



No review (in the author's interpretation)...

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THE COSMIC MECHANISMS OF LIFE (THE GENETIC CODE AS A STRUCTURE OF ELEMENTS CHZHEN-TSZYU)

(INFORMATION 2)

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The article "The genetic code as a structure of the Five elements in Chinese philosophy" hypothesizes about the structure of the formation of the DNA codons as a reflection of the wave processes in nature. The paper shows the relationship of elements of Chinese philosophy (in the interpretation of previous work "Elements of Life") with the structure of the DNA codons. The hypothesis is proposed that formation of the vortex tube of DNA goes under a hydrodynamic effect of stream of ideal liquid (Aether) when liquid flows around the primer of DNA's chain. It is shown the scheme of activation of DNA codons as a result of order of natural oscillations during a day on the base of their correlation with the structure of Elements in Chinese philosophy. A version of the correlation of each nitrogenous base in the codon with a certain meridian of traditional Chinese medicine on the basis of their spectral matching is represented. This assumption establishes the properties of each nitrogenous base, depending on its position in the codon and such correlation solves the problem of redundancy of amino acids encoding options.

Key words: complementary medicine, acupuncture, reflexotherapy.

Стаття «Генетичний код як структура стихій (елементів) китайської філософії» висуває гіпотезу про структуру формування кодонів ДНК як відображенні хвильових процесів в природі. В роботі показано зв'язок елементів китайської філософії (в інтерпретації попередньої роботи «Елементи Життя») зі структурою кодонів ДНК. Висунуто гіпотезу про формування вихрової трубки ДНК як слідства гідродинамічного ефекту від обтікання праймера потоком ідеальної рідини (ефіру). Дана схема добової хвильової активації кодонів на основі їх кореляції зі структурою стихій в китайській філософії. Представлений варіант кореляції кожного азотистого підстави в кодоні з певним меридіаном традиційної китайської медицини на основі їх спектрального відповідності - це припущення встановлює властивості кожного азотистого підстави в залежності від його позиції в кодоні, що дозволяє вирішити питання про надмірності варіантів кодування амінокислот.

Ключові слова: комплементарна медицина, акупунктура, рефлексотерапія.

Статья «Генетический код как структура стихий (элементов) китайской философии» выдвигает гипотезу о структуре формирования кодонов ДНК как отражении волновых процессов в природе. В работе показана связь элементов китайской философии (в интерпретации предыдущей работы «Элементы Жизни») со структурой кодонов ДНК. Выдвинута гипотеза о формировании вихревой трубки ДНК как следствия гидродинамического эффекта от обтекания праймера потоком идеальной жидкости (эфира). Дана схема суточной волновой активации кодонов на основе их корреляции со структурой стихий в китайской философии. Представлен вариант корреляции каждого азотистого основания в кодоне с определенным меридианом традиционной китайской медицины на основе их спектрального соответствия – это предположение устанавливает свойства каждого азотистого основания в зависимости от его позиции в кодоне, что позволяет решить вопрос об избыточности вариантов кодирования аминокислот.

Ключевые слова: комплементарная медицина, акупунктура, рефлексотерапия.

Introduction

In article "The Elements of Life" [1] we have studied 4 macroElements by Dr. Samokhotsky (potassium, calcium, magnesium, sodium) in their relations with Chinese Elements. On the other hand, a branch of science like genetics utilizes also only four components – four types of Nitrogenous bases as follows: Cytosine (C), Adenine (A), Guanine (G), Uracil (U) or Thymine (T). It is surprising how only the four Elemental bricks are capable to form the DNA sequence and organize the "software" of all living organism on the Earth. Let's try to establish the relations between the macro Elements by Dr. Samokhotsky and Nitrogenous bases as well as Chinese Elements.

The starting point

In accordance with common point of view, the genetic code has following peculiarities: - *Triplet code*: the meaningful unit type is a combination of three nucleotides (a triplet, or a codon); - *Continuity*: there are no punctuation marks between triplets, that is, information is read continuously; - *Disjointness*: the same nucleotide cannot simultaneously be present in the two or more triplets (not applicable to some overlapping genes of

viruses, bacteria and mitochondria, which encode several proteins that are read from the shift frame); - *Uniqueness* (specificity): a specific codon corresponds to only one amino acid (however, codon UGA in *Euplotes crassus* encodes two amino acids - cysteine and selenocysteine); - *Degeneracy* (redundancy): the same amino acid can have multiple codons; - *Versatility*: the genetic code works in the same manner in organisms of different levels of complexity - from viruses to humans (that is the basis for genetic engineering techniques); - *Immunity*: mutation nucleotide substitutions that do not result in a change of the class encoded amino acids are referred to as conservative; mutation nucleotide substitutions resulting in a change of amino acid encoded by class are spoken of as radical; - *Punctuation*: triplets undertake function of punctuation.

Also known is a circle picture of codons (Fig. 1):

