic code!** We know for some time that certain cosmic rays have power to modify DNA. With this in mind, plausible solution is available. **The extraterrestrial programmers may use just one flash of the right energy from somewhere in the Universe to instruct the**

basic code to remove all the symbols, fuse itself with the big code ("junk DNA") and jumpstart working of our whole DNA. That would change us forever, some of us within months, some of us within generations. The change would be not too much physical, (except no more cancers, diseases and short life), but it will catapult us intellectually. Suddenly, we will be in time comparable to coexistence of Neanderthals with Cromagnons. The old will be replaced giving birth to a new cycle. The complete program is elegant, very clever self-organizing, auto-executing, auto-developing and auto-correcting software for a highly advanced biological computer with build-in connection to the ageless energy and wisdom of the Universe. **Software wise, within us is either short and diseased life, or potential for a super-intelligent super-being with a long and healthy life.** This triggers puzzling questions - was the reduction to the basic code done by sloppy programmers in a rush (as it appears to us), or was the disabling of the big code purposeful act which can be cancelled by a "remote control" whenever desired?"

Soon or later, we have to come to grips with the unbelievable notion that every life on Earth carries genetic code for his extraterrestrial cousin and that evolution is not what we think it is. This discovery may well shake the very roots of humanity - our beliefs in our concept of God and in our own power over our destiny. With the right paradigm, we may discover one day that all forms of life and the whole Universe is just one huge intellectual exercise in thoughts expressed mathematically, by Design, by Creator

**The Cosmic Serpent:
DNA and the Origins of Knowledge**
Jeremy Narby

The first time an Ashaninca man told me that he had learned the medicinal properties of plants by drinking a hallucinogenic brew, I thought he was joking. We were in the forest squatting next to a bush whose leaves, he claimed, could cure the bite of a deadly snake. "One learns these things by drinking ayahuasca," he said. But he was not smiling.

It was early 1985, in the community of Quirishari in the Peruvian Amazon's Pichis Valley. I was 25 years old and starting a two-year period of field-work to obtain a doctorate in anthropology from Stanford University. My training had led me to expect that people would tell tall stories. I thought my job as an anthropologist was to discover what they really thought, like some kind of private detective.

During my research on Ashaninca ecology, people in Quirishari regularly mentioned the hallucinatory world of ayahuasqueros, or shamans. In conversations about plants, animals, land, or the forest, they would refer to ayahuasqueros as the source of knowledge. Each time, I would ask myself what they really meant when they said this.

My fieldwork concerned Ashaninca resource use—with particular emphasis on

their rational and pragmatic techniques. To emphasize the hallucinatory origin of Ashaninca ecological knowledge would have been counterproductive to the main argument underlying my research. Nevertheless, the enigma remained: These extremely practical and frank people, living almost autonomously in the Amazonian forest, insisted that their extensive botanical knowledge came from plant-induced hallucinations. How could this be true?

The enigma was all the more intriguing because the botanical knowledge of indigenous Amazonians has long astonished scientists. The chemical composition of ayahuasca is a case in point. Amazonian shamans have been preparing ayahuasca for millennia. The brew is a necessary combination of two plants, which must be boiled together for hours. The first contains a hallucinogenic substance, dimethyltryptamine, which also seems to be secreted by the human brain; but this hallucinogen has no effect when swallowed, because a stomach enzyme called monoamine oxidase blocks it. The second plant, however, contains several substances that inactivate this precise stomach enzyme, allowing the hallucinogen to reach the brain.

So here are people without electron microscopes who choose, among some 80,000 Amazonian plant species, the leaves of a bush containing a hallucinogenic brain hormone, which they combine with a vine containing substances that inactivate an enzyme of the digestive tract, which would otherwise block the hallucinogenic effect. And they do this to modify their consciousness. It is as if they knew about the molecular properties of plants and the art of combining them, and when one asks them how they know these things, they say their knowledge comes directly from hallucinogenic plants.

I had not come to Quirishari to study this issue, which for me relates to indigenous mythology. I even considered the study of mythology to be a useless and "reactionary" pastime. My focus as an anthropologist was Ashaninca resource development. I was trying to demonstrate that true development consisted first in recognizing the territorial rights of indigenous people. My point of view was materialist and political, rather than mystical—yet I found myself quite impressed with the pragmatism of the Quirishari.

This is a people who teach by example, rather than by explanation. Parents encourage their children to accompany them in their work. The phrase "leave Daddy alone because he's working" is unknown. People are suspicious of abstract concepts. When an idea seems really bad, they will say dismissively, "Es pura teoría" ("That's pure theory"). The two key words that cropped up over and over in conversations were *práctica* and *táctica*, "practice" and "tactics"—no

doubt because they are requirements for living in the rainforest.

After about a year in Quirishari, I had come to see that my hosts' practical sense was much more reliable in their environment than my academically informed understanding of reality. Their empirical knowledge was undeniable, but their explanations concerning the origin of their knowledge were unbelievable to me. My attitude was ambivalent. On the one hand, I wanted to understand what they thought—for instance, about the reality of "spirits"—but on the other, I couldn't take seriously what they said because I did not believe it. On leaving Quirishari, I knew I had not solved the enigma of the hallucinatory origin of Ashaninka ecological knowledge. I left with the strange feeling that the problem had more to do with my incapacity to understand what people had said, rather than the inadequacy of their explanations. They had always used such simple words.

In June 1992, I went to Rio to attend the world conference on development and environment. At the "Earth Summit," as it was known, everybody was talking about the ecological knowledge of indigenous people, but certainly no one was talking about the hallucinatory origin of some of it, as claimed by the indigenous people themselves. Colleagues might ask, *"You mean Indians claim they get molecularly verifiable information from their hallucinations? You don't take them literally, do you?"* What could one answer? *There is nothing one can say without contradicting two fundamental principles of Western knowledge.*

First, hallucinations cannot be the source of real information, because to consider them as such is the definition of psychosis. Western knowledge considers hallucinations to be at best illusions, at worst morbid phenomena. Second, plants do not communicate like human beings. Scientific theories of communication consider that only human beings use abstract symbols like words and pictures and that plants do not relay information in the form of mental images. For science, the human brain is the source of hallucinations, which psychoactive plants merely trigger by way of the hallucinogenic molecules they contain.

It was in Rio that I realized the extent of the dilemma posed by the hallucinatory knowledge of indigenous people. On the one hand, its results are empirically confirmed and used by the pharmaceutical industry; on the other hand, its origin cannot be discussed scientifically because it contradicts the axioms of Western knowledge.

When I understood that the enigma of plant communication was a blind spot for science, I felt the call to conduct an in-depth investigation of the subject.

Furthermore, I had been carrying the mystery of plant communication around since my stay with the Ashaninca, and I knew that explorations of contradictions in science often yield fruitful results. It seemed to me that the establishment of a serious dialogue with indigenous people on ecology and botany required that this question be addressed.

I had myself ingested ayahuasca in Quirishari, an experience that brought me face to face with an irrational and subjective territory that was terrifying, yet filled with information. In the months afterwards, I thought quite a lot about what my main Ashaninca consultant, Carlos Perez Shuma, had said. **What if it were true that nature speaks in signs and that the secret to understanding its language consists in noticing similarities in shape or in form? What if I took him literally?**

I liked this idea and decided to read the anthropological texts on shamanism, paying attention not only to their content but to their style. I taped a note on the wall of my office: "Look at the FORM." One thing became clear as I thought back to my stay in Quirishari. Every time I had doubted one of my consultants' explanations, my understanding of the Ashaninca view of reality had seized up; conversely, on the rare occasions when I had managed to silence my doubts, my understanding of local reality had been enhanced—as if there were times when one had to believe in order to see, rather than the other way around.

It had become clear to me that ayahuasqueros were somehow gaining access in their visions to verifiable information about plant properties. Therefore, I reasoned, the enigma of hallucinatory knowledge could be reduced to one question: Was this information coming from inside the human brain, as the scientific point of view would have it, or from the outside world of plants, as shamans claimed?

Both of these perspectives seemed to present advantages and drawbacks. On the one hand, the similarity between the molecular profiles of the natural hallucinogens and of serotonin seemed well and truly to indicate that these substances work like keys fitting into the same lock inside the brain. However, I could not agree with the scientific position according to which hallucinations are merely discharges of images stocked in compartments of the subconscious memory. I was convinced that the enormous fluorescent snakes that I had seen thanks to ayahuasca did not correspond in any way to anything that I could have dreamed of even in my most extreme nightmares. Furthermore, the speed and coherence of some of the hallucinatory images exceeded by many degrees the best rock videos, and I knew that I could not possibly have filmed them.

On the other hand, I was finding it increasingly easy to suspend disbelief and consider the indigenous point of view as potentially correct. After all, there were all kinds of gaps and contradictions in the scientific knowledge of hallucinogens, which had at first seemed so reliable: Scientists do not know how these substances affect our consciousness, nor have they studied true hallucinogens in any detail. It no longer seemed unreasonable to me to consider that the information about the molecular content of plants could truly come from the plants themselves, just as ayahuasqueros claimed. However, I failed to see how this could work concretely.

Maybe I would find the answer by looking at both perspectives simultaneously, one eye on science and the other on shamanism. The solution would therefore consist in posing the question differently: It was not a matter of asking whether the source of hallucinations is internal or external, but of considering that it might be both at the same time. I could not see how this idea would work in practice, but I liked it because it reconciled two points of view that were apparently divergent.

My research revealed that in the early 1960s, anthropologist Michael Harner had gone to the Peruvian Amazon to study the culture of the Conibo Indians. After a year or so he had made little headway in understanding their religious system when the Conibo told him that if he really wanted to learn, he had to drink ayahuasca. Harner accepted, not without fear, because the people had warned him that the experience was terrifying. The following evening, under the strict supervision of his indigenous friends, he drank the equivalent of a third of a bottle. After several minutes he found himself falling into a world of true hallucinations.

He saw that his visions emanated from "giant reptilian creatures" resting at the lowest depths of his brain. These creatures began projecting scenes in front of his eyes. "First they showed me the planet Earth as it was eons ago, before there was any life on it. I saw an ocean, barren land, and a bright blue sky. Then black specks dropped from the sky by the hundreds and landed in front of me on the barren landscape. I could see the 'specks' were actually large, shiny, black creatures with stubby pterodactyl-like wings and huge whale-like bodies.... They explained to me in a kind of thought language that they were fleeing from something out in space. They had come to the planet Earth to escape their enemy. The creatures then showed me how they had created life on the planet in order to hide within the multitudinous forms and thus disguise their presence. Before me, the magnificence of plant and animal creation and speciation—hundreds of millions of years of activity—took place on a

scale and with a vividness impossible to describe. I learned that the dragon-like creatures were thus inside all forms of life, including man." At this point in his account, Harner writes in a footnote at the bottom of the page: "In retrospect one could say they were almost like DNA, although at that time, 1961, I knew nothing of DNA."

I had not paid attention to this footnote previously. There was indeed DNA inside the human brain, as well as in the outside world of plants, given that the molecule of life containing genetic information is the same for all species. DNA could thus be considered a source of information that is both external and internal—in other words, precisely what I had been trying to imagine. I plunged back into Harner's book, but found no further mention of DNA. However, a few pages on, Harner notes that "dragon" and "serpent" are synonymous. This made me think that the double helix of DNA resembled, in its form, two entwined serpents.

The reptilian creatures that Harner had seen in his brain reminded me of something, but I could not say what. After rummaging around my office for a while, I put my hand on an article called "Brain and Mind in Desana Shamanism" by Gerardo Reichel-Dolmatoff. Paging through it, I was stopped by a Desana drawing of a human brain with a snake lodged between the two hemispheres. Several pages further into the article, I came upon a second drawing, this time with two snakes. According to Reichel-Dolmatoff, within the fissure "two intertwined snakes are lying.... In Desana shamanism these two serpents symbolize a female and male principle, a mother and a father image, water and land...; in brief, they represent a concept of binary opposition which has to be overcome in order to achieve individual awareness and integration. The snakes are imagined as spiralling rhythmically in a swaying motion from one side to another."

Concerning the Desanas' main cosmological beliefs, Reichel-Dolmatoff writes: "The Desana say that in the beginning of time their ancestors arrived in canoes shaped like huge serpents."

I was astonished by the similarities between Harner's account, based on his hallucinogenic experience with the Conibo Indians in the Peruvian Amazon, and the shamanic and mythological concepts of an ayahuasca-using people living a thousand miles away in the Colombian Amazon. In both cases there were reptiles in the brain and serpent-shaped boats of cosmic origin that were vessels of life at the beginning of time. Pure coincidence?

To find out, I picked up a book about a third ayahuasca-using people, entitled (in French) *Vision, Knowledge, Power: Shamanism Among the Yagua in the North-East of Peru*. In this study by Jean-Pierre Chaumeil (to my mind, one of the most rigorous on the subject), I found a "celestial serpent" in a drawing of the universe by a Yagua shaman. Then, a few pages away, another shaman is quoted as saying: "At the very beginning, before the birth of the earth, this earth here, our most distant ancestors lived on another earth...." Chaumeil adds that the Yagua consider that all living beings were created by twins, who are "the two central characters in Yagua cosmogonic thought."

These correspondences seemed very strange, and I did not know what to make of them. Or rather, I could see an easy way of interpreting them, but it contradicted my understanding of reality: A Western anthropologist like Harner drinks a strong dose of ayahuasca with one people and gains access, in the middle of the twentieth century, to a world that informs the "mythological" concepts of other peoples and allows them to communicate with life-creating spirits of cosmic origin possibly linked to DNA. This seemed highly improbable to me, if not impossible. Still, I had decided to follow my approach through to its logical conclusion. So I casually penciled in the margin of Chaumeil's text: "twins = DNA?"

These indirect and analogical connections between DNA and the hallucinatory and mythological spheres seemed amusing to me, or at most intriguing. Nevertheless, I started thinking that I had perhaps found with DNA the scientific concept on which to focus one eye, while focusing the other on the shamanism of Amazonian ayahuasqueros.

About this time, as I continued looking out for new connections between shamanism and DNA, I received a letter from a friend who suggested that shamanism was perhaps "untranslatable into our logic for lack of corresponding concepts." I understood what he meant, and I was trying to see precisely if DNA, without being exactly equivalent, might be the concept that would best translate what ayahuasqueros were talking about.

As I browsed over the writings of authorities on mythology, I discovered with surprise that the theme of twin creator beings of celestial origin was extremely common in South America, and indeed throughout the world. The story that the Ashaninka tell about Avírerí and his sister, who created life by transformation, was just one among hundreds of variants on the theme of the "divine twins."

Another example is the Aztecs' plumed serpent, Quetzalcoatl, who symbolizes the "sacred energy of life," and his twin brother Tezcatlipoca, both of whom are children of the cosmic serpent Coatlicue.

When I read the following passage from Claude Lévi-Strauss' latest book, I jumped: "In Aztec, the word coatl means both 'serpent' and 'twin.' The name Quetzalcoatl can thus be interpreted either as 'Plumed serpent' or 'Magnificent twin.'"

