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## Supplementing with light: can laser nutrients 'speak' to DNA?



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# Supplementing with light

Last month CAM celebrated a 10-year anniversary. Now we're looking to the future: what will the practice of natural medicine look like in another ten years? We'll be exploring this in a series of features over the next months. First up: the potential power of laser-enhanced supplements. **Niki Gratrix**, Dip ION, mBANT and a CAM award winner, introduces us to the work of a remarkable American doctor whose application of laser light seems to be able to trigger a healing response at the genetic level.

**I**n an extraordinary study published in the *Russian Journal of Gerontology* in September 2011, US medical doctor, DNA researcher and specialist in metabolic medicine Dr Todd Ovokaitys, MD, and a leading Russian scientist reported on a double-blind, randomised, placebo-controlled experiment involving 50 patients with varying degrees of heart failure.

The patients were treated with a special laser-enhanced amino acid formulation at a dose of 6 grams daily for 30 days. In the active supplement group, 60% showed improvement to normal or nearly normal cardiac function.

Even more remarkable was that there was a statistically significant near doubling of collagen generation in the active treatment group. This suggested that heart muscle regeneration contributed to the clinical and physiological improvement. This more than doubled the criterion for a successful intracoronary stem cell intervention aimed at regenerating heart tissue. (1)

The amino acid used in the study is now an approved treatment for heart disease in Russia. Amazing as this may seem, this study is just one of a range of exciting projects Dr Ovokaitys – universally known as “Dr Todd” – is involved in; they all use research in laser light technology and quantum physics to create practical solutions for human health.



Light on DNA:  
visionary researcher  
Dr Todd Ovokaitys.

## Dr Todd takes on HIV

After completing an accelerated medical training programme at the prestigious Johns Hopkins University Medical School in Baltimore and receiving his MD, Dr Todd completed a two-year Fellowship in Pulmonary and Intensive Care Medicine at Georgetown University Hospital – and

it was there that he first became interested in laser technology for the treatment of human immunodeficiency virus (HIV).

While at Georgetown, Dr Todd took part in formal studies of T cell immune function, while the clinical side of his Fellowship involved him in the intensive care of many people with HIV. He had an insight about HIV: that its modified genetic structure meant that it should be possible to produce a wave vibration of a pattern that would disrupt only the virus and leave human cells unharmed. Dr Todd teamed up with award-winning Scottish physicist Scott Strachan to produce a laser technology device which has now received a globally granted patent: the Strachen-Ovokaitys Node Generator. Strachan had previously co-invented real time ultrasound technology which produces dynamic imaging of internal systems, including of fetuses while in utero and received an Enterprise Scotland award for the development of highly precise laser measurement instruments.

Two formal pilot studies completed at the

University of Southern California confirmed that this specially configured laser system could fully neutralise HIV in human cells in culture within 15 minutes without a harmful effect upon the cells. After working with end-stage HIV patients in South Africa, heads of state in that country took note of Dr Todd's work, and he now has government approval for double-blind placebo controlled phase 2 clinical studies on HIV patients in India.

In June 2011 Dr Todd published his study







on laser enhanced arginine in the *Russian Medical Journal*. (2)

Subjects were men who had suffered a major myocardial infarction and had recurrence of chest pain with exertion or at rest or both. Compared to the control group results which showed no clinical change, the treated group over a 30 day course had a statistically significant ( $p < .05$ ) reduction of chest pain both with exertion and at rest and an improvement in erectile function ( $p < .05$ ). While the control group showed a 10%

reduction of exercise capacity over 30 days, the treated group showed a remarkable 60% improvement in maximum exercise capacity on exercise ergometry ( $p < .05$ ). What is especially notable is that treated subjects often showed a resolution of ischaemic cardiac changes during maximum exertion that allowed reduction or cessation of nitrates.