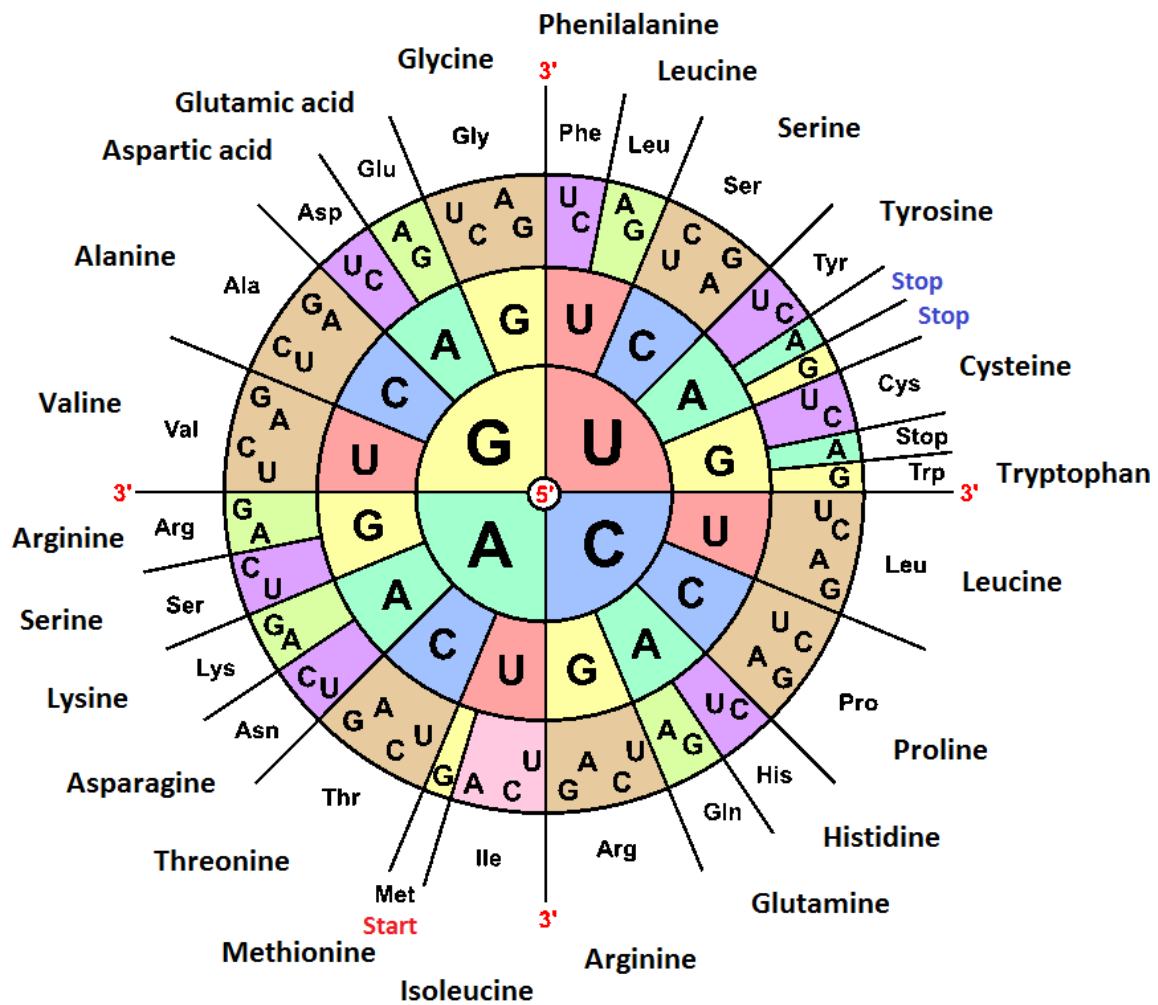


Fig.1. The wheel of amino-acads
 Codons in Figure 1 should be read from the center to the periphery of the circle (from the 5' end to the 3' end).
 Marking **Start** and **Stop** indicate codons of the beginning and the end of DNA replication (Start - Methionine – AUG and Stop is associated with UAA, UAG, UGA).

The coincidence or not?

The positions of Start and Stop codons in the circular presentation diagram of codons (Fig. 1) coincide with the respective positions of the Chinese meridians in the daily circulation, which are associated with the Liver (LR) meridian (Chinese Wood Element) and the meridians of Urinary Bladder (BL) and Kidneys (KI) (Chinese Element of Water):

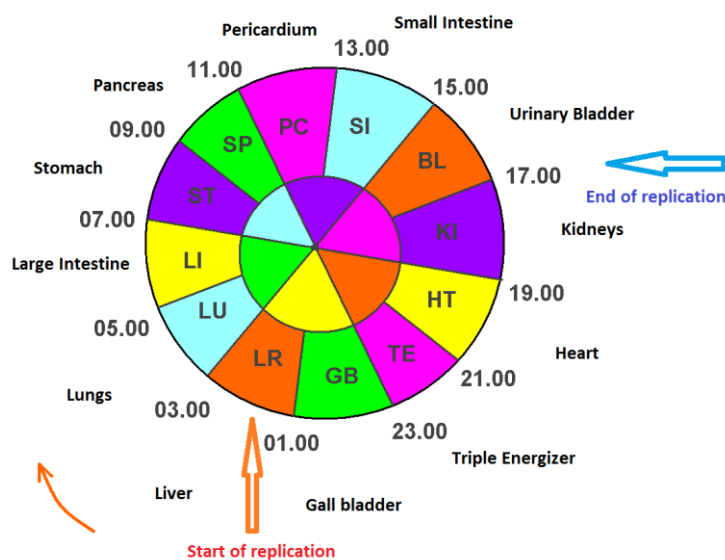
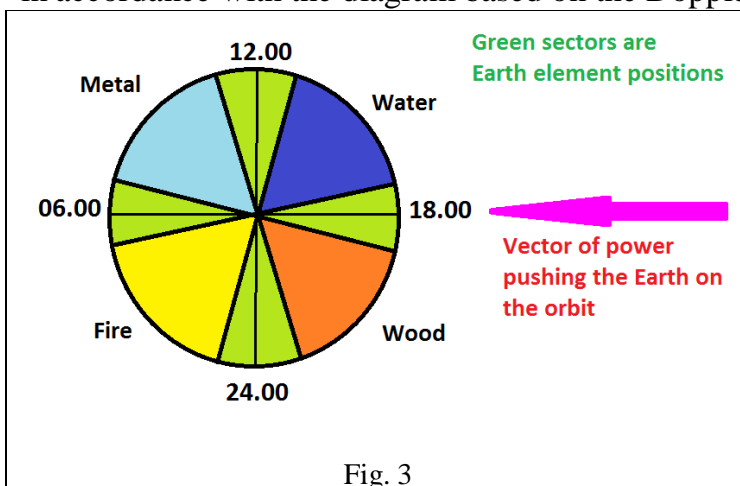


Fig. 2 The Doppler's colour and meridians association: **Wood Element (red)** = Yin Fire (Heart - HT- yellow) + Yang Fire-Minister (Triple Energizer, Blood - TE - purple); **Fire Element (yellow)** = Yang Wood (Gall Bladder - GB - green) + Yin Wood (Liver - LR - red); **Earth Element (green)** = Yin Metal (Lungs - LU - turquoise) + Yang Metal (Large intestine - LI - yellow); **Metal Element (turquoise)** = Yang Earth (Stomach - ST - blue) + Yin Earth (Pancreas - SP - green); **Water Element (blue)** = Yin Fire Minister (Pericardium - PC - purple) + Yang Fire (Small intestine - SI - turquoise); **Fire-Minister Element (purple)** = Yang Water (Urinary Bladder - BL - red) + Yin Water (Kidneys - KI - blue);

In Fig.2 colors indicate the respective sectors of the natural frequencies of the Chinese meridi-

ans in the visible light spectrum range. Each pair of meridians generates its own frequency of Chinese Elements (the color of the Elements is specified in the six sectors of the inner circle). Colors (vibrations) of the meridians appeared due to Doppler effect are described in our previous article "The elements of life" [1].

According to the theory of Traditional Chinese Medicine (TCM), any process begins with the Element of Wood: it is a manifestation of the initial phase of any developing process. At the same time, any process in conformity with Chinese philosophy ends with the Water Element: it is the phase of demolition and destruction [2]. Thus, we may suggest that there are some associations of the initial and the terminal triplets with the proper Elements on the basis of similarity of the Five Elements diagram (Fig.2) and the sector-related scheme of codons (Fig.1). Moreover, we can identify the frequencies which are triggering the start and end process of the DNA replication (bands of red and blue frequencies in the visible light spectrum, accordingly). Nevertheless, we need to obtain an additional evidence for the relationship between the Nitrogenous bases and the Chinese Elements. Let us address another interpretation of the daily circulation of the Elements, which is known in Tibetan and Chinese medicines (the colors of the Elements are given in accordance with the diagram based on the Doppler's effect model in Fig.2 herein).



Considering Fig.3, the sectors of the Earth Element can be removed at all (they stipulate only a border between the other four Elements). In doing so, the remaining four Elements will take one of four quadrants of the circle. Due to the Doppler's effect, each quadrant has certain frequency properties under the action of the force vector (the purple arrow on the right in Fig.3).