A twin serpent, of cosmic origin, symbolizing the sacred energy of life? Among the Aztecs? I wondered what all these twin beings in the creation myths of indigenous people could possibly mean. I was trying to keep one eye on DNA and the other on shamanism to discover the common ground between the two. I reviewed the correspondences that I had found so far. Ruminating over this mental block, I recalled Carlos Perez Shuma's challenge: "Look at the FORM." I had looked up DNA in several encyclopedias and had noted in passing that the shape of the double helix was most often described as a ladder, or a twisted _rope ladder_

(<http://www.davidicke.net/emagazine/vol26/reviews/rope%20ladder>) ,

or a spiral staircase. It was during the following split second, asking myself whether there were any ladders in shamanism, that the revelation occurred: "THE LADDERS! The shamans' ladders, 'symbols of the profession' according to Métraux, present in shamanic themes around the world according to Eliade!"

I rushed back to my office and plunged into Mircea Eliade's book Shamanism: Archaic Techniques of Ecstasy and discovered that there were "countless examples" of shamanic ladders on all five continents, here a "spiral ladder," there a "stairway" or "braided ropes." In Australia, Tibet, Nepal, ancient Egypt, Africa, _North and South_

(<http://www.davidicke.net/emagazine/vol26/reviews/north%20and%20south>)

America, "the symbolism of the rope, like that of the ladder, necessarily implies communication between sky and earth. It is by means of a rope or a ladder (as, too, by a vine, a bridge, a chain of arnyaw, etc.) that the gods descend to earth and men go up to the sky." Eliade even cites an example from the Old Testament, where Jacob dreams of a ladder reaching up to heaven, "with the angels of God ascending and descending on it." According to Eliade, the shamanic ladder is the earliest version

of the idea of an axis of the world, which connects the different levels of the cosmos, and is found in numerous creation myths in the form of a tree. Until then, I had considered Eliade's work with suspicion, but suddenly I viewed it in a new light. I started flipping through his other writings in my possession and discovered: cosmic serpents. This time it was Australian Aborigines who considered that the creation of life was the work of a "cosmic personage related to universal fecundity, the Rainbow Snake," whose powers were symbolized by quartz crystals.

How could it be that Australian Aborigines, separated from the rest of humanity for 40,000 years, tell the same story about the creation of life by a cosmic serpent associated with a quartz crystal as is told by ayahuasca-drinking Amazonians? The connections that I was beginning to perceive were blowing away the scope of my investigation. How could cosmic serpents from Australia possibly help my analysis of the uses of hallucinogens in Western Amazonia? I tried answering my own question: One, Western culture has cut itself off from the serpent/life principle, in other words DNA, since it adopted an exclusively rational point of view. Two, the peoples who practice what we call "shamanism" communicate with DNA. Three, paradoxically, the part of humanity that cut itself off from the serpent managed to discover its material existence in a laboratory some three thousand years later.

People use different techniques in different places to gain access to knowledge of the vital principle. **In their visions shamans manage to take their consciousness down to the molecular level. This is how they learn to combine brain hormones with monoamine oxidase inhibitors, or how they discover 40 different sources of muscle paralyzers, whereas science has only been able to imitate their molecules. When they say their knowledge comes from beings they see in their hallucinations, their words mean exactly what they say.** According to the shamans of the entire world, one establishes communication with spirits via music. For the ayahuasqueros, it is almost inconceivable to enter the world of spirits and remain silent. Angelika Gebhart-Sayer discusses the "visual music" projected by the spirits in front of the shaman's eyes: It is made up of three-dimensional images that coalesce into sound and that the shaman imitates by emitting corresponding melodies. I should check whether DNA emits sound or not.

It seemed that no one had noticed the possible links between the "myths" of "primitive peoples" and molecular biology. No one had seen that the double helix had symbolized the life principle for thousands of years around the world. On the contrary; everything was upside down. It was said that hallucinations could in no way constitute a source of knowledge, that Indians had

found their useful molecules by chance experimentation, and that their "myths" were precisely myths, bearing no relationship to the real knowledge discovered in laboratories.

At this point, I remembered that Michael Harner had said that this information was reserved for the dead and the dying. Suddenly, I was overcome with fear and felt the urge to share these ideas with someone else. I picked up the phone and called an old friend, who is also a writer. I quickly took him through the correspondences I had found during the day: the twins, the cosmic serpents, Eliade's ladders. Then I added: "There is a last correlation that is slightly less clear than the others. The spirits one sees in hallucinations are three-dimensional, sound-emitting images, and they speak a language made of three-dimensional, sound-emitting images. In other words, they are made of their own language, like DNA."

There was a long silence on the other end of the line. Then my friend said, "Yes, and like DNA they replicate themselves to relay their information." I jotted this down, and it was later in reviewing my notes on the relationship between the hallucinatory spirits made of language and DNA that I remembered the first verse of the first chapter of the Gospel according to John: "In the beginning was the logos"—the word, the verb, the language.

That night I had a hard time falling asleep. My investigation had led me to formulate the following working hypothesis: In their visions, shamans take their consciousness down to the molecular level and gain access to information related to DNA, which they call "animate essences" or "spirits." This is where they see double helixes, twisted ladders, and chromosome shapes. This is how shamanic cultures have known for millennia that the vital principle is the same for all living beings and is shaped like two entwined serpents (or a vine, a rope, a ladder ...). **DNA is the source of their astonishing botanical and medicinal knowledge, which can be attained only in defocalized and "nonrational" states of consciousness, though its results are empirically verifiable.** The myths of these cultures are filled with biological imagery. And the shamans' metaphoric explanations correspond quite precisely to the descriptions that biologists are starting to provide. Like the axis mundi of shamanic traditions, DNA has the form of a twisted ladder (or a vine ...); according to my hypothesis, DNA was, like the axis mundi, the source of shamanic knowledge and visions. To be sure of this I needed to understand how DNA could transmit visual information. I knew that it emitted photons, which are electromagnetic waves, and I remembered what Carlos Perez Shuma had told me when he compared the spirits to "radio waves": "Once you turn on the radio, you can pick them up. It's like that with souls; with

ayahuasca ... you can see them and hear them."

So I looked into the literature on photons of biological origin, or "biophotons."

In the early 1980s, thanks to the development of a sophisticated measurement device, a team of scientists demonstrated that the cells of all living beings emit photons at a rate of up to approximately 100 units per second and per square centimeter of surface area. They also showed that DNA was the source of this photon emission.

During my readings, I learned with astonishment that the wavelength at which DNA emits these photons corresponds exactly to the narrow band of visible light. Yet this did not constitute proof that the light emitted by DNA was what shamans saw in their visions. Furthermore, there was a fundamental aspect of this photon emission that I could not grasp. According to the researchers who measured it, its weakness is such that it corresponds "to the intensity of a candle at a distance of about 10 kilometers," but it has "a surprisingly high degree of coherence, as compared to that of technical fields (laser)." How could an ultra-weak signal be highly coherent? How could a distant candle be compared to a "laser"?

I came to understand that in a coherent source of light, the quantity of photons emitted may vary, but the emission intervals remain constant. DNA emits photons with such regularity that researchers compare the phenomenon to an "ultra-weak laser." I could understand that much, but still could not see what it implied for my investigation.

I turned to my scientific journalist friend, who explained it immediately:

"A coherent source of light, like a laser, gives the sensation of bright colors, a luminescence, and an impression of holographic depth."

My friend's explanation provided me with an essential element. The detailed descriptions of ayahuasca-based hallucinatory experiences invariably mention bright color, and, according to the authors of the dimethyltryptamine study:

"Subjects described the colors as brighter, more intense, and deeply saturated than those seen in normal awareness or dreams: It was the blue of a desert sky, but on another planet. The colors were 10 to 100 times more saturated."

It was almost too good to be true. DNA's highly coherent photon emission accounted for the luminescence of hallucinatory images, as well as their three-dimensional, or holographic, aspect.

On the basis of this connection, I could now conceive of a neurological

mechanism for my hypothesis. The molecules of nicotine or dimethyltryptamine, contained in ayahuasca, activate their respective receptors, which set off a cascade of electrochemical reactions inside the neurons, leading to the stimulation of DNA and, more particularly, to its emission of visible waves, which shamans perceive as "hallucinations."

There, I thought, is the source of knowledge: DNA, living in water and emitting photons, like an aquatic dragon spitting fire.

Am I wrong in linking DNA to these cosmic serpents from around the world, these sky-ropes and axis mundi? Some of my colleagues would undoubtedly say yes. They would remind me that nineteenth century anthropologists had compared cultures and elaborated theories on the basis of the similarities they found. When they discovered, for instance, that bagpipes were played not only in Scotland, but in Arabia and the Ukraine, they established false connections between these cultures. Then they realized that people could do similar things for different reasons.

Since then, anthropology has backed away from grand generalizations, denounced "abuses of the comparative method," and locked itself into specificity bordering on myopia. Yet by shunning comparisons between cultures, one ends up masking true connections and fragmenting reality a little more, without even realizing it.

Is the cosmic serpent of the Shipibo--Conibo, the Aztecs, the Australian Aborigines, and the Ancient Egyptians the same? No, will reply the anthropologists who insist on cultural specificity; but it is time to turn their critique on its head. Why insist on taking reality apart, but never try putting it back together again?

According to my hypothesis, shamans take their consciousness down to the molecular level and gain access to biomolecular information. But what actually goes on in the brain/mind of an ayahuasquero when this occurs? What is the nature of a shaman's communication with the animate essences of nature? The clear answer is that more research is needed in consciousness, shamanism, molecular biology, and their interrelatedness.

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Genetic Science: Old and New



R-Complex

The primal limbic thinking complex which gives rise to aggression, war, territorialism, social hierarchies, etc.

Puerto Rico

Home of the largest US owned genetic lab in the world.

Deformity from Radiation

...radiation blasts were harming fetuses and newborns which terrified the populace. But, one of the most striking and telltale lines here is that Skanda became "goat-faced." We shall see this from the Vedas to the goat-lined sphinx's at Karnak and in every ancient text, always the mark of the evil one, just as mythology has told us. The lineages from Indra were all dolichocephalic while the original Niburians were lion-faced, or mesocephalic. Our Satan, in the Bible, or Indra, is suffering from an acute pathocrine disorder, probably acute acromegaly. His thyroid and pituitary has either been in contact with radioactive properties and/or affected by the magnetic reversal. Always he is represented with mishappened horns like a goat, no doubt firboromas and the most identifying trademark, his offspring are androgynous. To these people, what we take for granted, was a disaster to them - Lana Cantrell (The Greatest Story Never Told)

It is believed by one researcher that DNA is itself an electromagnetic generator with RNA as an amplifier, the cell wall a noise filter and amino acids and enzymes as effectors of signals - (See Biological and Clinical Effects of Low-Frequency Magnetic and Electric Fields, by J. G. Laurado)

Junk DNA

The big surprise to the scientists was that active genes make up only tiny fractions of the entire genome. Incredibly, they only make up 3 percent of the total DNA in our chromosomes. The genes are either alone or clustered together in larger groups, but in between each gene sequence, there are long stretches of DNA which do not appear to contain any type of code for anything. These stretches have now been referred to by scientists as "Junk DNA," mainly because they have not figured out what secret message it contains - Michael Tellinger (Slave Species of God)

General Notes on Genetics

In 1980 a ruling by the U. S. Supreme Court permitted the U. S. Patent and Trademark Office to grant a PATENT on a genetically engineered "oil-eating" bacterium. The bacterium was categorized as a "non-natural manmade microorganism." Over the following eight years, some 200 patents were granted for bacteria, viruses, and plants that had been genetically modified. In 1988 a patent was granted on a mouse strain in which the cells had been engineered to contain a cancer-predisposing gene sequence (activated oncogene sequence). Technically referred to as a "transgenic nonhuman eukaryotic animal," each mouse of this type can be used to test low doses of cancer-causing substances and to test the effectiveness of drugs considered as possibly offering protection against the development of cancer.

1997 was the year of the first successful cloning of mammals, a sheep and a monkey. Immediately President Bill Clinton signed a law making it illegal to experiment with or clone a human being.

The cloning of mammals was the next necessary step before the introduction of combining different sequences of DNA in to the nucleus to create whole new life forms.

[Scientists from Human Genome Project](#)
[Junk DNA possible ET origin?](#)

Alien DNA group of researchers working at the Human Genome Project will be announcing soon that they made an astonishing scientific discovery: They believe so-called non-coding sequences (97%) in human DNA is no less than genetic code of an unknown extraterrestrial life form.

The non-coding sequences are common to all living organisms on Earth, from molds to fish to humans. In human DNA, they constitute larger part of the total genome, says Prof. Sam Chang, the group leader. Non-coding sequences, also known as "junk DNA", were discovered years ago, and their function remains mystery.

Unlike normal genes, which carry the information that intracellular machinery uses to synthesize proteins, enzymes and other chemicals produced by our bodies, non-coding sequences are never used for any purpose. They are never expressed, meaning that the information they carry is never read, no substance is synthesized and they have no function at all. We exist on only 3% of our DNA.

The junk genes merely enjoy the ride with hard working active genes, passed from generation to generation. What are they? How come these idle genes are in our genome? Those were the question many scientists posed and failed to answer - until the breakthrough discovery by Prof. Sam Chang and his group.

Trying to understand the origins and meaning of junk DNA Prof. Chang realized that he first needs a definition of "junk". Is junk DNA really junk, (useless and meaningless) or it contains some information not claimed by the rest of DNA for whatever reason? He once mentioned the question to an acquaintance, Dr. Lipshutz, a young theoretical physicist turned Wall Street derivative securities specialist. "Easy," replied Lipshutz. "We'll run your sequence through the software I use to analyze market data, and it will show if your sequences are total garbage, "white noise", or there is a message in there." This new breed of analysts with strong background in math, physics and statistics are getting more and more popular with Wall Street firms. They sift through gigabytes of market statistics, trying to uncover useful correlation between the various market indexes, and individual stocks.

Working evenings and weekends, Lipshutz managed to show that non-coding sequences are not all junk, they carry information. Combining massive database of the Human Genome Project with thousands of data files developed by geneticists all over the world Lipshutz calculated Kolmogorov entropy of the non-coding sequences and compared it with the entropy of regular, active genes. Kolmogorov entropy, introduced by the famous Russian mathematician half a century ago, was successfully used to quantify the level of randomness in various sequences, from time sequences of noise in radio lamps to sequences of letters in 19th century Russian poetry. By and large, the technique allows researchers to quantitatively compare various sequences and conclude which one carries more information than the other does. "To my surprise, the entropy of coding and non-coding DNA sequences was not that different", continues Lipshutz. "There was noise in both but it was no junk at all. If the market data were that orderly, I would have already retired."

After a year of cooperation with Lipshutz, Chang was convinced, there is a hidden information in junk DNA. However, how could one understand its meaning if the information is never used? With active sequences you try to watch the cell and see what proteins are being made using the information. This wouldn't work with dormant genes. There will be experiment to test a hypothesis; one should rely on

the power of his thought. Since there are letters, it should be tested in some old languages, perhaps Sumerian, Egyptian, Hebrew, and so on. Prof. Sam Chang solicited help from three specialists in the field, but none of them managed to find a solution. There were no cultural clues, no references to other known languages, the field was too alien for the linguists.

"I asked myself: who else can decipher a hidden message?" Chang continues. "Of course, cryptographers! In addition, I began talking with researchers at the National Security Agency. It took me few months to make them return my calls. Were they running background checks on me? Alternatively, were they too busy lobbying senators on retaining and strengthening their authority to control exports of encryption technologies? Eventually, a junior fellow was assigned to answer my questions. He listened, requested my questions in writing and after another, few months turned me down. His message was polite but meant, "Go to hell with your crazy ideas. We are a serious agency, its National Security, dude. We are too busy."

Well, Sam, forget the Government, talk to the private sector. Therefore, I began approaching computer security consultants. They were genuinely interested, and a couple of them even began working on my project, but their enthusiasm always faded after a month. I kept calling them until one nice fellow told me: "I'd love to work on your project if I had more time. I am overbooked. Emissaries of major banks and Fortune 500 companies are begging me to plumb the holes in their networks. They pay me \$500 an hour. I can give you an educational discount, can you afford \$350?" Scrambling \$15/hr for a post doctoral studies is a big deal in academia, \$350 sounded as something extraorbital." Eventually Prof. Chang was referred to Dr. Adnan Mussaelian, a talented cryptographer in the former Soviet republic of Armenia. Poor fellow barely survived on a \$15 a month salary and occasional fees for tutoring children of Armenian nouveau riches. A \$10,000 research grant was a struck of luck, he began working like a beaver.

Adnan promptly confirmed the findings of his Wall Street predecessor: The entropy indicated tons of information almost in the clear, it was not too strong cryptographic system, it didn't appear to be a tough problem. Adnan began applying differential cryptoanalysis and similar standard cryptographic techniques.

He was two months in the project when he noticed that all non-coding sequences are usually preceded by one short DNA sequence. A very similar sequence usually followed the junk. These segments, known to biologists as alu sequences, were all over the whole human genome. Being non-coding, junk sequences themselves, alu are one of the most common genes of all.

Trained as a cryptographer and computer programmer, and having no knowledge of microbiology, Adnan approached the genetic code as of computer code. Dealing with 0, 1, 2, 3 (four bases of genetic code) instead of 0s and 1s of the binary code was a sort of nuisance, but the computer code was what he was analyzing and deciphering all his life. He was on familiar territory. The most common symbol in the code that causes no action followed by a chunk of dormant code. What is that? Just playing with the analogy Adnan grabbed the source code of one his programs and fed it into the program that calculates the statistics of symbols and short sequences, a tool often used in decoding messages. What was the most common symbol? Of course, it was "/", a symbol of comment! He took a Pascal code, and it were { and } ! Of course, the code between two slashes in C is never executed, and is never meant to be executed; it is not the code, it is the comment to the code!

Being unable to resist the temptation to further play with the analogy, Adnan began comparing

statistical distributions of the comments in computer and genetic code. There must be a striking difference. This should show up in statistics. Nevertheless, statistically, junk DNA was not much different from active, coding sequences. To be sure, Adnan fed a program into the analyzer: surprisingly, the statistics of code and comments were almost the same. He looked into the source code and realized why: there were very few comments in between the slashes, it was mostly C code the author decided to exclude from execution, a common practice among programmers.

Adnan, religiously inclined person, was thinking about the divine hand - but after analyzing the spaghetti code inside the sequences he convinced himself that *whoever wrote the small code was not God. Who wrote the active, small coding part of human genetic code was not very well organized, he was a rather sloppy programmer. It looked like rather somebody from Microsoft, but at the time human genetic code was written, there was no Microsoft on Earth.*

On Earth? It was like a lightning... Was the genetic code for all life on Earth written by an extraterrestrial programmer and then somehow deposited here, for execution? The idea was mad and frightening, and Adnan resisted it for days. Then he decided to proceed. If the non-coding sequences are parts of the program that were rejected or abandoned by the author, there is a way to make them work. The only thing one needs to do is to remove the symbols of comments and if the portion between the `/*.....*/` symbols is a meaningful routine it may compile and execute! Following this line of thought, Adnan selected only those non-coding sequences that had exactly the same frequency distribution of symbols as the active genes. This procedure excluded the comments in Marcian or Q, whatever it was. He selected some 200 non-coding sequences that most closely resembled real genes, stripped them of `/*, //`, and similar stuff and after few days of hesitation sent e-mail to his American boss, asking him to find a way to put them in E-coli or whatever host and make them work.

Chang did not replied for two weeks. "I thought I was fired", confessed Dr. Mussaelian. "With every day of his silence I more and more realized how crazy my idea was. Chang would conclude I was a schizophrenic and would terminate the contract. Chang finally responded and, to my surprise, he did not fire me. He had not bought my extraterrestrial theory but agreed to try to make my sequences work."

Biologists have attempted for years to make junk sequences express, without much success. Sometimes nothing turned out; sometimes it was junk again. It was not surprising. Grab an arbitrary portion of the excluded computer code and try to compile it. Most likely, it will fail. At best, it will produce bizarre results. Analyze the code carefully, fish out a whole function from the comments, and you may make it work. Because of careful Mussaelian's statistical analysis 4 of the 200 sequences he selected, began working, producing tiny amounts of a chemical compounds.

"I was anxiously awaiting the response from Chang," says Dr. Mussaelian. "Would it be a more or less normal protein or something out of ordinary? The answer was shocking: it was a substance, known to be produced by several types of leukemia in men and animals. Surprisingly, three other sequences also produced cancer-related chemicals. It no longer looked like a coincidence. When one awakens a viable dormant gene, it produces cancer-related proteins. Researchers began searching Human Genome Project databases for the four genes they isolated from junk DNA. Eventually, three of the four were found there, listed as active, non-junk genes. This was not a big surprise: since cancer tissues produce the protein, there must be somewhere a gene, which codes it! The surprise came later: In the active, non-junk portion of the code the gene in question (the researchers called it "jhlgl1", for junk human leukemia gene) was not preceded by the alu sequence, i.e. the `/*` symbol was missing.

However, the closing */ symbol at the end of "jhlgl" was there. This explained why "jhlgl" was not expressed in the depth of the junk DNA but worked fine in the normal, active part of the genome. The one who wrote the basic genetic code for humans excluded portion of the big code by embracing them in /*... */ but missed some of the opening /* symbol. His compiler seems to be garbage, too: a good compiler, even from terrestrial Microsoft, would most likely refuse to compile such program at all.

*Prof. Sam Chang with his students began searching for genes associated with various cancers, and almost in all instances they discovered that those genes are followed by the alu sequence (i.e. protein as a comment closing symbol */), but never preceded by the comment opening /* gene! "This explains why diseases result in cell damage and their death, whereas cancers lead to cell reproduction and growth. Because only few fragments from the big code are expressed, they never lead to coherent growth. What we get with cancer, is expression of only few of genes alien to humans and symbiosis with some genes of bacterial parasites that lead to illogical, bizarre and apparently meaningless chunks of living cells. The chunks have its own veins, arteries, and its own immune system that vigorously resists all our anti-cancer drugs.*

"Our hypothesis is that a higher extraterrestrial life form was engaged in creating new life and planting it on various planets. Earth is just one of them. Perhaps, after programming, our creators grow us the same way we grow bacteria in Petri dishes. We can't know their motives - whether it was a scientific experiment, or a way of preparing new planets for colonization, or is it long time ongoing business of seedling life in the universe. If we think about it in our human terms, the extraterrestrial programmers were most probably working on one big code consisting of several projects, and the projects should have produced various life forms for various planets. They have been also trying various solutions. They wrote the big code, executed it, did not like some function, changed them or added new one, executed again, made more improvements, tried again and again. Of course, soon or later it was behind schedule. Few deadlines have already passed. Then the management began pressing for an immediate release. The programmers were ordered to cut all their idealistic plans for the future and concentrate now on one (Earth) project to meet the pressing deadline. Very likely in a rush, the programmers cut down drastically the big code and delivered basic program intended for Earth. However, at that time they were (perhaps) not quite certain which functions of the big code may be needed later and which not, so they kept them all there. Instead of cleaning the basic program by deleting all the lines of the big code, they converted them into comments, and in the rush they missed few /* symbols in the comments here or there; thus presenting mankind with illogical growth of mass of cells we know as cancer."

There are three options to the problem. Either delete all the /* symbols and comments and clean this way the basic code, or add all the missing */ and avoid illogical mixing of the basic code with the big code. Alternatively, in the third option, remove all the / symbols and let work the basic code with the big code as a complete program. Unfortunately, none of these options are within our capacity. If we were able to efficiently insert genes into the chromosomes of living men, our breakthrough discovery would mean instant cure for all future cancer cases; at least from the programmer point of view. Theoretically, we can do it in a laboratory, but we have no practical means to implant the repaired DNA into living subjects. The mystery of "junk DNA" and cancer seems to be solved, but no quick cure shall be expected. The best thing we can do now is to try nourishing new, cancer-free line of humans with gradually debugged basic genetic code. That will take a long time. For us and our children, there is no hope on the horizon.

"However, from the programmer's point of view, there is also positive outlook in it. What we see in

our DNA is a program consisting of two versions, a big code and basic code. First fact is, the complete program was positively not written on Earth; that is now a verified fact. The second fact is, that genes by themselves are not enough to explain evolution; there must be something more in the game. What it is or where it is, we don't know. The third fact is, no creator of a new work, be it a composer, engineer or programmer, from Mars or Microsoft, will ever leave his work without the option for improvement or upgrade. Ingenious here is, that the upgrade is already enclosed - the "junk DNA" is nothing more than hidden and dormant upgrade of our basic code! We know for some time that certain cosmic rays have power to modify DNA. With this in mind, plausible solution is available. The extraterrestrial programmers may use just one flash of the right energy from somewhere in the Universe to instruct the basic code to remove all the symbols, fuse itself with the big code ("junk DNA") and jumpstart working of our whole DNA. That would change us forever, some of us within months, some of us within generations. The change would be not too much physical, (except no more cancers, diseases and short life), but it will catapult us intellectually. Suddenly, we will be in time comparable to coexistence of Neanderthals with Cromagnons. The old will be replaced giving birth to a new cycle. The complete program is elegant, very clever self-organizing, auto-executing, auto-developing and auto-correcting software for a highly advanced biological computer with build-in connection to the ageless energy and wisdom of the Universe. Software wise, within us is either short and diseased life, or potential for a super-intelligent super-being with a long and healthy life. This triggers puzzling questions - was the reduction to the basic code done by sloppy programmers in a rush (as it appears to us), or was the disabling of the big code purposeful act which can be cancelled by a "remote control" whenever desired?"

Soon or later, we have to come to grips with the unbelievable notion that every life on Earth carries genetic code for his extraterrestrial cousin and that evolution is not what we think it is. This discovery may well shake the very roots of humanity - our beliefs in our concept of God and in our own power over our destiny. With the right paradigm, we may discover one day that all forms of life and the whole Universe is just one huge intellectual exercise in thoughts expressed mathematically, by Design, by Creator

From: <http://merkaba.tribe.net/thread/de3a4d42-984e-4a7a-9e43-beb61802d5b8>

Russian DNA Discoveries Explain Human 'Paranormal' Events

Esoteric and spiritual teachers have known for ages that our body is programmable by language, words and thought. This has now been scientifically proven and explained.

The human DNA is a biological Internet and superior in many aspects to the artificial one. The latest Russian scientific research directly or indirectly explains phenomena such as clairvoyance, intuition, spontaneous and remote acts of healing, self healing, affirmation techniques, unusual light/auras around people (namely spiritual masters), mind's influence on weather patterns and much more.

In addition, there is evidence for **a whole new type of medicine in which DNA can be influenced and reprogrammed by words and frequencies WITHOUT cutting out and replacing single genes.**

Only 10% of our DNA is being used for building proteins. It is this subset of DNA that is of interest to western researchers and is being examined and categorized. The other 90% are considered "junk DNA."

The Russian researchers, however, convinced that nature was not dumb, joined linguists and geneticists in a venture to explore that 90% of "junk DNA." Their results, findings and conclusions are simply revolutionary!

According to their findings, our DNA is not only responsible for the construction of our body but also serves as data storage and communication. The Russian linguists found that the genetic code - especially in the apparent "useless" 90% - follows the same rules as all our human languages.

To this end they compared the rules of syntax (the way in which words are put together to form phrases and sentences), semantics (the study of meaning in language forms) and the basic rules of grammar. They found that the alkalines of our DNA follow a regular grammar and do have set rules just like our languages. Therefore, human languages did not appear coincidentally but are a reflection of our inherent DNA.

The Russian biophysicist and molecular biologist **Pjotr Garjajev** and his colleagues also explored the vibrational behavior of DNA. In brief the bottom line was: "Living chromosomes function just like a holographic computer using endogenous DNA laser radiation." This means that they managed, for example, to modulate certain frequency patterns (sound) onto a laser-like ray which influenced DNA frequency and thus the genetic information itself.

Since the basic structure of DNA-alkaline pairs and of language (as explained earlier) is of the same structure, no DNA decoding is necessary. *One can simply use words and sentences of the human language! This, too, was experimentally proven!*

Living DNA substance (in living tissue, not in vitro) will always react to language-modulated laser rays and even to radio waves, if the proper frequencies (sound) are being used. This finally and scientifically explains why affirmations, hypnosis and the like can have such strong effects on humans and their bodies. It is entirely normal and natural for our DNA to react to language.

While western researchers cut single genes from DNA strands and insert them elsewhere, the Russians enthusiastically created devices that influence cellular metabolism through modulated radio and light frequencies, thus repairing genetic defects.

They even captured information patterns of a particular DNA and transmitted it onto another, thus reprogramming cells to another genome. So they successfully transformed, for example, frog embryos to salamander embryos simply by transmitting the DNA information patterns! This way the entire information was transmitted without any of the side effects or disharmonies encountered when cutting out and re-introducing single genes from the DNA.

This represents an unbelievable, world-transforming revolution and sensation: by simply applying vibration (sound frequencies) and language instead of the archaic cutting-out procedure!

This experiment points to the immense power of wave genetics, which obviously has a greater influence on the formation of organisms than the biochemical processes of alkaline sequences.

Esoteric and spiritual teachers have known for ages that our body is programmable by language, words and thought. This has now been scientifically proven and explained.

Of course the frequency has to be correct. And this is why not everybody is equally successful or can do it with always the same strength. The individual person must work on the inner processes and development in order to establish a conscious communication with the DNA.

The Russian researchers work on a method that is not dependent on these factors but will ALWAYS work, provided one uses the correct frequency. But the higher developed an individual's consciousness is, the less need is there for any type of device: one can achieve these results by oneself. Science will finally stop laughing at such ideas and will confirm and explain the results. And it doesn't end there.

The Russian scientists also found out that our DNA can cause disturbing patterns in a vacuum, thus producing magnetized wormholes! Wormholes are the microscopic equivalents of the so-called Einstein-Rosen bridges in the vicinity of black holes (left by burned-out stars).

These are tunnel connections between entirely different areas in the universe through which information can be transmitted outside of space and time. The DNA attracts these bits of information and passes them on to our consciousness. This process of hyper-communication (telepathy, channeling) is most effective in a state of relaxation.

Stress, worry or a hyperactive intellect prevent successful hyper-communication or the information will be totally distorted and useless. In nature, hyper-communication has been successfully applied for millions of years. The organized flow of life in insects proves this dramatically. Modern man knows it only on a much more subtle level as "intuition." But we, too, can regain full use of it.

