

San Diego, California, USA  
April 30, 2009

American College for Advancement in Medicine (ACAM)

Sheraton San Diego Hotel & Marina  
1380 Harbor Island Drive, San Diego,  
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## Life – Aging and Photons

By

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*There is no doubt any more that specific electromagnetic fields and their frequencies have enormous healing power. As seen in successful treatment of osteoporosis and numerous other health disorders, therapists around the world are curious about what is behind all this. Using the laws of nuclear magnetic resonance, electrons and their photons will produce a powerful tissue repair and true anti aging.*

What is life?

In physics life is the struggle against entropy. Entropy is the amount of disorder of a system. Because a living system is continually losing heat and order, it has to continually pump up energy to keep up a state of higher order. It is the moving away from chaos, and the working against heat loss which gave thought to Erwin Schroedinger, the father of quantum mechanics and Nobel price laureate in 1933:

“The trick of the organism to keep a high degree of order is pulling order from the environment. This is – to a certain degree - done by nutrition.” However, as Schroedinger stated, it is the absorption of light of the organism which is creating structures and keeps order by its *coherence*.

When photons are pulled into and absorbed by the DNA molecule, they become quasi “glued” to each other. Since photons are light quants, that light becomes more and more condensed and coherent if pulled into the DNA. The mechanism of accumulating photons in DNA sites is based on resonance phenomena. According to Fritz Popp, the world capacity professor of biophysics, photons are attracted by other photon groups in the DNA if their light spectrums are matching. The process is called Bose-Einstein Condensation and is one of the miracles in nature to pump up energy against decay and death.

The DNA stores this light inside by having it resonate in its body. The DNA body consists of two parts. DNA and histones. DNA is wrapped around other proteins so called

histones forming a body of resonance. DNA is coiled around other proteins, histones, and form a resonating cavern.

It stores highly condensed photons of laser quality ready to excite other structures and molecules in need for energy. Excitation of other molecules etc. again is done by photons of laser quality with a spectrum specific to each structure. For cellular repair the interacting molecules / atoms / and structures must become excited. Only excited molecules are able to interact with other molecules.

Coherent light of laser quality is capable for both transporting information and building up molecular structures.

**Coherent photons are somewhat “glued” together.**

**It is known that sunlight has a coherence area equivalent to the surface of a cell (0,0019mm<sup>2</sup>) van-Cittert-Zernike <sup>3</sup> Within that area sunlight can build up structures.**

In order to make light work as a life giving power there are two factors linked to each other: The capability to *store / accumulate* sunlight in a “resonance body” (DNA) and the *coherence* of light. Coherent light differs from normal light. It would stay in cellular structures for hours and is highly specific to other cellular structures. Its time of coherence is 10 times higher than the best laser produced by man which dissipates in 10 - 2 seconds. In a way you could say that our DNA is a highly charged laser light battery.

**Popp and Li proved coherence (laser quality) by showing the hyperbolic decay time of cellular light emission . 4**

The stored photons, this highly coherent light of laser quality, are acting in different ways:

Photons excite DNA bases such as Adenin. This monomer can either emit the photon and fall back to its non-excited state or it could pass the photon on to neighboring monomers. By exciting another molecule of amino acid both amino acids would now attract each other. They form so called Exciplexe (excited complexes). The attraction is causing the DNA to spiral and coil. The DNA becomes stabilized and condensed. This condition is a higher state of energy. Spectral resonance phenomena are then responsible for emitting these coherent (laser light) photons again to other structures if there is an energy deficit.

Popp showed that tissue in pain is emitting less light. This indicates clearly that pain is a condition which is lacking energy. It is a lack of photon coherence. That is why for any aging process the proper therapy would be:

Increasing the photon coherence in the DNA and other cell structures. Since cellular repair is highly spectrum specific, one needs to use an intelligent system which would induce / produce the right spectral energy of photons for each tissue.

This can be done by nuclear magnetic resonance.

This is done by inducing specific electromagnetic fields into the aging tissue.

## **Specific Electromagnetic Fields. Their Nuclear Magnetic Resonance. Their Secrets in Tissue Repair, Healing, and Anti Aging**

*Part one of this presentation will explain the laws in physics of why electrons of our tissues emit a photon when they are excited by specific external electromagnetic fields. Part two will focus on the photons which are our life force.*

**One proton and one electron compose the spinning hydrogen atom. Both particles have a magnetic moment, the inner magnetic source, which builds the small outer magnetic field around them.**

**The Larmor principle (Sir Joseph Larmor, 1857-1942, Irish physicist and mathematician):**

**When these small magnetic fields, the magnetic moments, are exposed to or are placed in, an external electromagnetic field, they will be accelerated and start rotating about the axis of that field. This is called ‘precessing’. They precess about that axis like a top. The accelerated magnetic moments of the hydrogen atoms take up energy from the other electromagnetic field. They take up the most energy, if the frequency of the other magnetic field matches the spin frequency (Larmor frequency) of the hydrogen atoms. Then they are fully resonating. This has been used for the MRI since 1970.**

**The magnetic moments of the hydrogen atoms will align and precess about the external field axis longitudinally and transversally.**

**They precess with a specific frequency about the external field (*Larmor frequency*), which differs a little between the tissues. This is because each tissue is differently composed and accordingly the spinning frequency of the hydrogen atoms is slightly slowed by interference from other atoms.**

**The more the frequency of the external electromagnetic field matches the Larmor frequency of the hydrogen spins, the more those are resonating and taking up energy. This is like a swing, when it takes up the energy of the pushes if these pushes match the frequency of the swing.**

**Since the external em field is pulsating, is on and off, both the longitudinal and transversal alignments of the hydrogen spins collapse (relax) to their original formation, when the field is switched off. Since the longitudinally aligned hydrogen spins have a lower energy state than the ones that are transversally aligned, switching off causes only the electrons of the *transversally* aligned hydrogens to emit a photon.**

**The reason why there are two different energy states of hydrogen spins, is because the hydrogen has two so called ‘eigenstates’, two different electron spins. Some**

hydrogen atoms have an up-spin of their electron, causing a high energy state. Some hydrogen atoms have a down-spin of their electron, causing a low energy state. The high energy state, the up spin hydrogen, aligns transversally and its electron emits a photon when the resonant frequency of the external em field is switched off.

By exciting other electrons the *photon* is the vital energy carrier and the force for tissue repair, semiconducting and neutralizing free radicals.

**The photons:**

*Biophotonic radiation is the driving force for healing and anti-aging.*

All living cells are emitting light. Proven in 1975 by Fritz A. Popp , a German biophysicist and discovered first in 1922 by Alexander Gurwitsch, this light is of high order such as the light of a laser. It is highly coherent. It can be considered as an integrating energy field of both cells and the entire organism. Dead cells do not emit light.

Since 1700 light has been considered as both particle-like and wavelike.

Newton thought that light was vibrating particles.

In 1900 Max Planck suggested that electromagnetic rays (light) could only be radiated and absorbed in certain packages. He named those packages *Quants*.

In 1905 Albert Einstein finally proved Planck's theory and was awarded the Nobel Prize:

“Light is both wave and particle (light quants)”.

In 1926 the American, Gilbert N. Lewis, named those light quants '*photons*' .

Popp called the light of our cells, the cellular photons, *Biophotons*. This is to emphasize their importance in biological functions in the cells.

**How does biophotonic radiation originate?**

By inducing a pulsating electromagnetic field into tissue, resonance energy will be absorbed and will excite electrons. In the excited state the electrons of an atom will jump from an inner orbit to an outer orbit. This is called quantum jump because the outer orbit has higher energy.

When jumping back to an inner orbit of lower energy, the electron will emit a light quant, a photon. Whatever energy is used to excite the atoms and their electrons, it is always its electromagnetic interaction which is the driving force.

In their basic state molecules are stable and would not interact with other molecules. In order to interact with other molecules they need to become excited by photons.

**Bio-photonic radiation has a high order state. It is a bio-laser (F.Popp), very quiet, stable, no discontinuities like normal light. Laser represents high power. Its photons are capable of ordering things by their simultaneous and collective action. Through its stable field intensity there are interference effects with “laser” waves of other tissues unknown in normal light. That kind of interference is a very *stable* structure and has the quality to build our body’s wave structure, the holographic structure. It explains the interconnectedness of all our organs as known in oriental medicine.**

**When you produce bio-photonic radiation by external induction it will hyperbolically fade away. This indicates that it is light of laser quality. It is interesting that – by using induction - the cells continue to emit the absorbed light over minutes and hours (F.Popp).**

**When you use induction with a *specific* electromagnetic field, you resonate and excite selected organs and tissues. This is because the hydrogen atoms of each tissue/organ are spinning with a specific frequency (Larmor). In other words: “non-intelligent” unspecific electromagnetic fields would resonate dispersed with atoms/molecules here and there in the body. There would be no collective concerto of the atoms in the needy, ailing, and aging tissue. In order to get maximum response for repair, the atoms (hydrogens) of the aging tissue must be selectively and collectively activated.**

**The bottom line is: If you use a specific electromagnetic frequency which is matching the spinning frequencies of hydrogens of a particular aging tissue, its atoms and electrons will be collectively excited by resonance. So the electrons will emit their photons together and will produce an enormous bundle of coherent laser light in the cells. Since these photons can circle between molecules without loss of energy over a long time, for hours, their coordinated actions exert the astounding order and repair effect.**

**Using pulsating specific electromagnetic fields is a true anti-aging process and explains the dramatic pain improvement in osteoporosis, non-jointed bone fractures as well as improvements of numerous health disorders.**

***Footnotes:***

- 1. Bischof, Marco: Biophotonen. Das Licht in unseren Zellen, 1995, Zweitausendeins Verlag**
- 2. Popp, F.A./Nagl, W./Li, K.H./Scholz, W./ Weingärtner, O./ Wolf, R.: Biophoton emission: New evidence for coherence and DNA as source (1984)**
- 3. Cittert, P.H. van: Physica, Vol 1 (1934), S.201; Zernike, F.: Physica, Vol. 5 (1938), S.785**
- 4. Popp, F.A. : Biology of Light (1984) S. 75-76: Li/Popp, F.A.: Non-exponential**

**decay law of radiation systems(1983) ; Li, K.H., Popp, F.A./ Nagl,W/ Klima, H. :  
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