Taking into account the disposi-

tion of Elements in Figure 3 and comparing the position of Start and Stop codons in Figure 1, we can establish the correlation between the Nitrogenous bases and the Chinese Elements in the following order: - Uracil (Thymine) (U) – Water Element, - Cytosine (C) – possibly Liver (Wood Element) inside Fire Element. Because the pairing requirements imposed by the DNA double-chain structure are strict, each Nitrogenous base will pair only with its complementary base so that we obtain the following: - Uracil (U) is bonded with Adenine (A), and - Cytosine (C) is bonded with Guanine (G).

The same pairing interrelation exists in the theories of Traditional Chinese Medicine and Indian Ayurveda where Elements produce the following pairs: *Wood – Metal* (Kapha dosha; in our research it is a balance between the Mg⁺⁺ and Ca⁺⁺ ions), *Fire – Water* (Pitta dosha; in our case it is a balance between the K⁺ and Na⁺ ions), *Earth – Fire-Minister* (Vata dosha; according to our interpretation herein it is a balance between H⁺ and OH⁻). This relation also can be detected between the opposite meridians in the daily circulation shown in Fig.2 above.

This association is described by the known acupuncture rule “Noon – Midnight”, and it establishes the Yin-Yang balance at each moment. From the above mentioned, we may determine some relations between two other Nitrogenous bases and Chinese Elements: Adenine (A) is associated with the Fire Element; Guanine (G) is referred to the Metal Element.

Or the correlation can be represented in the graphical form as illustrated at Fig. 4.

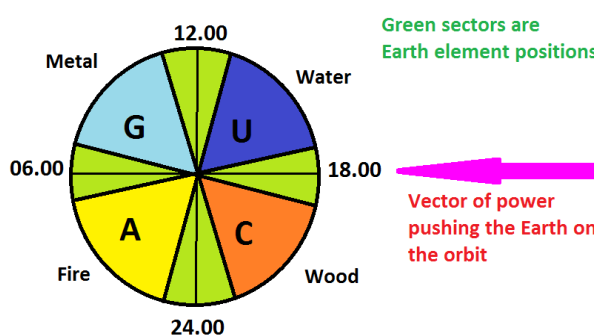


Fig.4

Correlation between the natural frequencies of the Nitrogenous bases and the phases of the Doppler's effect cycle

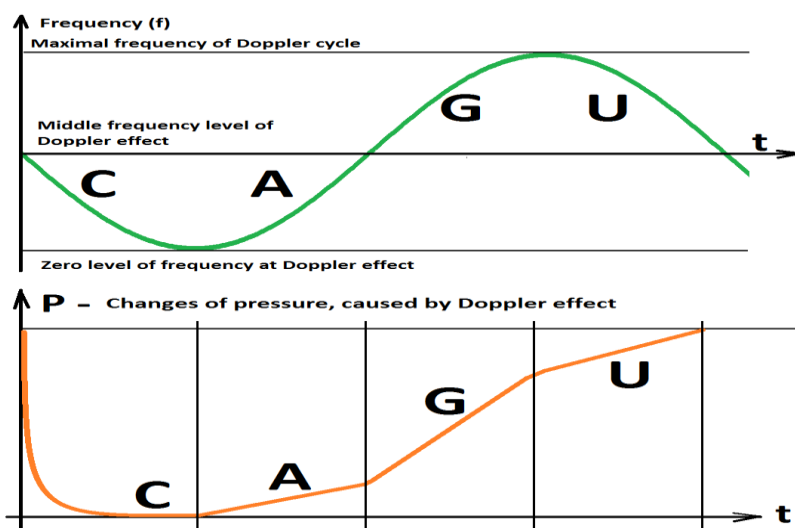


Fig. 5

phase of the Doppler cycle as shown in Fig. 5 below herein.

Explanation notes to Fig.5: Depending on the diameter of a circle and its circumferential velocity in the oncoming flow of cosmic Aether (vector of force that moves the Earth on the orbit as illustrated in Fig.4 herein), on the surface of the Earth there will appear some

The correlation between the Nitrogenous bases and the definite Chinese Elements is stipulated by similar natural frequencies, where each frequency is belonging to the definite phase of the physical process arising due to Doppler's effect, when the stream of Aether flows around the rotating Earth. Let's study the band of frequencies changes in each

regions of Doppler Aether pressure distribution showing different power of compression. The sectors of the Earth, moving in the direction of the Aether's wind vector will experience less pressure than those moving against the flow. The higher the pressure of the medium, the greater the value of natural oscillations of the medium (the particles within the space collide more frequently). The relationship between the frequency and the pressure of the Aether can be described by the same formula as the sound pressure: $P=2*\pi*f*\rho*c*A$ where: P – maximum acoustic pressure; f – frequency; c – velocity of the sound; ρ – density of the medium; A – amplitude of the medium oscillation.

The fact that the Aethereal medium carries vibrations in accordance with the acoustic laws was reported by Nikola Tesla: “The so-called Hertz waves are still considered a reality proving that light is electrical in its nature, and also that the Aether is capable of transmitting transverse vibrations of frequencies however low. This view has become untenable since I showed that the universal medium is a gaseous body in which only longitudinal pulses can be propagated, involving alternating compressions and expansions similar to those produced by sound waves in the air. Thus, a wireless transmitter does not emit Hertz waves which are a myth, but sound waves in the Aether, behaving in every respect like those in the air, except that, owing to the great elastic force and extremely small density of the medium, their speed is that of light...” [3]

That is the reason why the lower pressure curve in Figure 6, depending on the phase of the Doppler cycle, takes the form similar to that of the graph of air pressure change in a cylinder of an air compressor, constructed on the basis of the crank kinematics (Fig. 6).

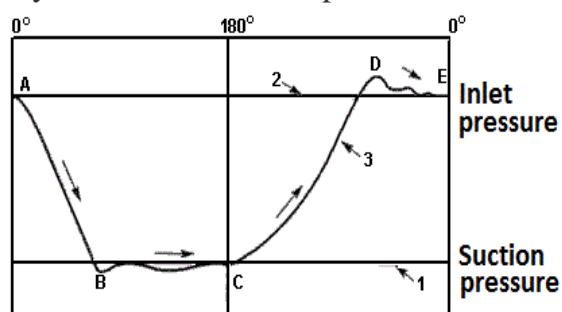


Fig. 6

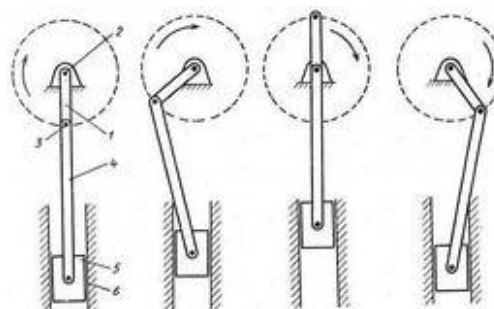


Fig. 7

This is because the compressor crank mechanism causes changes in the dynamic pressure in the cylinder by the Doppler's effect law as a result of converting the rotational motion to the linear one as illustrated at Fig. 7. Thus, the nature of the Aether pressure changes as a result of the Doppler effect will cause a series of resonance activation of Nitrogenous bases in DNA during the regular rotation cycles (circulation). This will be followed by a hierarchical sequence of natural frequencies of the bases in ascending order as follows: $f_C < f_A < f(G) < f(U)$. Proportions and nominal values thereof will be discussed further therein.

A hypothesis on the origin of the natural frequencies of Nitrogenous bases

It is known from biochemistry that purine and pyrimidine bases (uracil, thymine, cytosine, adenine and guanine) are aromatic heterocycles.

The aromatic heterocycles are planar ring systems which contain atoms of oxygen, sulfur and nitrogen instead of one or more carbon atoms. The heterocycles are called aromatic due to the fact that they meet all the criteria inherent in any aromatic system, namely: • The system is cyclic. • The cycle is planar. • There is a conjugation of electron conductivity over the cycle. It is possible to smooth any delocalization of p-electrons in the entire system, thanks to the non-hybridized p orbitals. • the p-number of delocalized electrons participating in the conjugation, in agreement with *Hückel's rule*, is $4n + 2$, where n is an arbitrary natural number including 0, that is responsible for aromaticity of compounds of this sort.

The foregoing suggests that the Nitrogenous bases in question represent a molecular oscillation circuit, wherein a heterocycle is a flat inductor, and the place of its connection to the ribose or deoxyribose molecule creates a capacitance (it works like a capacitor):

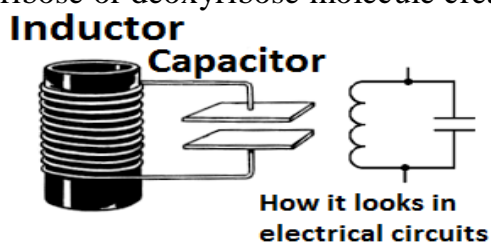


Fig. 8

Depending on parameters of heterocyclic inductance (L) of a Nitrogenous base and capacitive coupling (C) with ribose, the entire system will possess some resonance (natural frequency) due to some free electrons (formal electric circuit is represented at Fig.8), which are

available in the system [4]. The resonant frequency of the heterocycle (nitrogen base) is calculated by the formula:

$$\omega_h = \frac{1}{\sqrt{LC}}$$

In Fig.9 the locations of forming a capacitor in a hypothetical molecule oscillator circuit (resonator) of Nitrogenous bases are shown with red arrows.

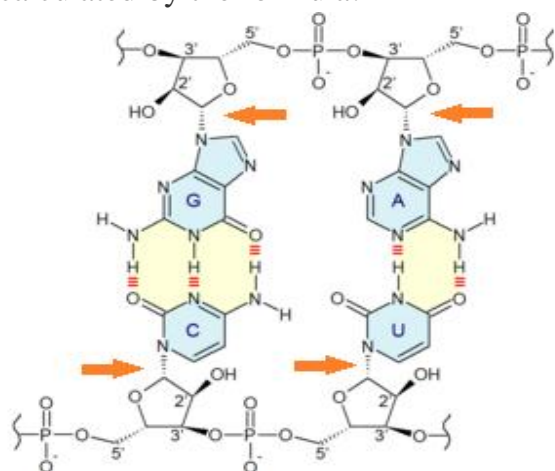


Fig. 9

Where does the spiral come from?

Which structure in physics has the same structure as the DNA? On the basis of what is possible to study the formation of spiral?

This stationary vortex trail that is formed in the turbulent region. It has been discovered during the experimental observation, and there are some attempts to describe it [5].

One of the known natural phenomena of the spiral formation (Karman path) is a giant vortex street in the clouds, formed when the wind flows around the island Robinson Crusoe (satellite view – Fig.10).

The reason for the appearance of a vortex street is sparse density caused due to the flow around an object. Depending on the viscosity of the medium and the flow

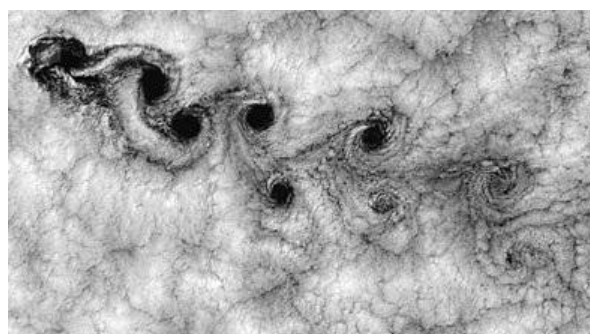


Fig. 10

velocity, a group of vortices comes into being, which combines into a vortex spiral. A spiral vortex tube is automatically organized a channel, which pumps the medium from the outer radius to the sparseness zone directly behind the streamlined object (Fig. 11).

In Fig.11 red color marks the top (closest to the viewer) parts of the spiral, and blue color is used to mark the lower parts, respectively. Three blue arrows behind the streamlined object show the dissipation (spraying) process of the substance coming from the vortex tube into the sparse area.

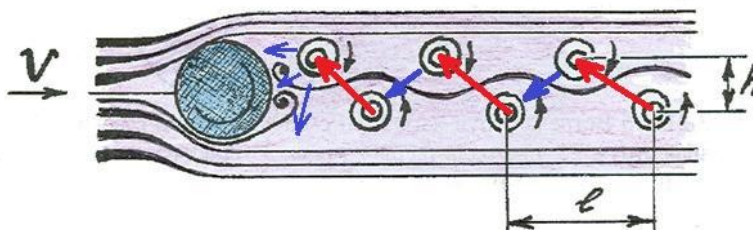
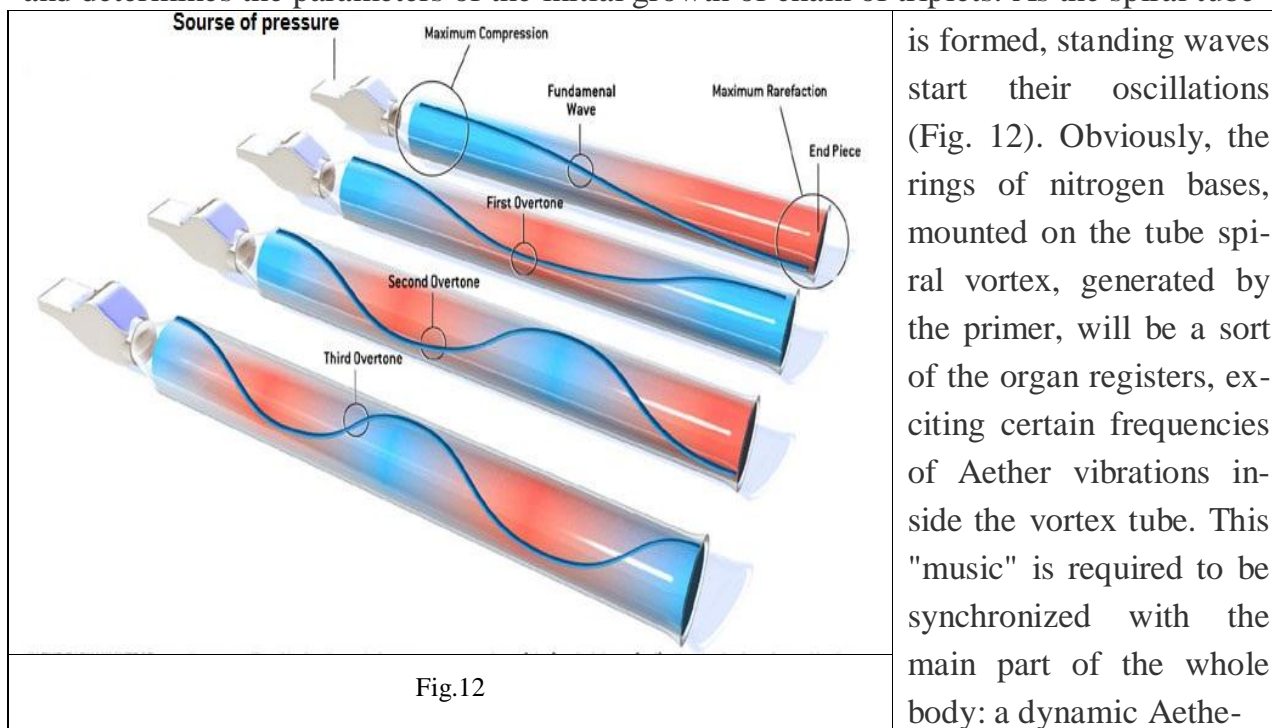


Fig. 11

Thus, the appearance of a spiral is the nature's way to compensate for the difference between the Aetheric pressure behind the object and that of external medium. The phenomenon of life uses the spiral just to produce its own structures. The flat conductive rings of Nitrogen bases are "mounted" on the spiral in the manner as it is dictated by the local distribution heterogeneity in the space on the basis of resonance relations. That is why the appearance of the DNA helix is impossible without a "primer": it's a short nucleic acid fragment, which in the intercellular laminar flow of liquids forms a spiral vortex and determines the parameters of the initial growth of chain of triplets. As the spiral tube



real structure of waves in the organism at each moment of existence. In the truest sense, the DNA spiral is a special cavity for Aetheral sound waves in the body.

External environment change signals of Aether pressure at a certain time and at pre-determined intervals of time activate natural vibrations of the vortex tube, trigger a self-oscillating process in the circuits of Nitrogenous bases, and make all the DNA helix to

emit the desired "melody". The music is designed to create a field of standing waves in the body as the basis for activating of normal vibrations of acid-base balance for the purposes to provide the normal course of metabolic processes. The wave nature of the DNA was found and is studying for a long time by Peter Garyaev in his theory of linguistic-wave genome theory (<http://www.wavegenetic.ru>) [6].

Correlation of DNA triplets with the daily activity of Chinese meridians

In our article "The Elements of life" [1] we have represented the rationale for the activity of so-called meridians in Chinese medicine as a result of existence of medium frequency patterns on the Earth's surface that have arisen due to the Doppler effect in the incoming flow of Aether. Here is a daily chart of a frequency distribution associated with the activity of the meridians (Fig. 13).

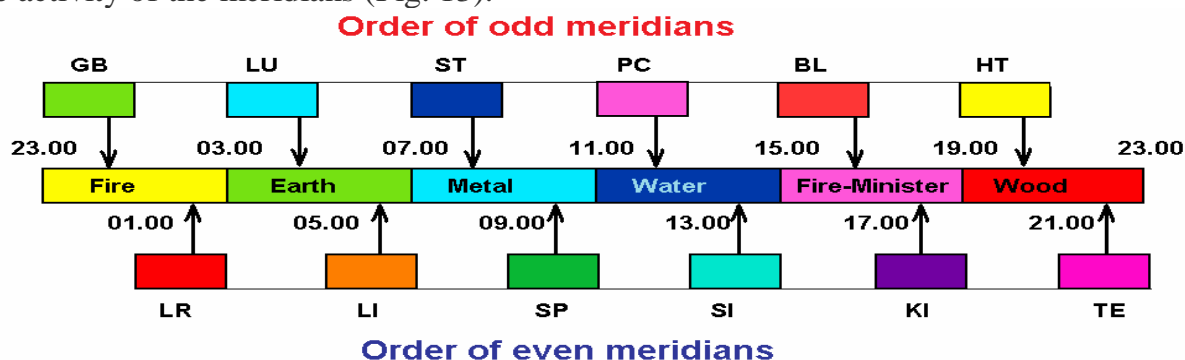


Fig.13 - Wood Element (red) = Yin Fire (Heart – HT- yellow) + Yang Fire-Minister (Triple Energizer, Blood – TE - purple); - Fire Element (yellow) = Yang Wood (Gall Bladder – GB - green) + Yin Wood (Liver – LR – red); - Earth Element (green) = Yin Metal (Lungs – LU – turquoise) + Yang Metal (Large intestine – LI – yellow); - Metal Element (turquoise) = Yang Earth (Stomach – ST – blue) + Yin Earth (Pancreas – SP – green); Water Element (blue) = Yin Fire Minister (Pericardium – PC – purple) + Yang Fire (Small intestine – SI – turquoise); Fire-Minister Element (purple) = Yang Water (Urinary Bladder – BL – red) + Yin Water (Kidneys – KI – blue);

Colors in Fig. 13 should be regarded as a specific frequency range. In accordance with Figure 4, where we have assigned definite colors (natural frequencies ranges) to Nitrogenous bases, a scheme of the daily activity of Chinese meridians in association with the above mentioned bases is represented in Fig.14 below.

Conditionally Night time											
17-18	18-19	19-20	20-21	21-22	22-23	23-24	00-01	01-02	02-03	03-04	04-05
KI		HT		TE		GB		LR		LU	
U	C	A	G	U	C	A	G	U	C	A	G
Mi-ter		Wood Element (C - base activity)				Fire Element (A base -activity)				Earth	
Conditionally Day time											
05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17
LI		ST		SP		PC		SI		BL	
A	G	U	C	A	G	U	C	A	G	U	C
Earth		Metal Element (G base - activity)				Water elements (U base - activity)				Min-ter	

Fig.14 * Min-ter = Fire-Minister Element

In Fig.14, each of the two-hour periods of the meridians (Shi periods in Chinese Medicine) is divided into one hour time slots, the colors (vibrations) of which are compared with the respective colors (vibrations) of Nitrogenous bases following the principle to form the meridian frequency (in the range of colors). Thus, the frequencies of Uracil (U) and Cytosine (C) can synthesize the frequency of the Kidney (KI) meridian; Adenine (A)

and Guanine (G) can produce the frequency of the Heart (HT) meridian and so on. Distribution of Nitrogenous bases between the meridians shows that there are two equal periods, which provide the compliance with the normal sequence -C-A-G-U-C-A- ... (this is the order of the Elements by the rule of mutual generation in Chinese philosophy, and, from the point of view of physics, it is a sequence of changes in frequency patterns as a result of the continuous repetition of frequency patterns due to Doppler effect in the on-flowing Aether). Conventionally, the night period begins at 17.00 and it lasts until 05.00 am. The period starts with Uracil (U) and ends with Guanine (the G): totally, there are three full groups of normal sequences of bases (Fig. 14) which fit in this period of time. At the same time, we should understand that a combination of Uracil vibrations (U) with those of Cytosine (C) gives a violet vibration of Fire Minister (a combination of blue and red bands), and the combination of Adenine (A) and Guanine (G) produces Green vibration of the Earth (a combination of the yellow and blue frequencies). So, we can see a cyclical process of changing in the acid-alkaline balance of the medium properly activated by the meridians. In Figure 14, in the conditionally accepted Night period, the liquids of the system are shifted towards the alkaline side (this group is represented by the Heart (HT), Gall bladder (GB), Lung (LU). The shift towards the acid direction is produced by the Kidney (KI), Triple Energizer (blood - TE), Liver (LR) meridians.