As an example from nature, when a queen ant is separated from her colony, the remaining worker ants will continue building fervently according to plan. However, if the queen is killed, all work in the colony stops. No ant will know what to do. Apparently, the queen transmits the "building plans" even if far away - via the group consciousness with her subjects. She can be as far away as she wants, as long as she is alive.

In humans, hyper-communication is most often encountered when one suddenly gains access to information that is outside one's knowledge base. Such hyper-communication is then experienced as inspiration or intuition (also in trance channeling). The Italian composer Giuseppe Tartini, for instance, dreamt one night that a devil sat at his bedside playing the violin. The next morning Tartini was able to note down the piece exactly from memory. He called it the Devil's Trill Sonata.

For years, a 42-year old male nurse dreamt of a situation in which he was hooked up to a kind of knowledge CD-ROM. Verifiable knowledge from all imaginable fields was then transmitted to him that he was able to recall in the morning. There was such a flood of information that it seemed a whole encyclopedia was transmitted at night. The majorities of facts were outside his personal knowledge base and reached technical details of which he knew absolutely nothing. When hyper-communication occurs, one can observe in the DNA, as well as in the human, supernatural phenomena.

The Russian scientists irradiated DNA samples with laser light. On screen, a typical wave pattern was formed. When they removed the DNA sample, the wave pattern did not disappear, it remained. Many controlled experiments showed that the pattern continued to come from the removed sample, whose energy field apparently remained by itself. This effect is now called phantom DNA effect. *It is surmised that energy from outside of space and time still flows through the activated wormholes after the DNA was removed.* The side effects encountered most often in hyper-communication in humans are inexplicable electromagnetic fields in the vicinity of the persons concerned.

Electronic devices like CD players and the like can be irritated and cease to function for hours. When the electromagnetic field slowly dissipates, the devices function normally again. Many healers and psychics know this effect from their work: the better the atmosphere and energy, the more frustrating it can be for recording devices as they stop functioning at that exact moment. Often by next morning all is back to normal.

Perhaps this is reassuring to read for many, as it has nothing to do with them being technically inept; it means they are good at hyper-communication.

In their book *Vernetzte Intelligenz*, Grazyna Gosar and Franz Bludorf explain these connections precisely and clearly. The authors also quote sources presuming that in earlier times humanity had been just like the animals: very strongly connected to group consciousness and thereby acted as a group. In order to develop and experience individuality, however, we humans had to forget hyper-communication almost completely.

Now that we are fairly stable in our individual consciousness, we can create a new form of group consciousness - namely one in which we attain access to all information via our DNA without being forced or remotely controlled about what to do with that information. We now know that just as we use the internet, our DNA can feed proper data into the network, can retrieve data from the network, and can establish contact with other participants in the network. Remote healing, telepathy or "remote sensing" about the state of another can thus be explained. Some animals know from afar when their owners plan to return home. This can be freshly interpreted and explained via the concepts of group consciousness and hyper-communication.

Any collective consciousness cannot be sensibly used over any period of time without a distinctive individuality; otherwise we would revert to a primitive herd instinct that is easily manipulated. Hyper-communication in the new millennium means something quite different.

Researchers think that if humans with full individuality would regain group consciousness, they would have a god-like power to create, alter and shape things on Earth! AND humanity is collectively moving toward such a group consciousness of the new kind.

Fifty percent of children will become a problem as soon as they go to school, since the system lumps everyone together and demands adjustment. But the individuality of today's children is so strong that they refuse this adjustment and resist giving up their idiosyncrasies in the most diverse ways.

At the same time more and more clairvoyant children are born. Something in those children is striving more towards the group consciousness of the new kind, and it can no longer be suppressed.

As a rule, weather for example is rather difficult to influence by a single individual. But it may be influenced by group consciousness (nothing new about this to some indigenous tribes). Weather is strongly influenced by Earth resonance frequencies (Schumann frequencies). But *those same frequencies are also produced in our brains, and when many people synchronize their thinking or when individuals (spiritual masters, for instance) focus their thoughts in a laser-like fashion, then it is not at all surprising that they can influence the weather.*

A modern day civilization which develops group consciousness would have neither

environmental problems nor scarcity of energy: for if it were to use such mental powers as a unified civilization, it would have control of the energies of its home planet as a natural consequence.

When a great number of people become unified with higher intention as in meditating on peace - potentials of violence also dissolve.

Apparently, DNA is also an organic superconductor that can work at normal body temperature, as opposed to artificial superconductors which require extremely low temperatures between 200 and 140°K to function. In addition, all superconductors are able to store light and thus information. This further explains how DNA can store information.

There is another phenomenon linked to DNA and wormholes. Normally, these super-small wormholes are highly unstable and are maintained only for the tiniest fractions of a second. Under certain conditions stable wormholes can organize themselves, which then form distinctive vacuum domains in which for example, gravity can transform into electricity. Vacuum domains are self-radiant balls of ionized gas that contain considerable amounts of energy. There are regions in Russia where such radiant balls appear very often.

Following the ensuing confusion the Russians started massive research programs leading finally to some of the discoveries mentioned above. Many people know vacuum domains as shiny balls in the sky. The attentive look at them in wonder and ask themselves, what they could be.

I thought once: "Hello up there. If you happen to be a UFO, fly in a triangle." And suddenly, the light balls moved in a triangle. Or they shot across the sky like ice hockey pucks: they accelerated from zero to crazy speeds while sliding silently across the sky. One is left gawking and I have, as many others, too, thought them to be UFOs. Friendly ones, apparently, as they flew in triangles just to please me.

Now, the Russians found - in the regions where vacuum domains often appear - that sometimes fly as balls of light from the ground upwards into the sky, and that these balls can be guided by thought. Since then it has been found that vacuum domains emit waves of low frequency that are also produced in our brains and because of this similarity of waves they are able to react to our thoughts. To run excitedly into one that is on ground level might not be such a great idea, because those balls of light can contain immense energies and are capable of mutating our genes.

Many spiritual teachers also produce such visible balls or columns of light in deep meditation or during energy work, which trigger decidedly pleasant feelings and do not cause any harm. Apparently this is also dependent on some inner order, quality and origin of the vacuum domain. There are some spiritual teachers, like the young Englishman Ananda, for example, with whom nothing is seen at first, but when one tries to take a photograph while they sit and

speak or meditate in hyper-communication, one gets only a picture of a white cloud on a chair.

In certain Earth healing projects, such light effects also appear on photographs. Simply put, this phenomena has to do with gravity and anti-gravity forces that are ever more stable forms of wormholes and displays of hyper-communication with energies from outside our time and space structure. Earlier generations that experienced such hyper-communication and visible vacuum domains were convinced that an angel had appeared before them: and we cannot be too sure to what forms of consciousness we can get access when using hyper-communication.

Not having scientific proof for their actual existence, people having had such experiences do NOT all suffer from hallucinations. We have simply made another giant step towards understanding our reality. Official science also knows of gravity anomalies on Earth that contribute to the formation of vacuum domains. Recently gravity anomalies have been found in Rocca di Papa, south of Rome.

The full article can be viewed - in English - on the Kontext website

http://www.fosar-bludorf.com/index_eng.htm

The Cosmic Serpent: DNA and the Origins of Knowledge

Jeremy Narby

The first time an Ashaninca man told me that he had learned the medicinal properties of plants by drinking a hallucinogenic brew, I thought he was joking. We were in the forest squatting next to a bush whose leaves, he claimed, could cure the bite of a deadly snake. "One learns these things by drinking ayahuasca," he said. But he was not smiling.

It was early 1985, in the community of Quirishari in the Peruvian Amazon's Pichis Valley. I was 25 years old and starting a two-year period of field-work to obtain a doctorate in anthropology from Stanford University. My training had led me to expect that people would tell tall stories. I thought my job as an anthropologist was to discover what they really thought, like some kind of private detective.

During my research on Ashaninca ecology, people in Quirishari regularly mentioned the hallucinatory world of ayahuasqueros, or shamans. In conversations about plants, animals, land, or the forest, they would refer to ayahuasqueros as the source of knowledge. Each time, I would ask myself what they really meant when they said this.

My fieldwork concerned Ashaninca resource use—with particular emphasis on their rational and pragmatic techniques. To emphasize the hallucinatory origin of Ashaninca ecological knowledge would have been counterproductive to the main argument underlying my research. Nevertheless, the enigma remained: These extremely practical and frank people, living almost autonomously in the Amazonian forest, insisted that their extensive botanical knowledge came from plant-induced hallucinations. How could this be true?

The enigma was all the more intriguing because the botanical knowledge of indigenous Amazonians has long astonished scientists. The chemical composition of ayahuasca is a case in point. Amazonian shamans have been preparing ayahuasca for millennia. The brew is a necessary combination of two plants, which must be boiled together for hours. The first contains a hallucinogenic substance, dimethyltryptamine, which also seems to be secreted by the human brain; but this hallucinogen has no effect when swallowed, because a stomach enzyme called monoamine oxidase blocks it. The second plant, however, contains several substances that inactivate this precise stomach enzyme, allowing the hallucinogen to reach the brain.

So here are people without electron microscopes who choose, among some

80,000 Amazonian plant species, the leaves of a bush containing a hallucinogenic brain hormone, which they combine with a vine containing substances that inactivate an enzyme of the digestive tract, which would otherwise block the hallucinogenic effect. And they do this to modify their consciousness. It is as if they knew about the molecular properties of plants and the art of combining them, and when one asks them how they know these things, they say their knowledge comes directly from hallucinogenic plants.

I had not come to Quirishari to study this issue, which for me relates to indigenous mythology. I even considered the study of mythology to be a useless and "reactionary" pastime. My focus as an anthropologist was Ashaninca resource development. I was trying to demonstrate that true development consisted first in recognizing the territorial rights of indigenous people. My point of view was materialist and political, rather than mystical—yet I found myself quite impressed with the pragmatism of the Quirishari.

This is a people who teach by example, rather than by explanation. Parents encourage their children to accompany them in their work. The phrase "leave Daddy alone because he's working" is unknown. People are suspicious of abstract concepts. When an idea seems really bad, they will say dismissively, "Es pura teoría" ("That's pure theory"). The two key words that cropped up over and over in conversations were *práctica* and *táctica*, "practice" and "tactics"—no doubt because they are requirements for living in the rainforest.

After about a year in Quirishari, I had come to see that my hosts' practical sense was much more reliable in their environment than my academically informed understanding of reality. Their empirical knowledge was undeniable, but their explanations concerning the origin of their knowledge were unbelievable to me. My attitude was ambivalent. On the one hand, I wanted to understand what they thought—for instance, about the reality of "spirits"—but on the other, I couldn't take seriously what they said because I did not believe it. On leaving Quirishari, I knew I had not solved the enigma of the hallucinatory origin of Ashaninca ecological knowledge. I left with the strange feeling that the problem had more to do with my incapacity to understand what people had said, rather than the inadequacy of their explanations. They had always used such simple words.

In June 1992, I went to Rio to attend the world conference on development and environment. At the "Earth Summit," as it was known, everybody was talking about the ecological knowledge of indigenous people, but certainly no one was talking about the hallucinatory origin of some of it, as claimed by the indigenous people themselves. Colleagues might ask, *"You mean Indians claim they get molecularly verifiable information from their hallucinations? You don't take them literally, do you?"* What could one answer? There is nothing one can say without contradicting two fundamental principles

of Western knowledge.

First, hallucinations cannot be the source of real information, because to consider them as such is the definition of psychosis. Western knowledge considers hallucinations to be at best illusions, at worst morbid phenomena. Second, plants do not communicate like human beings. Scientific theories of communication consider that only human beings use abstract symbols like words and pictures and that plants do not relay information in the form of mental images. For science, the human brain is the source of hallucinations, which psychoactive plants merely trigger by way of the hallucinogenic molecules they contain.

It was in Rio that I realized the extent of the dilemma posed by the hallucinatory knowledge of indigenous people. On the one hand, its results are empirically confirmed and used by the pharmaceutical industry; on the other hand, its origin cannot be discussed scientifically because it contradicts the axioms of Western knowledge.

When I understood that the enigma of plant communication was a blind spot for science, I felt the call to conduct an in-depth investigation of the subject. Furthermore, I had been carrying the mystery of plant communication around since my stay with the Ashaninca, and I knew that explorations of contradictions in science often yield fruitful results. It seemed to me that the establishment of a serious dialogue with indigenous people on ecology and botany required that this question be addressed.

I had myself ingested ayahuasca in Quirishari, an experience that brought me face to face with an irrational and subjective territory that was terrifying, yet filled with information. In the months afterwards, I thought quite a lot about what my main Ashaninca consultant, Carlos Perez Shuma, had said. **What if it were true that nature speaks in signs and that the secret to understanding its language consists in noticing similarities in shape or in form? What if I took him literally?**

I liked this idea and decided to read the anthropological texts on shamanism, paying attention not only to their content but to their style. I taped a note on the wall of my office: "Look at the FORM." One thing became clear as I thought back to my stay in Quirishari. Every time I had doubted one of my consultants' explanations, my understanding of the Ashaninca view of reality had seized up; conversely, on the rare occasions when I had managed to silence my doubts, my understanding of local reality had been enhanced—as if there were times when one had to believe in order to see, rather than the other way around.

It had become clear to me that ayahuasqueros were somehow gaining access in their visions to verifiable information about plant properties. Therefore, I

reasoned, the enigma of hallucinatory knowledge could be reduced to one question: Was this information coming from inside the human brain, as the scientific point of view would have it, or from the outside world of plants, as shamans claimed?

Both of these perspectives seemed to present advantages and drawbacks.

On the one hand, the similarity between the molecular profiles of the natural hallucinogens and of serotonin seemed well and truly to indicate that these substances work like keys fitting into the same lock inside the brain.

However, I could not agree with the scientific position according to which hallucinations are merely discharges of images stocked in compartments of the subconscious memory. I was convinced that the enormous fluorescent snakes that I had seen thanks to ayahuasca did not correspond in any way to anything that I could have dreamed of even in my most extreme nightmares. Furthermore, the speed and coherence of some of the hallucinatory images exceeded by many degrees the best rock videos, and I knew that I could not possibly have filmed them.

On the other hand, I was finding it increasingly easy to suspend disbelief and consider the indigenous point of view as potentially correct. After all, there were all kinds of gaps and contradictions in the scientific knowledge of hallucinogens, which had at first seemed so reliable: Scientists do not know how these substances affect our consciousness, nor have they studied true hallucinogens in any detail. It no longer seemed unreasonable to me to consider that the information about the molecular content of plants could truly come from the plants themselves, just as ayahuasqueros claimed. However, I failed to see how this could work concretely.

Maybe I would find the answer by looking at both perspectives simultaneously, one eye on science and the other on shamanism. The solution would therefore consist in posing the question differently: It was not a matter of asking whether the source of hallucinations is internal or external, but of considering that it might be both at the same time. I could not see how this idea would work in practice, but I liked it because it reconciled two points of view that were apparently divergent.

My research revealed that in the early 1960s, anthropologist Michael Harner had gone to the Peruvian Amazon to study the culture of the Conibo Indians. After a year or so he had made little headway in understanding their religious system when the Conibo told him that if he really wanted to learn, he had to drink ayahuasca. Harner accepted, not without fear, because the people had warned him that the experience was terrifying. The following evening, under the strict supervision of his indigenous friends, he drank the equivalent of a third of a bottle. After several minutes he found himself falling into a world of true hallucinations.