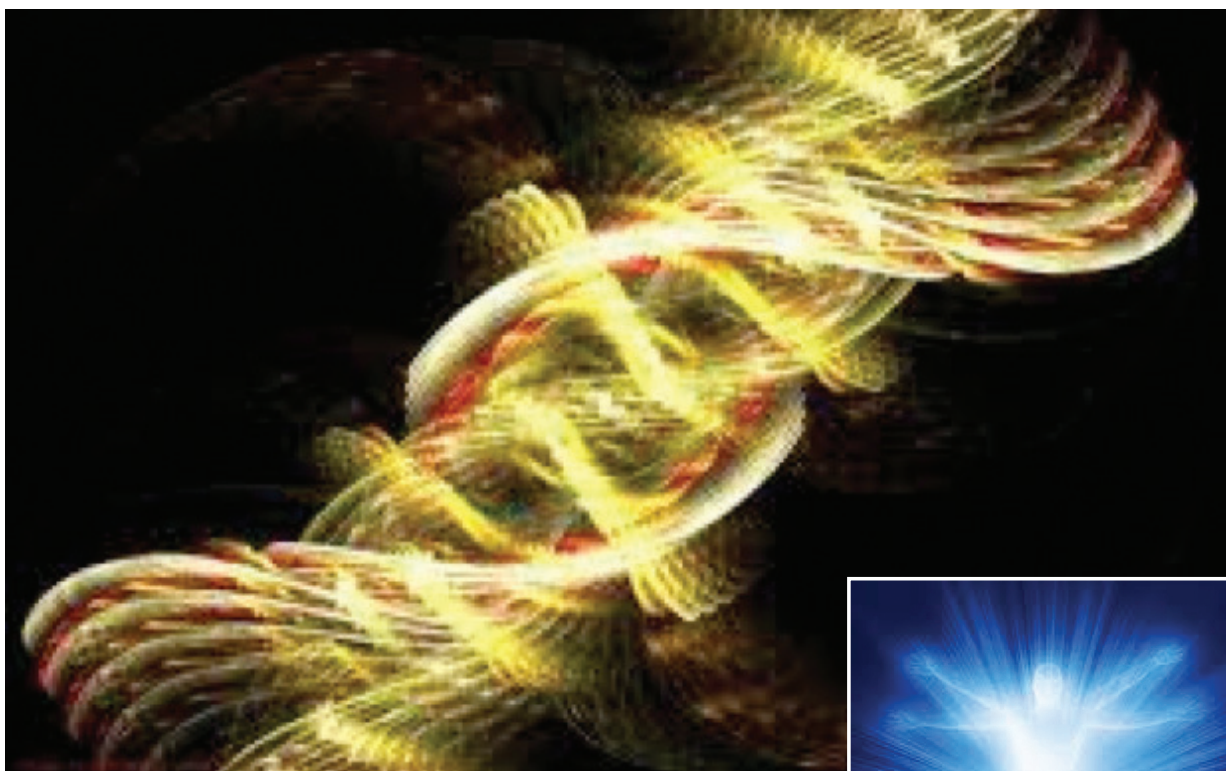
To date Dr Todd now has eight more formal controlled clinical studies on his range of laser enhanced nutritional supplements awaiting

publication. The sum of in vitro and in vivo studies have confirmed beneficial structural changes occur in the supplements through the Qi (Quantum informational) laser treatment, resulting in enhanced biological action, and increased absorption and assimilation.

#### How does the technology work?

In order to understand how and why this laser technology works, it is helpful to understand some of the research that has been undertaken on DNA since the

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→ 1970s by Russian and German physicists. Unfortunately most practitioners in the UK and the US are unaware of the research into physics and quantum physics, as we tend to be more focused on biochemistry for health. And of course we rarely read Russian or German research papers! Leading German practitioner Dr Deitrich Klinghardt, Global Integrative Practitioner of the year for 2007, has commented that in general practitioners are over-educated in biochemistry and under-educated in physics. "When I'm in Germany I say the opposite – you guys are over-educated in physics and you're under-educated in biochemistry!"(2)

### The phantom DNA effect

Dr Vladimir Poponin is widely known for an experiment in the 1980s that was dubbed the "phantom DNA effect" study. Dr Poponin is a quantum physicist who is recognised worldwide as a leading expert in quantum biology, including the nonlinear dynamics of DNA and the interactions of weak electromagnetic fields with biological systems. He is currently the senior research scientist at the Institute of Biochemical Physics of the Russian Academy of Sciences (RAS) and is currently working with the Institute of HeartMath (IHM) in a collaborative research

project between IHM and the RAS.

In the experiment, Poponin shone mild laser light on a sample of DNA placed in a tiny quartz crystal container. The DNA was then observed with equipment that enables the observer to see single photons of light.

What Poponin claimed to have found is that the DNA acted like a sponge and absorbed the light. It stored the light in a corkscrew-shaped spiral. He reported that an "unknown force" holds this light in the same place for up to 30 days after the DNA molecule itself has been removed from its influence. (3)

Co-investigator in the research Dr Peter Gariaev has reported seeing this effect for the first time in 1985, when he worked with correlation spectroscopy of DNA, ribosomes and collagen in the USSR. He was unable to publish until 1991, which he did in a US journal, following with a book chapter (in Russian) on the phenomenon in 1994 (4). The phantom DNA study was also replicated by Pecora in 1991. (5)

This is the first experiment confirming that DNA has a light, or energetic, duplicate. As humans have trillions of DNA molecules in the bodies, it is valid to conclude that the human body also has an energetic duplicate, something, as we know, the Indian yogis such as Patanjali wrote about thousands of years ago.

### DNA as a transducer of light and information

Prof Fritz-Albert Popp is a German theoretical biophysicist regarded by many of his contemporaries as a genius who should have won a Nobel Prize for his work. He received the Röntgen-Prize at the University of Würzburg and completed his PhD in Theoretical Physics in 1969 at the University of Mainz. He was a professor at Marburg University. Prof Popp discovered and made the first extensive physical analysis of "Biophotons". (6)

Popp started work in the 1970s studying the effects of ultraviolet light on very carcinogenic substances. He found that the carcinogens would absorb the light and "scramble" it, sending it out at a different frequency. Next Popp got a student of his to build a device which could detect single photons of light and



→ they started researching other substances.

They found that cucumber seeds give off light. They assumed it must be the chlorophyll responsible for the emissions, so they looked at a potato to confirm the theory. The potato was found to give off even more light. As just part of many studies Popp undertook, he found that raw uncooked food gives off more light than cooked food and free-range eggs give off more light than standard ones.

### Light as information

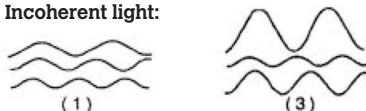
Popp started to conclude that this biophoton field around living organisms contained information which was useful to the organism.

He found, for example that when humans are stressed, they give off more light than usual, a sign that information is being sent to the cells for healing as the body is needing additional rejuvenation. In addition Popp surmised that the biophoton field contains information which tells the DNA what to do, because light emitted and stored by DNA is coherent.

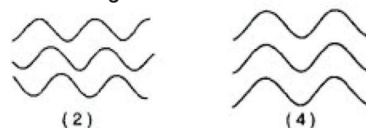
### Coherent light

Coherent light is made of waves of light which match up exactly peak to peak and valley to valley:

#### Incoherent light:



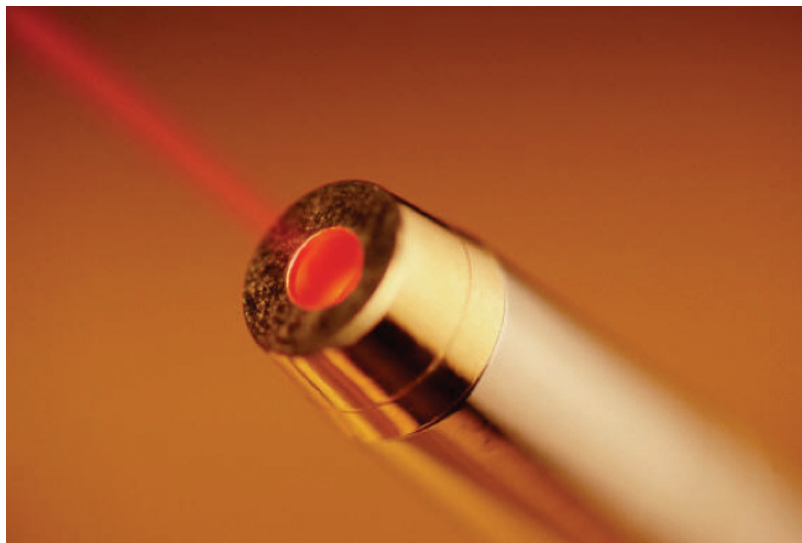
#### Coherent light:



### Mysteries in biology explained

The completion of the Human Genome Project resulted in some confusing and surprising results. Humans have only 20-25,000 protein-encoding genes; this is not enough genes to match the number of different proteins in the body. In addition, only 4% of the total number of human genes was found to encode for proteins and RNA, the rest were labelled so-called "junk DNA."

The conventional belief is that genes direct the construction and function of all cells, but this doesn't explain how the cells differentiate and specialise, nor the speed of growth and communication. For example, proteins are synthesised in one place in an organism,



while their action in the form of a command is immediately expressed in another place separated from the first one by hundreds of cells.

### Morphic fields

The controversial biologist Dr Rupert Sheldrake, PhD, author of "A New Science of Life", has been writing about these unexplained questions for years, theorising that living organisms have a "morphic" field which contains information which is critical to cells for growth, specialisation and rejuvenation. This is in alignment with Popp's biophoton field research.

Sheldrake received a first class honours degree in Biology at Cambridge, won a scholarship to study History at Harvard, got his PhD in Biochemistry at Cambridge and was director of studies in Biochemistry and Cell Biology at Cambridge. In talking about his research on plant hormones, he is reported to have said: "...after nine years of intensive study, it became clear to me that biochemistry would not solve the problem of why things have the basic shape they do". [http://en.wikipedia.org/wiki/Morphic\\_field](http://en.wikipedia.org/wiki/Morphic_field) – cite\_note-Discover2000-7 (7)

More recently, drawing on the work of French philosopher Henri Bergson, Sheldrake has proposed that memory is not stored in the brain, but in the morphic field or the biophoton field. In other words, the brain is simply a receiver of information.

### Is your brain necessary?

In 1997 an intriguing *New York Times* article discussed the findings of Dr Eileen Vining of

Johns Hopkins University, who studied 54 children with epilepsy who had half their brain removed. The children's lives improved and they had the same sense of humour and IQ after the surgery. (8) The benefits of Hemispherectomy surgery was confirmed by a study at John Hopkins Children's Centre in 2003. (9)

The implications of this kind of research had already been documented in an article in *Science* by Roger Lewin asking, "Is Your Brain Really Necessary?" (10)

This article discussed the work of University of Sheffield neuroanatomist Prof John Lorber on hydrocephalus – which is the disease of water on the brain. Sheffield researchers studied 253 hydrocephalus sufferers. Of the group nine had just 5% of their brains left. Four out of nine of them had IQs of more than 100 and two had more than 126. (11) In 2006, similar results were found in golden hamsters with hydrocephalus. (12)

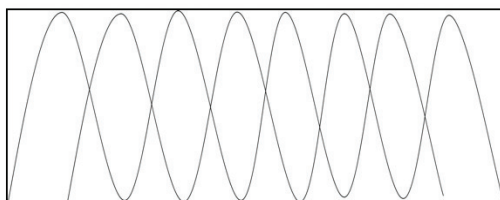
This is all intriguing evidence to suggest that a biophoton field may be a major source of information for our physical bodies and introduces a hypothesis that may even solve the problem of where human memory may be stored.

### Laser technology – "speaking" to the DNA

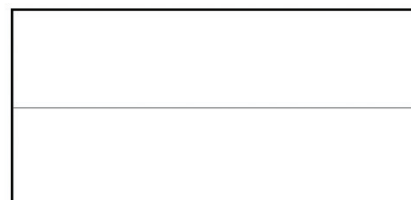
A laser is a device that emits light (electromagnetic radiation) through a process of optical amplification based on the stimulated emission of photons. The term "laser" originated as an acronym for "Light Amplification by Stimulated Emission of Radiation." The emitted laser light is notable because it is COHERENT light with a high

## Matching Out of Phase Light Waves:

### Zero Sum Light



Matching waves  
cancel to zero



→ degree of spatial and temporal coherence: i.e. the light contains waves which match exactly peak to peak and valley to valley.

Low level laser technology has been shown to be effective in all kinds of experiments, including demonstrations of sped-up wound healing, reduced inflammation and reversed signs of disease – there are currently almost 5,000 citations on PubMed for low level laser therapy. However Dr Todd's invention is not the usual kind of laser light.

Dr Todd explains that his laser technology does not produce standard laser light. His patented invention, the Strachen-Ovokaitys Node Generator (or SONG device) actually causes matching light waves to move exactly out of phase, matching peak to valley and valley to peak. This in effect cancels out the output of light to zero, so there is visible light in and no detectable light out.

Light waves in the shorter visible wavelengths such as violet and blue light only penetrate approximately 1-2mm into the human body. Longer light waves in the red-orange range can penetrate further, approximately 3-5mm. Zero sum light is in effect like "stealth" light and can penetrate far more deeply, "speaking" to the DNA and creating a healing vibrational pattern for DNA


directly, as Dr Todd's Heart Regeneration study has proven. As the modulation of this wave form sends photon driven frequency information signatures deep into tissue or in vitro media, the platform is called the QiLaser. Qi in this sense stands for "Quantum information" and Qi also means "life force energy" in Eastern medical and healing systems. The QiLaser has a residual of nodes of visible light that sends subfemtosecond pulses (millionths of nanoseconds matching molecular vibrations) to resonate and modify molecular structure and function in vitro and in vivo.

### "Time Reversed Light"?

Dr Todd has a further theory when he points out for light that moves in this wave-anti-wave pattern, even according to conventional physics, one wave is going forward in space, but also forward in time, thus the other wave not only moves backwards in space – but backwards in time.

Dr Todd has an intriguing hypothesis that just as we can clear a computer of a virus by resetting the computer to an earlier point in time, this can also be done with the information supplied to the DNA and therefore to the cells, in effect healing them.

The application of the technology is wide-ranging, both when applied directly through the laser, or via laser-enhanced supplements: for infectious diseases, the capacity to specifically inhibit pathogens free of significant adverse effects, and for tissue regeneration; the ability to provide both the information signatures for rebuilding tissue as well as the physical substance to effect the repair.

It appears that this new development in laser technology may provide practitioners with the ability to intentionally direct patterns of DNA "switches" for the reversal of a broad stream of pathological conditions and perhaps even the aging process itself. 



### About the author

**Niki Gratrix**, Dip ION, mBANT, NTC, CNHC, is currently training practitioners on the application of Gematria products generally, as well as specifically for Optimising Energy in her three-day Optimum Energy Coach training for practitioners at [www.ExpertPractitioner.com](http://www.ExpertPractitioner.com). Niki was a co-founder of The Optimum Health Clinic, which in 2009 won the CAM Award for Outstanding Practice. She is deputy chair of BANT (British Association for Applied Nutrition and Nutritional Therapy) Council.

## References and resources

To find out more about the work and research of Dr Todd Ovokaitys and receive a free report on the importance of supplementing laser-enhanced Nucleic Acids for health, sign up to the free newsletter at [www.QiLaser.com](http://www.QiLaser.com). To understand more about the technology, see the free information videos under the media section of [www.QiLaser.com](http://www.QiLaser.com). His products can be found at [www.Gematria.co.uk](http://www.Gematria.co.uk)

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