From the viewpoint of cell metabolism, it has the meaning on which side of the cell membrane the acidic or alkaline pattern is formed. Anabolic state is accompanied by the alkaline extra cellular medium at acidic contents of the cell (the cell in this case draws electrons inside for production of reduction reactions). Catabolic phase of the cell is inverted to anabolic state in terms of polarity of acidic and alkaline media with respect to the cell membrane and the predominance of negatively charged radicals within the cells increase intracellular oxidative activity of the cells through activation of reactive oxygen species.

In accordance with postulates of Traditional Chinese Medicine, Yang is an external, but Yin is an internal form of any event. Therefore, the above described acid-base patterns should be considered in terms of their location in relation with the cells membranes. In this case, the acid state of the Kidneys (KI) means anabolism; alkaline condition of the Heart (HT) should be treated as catabolism; acid state of the Triple Energizer (Blood - TE) should be classified as catabolism; alkaline condition of Gall bladder (GB) should be considered as anabolism; acid state of the Liver (LR) should be regarded as anabolism, and alkaline state of Lungs (LU) should be viewed as catabolism.

As can be seen, each pair of the meridians, organizing an individual specific Element in a series of daily circulation in Chinese philosophy, is in the similar metabolic phase. At the same time, there is a change of metabolic phases in a successive transition from one Element to another: the metabolic activity of the pair Heart (HT) - Triple Energizer (TE) is replaced by anabolic activity of the pair of Gall bladder (GB) - Liver (LR) and so on, except for the pair of systems Large Intestine (LI) - Lungs (LU) and Urinary bladder (BL) - Kidney (KI), which will be discussed below. Let's continue consideration of Figure 14 given herein below.

At the moments 05⁰⁰ and 17⁰⁰ there is a rupture of the normal order of the activity of Nitrogenous bases: the system of Large Intestine (LI) has the same pair of Nitrogenous bases: A (Adenine) - G (guanine) as it is the case in the conjugated system - Lung (LU). It means that there is a complete resonance of alkaline medium patterns between the Large Intestine systems (LI phase of anabolism) and Lungs (LU- phase of catabolism). It maximizes the mutual compensation of metabolic phases within the overall alkalinity.

Similar metabolic compensation takes place at the evening starting at 17:00 between systems Urinary Bladder (BL- catabolic phase) and Kidney (KI - phase of anabolism), but within the overall acidification (the metabolic activity of the Uracil (U) and Cytosine (C)).

Thus, if we impose the locations of the Elements from Fig.4 on the structure shown in Fig.14, we obtain the inner meaning of each Element in terms of the sequence of Nitrogenous bases. In addition to the schemes indicated in Figure 4 and Figure 14, we can apply another rule, which determines the internal content of the Elements. This rule is observed in the structure of the meridians of Zi-Wu-Liu-Zhu cycle - method of Chinese chrono puncture (6), When the activity of any meridian begins with its root Qi (Qi in this case is considered as the Element of the lower level in the hierarchy), it also ends up in "the point of reunification" ("meeting trunks"). Accordingly, therefore, the Elements in Figure 14 begin and end with related Nitrogenous bases: - Wood on the Cytosine (C); - Fire on the Adenine (A); - Metal on the Guanine (G); - Water on the Uracil (U).

It follows that the Elements have the definite content in terms of activity of Nitrogenous bases as given below: - *Wood*: C-A-G-U-C; - *Fire*: A-G-U-C-A; - *Metal*: G-U-C-A-G; - *Water*: U-C-A-G-U. And such a sequence will have the same profile of activity of Elements at each level of hierarchy. Here is a detailed schedule of daily circulation of the meridians, where triplets are embedded in accordance with mentioned terms and rules (Fig. 15).

F I R E E L E M E N T	G B A L L A D D E R	23-00	A A A	Lysine (Lys)	W A T E R	P E R I C A R E D	11-12	U U U	Phenilalanine (Phe)	
			A A G	Lysine (Lys)				U U C	Phenilalanine (Phe)	
			A A U	Asparagine (Asn)				U U A	Leucine (Leu)	
			A A C	Asparagine (Asn)				U U U	Leucine (Leu)	
			A A A	Lysine (Lys)				U U U	Phenilalanine (Phe)	
			A G G	Arginine (Arg)				U C C	Serine (Ser)	
	L I V E R	00-01	A A A	Lysine (Lys)		S I M P L E M E N T	M E M B R A N E	12-13	U U U	Phenilalanine (Phe)
			A G G	Arginine (Arg)					U C C	Serine (Ser)
			A G U	Serine (Ser)					U C A	Serine (Ser)
			A G C	Serine (Ser)					U C G	Serine (Ser)
			A G A	Arginine (Arg)					U C U	Serine (Ser)
			A G G	Arginine (Arg)					U C C	Serine (Ser)
	L I V E R	01-02	A U U	Isoleucine (Ile)		U B R I L I A N D	13-14	U A A	(Stop)	
			A U C	Isoleucine (Ile)				U A G	(Stop)	
			A U A	Isoleucine (Ile)				U A U	Tyrosine (Uyr)	
			A U G	Methionine (Met) Start				U A C	Tyrosine (Uyr)	
			A U U	Isoleucine (Ile)				U A A	(Stop)	
			A C C	Proline (Pro)				U G G	Glycine (Gly)	
	L U N G S	02-03	A U U	Isoleucine (Ile)		F E L I C I T Y E M E N T	R E Y E	14-15	U A A	(Stop)
			A C C	Threonine (Uhr)					U G G	Tryptophan (Trp)
			A C A	Threonine (Uhr)					U G U	Cysteine (Cys)
			A C G	Threonine (Uhr)					U G C	Cysteine (Cys)
			A C U	Threonine (Uhr)					U G A	(Stop)
			A C C	Threonine (Uhr)					U G G	Tryptophan (Trp)
L U N G S	03-04	A A A	Lysine (Lys)	F E L I C I T Y E M E N T	R E Y E	15-16	U U U	Phenilalanine (Phe)		
		G G G	Glicine (Gly)				C C C	Proline (Pro)		
		G G U	Glicine (Gly)				C C A	Proline (Pro)		
		G G C	Glicine (Gly)				C C G	Proline (Pro)		
		G G A	Glicine (Gly)				C C U	Proline (Pro)		
		G G G	Glicine (Gly)				C C C	Proline (Pro)		
L I V E R	04-05	A A A	Lysine (Lys)	M E M B R A N E	I N T E R S T I T U T I O N	16-17	U U U	Phenilalanine (Phe)		
		A A G	Lysine (Lys)				U U C	Phenilalanine (Phe)		
		A A U	Asparagine (Asn)				U U A	Phenilalanine (Phe)		
		A A C	Asparagine (Asn)				U U C	Phenilalanine (Phe)		
		A A A	Lysine (Lys)				U U U	Phenilalanine (Phe)		
		A A A	Lysine (Lys)				U U U	Phenilalanine (Phe)		
L I V E R	05-06	A A A	Lysine (Lys)	S E X U A L E L E M E N T	S E X U A L E L E M E N T	17-18	U U U	Phenilalanine (Phe)		
		A A G	Lysine (Lys)				U U C	Phenilalanine (Phe)		
		A A U	Asparagine (Asn)				U U A	Phenilalanine (Phe)		
		A A C	Asparagine (Asn)				U U C	Phenilalanine (Phe)		
		A A A	Lysine (Lys)				U U U	Phenilalanine (Phe)		
		A A A	Lysine (Lys)				U U U	Phenilalanine (Phe)		

W O O D	K I N E	18-19	C C C	Proline (Pro)	M A N E R T G E A E S.	06-07	G G G	Glicine (Gly)		
			C C A	Proline (Pro)			G G U	Glicine (Gly)		
			C C G	Proline (Pro)			G G C	Glicine (Gly)		
			C C U	Proline (Pro)			G G A	Glicine (Gly)		
			C C C	Proline (Pro)			G G G	Glicine (Gly)		
	E L E M E N T	H E A R T	19-20	C A A		Glutamine (Gln)	L S E T O L O E M A E C N H	07-08	G U U	Valine (Val)
				C A G		Glutamine (Gln)			G U C	Valine (Val)
				C A U		Histidine (His)			G U A	Valine (Val)
				C A C		Histidine (His)			G U G	Valine (Val)
				C A A		Glutamine (Gln)			G U U	Valine (Val)
T E R R I E P R L G E I Z E R		20-21	C G G	Arginine (Arg)	P A N C R E A S	08-09		G C C	Alanine (Ala)	
			C A A	Glutamine (Gln)				G U U	Valine (Val)	
			C G G	Arginine (Arg)				G C C	Alanine (Ala)	
			C G U	Arginine (Arg)				G C A	Alanine (Ala)	
			C G C	Arginine (Arg)				G C G	Alanine (Ala)	
21-22	C G A	Arginine (Arg)	09-10	G C U		Alanine (Ala)				
	C G G	Arginine (Arg)		G C C		Alanine (Ala)				
	C U U	Leucine (Le)		G A A		Glutamic acid (Glu)				
	C U C	Leucine (Le)		G A G		Glutamic acid (Glu)				
	C U A	Leucine (Le)		G A U		Aspartic acid (Asp)				
22-23	C U G	Leucine (Le)	10-11	G A C	Aspartic acid (Asp)					
	C U U	Leucine (Le)		G A A	Glutamic acid (Glu)					
	C C C	Proline (Pro)		G G G	Glicine (Gly)					
	C C A	Proline (Pro)		G G U	Glicine (Gly)					
	C C G	Proline (Pro)		G G C	Glicine (Gly)					

Fig. 15

As the above table shows, in 24 hours we have 120 segments of 12 minutes duration each. The Zi Wu Liu Zhu methodology of chrono puncture has also suggested division of each cycle exactly into 120 segments, 5 segments inside each hour of the daily circulation. The sequence of 120 segments consists of periods of the Elements Wood, Fire, Metal and Water, and they take 25 12-minute segments each. But each the Earth and Fire-Minister Elements have periods of only 10 segments. Each Element is divided into 5 or 2 groups (a group consists of 5 segments) - they are represent Elements of middle level of hierarchy. And in its turn each of the 120 segments is an Element of the lowest level of the hierarchy.

The starting AUG triplet is located almost in the middle of the period of activity of the Yin Wood meridian of the Fire Element (LR-Liver is a representative of Wood Element - the Element of the beginning of all processes). At the same time, the end triplets of replication (UAA, UAG) are in the second part of the Water Element, and the last triplet (the UGA) has a position in the Element of Water, the Yang Water meridian (Urinary bladder - BL) is a manifestation of the end and the destruction of any process in Chinese philosophy .

Direct association of four Nitrogenous bases with the twelve meridians of Chinese medicine

At present time, genetics do not see any difference between the qualities of Nitrogenous bases, depending on their position in the triplet. However, such a connection is obvious: the first bases in the triplets have a lower natural frequency, and therefore the phase of their activity shown in the diagram in Fig.15 has a longer period in order to ensure the continuity of the process corresponding to the vibrations of the relevant Element.

Apparently, during the process of "mounting" of Nitrogenous bases on the vortex spiral, the molecular resonant capacitor circuit between Nitrogen base and carbohydrate-phosphate skeleton, takes a certain value that is dictated by Aether pressure of the external medium. Therefore, each Nitrogen base in the chain of DNA structure can participate in three different types of vibrations linked each with another by resonance relations.

Let's try to establish the position of each system (meridian) in a full set of Nitrogenous bases, created by the principle of positioning in the triplet. We will use the rule of Yin and Yang, which says that Yin has lower (slower) frequency characteristics in comparing with Yang, with taking into account the color (frequency) characteristics of each meridian. Some other specific details in table may be identified additionally (Fig.16).

Senior base	C Pericardium	A Large Intestine	G Gall Bladder	U Kidneys
Middle base	C Liver	A Heart	G Small Intestine	U Stomach
Junior base	C Urinary Bladder	A Pancreas	G Lungs	U Triple Energizer

Fig.16

To be verified that the table in **Fig. 16** is not occasional, please see at the following specific detail:

a. Figure 16 by columns:

Cytosine (C) column:

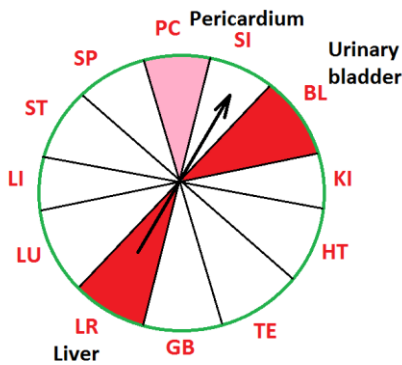


Fig.17

Adenine (A) column:

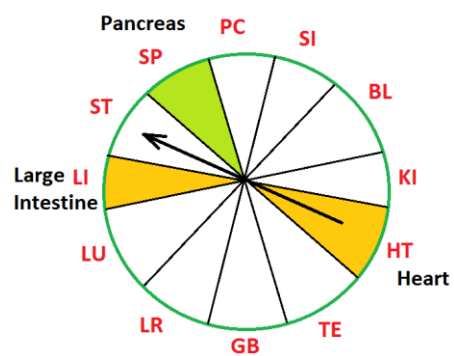


Fig.18

Guanine (G) column:

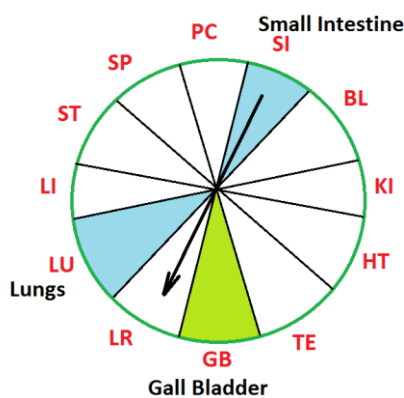


Fig.19

Uracil (U) column:

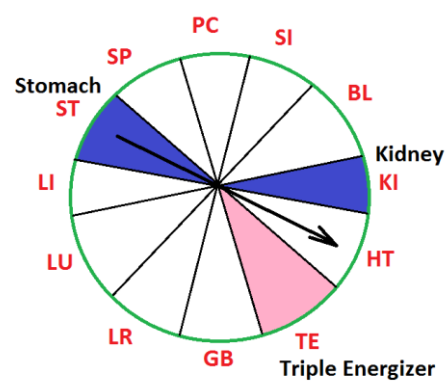


Fig.20

It is obviously seen that Fig. 17- 20 have the same sign. It is a reflection of the resonant relations between meridians in daily circulation.

b. Figure 16 by lines:

The first line:

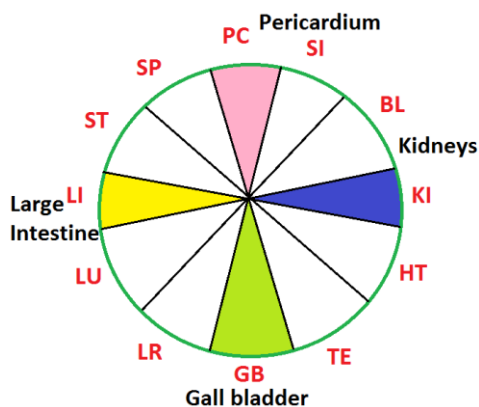


Fig. 21

The second line:

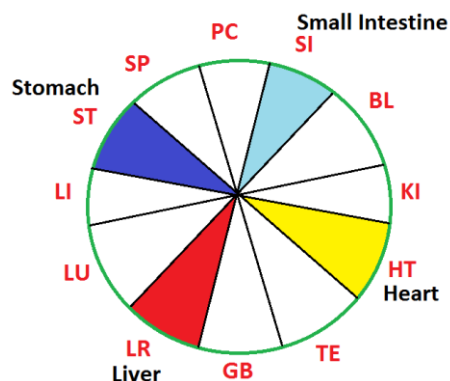


Fig. 22

The third line:

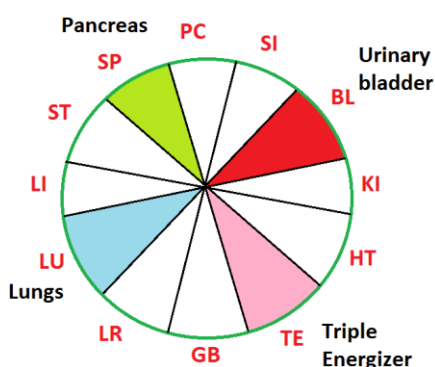


Fig. 23

It is obviously that **Fig. 20 – 23** have the same sign. It is a reflection of mutual direct suppression between the meridians in daily circulation.

c. Figure 16 by diagonal (from up to down):

At the Fig.24 we see relations between meridians as it was discovered at our previous work, where the four types of pulses have been detected.

These four pulses are associated with the

simultaneous activity of epy following meridians: – Liver, Pancreas, Kidneys; – Pericardium, Heart, Lungs; – Large Intestine, Small Intestine, Triple Energizer; - Gall bladder, Stomach, Urinary bladder.

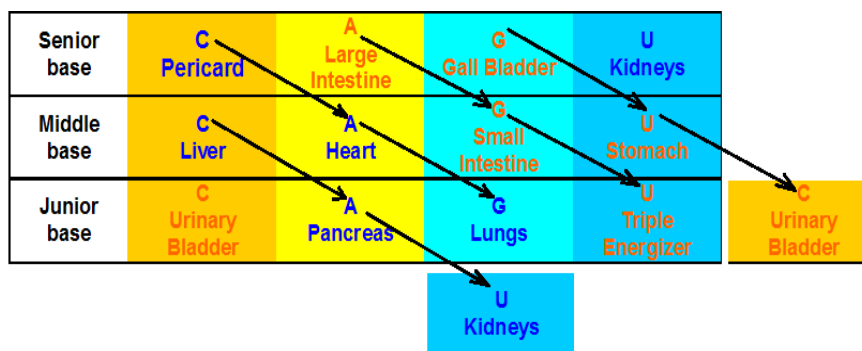


Fig. 24

d. Fig. 16 by diagonal (from down to up):

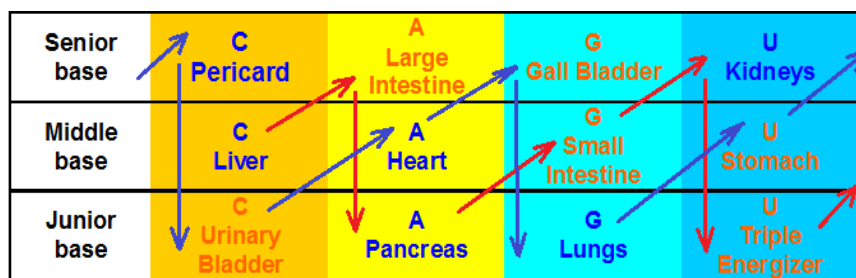


Fig. 25

It is evident that in Fig. 25 the disposition of the meridians by the diagonal is in the order of the mutual birth of Elements for even (red arrows) and odd (blue

arrows) systems of the meridians (please refer to Fig.13 above) in daily circulation.

Thus, the scheme of the meridians disposition in Fig.16 confirms that there is some regularity shown in clauses **a,b,c** and **d**. It may entitle us to make a conclusion that the table of the correlation between Nitrogenous bases and vibrations of the meridians from Chinese philosophy has been established correctly.

Conclusion

1.The represented model of the Nitrogenous bases activity during the daily circulation of the Doppler patterns can be used for the following applications:

- Managing of daily biorhythms with help of acid-base peculiarities of Nitrogenous bases;
- Diet managing of metabolic balance by correct prescription of 20 essential amino-acids;
- Purposeful use of 60 Wushu points to correct the energy balance of the body with the help of acupuncture at any time without the risk of side effects;
- In perspective development of technologies will be targeted at correction of genetic defects.

2.Naturally, the effective result can not be reached if it is not based on an adequate assessment of the organism by special spectroscopic methods, one of which is the Pulse Metabolic Analysis (PMA) invented by Pulse Academy.

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