He saw that his visions emanated from "giant reptilian creatures" resting at the lowest depths of his brain. These creatures began projecting scenes in front of his eyes. "First they showed me the planet Earth as it was eons ago, before there was any life on it. I saw an ocean, barren land, and a bright blue sky. Then black specks dropped from the sky by the hundreds and landed in front of me on the barren landscape. I could see the 'specks' were actually large, shiny, black creatures with stubby pterodactyl-like wings and huge whale-like bodies.... They explained to me in a kind of thought language that they were fleeing from something out in space. They had come to the planet Earth to escape their enemy. The creatures then showed me how they had created life on the planet in order to hide within the multitudinous forms and thus disguise their presence. Before me, the magnificence of plant and animal creation and speciation—hundreds of millions of years of activity—took place on a scale and with a vividness impossible to describe. I learned that the dragon-like creatures were thus inside all forms of life, including man." At this point in his account, Harner writes in a footnote at the bottom of the page: "In retrospect one could say they were almost like DNA, although at that time, 1961, I knew nothing of DNA."

I had not paid attention to this footnote previously. There was indeed DNA inside the human brain, as well as in the outside world of plants, given that the molecule of life containing genetic information is the same for all species. DNA could thus be considered a source of information that is both external and internal—in other words, precisely what I had been trying to imagine. I plunged back into Harner's book, but found no further mention of DNA. However, a few pages on, Harner notes that "dragon" and "serpent" are synonymous. This made me think that the double helix of DNA resembled, in its form, two entwined serpents.

The reptilian creatures that Harner had seen in his brain reminded me of something, but I could not say what. After rummaging around my office for a while, I put my hand on an article called "Brain and Mind in Desana Shamanism" by Gerardo Reichel-Dolmatoff. Paging through it, I was stopped by a Desana drawing of a human brain with a snake lodged between the two hemispheres. Several pages further into the article, I came upon a second drawing, this time with two snakes. According to Reichel-Dolmatoff, within the fissure "two intertwined snakes are lying.... In Desana shamanism these two serpents symbolize a female and male principle, a mother and a father image, water and land...; in brief, they represent a concept of binary opposition which has to be overcome in order to achieve individual awareness and integration. The snakes are imagined as spiralling rhythmically in a swaying motion from one side to another."

Concerning the Desanas' main cosmological beliefs, Reichel-Dolmatoff writes: "The Desana say that in the beginning of time their ancestors arrived in canoes shaped like huge serpents."

I was astonished by the similarities between Harner's account, based on his hallucinogenic experience with the Conibo Indians in the Peruvian Amazon, and the shamanic and mythological concepts of an ayahuasca-using people living a thousand miles away in the Colombian Amazon. In both cases there were reptiles in the brain and serpent-shaped boats of cosmic origin that were vessels of life at the beginning of time. Pure coincidence?

To find out, I picked up a book about a third ayahuasca-using people, entitled (in French) *Vision, Knowledge, Power: Shamanism Among the Yagua in the North-East of Peru*. In this study by Jean-Pierre Chaumeil (to my mind, one of the most rigorous on the subject), I found a "celestial serpent" in a drawing of the universe by a Yagua shaman. Then, a few pages away, another shaman is quoted as saying: "At the very beginning, before the birth of the earth, this earth here, our most distant ancestors lived on another earth...." Chaumeil adds that the Yagua consider that all living beings were created by twins, who are "the two central characters in Yagua cosmogonic thought."

These correspondences seemed very strange, and I did not know what to make of them. Or rather, I could see an easy way of interpreting them, but it contradicted my understanding of reality: A Western anthropologist like Harner drinks a strong dose of ayahuasca with one people and gains access, in the middle of the twentieth century, to a world that informs the "mythological" concepts of other peoples and allows them to communicate with life-creating spirits of cosmic origin possibly linked to DNA. This seemed highly improbable to me, if not impossible. Still, I had decided to follow my approach through to its logical conclusion. So I casually penciled in the margin of Chaumeil's text: "twins = DNA?"

These indirect and analogical connections between DNA and the hallucinatory and mythological spheres seemed amusing to me, or at most intriguing. Nevertheless, I started thinking that I had perhaps found with DNA the scientific concept on which to focus one eye, while focusing the other on the shamanism of Amazonian ayahuasqueros.

About this time, as I continued looking out for new connections between shamanism and DNA, I received a letter from a friend who suggested that shamanism was perhaps "untranslatable into our logic for lack of corresponding concepts." I understood what he meant, and I was trying to see precisely if DNA, without being exactly equivalent, might be the concept that would best translate

what ayahuasqueros were talking about.

As I browsed over the writings of authorities on mythology, I discovered with surprise that the theme of twin creator beings of celestial origin was extremely common in South America, and indeed throughout the world. The story that the Ashaninca tell about Avírerí and his sister, who created life by transformation, was just one among hundreds of variants on the theme of the "divine twins."

Another example is the Aztecs' plumed serpent, Quetzalcoatl, who symbolizes the "sacred energy of life," and his twin brother Tezcatlipoca, both of whom are children of the cosmic serpent Coatlicue.

When I read the following passage from Claude Lévi-Strauss' latest book, I jumped: "In Aztec, the word coatl means both 'serpent' and 'twin.' The name Quetzalcoatl can thus be interpreted either as 'Plumed serpent' or 'Magnificent twin.'"

A twin serpent, of cosmic origin, symbolizing the sacred energy of life? Among the Aztecs? I wondered what all these twin beings in the creation myths of indigenous people could possibly mean. I was trying to keep one eye on DNA and the other on shamanism to discover the common ground between the two. I reviewed the correspondences that I had found so far. Ruminating over this mental block, I recalled Carlos Perez Shuma's challenge: "Look at the FORM." I had looked up DNA in several encyclopedias and had noted in passing that the shape of the double helix was most often described as a ladder, or a twisted_ropeladder_

(<http://www.davidicke.net/emagazine/vol26/reviews/rope%20ladder>),

or a spiral staircase. It was during the following split second, asking myself whether there were any ladders in shamanism, that the revelation occurred: "THE LADDERS! The shamans' ladders, 'symbols of the profession' according to Métraux, present in shamanic themes around the world according to Eliade!"

I rushed back to my office and plunged into Mircea Eliade's book *Shamanism: Archaic Techniques of Ecstasy* and discovered that there were "countless examples" of shamanic ladders on all five continents, here a "spiral ladder," there a "stairway" or "braided ropes." In Australia, Tibet, Nepal, ancient Egypt, Africa, _North and South_

(<http://www.davidicke.net/emagazine/vol26/reviews/north%20and%20south>)

America, "the symbolism of the rope, like that of the ladder, necessarily implies communication between sky and earth. It is by means of a rope or a ladder (as, too, by a vine, a bridge, a chain of arm yaw, etc.) that the gods descend to earth and men go up to the sky." Eliade even cites an example from the Old Testament, where Jacob dreams of a ladder reaching up to heaven, "with the angels of God ascending and descending on it." According to Eliade, the shamanic ladder is the earliest version

of the idea of an axis of the world, which connects the different levels of the cosmos, and is found in numerous creation myths in the form of a tree. Until then, I had considered Eliade's work with suspicion, but suddenly I viewed it in a new light. I started flipping through his other writings in my possession and discovered: cosmic serpents. This time it was Australian Aborigines who considered that the creation of life was the work of a "cosmic personage related to universal fecundity, the Rainbow Snake," whose powers were symbolized by quartz crystals.

How could it be that Australian Aborigines, separated from the rest of humanity for 40,000 years, tell the same story about the creation of life by a cosmic serpent associated with a quartz crystal as is told by ayahuasca-drinking Amazonians? The connections that I was beginning to perceive were blowing away the scope of my investigation. How could cosmic serpents from Australia possibly help my analysis of the uses of hallucinogens in Western Amazonia? I tried answering my own question: One, Western culture has cut itself off from the serpent/life principle, in other words DNA, since it adopted an exclusively rational point of view. Two, the peoples who practice what we call "shamanism" communicate with DNA. Three, paradoxically, the part of humanity that cut itself off from the serpent managed to discover its material existence in a laboratory some three thousand years later.

People use different techniques in different places to gain access to knowledge of the vital principle. **In their visions shamans manage to take their consciousness down to the molecular level. This is how they learn to combine brain hormones with monoamine oxidase inhibitors, or how they discover 40 different sources of muscle paralyzers, whereas science has only been able to imitate their molecules. When they say their knowledge comes from beings they see in their hallucinations, their words mean exactly what they say.** According to the shamans of the entire world, one establishes communication with spirits via music. For the ayahuasqueros, it is almost inconceivable to enter the world of spirits and remain silent. Angelika Gebhart-Sayer discusses the "visual music" projected by the spirits in front of the shaman's eyes: It is made up of three-dimensional images that coalesce into sound and that the shaman imitates by emitting corresponding melodies. I should check whether DNA emits sound or not.

It seemed that no one had noticed the possible links between the "myths" of "primitive peoples" and molecular biology. No one had seen that the double helix had symbolized the life principle for thousands of years around the

world. On the contrary; everything was upside down. It was said that hallucinations could in no way constitute a source of knowledge, that Indians had found their useful molecules by chance experimentation, and that their "myths" were precisely myths, bearing no relationship to the real knowledge discovered in laboratories.

At this point, I remembered that Michael Harner had said that this information was reserved for the dead and the dying. Suddenly, I was overcome with fear and felt the urge to share these ideas with someone else. I picked up the phone and called an old friend, who is also a writer. I quickly took him through the correspondences I had found during the day: the twins, the cosmic serpents, Eliade's ladders. Then I added: "There is a last correlation that is slightly less clear than the others. The spirits one sees in hallucinations are three-dimensional, sound-emitting images, and they speak a language made of three-dimensional, sound-emitting images. In other words, they are made of their own language, like DNA."

There was a long silence on the other end of the line. Then my friend said, "Yes, and like DNA they replicate themselves to relay their information." I jotted this down, and it was later in reviewing my notes on the relationship between the hallucinatory spirits made of language and DNA that I remembered the first verse of the first chapter of the Gospel according to John: "In the beginning was the logos"—the word, the verb, the language.

That night I had a hard time falling asleep. My investigation had led me to formulate the following working hypothesis: In their visions, shamans take their consciousness down to the molecular level and gain access to information related to DNA, which they call "animate essences" or "spirits." This is where they see double helixes, twisted ladders, and chromosome shapes. This is how shamanic cultures have known for millennia that the vital principle is the same for all living beings and is shaped like two entwined serpents (or a vine, a rope, a ladder ...). **DNA is the source of their astonishing botanical and medicinal knowledge, which can be attained only in defocalized and "nonrational" states of consciousness, though its results are empirically verifiable.** The myths of these cultures are filled with biological imagery. And the shamans' metaphoric explanations correspond quite precisely to the descriptions that biologists are starting to provide. Like the axis mundi of shamanic traditions, DNA has the form of a twisted ladder (or a vine ...); according to my hypothesis, DNA was, like the axis mundi, the source of shamanic knowledge and visions. To be sure of this I needed to understand how DNA could transmit visual information. I knew that it emitted photons, which are electromagnetic waves, and I remembered what Carlos Perez Shuma had told me when he compared the spirits to "radio waves": "Once you turn on the radio, you can pick them up. It's like that with souls; with ayahuasca ... you can see them and hear them."

So I looked into the literature on photons of biological origin, or "biophotons."

In the early 1980s, thanks to the development of a sophisticated measurement device, a team of scientists demonstrated that the cells of all living beings emit photons at a rate of up to approximately 100 units per second and per square centimeter of surface area. They also showed that DNA was the source of this photon emission.

During my readings, I learned with astonishment that the wavelength at which DNA emits these photons corresponds exactly to the narrow band of visible light. Yet this did not constitute proof that the light emitted by DNA was what shamans saw in their visions. Furthermore, there was a fundamental aspect of this photon emission that I could not grasp. According to the researchers who measured it, its weakness is such that it corresponds "to the intensity of a candle at a distance of about 10 kilometers," but it has "a surprisingly high degree of coherence, as compared to that of technical fields (laser)."
How could an ultra-weak signal be highly coherent? How could a distant candle be compared to a "laser"?

I came to understand that in a coherent source of light, the quantity of photons emitted may vary, but the emission intervals remain constant. DNA emits photons with such regularity that researchers compare the phenomenon to an "ultra-weak laser." I could understand that much, but still could not see what it implied for my investigation.

I turned to my scientific journalist friend, who explained it immediately: "A coherent source of light, like a laser, gives the sensation of bright colors, a luminescence, and an impression of holographic depth." My friend's explanation provided me with an essential element. The detailed descriptions of ayahuasca-based hallucinatory experiences invariably mention bright color, and, according to the authors of the dimethyltryptamine study: "Subjects described the colors as brighter, more intense, and deeply saturated than those seen in normal awareness or dreams: It was the blue of a desert sky, but on another planet. The colors were 10 to 100 times more saturated." It was almost too good to be true. DNA's highly coherent photon emission accounted for the luminescence of hallucinatory images, as well as their three-dimensional, or holographic, aspect.

On the basis of this connection, I could now conceive of a neurological mechanism for my hypothesis. The molecules of nicotine or dimethyltryptamine, contained in ayahuasca, activate their respective receptors, which set off a cascade of electrochemical reactions inside the neurons, leading to the stimulation of DNA and, more particularly, to its emission of visible waves, which shamans perceive as "hallucinations."

There, I thought, is the source of knowledge: DNA, living in water and emitting photons, like an aquatic dragon spitting fire.

Am I wrong in linking DNA to these cosmic serpents from around the world, these sky-ropes and axis mundi? Some of my colleagues would undoubtedly say yes. They would remind me that nineteenth century anthropologists had compared cultures and elaborated theories on the basis of the similarities they found. When they discovered, for instance, that bagpipes were played not only in Scotland, but in Arabia and the Ukraine, they established false connections between these cultures. Then they realized that people could do similar things for different reasons.

Since then, anthropology has backed away from grand generalizations, denounced "abuses of the comparative method," and locked itself into specificity bordering on myopia. Yet by shunning comparisons between cultures, one ends up masking true connections and fragmenting reality a little more, without even realizing it.

Is the cosmic serpent of the Shipibo--Conibo, the Aztecs, the Australian Aborigines, and the Ancient Egyptians the same? No, will reply the anthropologists who insist on cultural specificity; but it is time to turn their critique on its head. Why insist on taking reality apart, but never try putting it back together again?

According to my hypothesis, shamans take their consciousness down to the molecular level and gain access to biomolecular information. But what actually goes on in the brain/mind of an ayahuasquero when this occurs? What is the nature of a shaman's communication with the animate essences of nature? The clear answer is that more research is needed in consciousness, shamanism, molecular biology, and their interrelatedness.

Jeremy Narby, PhD, grew up in Canada and Switzerland, studied history at the University of Canterbury, and received his doctorate in anthropology from Stanford University. He is author of *The Cosmic Serpent: DNA and the Origins of Knowledge* (<http://www.hiddenmysteries.com/redirect/index310.html>) (Tarcher/Putnam, 1998). *Noetic Sciences Review*, Vol. 48, Summer 1999 pages 16-21

Interpreting "Sefer Yetzirah" Through Genetic Engineering

The primary interpretation that I have used is: "Understanding Jewish Mysticism: A Source Reader" by David R. Blumenthal (referred to herein as UJM).

The I Ching, the earliest Chinese text of systematic speculative thought, provides the source for a deep analogy with the 64 codons of the genetic code. Its Hebrew counterpart is the *Sefer Yetzirah*. It provides the source for the other half of the occult genetic code; the 20 amino acids and 2 stop codon groups.

Sefer Yetzirah is the earliest known work of Hebrew magical thought included in the subject known as Kabbalah or Qabala. Its title translates into English as "Book of Creation." It was written between the third and sixth centuries. It is extremely brief, less than 2000 words, and is written in a terse and enigmatic style which has defied all attempts to completely clarify its meaning.

In short, the text tells how The Creator used the numbers 1-10 and the 22 letters of the Hebrew alphabet to create Universe and all the living things in it. The Hebrew letters are molded like bits of clay, placed opposite each other and otherwise manipulated to create, in a magical way, all that exists.

"... *Sefer Yetzirah* interprets the 'speech' of God in a very clear way. God did not talk to Himself, like an absolute monarch who wills and it is done. Rather, He generated substance, from which He formed letters, out of which he combined 'words', which became things. God's 'speech' was not sound but a modeling of units of clay." (UJM p. 46)

"... the author (of *Sefer Yetzirah*) maintains that, using his interpretation, one can oneself become a "creator"; though on a much smaller scale. In other words, the *Sefer Yetzirah* proposes not only an interpretation of 'In the beginning' but also a secret teaching of creative magic. It teaches, properly understood, the secret of Creation and of creation, of the Maker and the maker." (UJM p. 9)

"... the reader is told 'test' and 'explore' (and in some manuscripts also 'know, calculate, and form') - i.e., to try to combine letters and numbers and to 'create' as God did. Such activity was, in fact, known in the Judaism of late antiquity. By it, some rabbis were reported to be able to create small animals and homunculi (animated clay men, who cannot, however, speak)." (UJM p. 16)

"... at the conclusion of profound study of the mysteries of the *Sefer Yetzirah* on the construction of the cosmos, the sages (as did Abraham the Patriarch) acquired the power to create living beings." ("Kabbalah", Gershom Scholem, Meridian Books, 1974, p. 352)

"When Abraham our father, may he rest in peace, came: he looked, and saw, and understood, and explored, and engraved, and hewed out, and succeeded at Creation as it is said, 'And the bodies they had made in Haran' [Genesis 12:5]." (UJM p. 43)

"The Talmud, that great compendium of rabbinic literature, reports many instances of magic as practiced by the rabbis. One example must suffice:

What [magic] is entirely permitted?

Such as [the magic] performed by R. Hanina and R. 'Oshaia, who spent every Sabbath eve in studying the Laws of Creation, by means of which they created a third-grown calf and ate it." Talmud, Sanhedrin 67a, cited in J. Neusner, *There We Sat Down* (New York and Nashville: Abingdon Press, 1972), p. 80

"And this is the sign: He looks and speaks, and He makes everything that is formed and everything that is spoken with One term. And the sign of the thing is twenty-two needs in one body." (UJM p. 26)

"... The twenty-two needs of the body are not specified, although whatever they are, they correspond to the twenty-two letters of the alphabet." (UJM p. 26)

"Throughout the *Sefer Yetzirah*, the word for 'body' is *nefesh*, which is usually translated as 'soul'. The context here and at the end of the book calls for 'body', however." (UJM p. 32)

So here, in the *Sefer Yetzirah*, we have a magical text which purports to allow those who understand and use it to create living creatures. This is accomplished using 22 letters which are manipulated like bits of clay into chains that are arranged into complementary parallels and other shapes. This is very similar to scientific descriptions of the activity which takes place within the cells of living things. Scientists use the language metaphor to describe these chemicals and their activities. Lengths of DNA and the genes which reside there are referred to as genetic sentences and their chemical components are referred to as words and letters. Counting the stop codons as 2 separate groups there are 22 amino acid letters in the chemical alphabet of life.

"2. Twenty-Two letters are the foundation: He engraved them, He hewed them out, He combined them, He weighed them, and He set them at opposites, and He formed through them everything that is formed and everything that is destined to be formed." (UJM p. 21)

In addition to the numerical and functional analogies between the amino acids and the Hebrew alphabet there is a category coincidence as well. The letters of the Hebrew language in the *Sefer Yetzirah* are arranged into 3 categories.

3 "Mother" letters: Aleph, Mem, Shin

7 "Double" letters: Beth, Gimel, Daleth, Kaph, Pe, Resh, Tau

12 "Simple" letters: He, Vau, Zain, Cheth, Teth, Yod, Lamed, Nun, Samekh, Ayin, Tzaddi, Qoph

The amino acids and punctuation codons have many chemical properties by which they can be categorized, but the simplest property describes how they behave within their watery environment of the cell. The amino acids can be described as either hydrophobic (water hating)

or hydrophilic (water loving).

12 Amino Acids are Hydrophilic: Serine, Threonine, Tyrosine, Histidine, Glutamine, Cysteine, Asparagine, Arginine, Aspartate, Glutamate, Lysine, Glycine

8 Amino Acids are Hydrophobic: Valine, Isoleucine, Proline, Leucine, Phenylalanine, Tryptophan, Alanine, Methionine

Since Methionine also serves to mark the starting point for translation on the mRNA strand, I put it in the "Punctuation" category along with the 2 stop codon groups. Therefore the 64 codons of the genetic code, those that code for amino acids and those that serve as "Punctuation" (start & stop), can be put into the same number of categories with the same number of items in each, as the letters of the Hebrew alphabet.

3 Punctuation groups (2 stop groups, 1 start group [Methionine])

7 Hydrophobic Amino Acids

12 Hydrophilic Amino Acids

This curious coincidence of similar categories was very useful when the time came to match up the individual Hebrew letters with their corresponding amino acids.

THREADS

When scientists speak of the chemistry of life they often use the metaphor of language, as pointed out earlier. They also use other metaphors. The strands of DNA or mRNA are also spoken of as "threads" and the entire genome is often referred to as "the thread of life." I mention this because one of the many translations of *Sefer Yetzirah* which I have read uses the "thread of life" metaphor extensively.

"The twenty-two letters which form the *stamina* after having been appointed and established by God, He combined, weighed and changed them, and formed by them all beings which are in existence, and all those which will be formed in all time to come." (p. 20) (The Ancient and Mystical Order Rosae Crucis - AMORC, translated by Rev. Dr. Isidor Kalisch, 1877)

The word that Kalisch translates as "stamina" is the Hebrew word *yesod* which others translate (more correctly) as "foundation." Why Kalisch chose "stamina" is unknown, but its use in this context is provocative since it is derived from the Latin:

STAMINA - the plural of stamen = warp: *the thread of life spun by the fates*. endurance. Greek stemon = thread. Note that: Stamen - the organ of the flower that produces the male gamete. This shows that "the thread of life" concept was linked early on to the process of reproduction.

So, if we substitute the origin of "stamina" for "stamina" in the text, we get: "The twenty-two letters which form *the thread of life* after having been appointed and established by God, He combined, weighed and changed them, and formed by them all beings which are in existence, and all those which will be formed in all time to come."

"This *Torah*, the linguistic movement of *Ein-Sof* within itself, is called a *malbush* ("garment"), though in fact it is inseparable from the divine substance and is woven within it ... (the garments) length is made up of the alphabets of the *Sefer Yetzirah* and had 231 "gates" ... which form the archistruature of divine thought. Its breadth was composed of an elaboration of the Tetragrammaton according to the numerical value of the four possible spellings of the fully written names of its letters, ... , which were the "threads" and the "weave" that were originally situated in the hem of the garment. ... The size of this garment was twice the area necessary for the creation of all the worlds. After it had been woven, it was folded in two: half of it ascended and its letters stood behind the letters of the other half." (Kabbalah p.132)

We can see then that the tradition of the Hebrews uses the metaphors of clay and threads to explain the creation of all living things, including man. We pass now to the Chinese whose I Ching forms the other half of the occult genetic code. They too have creation myths and traditions that use similar metaphors. The following exerpts are from: "Mythologies of the Ancient World", Samuel Noah Kramer Ed.

Fu Hsi is the legendary creator of the I Ching. His sister/consort is Nu Kua. She is also portrayed as the creator of mankind:

"It is popularly said that when Heaven and Earth had opened forth, but before there were human beings, Nu-Kua created men by patting yellow earth together. But the work tasked her strength and left her no free time, so that she then dragged a string through mud, thus heaping it up so as to make it into men. Therefore the rich and the noble are those men of yellow earth whereas the poor and the lowly - all ordinary people - are those cord-made men." (p. 338)

To wrap-up the analysis I will demonstrate some of the curious evidence derived from the Qabalistic practice of *gematria*, the practice of assigning number values to Hebrew words based on the numerical values of the Hebrew letters. Note that there are 46 chromosomes in the normal human. Each of the parents contribute, via their sperm and ovum, 23 chromosomes to the new being they create together. Note also that each of the 64 hexagrams of the I Ching has 6 lines and so there is a total of 384 lines in all.

חַיָּה (life 23) + חוֹט (thread 23) = 46
 אָבָה (father 4) + אִמָּה (mother 42) = 46
 אָדָם (Adam 45) + חַוָּה (Eve 19) = 64
 זָרַע (sperm 277) + בִּיצָה (ovum 107) = 384
 זָכָר (male 227) + נְקֵבָה (female 157) = 384

RH Negative Factor

Nearly 85% of all human beings have Rh positive blood. Their red blood cells contain a substance called the RHesus blood factor. This means the positive blood contains a protein that can be traced to the Rhesus monkey. It is acknowledged that blood factors are transmitted with more exactitude than any other human or animal characteristic. It is not known from whence the negative Rh factor derived.

The highest concentration of Rh negative blood occurs in the Basque people of Northern Spain

and Southern France, and in the Celtic peoples. The Celtic peoples, which includes the Scottish, Welsh, Irish, Cornish, Manx, Bretons, spent a period of time in France - near Basque country. It is not known, by me, if the Celtic brought the Rhesus-free blood [negative] to the Basque, or the Celtic acquired the bloodline from the Basque. Since there are small groups of people all over the globe - in several locations that have the Rh-negative blood, I would sooner think that it did originate with the Celtic, as they wandered far and wide. The Basque, on the other hand, generally speaking, kept to themselves in a territory high in the mountains between France and Spain, but I could be wrong. I also believe that the Celtic were actually the same peoples as the ancient Egyptians, who were also one and the same as the Israelites - not to be confused with the people who call themselves 'Jews' today. Only 15% of the entire world's population are known to have the Rh negative blood factor.

While it is known that Rh negative blood - (type 'O') is the purest blood known to mankind, it is not known from where the negative factor originates. The majority of people, especially the native people of the Americas have type 'O' blood, except the Blackfoot Indians who have 82% type A blood. These native people are the only tribe to have this high concentration of A blood - most other American Indians have 80% type 'O'. It is the Rh negative factor that makes the blood 'pure'. Pure enough to be the universal blood of the world. Everyone on the face of the earth can receive Rh negative type 'O' blood, but these very same 'O' negative people cannot receive blood from any other type except their own type. The three types are 'O', 'B', 'A' and a fourth - a combination of 'AB'.

Rh negative blood indicates no protein connections to the Rhesus monkey, whereas Rh positive blood does carry protein linked to the Rhesus monkey - hence the 'Rh', i.e. Rhesus factor.

Blood type 'O' is the most common. Blood type 'A' is next, and blood type 'B' is after that. Blood type 'AB' is the least common. It is very rare for even as many as 10 percent of a population to be of blood type 'AB'. When we separate the types into 'negative' and 'positive' we find that 'O' negative (the universal donor blood) constitutes less than 7% of the world's population. Science at this very time is attempting to make the recipe for Rh negative 'O' blood, but without success. The protein in positive blood can be cloned, but not so of the negative blood - which is quite interesting.

If the Rh negative factor does not derive from any known earthly link - from where did it originate? Perhaps Zechariah Sitchin would be able to tell us. He would no doubt say it is from the 'gods'. What the big boys say is that the Rh-negative factor is a mutation of unknown origin which happened a few thousand years ago. These 'negative' blooded people spread heavily into the area of what is now Spain, England, Ireland, France, then later into America, Canada and Australia. A faction of 'O' negative people can be found amongst the Basque peoples. They contain the largest concentration of known 'O' negative blooded people today because, they for the most part, have confined themselves to one area, whereas the Celtic people have branched out among all the new world.

It is evident that Adam and Eve had Rh negative blood - the type would have to be 'O', because Adam was created perfect and that would mean the 'purest' blood. Eve would definitely have

the same blood as well. Eve's 'sin' was committing adultery with an 'outsider' (yes there were other humans on the earth when Adam and Eve were placed here). Eve's sin resulted in the birth of Cain - with positive blood - his father perhaps a Blackfoot Indian with 'A' positive type blood (see chart above). Descendants of Cain were sent out from Adam and Eve into the land of 'Nod' - (America?). Or maybe Cain's father was a 'Lapp' who again had A+ blood. Cain's family were sent into 'Nod' which could mean the extreme north - a good place to send Cain, and America wouldn't be much of a punishment. The Blackfoot Indians do have the highest concentration of 'A' blood, however. The descendants of Cain would have confined themselves from the outside races of people because they were 'marked' in some way and were fearful of death if they ventured out into the world.

Blood was, and still is, sacred to the God of Israel. When the Israelites were kept in the wilderness for forty years (a biblical generation), perhaps it was to cleanse their blood. After many years of inner-marriages with A+ and B+ blood types their once pure bloodline was becoming corrupt. This once 'clean' breed of people were instructed to marry only within the other Israelite tribes, thus preventing contamination of their blood line by producing only RH 'O' negative children. The Israelites were given a 'promise' land after their long quarantine in the wilderness, but only the younger generations were allowed to enter the promise land - those under the age of twenty who were born in the wilderness with two negative Israelite parents. When these younger Israelites were set free to go down to the promise land they were instructed not to marry outside their own tribes, and strict hygienic instructions were imposed upon them as well. But eventually the Israelites scattered in all directions marrying other than Israelite spouses, and the positive blood in all types soon took over and today 85% of humans are positive.

An RH negative pregnant mother's body will reject her positive blooded baby in the womb. Her body fights the RHesus factor as a foreign element. A positive mother's body does not fight the negative baby she is carrying however.

There are certain similarities that occur to those having rh negative blood - according to some who have it there are common patterns found, which include the following:

1. Predominance of green or hazel eyes that change color like a chameleon, but also blue eyes
2. True red or reddish hair
3. Low pulse rate
4. Low blood pressure
5. Keen sight or hearing
6. ESP
7. Extra rib or vertebrae
8. UFO connections
9. love of space and science
10. A sense of not belonging to the human race
11. Piercing eyes
12. Paranormal occurrences
13. Physic dreams
14. Truth seekers
15. Desire for higher wisdom
16. Empathetic illnesses
17. Deep compassion for fate of mankind
18. a sense of a 'mission' in life
19. Psychic abilities
20. Unexplained scars on body
21. Capacity to disrupt electrical appliances
22. Alien contacts

Additional note: Regarding DNA, bloodline, and the Basque people,

"The English [Anglo-Saxons] are the odd ones out because they are the ones more linked to continental Europe. The Scots, the Irish, the Welsh and the Cornish are all very similar in their genetic pattern to the Basque." Source: The study headed by Dr Bradley was published in the

American Journal of Human Genetics.

It is interesting, when looking over the kings and queens of the British Isles, that they married Germans, Italians, Spanish, Slavic, Danish, etc., so all the Royal families were interlinked and related. So, this Rh neg line in our English blue-blood could, in fact, originate from the Basque. I'll bet that we all could find that we have a connection to this same blue-blood family.

- by Betty Rhodes (From: <http://the-red-thread.net/blood.html>)

Did Ancient Biotech Create "Nephilim"? Will Modern Science Bring Them Again?

By Thomas Horn

The benei Elohim saw the daughters of Adam, that they were fit extensions - (Gen 6:2, Interlinear Hebrew Bible).

May 3, 2007 -- RaidersNewsNetwork.com -- In the study of the Old Testament Book of Genesis, beings of great stature called "giants" appear, which some scholars believe came into existence after powerful angels known as 'Watchers' descended to earth and used women (or their biological matter) to construct bodies of flesh, which they used to "extend" themselves into the material world.

The Apocryphal books of Enoch, 2 Esdras, Genesis Apocryphon and Jasher support the Genesis story, adding that the sin of the angels grew to include genetic modification of animals as well as humans. The Book of Jasher, mentioned in the Bible in Joshua 10:13 and 2 Samuel 1:18, says, "After the fallen angels went into the daughters of men, the sons of men taught the mixture of animals of one species with the other, in order to provoke the Lord"(4:18). This clear reference to the Genesis 6 record illustrates that "animals" were included in whatever cross-species experiments were being conducted, and that this activity resulted in judgment from God. The Book of Enoch also supports this record, saying that after the fallen angels merged their DNA with women, they "began to sin against birds, and beasts, and reptiles, and fish" (7:5,6). The Old Testament contains associated reference to genetic mutations, which developed among humans following this activity, including unusual size, physical strength, six fingers, six toes, animal appetite for blood and even lion-like features among men (2 Sam 21:20; 23:20).

What if, by corrupting the species barrier in which each creature was to recreate after its "own kind," Watchers had successfully mingled human-animal DNA and combined the hereditary traits of different species into a single new mutation? An entirely new being—Nephilim—might have suddenly possessed the combined intelligence and instincts (seeing, hearing, smelling, reacting to the environment) of several life forms and in ways unfamiliar to creation.

Will modern biotechnology resurrect Nephilim?

Today, molecular biologists classify the functions of genes within native species but are unsure in many cases how a gene's coding might react from one species to another. In recombinant DNA technology, a "transgenic" organism is created when the genetic structure of one species is altered by the transfer of a gene or genes from another. This could change not only the genetic structure of the modified animal and its offspring, but its evolutionary development, sensory modalities, disease propensity, personality and behavior traits among other things.

Such transgenic tinkering already exists in many parts of the world including the United States, Britain and Australia where animal eggs are being used to create hybrid human embryos from which stem cell lines can be produced for medical research. A team at Newcastle and Durham universities in the UK recently announced plans to "create hybrid rabbit and human embryos, as well as other 'chimera' embryos mixing human and cow genes." More alarmingly, the same researchers have already managed to reanimate tissue "from dead human cells in another breakthrough which was heralded as a way of overcoming ethical dilemmas over using living embryos for medical research" (1). In the United States, similar studies led Irv Weissman, director of Stanford University's Institute of Cancer/Stem Cell Biology and Medicine in California to create mice with partly human brains, causing some ethicists to raise the issue of "humanized animals" in the future that could become "self aware" as a result of genetic modification. Even the President of the United States, George W. Bush in his January 31st, 2006 State of the Union Address called for legislation to "prohibit.... creating human-animal hybrids, and buying, selling, or patenting human embryos."

Not everybody shares these concerns. A radical, international, intellectual, and cultural movement known as "Transhumanism" supports the use of new sciences including genetic modification to enhance human mental and physical abilities and aptitudes so that "human beings will eventually be transformed into beings with such greatly expanded abilities as to merit the label 'posthuman'" (2).

I have personally debated leading transhumanist, Dr. James Hughes on his weekly syndicated talk show, Changesurfer Radio. Hughes is Executive Director of the Institute for Ethics and Emerging Technologies and teaches at Trinity College in Hartford Connecticut. He is also the author of "Citizen Cyborg: Why Democratic Societies Must Respond to the Redesigned Human of the Future", a sort of Bible for transhumanist values. Dr. Hughes joins a growing body of academics, bioethicists and sociologists who support "large-scale genetic and neurological engineering of ourselves....[a] new chapter in evolution [as] the result of accelerating developments in the fields of genomics, stem-cell research, genetic enhancement, germ-line engineering, neuro-pharmacology, artificial intelligence, robotics, pattern recognition technologies, and nanotechnology.... at the intersection of science and religion [which has begun to question] what it means to be human..." (3).

In related development, Case Law School in Cleveland was awarded a \$773,000 grant in April 2006 from the National Institutes of Health to develop guidelines "for the use of human subjects in what could be the next frontier in medical technology – genetic enhancement." Maxwell Mehlman, Arthur E. Petersilge Professor of Law, director of the Law-Medicine Center at the Case Western Reserve University School of Law, and professor of bioethics in the Case School of Medicine is leading the team of "law professors, physicians, and bioethicists in the two-year project to develop standards for tests on human subjects in research that involves the use of genetic technologies to enhance 'normal' individuals – to make them smarter, stronger, or better-looking" (4).

Other law schools including Stanford and Oxford have recently hosted "Human Enhancement and Technology" conferences where transhumanists, futurists, bioethicists and legal scholars merged to discuss the ethical and legal ramifications of posthumans.

In his book "Life, Liberty and the Defense of Dignity: The Challenges of Bioethics", the former chairman of the President's Council on Bioethics, Leon Kass provided a status report on where we stand today regarding transhumanism. He warned in the introduction that "Human nature itself lies on the operating table, ready for alteration, for eugenic and psychic 'enhancement,' for wholesale redesign. In leading laboratories, academic and industrial, new creators are confidently amassing their powers and quietly honing their skills, while on the street their evangelists are zealously prophesying a posthuman future. For anyone who cares about preserving our humanity, the time has come for paying attention" (5).

Not to be outdone in this regard by the National Institute of Health, DARPA and other agencies of the U.S. military have taken inspiration from the likes of Tolkein's Lord of the Rings. In a scene reminiscent of Saruman the wizard creating monstrous Uruk-Hai to wage unending, merciless war, we find billions of American tax dollars have flowed into the Pentagon's Frankensteinian dream of "super-soldiers" and the "Extended Performance War Fighter" program. Not only does the EPWFP envision "injecting young men and women with hormonal, neurological and genetic concoctions; implanting microchips and electrodes in their bodies to control their internal organs and brain functions; and plying them with drugs that deaden some of their normal human tendencies: the need for sleep, the fear of death, [and] the reluctance to kill their fellow human beings," but Chris Floyd in an article for CounterPunch a while back quoted the Daily Telegraph and Christian Science Monitor, saying "some of the research now underway involves actually altering the genetic code of soldiers, modifying bits of DNA to fashion a new type of human specimen, one that functions like a machine, killing tirelessly for days and nights on end.... mutations [that] will 'revolutionize the contemporary order of battle' and guarantee 'operational dominance across the whole range of potential U.S. military employments" (6).

In keeping with our editorial, imagine the staggering implications of such science if dead Nephilim tissue was discovered with intact DNA and a government somewhere that was willing to clone or mingle the extracted organisms to make Homo-nephilim. If one accepts the biblical story of giants as real, such discovery could actually be made someday, or perhaps already has been and was covered up. The technology to resurrect the extinct species already exists, and cloning methods are being studied now for use with bringing back Tasmanian Tigers, Woolly Mammoths and other extinguished creatures.

Let not the dead live, let not the giants rise again... (Isaiah 26.14, Douay-Rheims Version)

The reference above from the Book of Isaiah 26:14 could be troubling, as it may reflect a prayer from the prophet, a petition to God not to allow the giants to incarnate again. Did Isaiah pray this way because he knew something about the future, something related to a return of

Nephilim?

The relationship between creatures called "Rephaim" and the Nephilim of ancient texts is enlightening, as Rephaim are viewed as the spirits of dead Nephilim in the grave. The word "Rephaim" carries with it the meaning 'to heal' or to be 'healed' as in a 'resurrection'. In the Ras Shamra texts, the Rephaim are described as both human and divine beings who worshipped the Amorite god Ba'al, the ruler of the underworld, where the Rephaim served as his acolyte assembly of lesser gods, kings, heroes, and rulers. These beings were believed to have power to return from the dead through incarnation in bodily form as 'Nephilim'. The ability of Rephaim to be reincarnated in this way as living Nephilim is viewed by some as the explanation for Nephilim existing before, and after, the Great Flood.

The book of Job may elucidate this idea when it says, "Dead things are formed from under the waters. . . ." (Job 26.5). The dead in this text are Rephaim and the phrase "are formed" is from "ChuwI", meaning to twist or whirl as in a double helix coil or genetic manufacturing. When combined with something my good friend Steve Quayle once wrote, the word "ChuwI" takes on added meaning:

"When the Greek Septuagint was created, the Hebrew word Nephilim was translated into Greek as 'gegenes'. This is the same word used in Greek mythology for the 'Titans', creatures created through the interbreeding of the Greek gods and human beings. The English words 'genes' and 'genetics' are built around the same root word as gegenes; genea meaning 'breed' or 'kind'. Thus, the choice of this word again suggests a genetic component to the creation of these giants." (7)

And what about this prophecy from Isaiah:

The vision which Esaias son of Amos saw against Babylon. Lift up a standard on the mountain of the plain, exalt the voice to them, beckon with the hand, open the gates, ye ruler. I give command and I bring them: giants are coming to fulfill my wrath...For behold! the day of the Lord is coming which cannot be escaped, a day of wrath and anger, to make the world desolate...And Babylon...shall be as when God overthrew Sodom and Gomorrah...It shall never be inhabited... and monsters shall rest there, and devils shall dance there and satyrs shall dwell there..." (Isaiah 13:1-3, 9, 19-22, [Septuagint Version])

Given what is happening in Babylon (Iraq) and biotechnology today, we may be witnessing the fulfillment of Biblical prophecy.

Thomas Horn is a well known radio personality and CEO of RaidersNewsNetwork.com and SurvivorMall.com. Over the last decade, he has authored several books and dozens of published articles. His works have been referred to by writers of the LA Times Syndicate, MSNBC, Christianity Today, World Net Daily, White House Correspondents and dozens of newsmagazines and press agencies around the globe. His latest book "The Ahriman Gate" fictionalizes biotechnology used to resurrect Biblical Nephilim.

NOTES

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- (8) (See: <http://www.ccel.org/bible/brenton/Isaiah/13.html>)

Relevant Websites

<http://the-red-thread.net/blood.html>

<http://merkaba.tribe.net/thread/de3a4d42-984e-4a7a-9e43-beb61802d5b8>

Russian DNA Discoveries Explain Human 'Paranormal' Events

Esoteric and spiritual teachers have known for ages that our body is programmable by language, words and thought. This has now been scientifically proven and explained.

The human DNA is a biological Internet and superior in many aspects to the artificial one. The latest Russian scientific research directly or indirectly explains phenomena such as clairvoyance, intuition, spontaneous and remote acts of healing, self healing, affirmation techniques, unusual light/auras around people (namely spiritual masters), mind's influence on weather patterns and much more.

In addition, there is evidence for **a whole new type of medicine in which DNA can be influenced and reprogrammed by words and frequencies WITHOUT cutting out and replacing single genes.**

Only 10% of our DNA is being used for building proteins. It is this subset of DNA that is of interest to western researchers and is being examined and categorized. The other 90% are considered "junk DNA."

The Russian researchers, however, convinced that nature was not dumb, joined linguists and geneticists in a venture to explore that 90% of "junk DNA." Their results, findings and conclusions are simply revolutionary!

According to their findings, our DNA is not only responsible for the construction of our body but also serves as data storage and communication. The Russian linguists found that the genetic code - especially in the apparent "useless" 90% - follows the same rules as all our human languages.

To this end they compared the rules of syntax (the way in which words are put together to form phrases and sentences), semantics (the study of meaning in language forms) and the basic rules of grammar. They found that the alkalines of our DNA follow a regular grammar and do have set rules just like our languages. Therefore, human languages did not appear coincidentally but are a reflection of our inherent DNA.

The Russian biophysicist and molecular biologist **Pjotr Garjajev** and his colleagues also explored the vibrational behavior of DNA. In brief the bottom line was: "Living chromosomes function just like a holographic computer using endogenous DNA laser radiation." This means that they managed, for example, to modulate certain frequency patterns (sound) onto a laser-like ray which influenced DNA frequency and thus the genetic information itself.

Since the basic structure of DNA-alkaline pairs and of language (as explained earlier) is of the same structure, no DNA decoding is necessary. *One can simply use words and sentences of the human language! This, too, was experimentally proven!*

Living DNA substance (in living tissue, not in vitro) will always react to language-modulated laser rays and even to radio waves, if the proper frequencies (sound) are being used. This finally and scientifically explains why affirmations, hypnosis and the like can have such strong effects on humans and their bodies. It is entirely normal and natural for our DNA to react to language.

While western researchers cut single genes from DNA strands and insert them elsewhere, the Russians enthusiastically created devices that influence cellular metabolism through modulated radio and light frequencies, thus repairing genetic defects.

They even captured information patterns of a particular DNA and transmitted it onto another, thus reprogramming cells to another genome. So they successfully transformed, for example, frog embryos to salamander embryos simply by transmitting the DNA information patterns! This way the entire information was transmitted without any of the side effects or disharmonies encountered when cutting out and re-introducing single genes from the DNA.

This represents an unbelievable, world-transforming revolution and sensation: by simply applying vibration (sound frequencies) and language instead of the archaic cutting-out procedure!

This experiment points to the immense power of wave genetics, which obviously has a greater influence on the formation of organisms than the biochemical processes of alkaline sequences.

Esoteric and spiritual teachers have known for ages that our body is programmable by language, words and thought. This has now been scientifically proven and explained.

Of course the frequency has to be correct. And this is why not everybody is equally successful or can do it with always the same strength. The individual person must work on the inner processes and development in order to establish a conscious communication with the DNA.

The Russian researchers work on a method that is not dependent on these factors but will ALWAYS work, provided one uses the correct frequency. But the higher developed an individual's consciousness is, the less need is there for any type of device: one can achieve these results by oneself. Science will finally stop laughing at such ideas and will confirm and explain the results. And it doesn't end there.

The Russian scientists also found out that our DNA can cause disturbing patterns in a vacuum, thus producing magnetized wormholes! Wormholes are the microscopic equivalents of the so-called Einstein-Rosen bridges in the vicinity of black holes (left by burned-out stars).

These are tunnel connections between entirely different areas in the universe through which information can be transmitted outside of space and time. The DNA attracts these bits of information and passes them on to our consciousness. This process of hyper-communication (telepathy, channeling) is most effective in a state of relaxation.

Stress, worry or a hyperactive intellect prevent successful hyper-communication or the information will be totally distorted and useless. In nature, hyper-communication has been successfully applied for millions of years. The organized flow of life in insects proves this dramatically. Modern man knows it only on a much more subtle level as "intuition." But we, too, can regain full use of it.

As an example from nature, when a queen ant is separated from her colony, the remaining worker ants will continue building fervently according to plan. However, if the queen is killed, all work in the colony stops. No ant will know what to do. Apparently, the queen transmits the "building plans" even if far away - via the group consciousness with her subjects. She can be as far away as she wants, as long as she is alive.

In humans, hyper-communication is most often encountered when one suddenly gains access to information that is outside one's knowledge base. Such hyper-communication is then experienced as inspiration or intuition (also in trance channeling). The Italian composer Giuseppe Tartini, for instance, dreamt one night that a devil sat at his bedside playing the violin. The next morning Tartini was able to note down the piece exactly from memory. He called it the Devil's Trill Sonata.

For years, a 42-year old male nurse dreamt of a situation in which he was hooked up to a kind of knowledge CD-ROM. Verifiable knowledge from all imaginable fields was then transmitted to him that he was able to recall in the morning. There was such a flood of information that it seemed a whole encyclopedia was transmitted at night. The majorities of facts were outside his personal knowledge base and reached technical details of which he knew absolutely nothing. When hyper-communication occurs, one can observe in the DNA, as well as in the human, supernatural phenomena.

The Russian scientists irradiated DNA samples with laser light. On screen, a typical wave pattern was formed. When they removed the DNA sample, the wave pattern did not disappear, it remained. Many controlled experiments showed that the pattern continued to come from the removed sample, whose energy field apparently remained by itself. This effect is now called phantom DNA effect. *It is surmised that energy from outside of space and time still flows through the activated wormholes after the DNA was removed.* The side effects encountered most often in hyper-communication in humans are inexplicable electromagnetic fields in the vicinity of the persons concerned.

Electronic devices like CD players and the like can be irritated and cease to function for hours. When the electromagnetic field slowly dissipates, the devices function normally again. Many healers and psychics know this effect from their work: the better the atmosphere and energy, the more frustrating it can be for recording devices as they stop functioning at that exact moment. Often by next morning all is back to normal.

Perhaps this is reassuring to read for many, as it has nothing to do with them being technically inept; it means they are good at hyper-communication.

In their book *Vernetzte Intelligenz*, Grazyna Gosar and Franz Bludorf explain these connections precisely and clearly. The authors also quote sources presuming that in earlier times humanity had been just like the animals: very strongly connected to group consciousness and thereby acted as a group. In order to develop and experience individuality, however, we humans had to forget hyper-communication almost completely.

Now that we are fairly stable in our individual consciousness, we can create a new form of group consciousness - namely one in which we attain access to all information via our DNA without being forced or remotely controlled about what to do with that information. We now know that just as we use the internet, our DNA can feed proper data into the network, can retrieve data from the network, and can establish contact with other participants in the network. Remote healing, telepathy or "remote sensing"

about the state of another can thus be explained. Some animals know from afar when their owners plan to return home. This can be freshly interpreted and explained via the concepts of group consciousness and hyper-communication.

Any collective consciousness cannot be sensibly used over any period of time without a distinctive individuality; otherwise we would revert to a primitive herd instinct that is easily manipulated. Hyper-communication in the new millennium means something quite different.

Researchers think that if humans with full individuality would regain group consciousness, they would have a god-like power to create, alter and shape things on Earth! AND humanity is collectively moving toward such a group consciousness of the new kind.

Fifty percent of children will become a problem as soon as they go to school, since the system lumps everyone together and demands adjustment. But the individuality of today's children is so strong that they refuse this adjustment and resist giving up their idiosyncrasies in the most diverse ways.

At the same time more and more clairvoyant children are born. Something in those children is striving more towards the group consciousness of the new kind, and it can no longer be suppressed.

As a rule, weather for example is rather difficult to influence by a single individual. But it may be influenced by group consciousness (nothing new about this to some indigenous tribes). Weather is strongly influenced by Earth resonance frequencies (Schumann frequencies). But *those same frequencies are also produced in our brains, and when many people synchronize their thinking or when individuals (spiritual masters, for instance) focus their thoughts in a laser-like fashion, then it is not at all surprising that they can influence the weather.*

A modern day civilization which develops group consciousness would have neither environmental problems nor scarcity of energy: for if it were to use such mental powers as a unified civilization, it would have control of the energies of its home planet as a natural consequence.

When a great number of people become unified with higher intention as in meditating on peace - potentials of violence also dissolve.

Apparently, DNA is also an organic superconductor that can work at normal body

temperature, as opposed to artificial superconductors which require extremely low temperatures between 200 and 140^Å°C to function. In addition, all superconductors are able to store light and thus information. This further explains how DNA can store information.

There is another phenomenon linked to DNA and wormholes. Normally, these super-small wormholes are highly unstable and are maintained only for the tiniest fractions of a second. Under certain conditions stable wormholes can organize themselves, which then form distinctive vacuum domains in which for example, gravity can transform into electricity. Vacuum domains are self-radiant balls of ionized gas that contain considerable amounts of energy. There are regions in Russia where such radiant balls appear very often.

Following the ensuing confusion the Russians started massive research programs leading finally to some of the discoveries mentioned above. Many people know vacuum domains as shiny balls in the sky. The attentive look at them in wonder and ask themselves, what they could be.

I thought once: "Hello up there. If you happen to be a UFO, fly in a triangle." And suddenly, the light balls moved in a triangle. Or they shot across the sky like ice hockey pucks: they accelerated from zero to crazy speeds while sliding silently across the sky. One is left gawking and I have, as many others, too, thought them to be UFOs. Friendly ones, apparently, as they flew in triangles just to please me.

Now, the Russians found - in the regions where vacuum domains often appear - that sometimes fly as balls of light from the ground upwards into the sky, and that these balls can be guided by thought. Since then it has been found that vacuum domains emit waves of low frequency that are also produced in our brains and because of this similarity of waves they are able to react to our thoughts. To run excitedly into one that is on ground level might not be such a great idea, because those balls of light can contain immense energies and are capable of mutating our genes.

Many spiritual teachers also produce such visible balls or columns of light in deep meditation or during energy work, which trigger decidedly pleasant feelings and do not cause any harm. Apparently this is also dependent on some inner order, quality and origin of the vacuum domain. There are some spiritual teachers, like the young Englishman Ananda, for example, with whom nothing is seen at first, but when one tries to take a photograph while they sit and speak or meditate in hyper-communication, one gets only a picture of a white cloud on a chair.

In certain Earth healing projects, such light effects also appear on photographs. Simply put, this phenomena has to do with gravity and anti-gravity forces that are ever more stable forms of wormholes and displays of hyper-communication with energies from outside our time and space structure. Earlier generations that experienced such hyper-communication and visible vacuum domains were convinced that an angel had appeared before them: and we cannot be too sure to what forms of consciousness we can get access when using hyper-communication.

Not having scientific proof for their actual existence, people having had such experiences do NOT all suffer from hallucinations. We have simply made another giant step towards understanding our reality. Official science also knows of gravity anomalies on Earth that contribute to the formation of vacuum domains. Recently gravity anomalies have been found in Rocca di Papa, south of Rome.

The full article can be viewed - in English - on the Kontext website

http://www.fosar-bludorf.com/index_eng.htm

Genetic Recoding

Reptilians and the Conflict with Humanity

By Azael

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Original in Spanish, translation by Luis Prada.

I am Azael, your brother member of the Brotherhood of the Masters of Light.

I salute you all who started the path to return home. Today I will speak of the origin of all your difficulties.

The old battles between men and the dragon are found in the memories of almost all peoples as myths. This is a conflict between two species, Reptilians and Humans, it is the reason why you are working on your planet and one of the motives of the existence on Earth. This conflict is the base of the Universal game for the soul evolution, known as the "game of the integration of polarities" (Light and Darkness). Some of you have a resistance to the word "Game" because you believe that this is only a joke. Let me reaffirm the concept that you learn better by playing, and "as above, so below."

The present bellicose events are a big blow to all, especially to those who work on the planetary ascension; the pain that is being generated needs a great effort to be healed. You ask yourselves: Perhaps all that pain can be really changed and if that is the case, why what I do seems to influence nothing?

You have elected to not remember your multidimensional past in order to be able to see how hard it is the now in the presence of so many conflicts. Do not forget you are "ALL" and participate in a game as creator gods, for your own evolution, thus nobody should be blamed.

What do the Reptilians have to do with the tragedies and bellicose events of your history? I tell you, this is a progressing conflict between two species, Reptilians/Humans. At a superior level, the events that happened in "the Pentagon and the [Twin Towers](#) are one more episode of the drama I have called the integration of polarities"; the multidimensional game of the "soul-essence".

The difficulties between the Reptilians and Humanity started in the star "Vega" of the constellation "Lyra", in a planet called "Avyon", where the first humans originated. In the beginning of these ones they were allowed to evolve free of influences. For them the myth of creation expressed the option of colonizing other planets in the Universe respecting and harmonizing with any type of life they would find. With the growth of their evolution they were able to move to other planets near home, carrying in their hearts the seed of the sacred commitment with the Main Creator of striving and honoring all type of life. Humans learned and lived the Law of One. The Main Creator was simply a focal point for the consciousness that all were connected with the river of energy that flows in the ALL. They were taught in the way of the Father "The Feline" (among many others a species known in all Universes that evolved eons ago), that all is energy and that there existed many other races in distant places to which some day they will reach and would impart them new knowledge.

Devin, Head of the Nibiruan Council of 9D. Royal House of Avyon.

Draconian Child. House of Aln.

The Reptilian Race Contains the Subraces Dragon, Serpentine and Lizard.

Humans were the greatest genetic achievement since they combined the best traits of all forms of life that the "Father" had found in his many eons of existence. All creation felt pleased with the capacity of this new and marvelous species.

The Reptilians arrive a time after Humans had colonized other planets, a different species of powerful nature, strong and aggressive, with a beauty of their own, who carried in their Heart the certainty to have ownership over the Universe by divine right, as such, when they colonized a new planet at any time they could destroy all form of life they encountered, contrary to the nature of the creation of all galaxies. THIS WAS THE PERFECT ARRAY FOR THE GAME OF THE INTEGRATION OF POLARITIES.

The Reptilians showered from many systems and different groups of the constellation "ORION" with their leaders "Alpha Draco".

Fortunately the first that discovered Humans were more evolved Reptilians than the majority of their species, these invaded their recently colonized planet, as scientific explorers in search of a new home, since they were rebels traveling on the backs of their own leaders. Humans welcomed them as a new form of gods, different from the felines, fulfilling thus the ancient prophecy that stated in their myths of the arrival of instructing beings.

Since the visitors were peaceful they became friends and introduced very advanced technologies to men to perfect their expansion to more distant stellar systems. At the level of soul-essence Humans were ready for a great technological and evolutionary change. Remember that somebody said: "When the student is ready the Master appears."

Both species gave an evolutionary leap, but in Humans this was greater, since they possessed a fully developed sensitive emotional body, with capacity to recuperate the lost pieces of themselves in a short

time, which was not possessed by Reptilians who were totally military and mental, for them evolution was slower, but all benefited for a time.

During a long period a racial interchange was made and many modifications in positions of power. When Humans became sharper and more astute, under the tutelage of the Reptilians also they learned power. Their royal line "The Silvery Ones" (of blue eyes and blond) started to desire autonomy from their masters withdrawing support to them and felt the need to return to their mother planet to make their own government.

While this was happening in the planetary colonies, a series of fights broke out between Reptilians in Avyon; new colonizers turned against the main leaders of their species, since these ones were not destructive to humans and instead helped their evolution contrary to the laws of their race.

The newcomers initiated a war against Humans and their friends the Reptilians. By that time both were well armed, thus the enemy invaders infiltrated in the population and in the government, expanding the virus of racism. The result was that the inhabitants of the planet raised ones against others. Humans started to hate Reptilians. For those of mixed lineage it was a very difficult time. In the royal families the marital alliances between both species were forced to rupture, this brought much pain and destruction. Then war among members of the ruling family broke out.

Humans launched the first attack and the result of this war was the TOTAL DESTRUCTION OF HUMANS, OF THE COLONIES AND THE PLANETARY HOME. The pain of this and the confusion that was created was transmitted in all directions as "THE TRAUMA THAT ORIGINATED THE GAME OF INTEGRATION OF POLARITY."

YOU IN YOUR EARTH CONTINUE THIS DRAMA!

As creator gods, you have originated a planet on which you can represent the harmonic healing on this matter.

The two species have carried the memory of that collective racial destruction in the DNA. With exception of few changes, you have again represented the same drama and you are living it at this time.

The Reptilians/Nephilims who days ago completely destroyed and incarcerated your soul-essence within an electromagnetic field by their great technological development and knowledge of Universal laws are actually infiltrated on earth as rulers of the nations, they hide under haughty faces, they claim to have as objective those who are not in agreement with their plans and with their assumed world peace, but only what they want is to finish what days ago they almost finished. Remember also that you have allies who do not abandon you, because some days ago you lived in peace and harmony and they want to repeat it.

At this moment, dark Reptilians work from other dimension helping those of their lineage in your world who want to destroy you and take possession and/or the complete incarnation. They have created a new electromagnetic field that incarcerates the earth. The majority of you remain ignorant of this. The Reptilian play the role of your oppressor, without being seen, they know humans and their allies help the realignment, recoding and activation of DNA, what would truly make you more powerful than them, because you have something they do not have, a fully developed emotional body.

Why this is so important? Because with your emotional body you will be able to build the most powerful tool of creation in the DNA. These tools are "compassion and love of the vacuum" (unconditional love), the highest possible frequencies and if you obtain them, you will be able to create new realities or change them, not just enlightening your bodies, but also transmuting emotions such as hate, anger, grief, shame, etc., into COMPASSION.

This transmutation process is made above the heart or at the thymus, where low frequencies are changed into high ones, in the same way a flaming stove transforms wood into fire. With compassion you can generate a new magnetic field I have called "planetary compassionate grid", [see the article [planetary grids](#), in particular here he refers to the grid of Christ Consciousness] with which you will be able to modify

any frequency; this means to dissolve the electromagnetic barrier built by the Reptilians and thus recover the freedom of your soul essence and of the planet.

How to finalize the conflict? You have to play a totally opposite game to what you did in the past, integrating light with darkness.

It will be THE THIRD GREAT EXPERIMENT OF THE POLARITY INTEGRATION. Thus you will be able to recuperate your greatness, attract the past collective memories and the total consciousness of your divinity. Know that THE FIGHT WITH DARKNESS AT ITS SAME LEVEL WILL NOT HELP YOU, AS A MATTER OF FACT, IT GUARANTEES FAILURE.

The way to finalize the game will be to use a weapon they do not have: the love from the vacuum and the 4D compassion, because when the race becomes aware that the manifestations of darkness are simply external forms to itself stops all fight and integrates because they become aware that we are ONE with the ALL, thus, Reptilian and Human, man and woman are the same. Open the hearts to embrace your dark side and to arrive to the totality of Being. Then with tears of joy you will dance the dance of the integration as passionate lovers, creating a world of harmony, bringing this game to an end.

With infinite love,

Azael

