

# An Introduction to PulsedTech's Bioenergetic & Bioelectric Technologies

and other Resonant Frequency Concepts



Jimmie L. Holman



Paul V. Dorneanu

# *Please Interrupt*

**Ask Questions AT ANY TIME!**

***YOU will be the Ambassadors for  
this new technology!***





# Jimmie L. Holman

Dallas, Texas, USA

A portrait of Paul V. Dorneanu, a man with short brown hair, wearing a dark suit jacket over a light-colored checkered shirt. He is smiling slightly and looking towards the camera. The background is a blurred indoor setting.

# Paul V. Dorneanu

Bucharest, Romania, EU

Pulsed Technologies

SALES



**PULSED TECHNOLOGIES**

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If you are "trusting" your Work, your Research, your Health, or your LIFE to the instruments you use...  $\Delta\phi = \frac{1}{c^2} \cdot \frac{\delta^2\phi}{\delta t^2}$  Can you really afford ANYTHING but the VERY BEST?

**Welcome to Pulsed Technologies**

Pulsed Technologies gathers the knowledge, experience, and specialties of Mr. Jimmie Holman, Mr. Paul Dorneanu, and select others previously part of RIFEforLIFE team to bring you the finest in resonant frequency and precision pulsed plasma technology.

Huch of our design and research has now extended from traditional use of our equipment to new areas of research in science, industry and proprietary areas of interest including, but not limited to:

- Food Processing/Food Storage
- Environmental Decontamination
- Health and Wellness
- Electronic Drug Delivery Enhancement
- Signal/Sensing Masking (Stealth)
- Phase Conjugation
- Energy Production and Enhancement
- Nuclear Waste Remediation
- Chemical and Molecular Engineering
- Industry and Manufacturing
- Water Purification / Decontamination
- Home & Building Restoration
- Archeology / Bio-Safety
- Art & Historical Preservation
- Aerodynamics / Propulsion
- Agriculture

**Pulsed Technologies Research**

Pulsed Tech worldwide team has launched a new educational and informational website. Visit [www.PulsedTechResearch.com](http://www.PulsedTechResearch.com) to find more about this amazing technology and it's power.

Latest news

PFG Lab v1.1.1 software released

March 4, 2014

Royal Raymond Rife's original focus was medically oriented. Pulsed Technologies has expanded this technology into a vast realm of exciting new possibilities!

# PulsedTech Companies

Pulsed Technologies Research

R&D



**PULSED TECHNOLOGIES RESEARCH**

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**Pulsed Technologies Research Goes Far Beyond the Products**

Pulsed Technologies Research, LLC (USA) in association of all biotechnology and Pulsed Technologies, LLC, Russia is pleased to provide this website as an educational and informative resource to make existing with and interested in the various scientific and technology.

[LEARN MORE ABOUT US](#)

If you are interested in purchasing Pulsed Technologies products go to [www.pulsedtech.com](http://www.pulsedtech.com)

Welcome to Pulsed Technologies Research

**Blog**

Please join in the discussion on interests of a procedure of technical nature

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**Gallery**

Please feel free to browse through the Pulsed Tech facility and look to see the ongoing evolution of this

[Learn More](#)

**The Electric Human**

The Electric Human is the machine and human made describe the history, physics, bio-physics and practical uses of this emerging science.

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**Research**

The development process has been ongoing for some time but is what we arrived

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**Reference Library**

Our library of reference papers and documents, measurable to those researching these fields of interest

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**Links of Interest**

Our personal services Links of special interest in resources of value for those interested in this technology

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**Scalar Waves in Biology & Medicine**

October 2013

Sometimes in 1928, Nobel Prize laureate Hermann Joseph Muller was awarded the Nobel Prize for his discovery of the effects of X-rays on the genetic material of the fruit fly Drosophila melanogaster.

**Trends and Transitions in Health Care**

May 2014

Recently, the world of health care has witnessed many remarkable breakthroughs with numerous

**Lure of the Magic Box**

October 2013

The Lure of the "magic box" can be overwhelming, especially after many years of...

**On Matters of Health**

November 2013

Most of us in Western society have learned the important lesson since birth, that safety is...

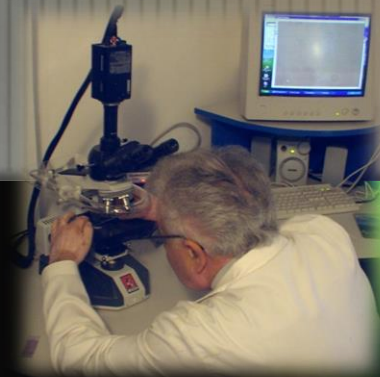
Comments are closed

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# & Others

Bucharest, Romania, EU





# Dr. Steve Haltiwanger, MD, CCN



- Engineer Thomas Drake with Dr. Steve Haltiwanger going over Darkfield microscopy issues for planned testing



# QUACKERY, QUACKERY, QUACKERY !

“My Revelations and  
Search for Enlightenment”



# MY Journey & Discovery

- 2 Auto “ACCIDENTS”
- Appx. 1 YEAR of CONVENTIONAL MEDICAL CARE
- Steroids, Pain Killers, Heat Treatment, Spinal Decompression, Chiropractic Treatment, Massage
- “TENS” provided **temporary** relief
- **THIS WAS NOT LIVING!**



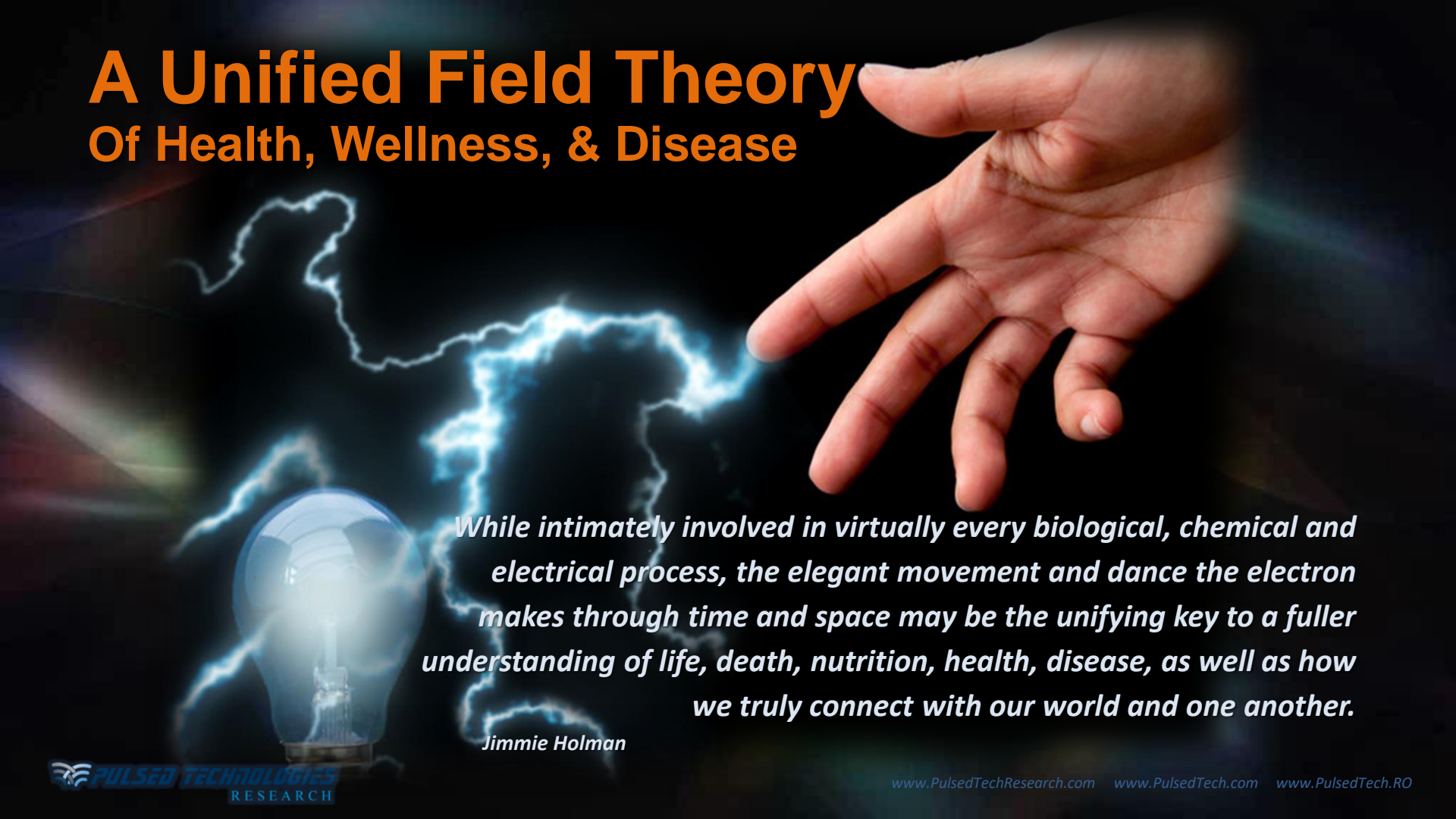
# “PUZZLE PIECES”

- Many of the key puzzle pieces are all around us in the very basic scientific foundations & history
- We may however have to examine from a slightly different perspective than classical training





# A Unified Field Theory Of Health, Wellness, & Disease



*While intimately involved in virtually every biological, chemical and electrical process, the elegant movement and dance the electron makes through time and space may be the unifying key to a fuller understanding of life, death, nutrition, health, disease, as well as how we truly connect with our world and one another.*

*Jimmie Holman*

# The Foundations & History of the Science



(video)

# Electromedicine



- By **9000 BC**, bracelets, necklaces, magnetic loadstones, common use, being worn or applied for healthful intentions. [Schechter 1971]
- **46 A.D.** the Greek physician Scribonius Largus prescribed the “seashore treatment”
- Violet Ray technology used throughout early and **mid 20<sup>th</sup> century.**

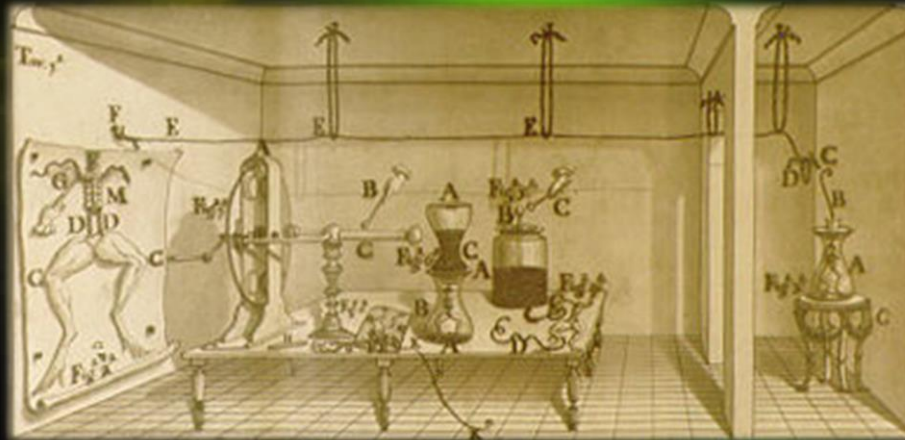


# Luigi Galvani

Electrophysiology

# Luigi Galvani

- Most of us are well familiar with the Italian anatomist, physician and surgeon Luigi Galvani's electrical stimulation and activation of frog legs with an electrical current during the latter half of the 18th century.
- Of great significance, few persons realize that what was largely forgotten was that the frog leg muscle could be stimulated at a distance by a spark produced by a static generator.





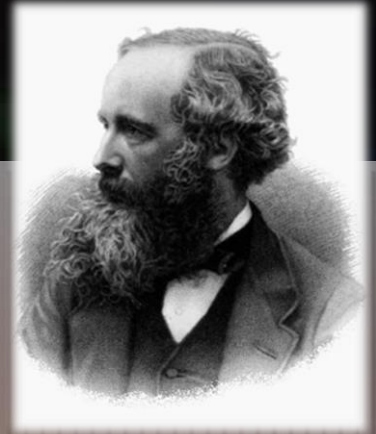
# Luigi Galvani - Electrophysiology

- While misunderstood then, this simple concept is a very important foundation for some of the concepts of our area of study.
- He realized that at least some of the electricity he was observing was being generated within the tissues themselves.
- Galvani's historical experiments established the basis for the biological study of neurophysiology and neurology and he is credited for largely creating the science of **electrophysiology – the study of the connection between living organisms and electricity.**





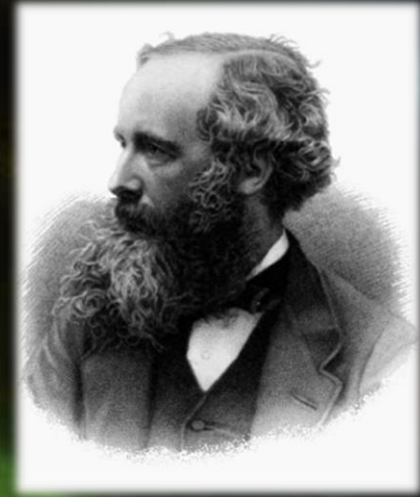
# Faraday & Maxwell



The Foundations & Pertinent Mathematics  
of Conventional and Evolving Physics

# James Clerk Maxwell (1831 – 1879)

- His most significant achievement was formulating a set of equations that for the first time expressed the basic laws of ELECTRICITY and MAGNETISM in a unified fashion
- He also developed the Maxwell distribution, a statistical means to describe aspects of the kinetic theory of gases
- **These two discoveries helped usher in the era of modern physics, laying the foundation for future work in such fields as SPECIAL RELATIVITY and QUANTUM MECHANICS.**



# Michael Faraday (1791 – 1867)



- Faraday established the basis for the magnetic field concept in physics.
- He discovered electromagnetic induction, diamagnetism and electrolysis
- He established that magnetism could affect rays of light and that there was an underlying relationship between the two phenomena
- **Some historians of science refer to him as the best experimentalist in the history of science**
- It was largely due to his efforts that electricity became viable for use in technology





# Royal Raymond Rife

and his Universal Microscope



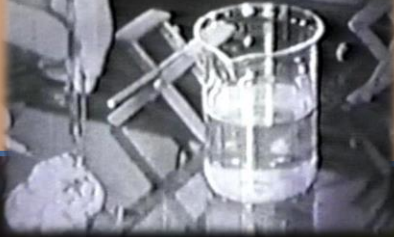
# Rife's Universal Microscope

- Circa 1933
- