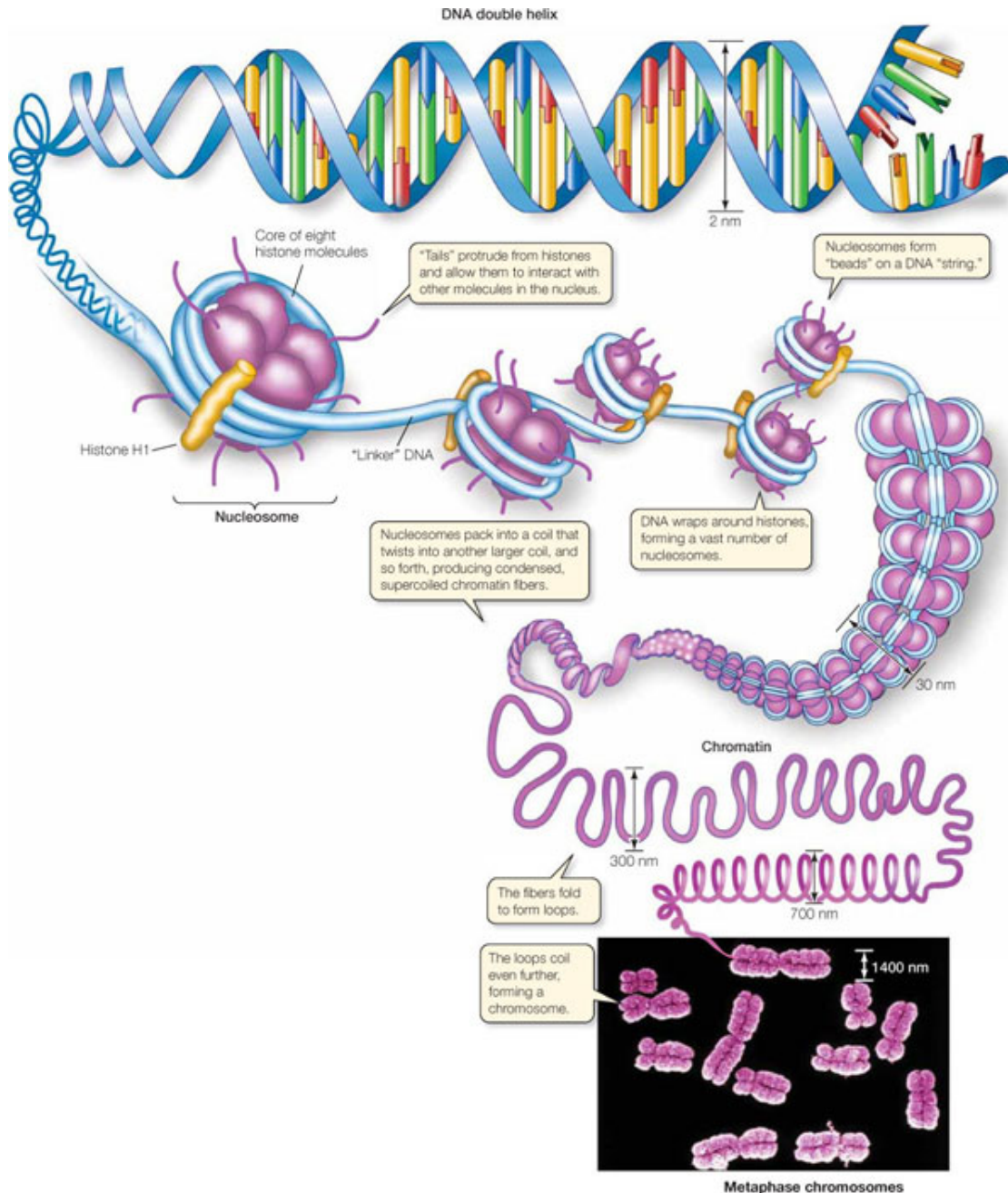
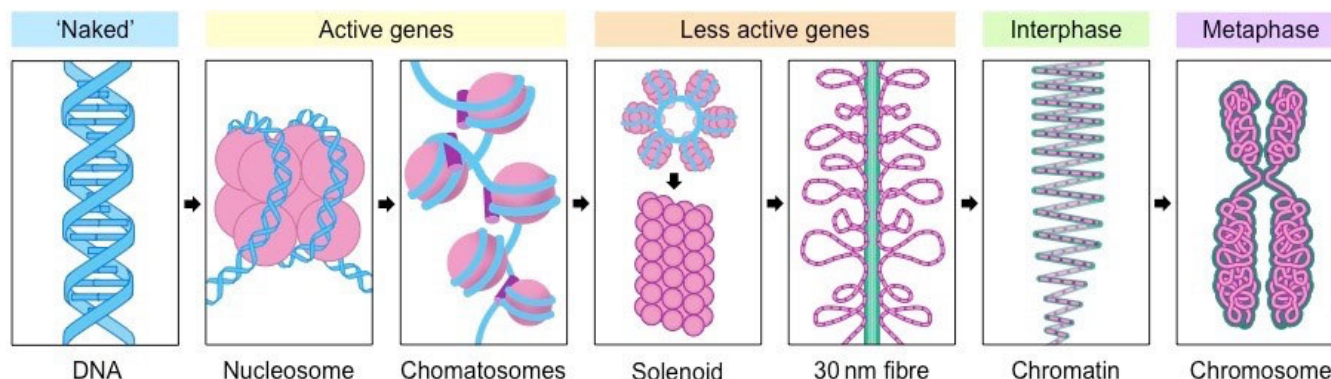


DNA Generated Scalar Waves

The picture below illustrates clearly how DNA is packed into a mitotic chromosome through multiple step coiling [1]. The figure eight shape “8” plays an important role in this formation. The naked DNA is a double helix string made up of two linear strands twisted together around the helical axis in an **anti-parallel** fashion. The chemical backbones of the strands are sugar and phosphate molecules. In between them are the base pairs made up of 4 nitrogenous bases: adenine, thymine, guanine, cytosine connected by hydrogen bonds. There are **benzene rings** in the nitrogenous bases.



To relieve twist strain, the double helix strands first wrap around **8** histones to form nucleosome cores. **The two adjacent nucleosome cores are wrapped by the DNA helix in opposite directions.** The nucleosome cores then form solenoid shaped “beads” string. The “bead” string then coils into another 30 nm and 700 nm large chromatin fiber. Finally, the chromatin fiber supercoil during cell division to form the chromosomes with many **figure-eight** loops. The chromosomes are visible under microscope.

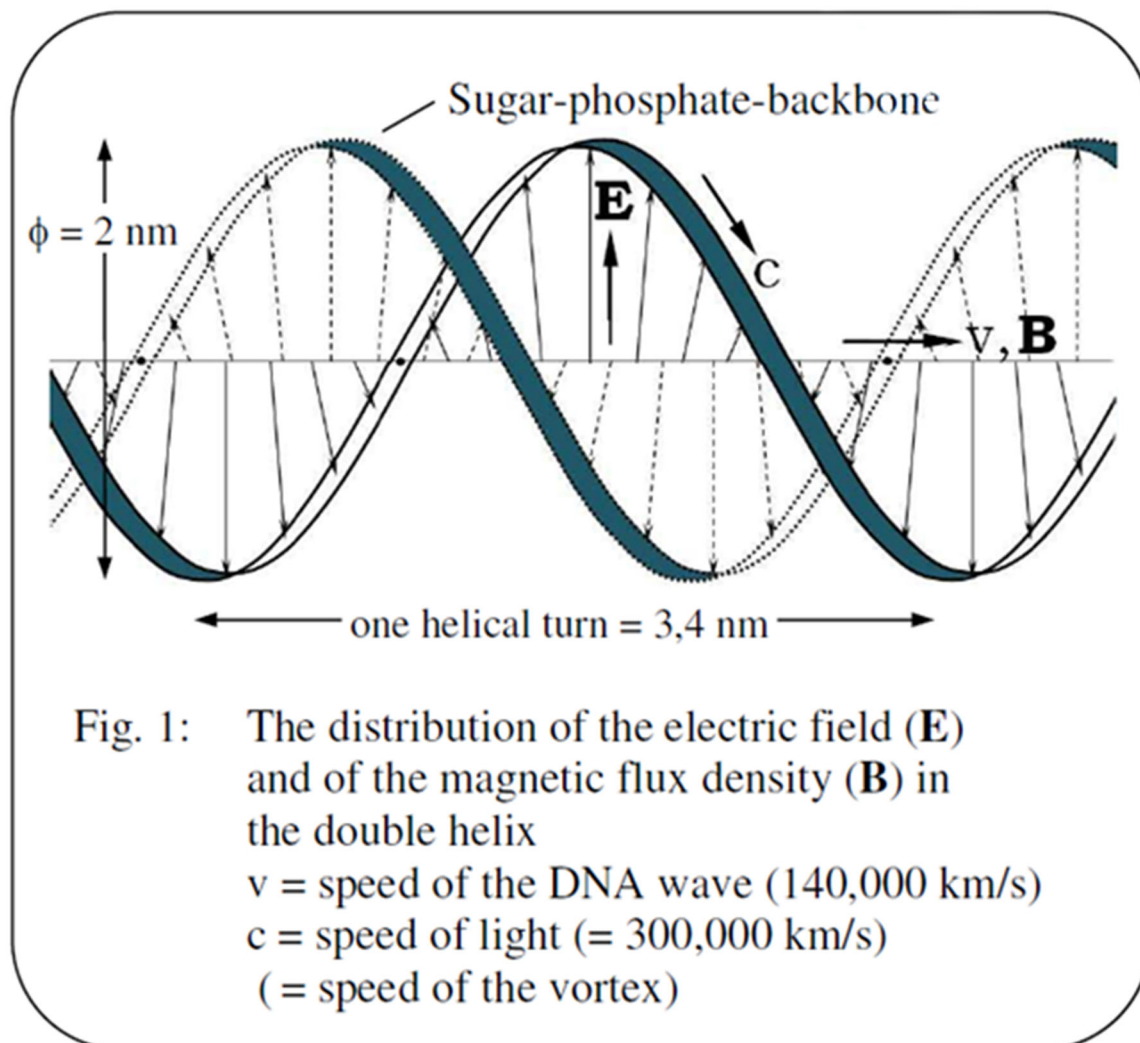


Picture credit: <https://ib.bioninja.com.au/higher-level/topic-7-nucleic-acids/71-dna-structure-and-replic/nucleosomes.html>

This marvelous God creation generates scalar waves in multiple levels:

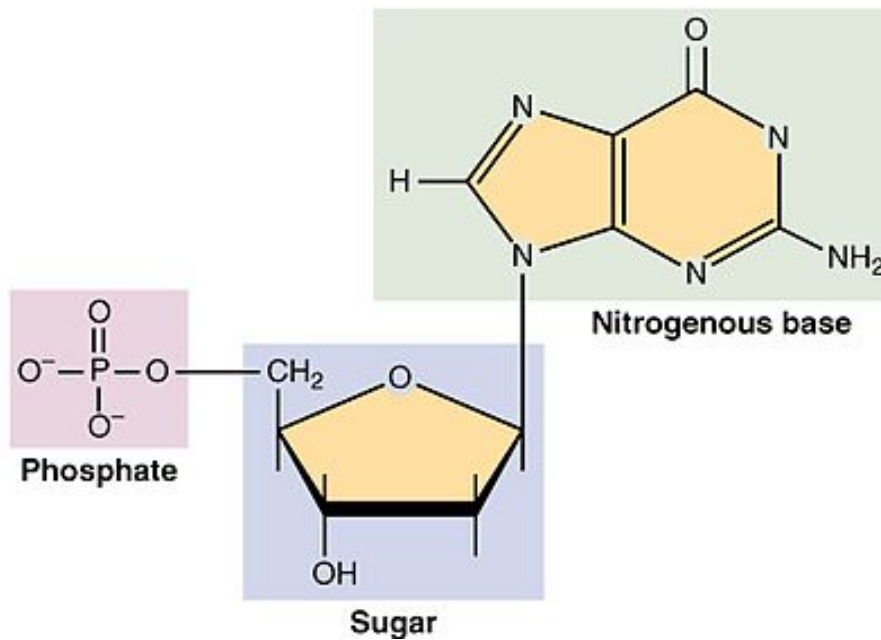
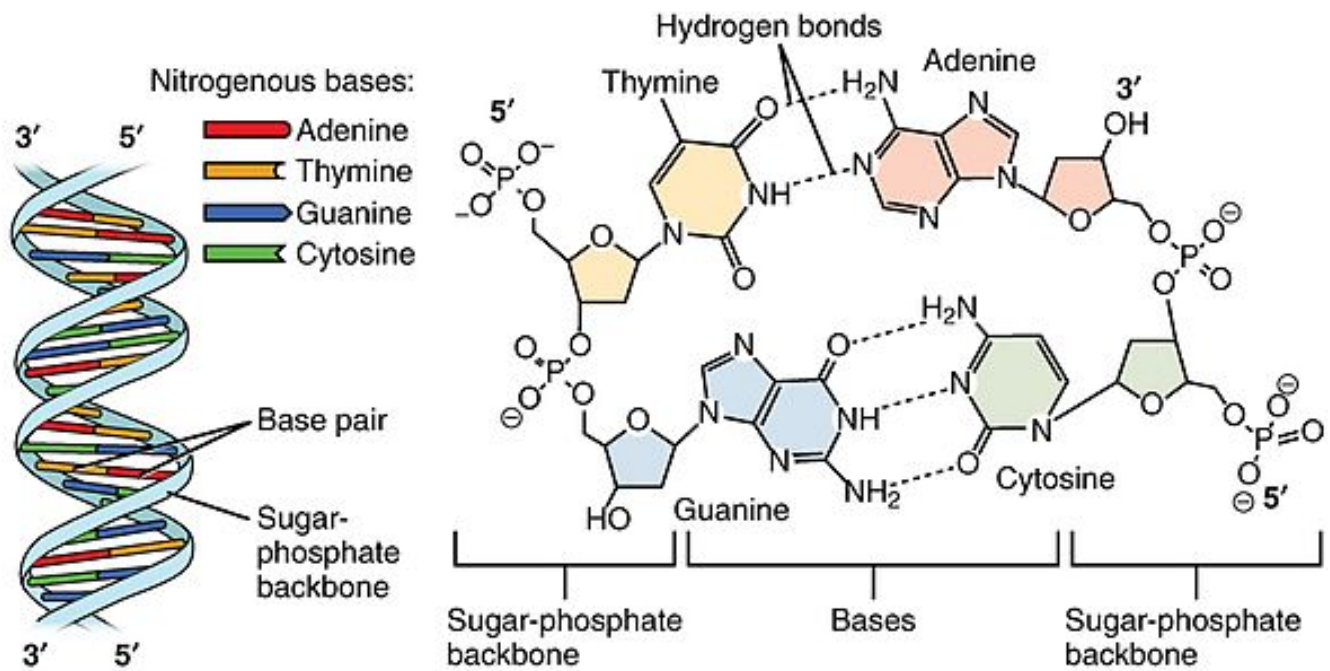
1. Scalar Wave Generated along the Double Helix

Two DNA strands carry two anti-parallel magnetic field \mathbf{B} and \mathbf{B}' along the helical axis. They cancel each other and, according to the scalar wave theory, form longitudinal scalar waves along the axis. The longitudinal scalar wave along magnetic field vector \mathbf{B} of the EM wave is called magnetic scalar wave or “Meyl” wave after Prof. Dr. Konstantin Meyl who first introduced the concept [2]. This is in contrast to the electric scalar wave or Tesla wave that Tesla discovered 100 years ago where the longitudinal scalar waves propagate in the direction of EM wave’s electric vector \mathbf{E} .



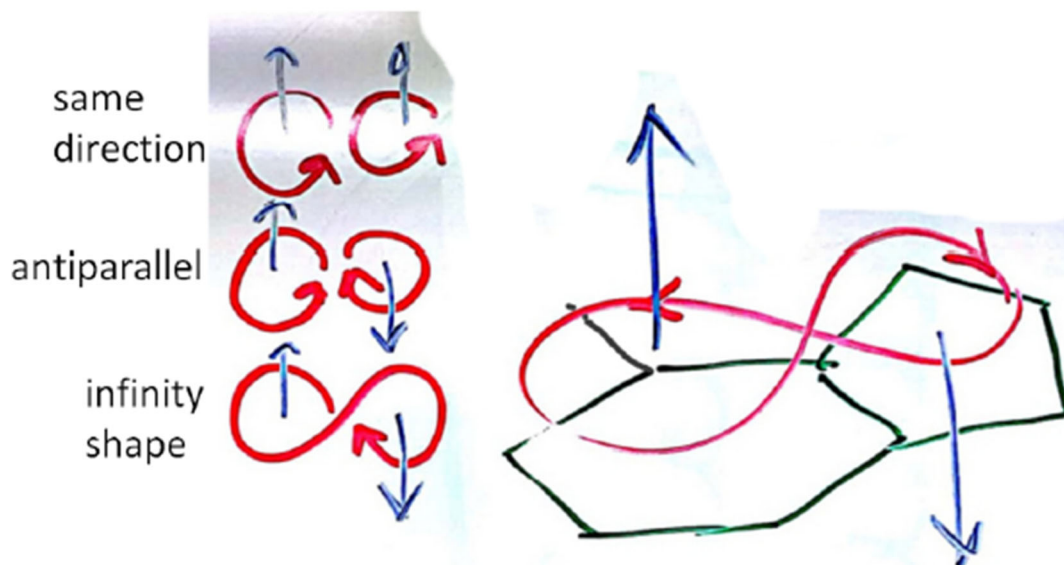
Credit: K. Meyl [2], DNA double helix structure creates scalar waves

Benzene rings in the base pairs between the two strands as shown below are the “motors” that generate the magnetic fields. They are oriented perpendicular to the helical axis. Each benzene ring has circulating electrons on its plane which in-turn make the benzene ring a magnetic moment (like a tiny magnetic ball). All benzene rings are aligned along each strand creating \mathbf{B} field along the helical axis. The magnetic fields created by the second strand is anti-parallel to the first one. Therefore, in its natural state, single strand of DNA is magnetic but double-stranded DNA is not due to anti-parallel cancellation.



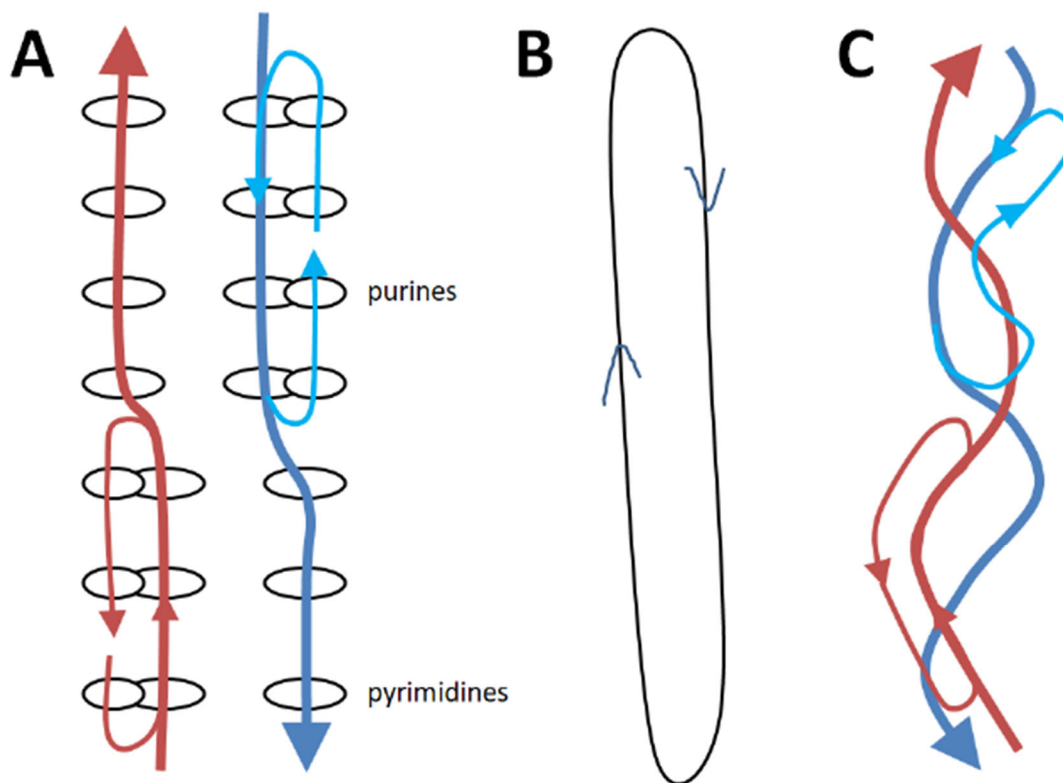
Credit: https://commons.wikimedia.org/wiki/File:0322_DNA_Nucleotides.jpg

The physics of DNA magnetism can be found in [3]. The authors did not discuss anything about scalar waves. But the article can be served as a good source for the understanding of the magnetism in DNA.



Picture credit [3]: Vadim V. Guschin, et. al, *On the function of DNA magnetism*

The authors suggested three possible driving forces for the formation of the benzene ring currents when the external strong magnetic field is not presented: 1. heat motion, 2. Enzymes utilizing ATP energy, and 3. A process fueled by deactivation of active forms of water.



Picture credit [3]: Vadim V. Guschin, et. al, *On the function of DNA magnetism*

As shown above, the DNA sequence consists of double-ring purines (A & G bases) and single-ring pyrimidines (C & T bases). In the presence of strong external magnetic field, the ring currents induced by the external incident field are spinning in the same direction, so that their magnetic moments are directed towards the incident magnetic field. This secondary magnetic field is formed to shield the DNA from the outside force. In the process, the magnets strongly oppose each other, the repulsive force try to push apart but the double helix holds them tight together therefore forming a bubble.

However, in the absence of strong magnetic field, the natural state ring currents are spinning in opposite directions, resulting in anti-parallel magnetic moments that are attracted to each other and close the magnetic loops. The magnets are therefore pulled together. This attraction occurs to the rings between two strands and also to the adjacent rings in the purines. For the adjacent rings in the purines, the trajectory of the ring current is of infinity shape, or number 8 shape, or a **möbius coil** shape. The magnets powerfully attracted to one another reinforces the stable DNA double helix structure. In the process, a very large scalar wave vacuum is formed.

Möbius coil is well known for its ability to generate scalar wave. In his book, Stephen Linsteadt, NHD [4] describes how it works: *“The body is also constantly generating these universal scalar waves. Scalar waves are produced when two electromagnetic waves of the same frequency are exactly out of phase (opposite to each other) and the amplitudes subtract and cancel or destroy each other. The result is not exactly an annihilation of magnetic fields but a transformation of energy back into a scalar wave. This scalar field has reverted back to a vacuum state of potentiality. Scalar waves can be created by wrapping electrical wires around a figure eight in the shape of a **möbius coil**. When an electric current flows through the wires in opposite directions, the opposing electromagnetic fields from the two wires cancel each other and create a scalar wave.”*

Prof. Dr. Konstantin Meyl [2] calculated the wavelength of the DNA generated scalar wave to be 126 nm, the speed to be half of the light speed: $C/2.14 = 140,000$ km/s, and the frequency to be 1.11×10^{15} Hz – in the UV spectrum. This matches the bio-photon UV radiation measured by Prof. Popp using highly sensitive photo-multiplier tubes, suggesting that DNA scalar wave is the source of the bio-photon radiation. Prof. Dr. Meyl stressed that longitudinal scalar waves are known to have no fixed propagation speed and consequently no fixed frequency.

According to Prof. Dr. Meyl’s **model**, bio-cells communicate and gain energy from magnetic scalar waves through potential vortexes. In the presence of scalar waves, the cells go into resonance, and draw information as well as energy from one another and from the environment stimulants. The transmitters and receivers are no longer distinguishable. Metabolism controlled by the genes is only possible if both energy and information are introduced. Scalar waves carry both energy and information and therefore fit the bill.

Only about 1 percent of DNA is made up of protein-coding genes or “exons”, the other 99 percent is noncoding “introns”. The noncoding introns appear to be “junks”. But it is these

introns that allow the resonance among cells to occur and facilitate the propagation of scalar waves. No evolution could have happened without the introns.

DNA scalar waves are generated within a nucleus, a cell structures, and the entire human body. They entangle with all other scalar waves in the universe. When in resonance, different people can absorb energy and information from each other instantly through the scalar waves remotely.

2. Scalar Wave Generated by Adjacent Nucleosome Cores

As discussed previously, the adjacent nucleosome cores are wrapped by the double helix DNA strands in opposite directions. This effectively forms many infinity shaped möbius coils. Electric current going through the möbius coils creates anti-parallel magnetic fields, cancelling each other and generating magnetic scalar waves.

3. Scalar Wave Generated by Figure-eight Loops in Chromosomes

Once again, the figure-eight loops in chromosomes are many infinity shaped möbius coils. Electric current going through the möbius coils creates anti-parallel magnetic fields, cancelling each other and generating magnetic scalar waves.

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4. Stephen Linsteadt, ***The Heart of Health – the Principles of Physical Health and Vitality***, Natural Healing House Press (October 1, 2003), ISBN-10: 097411230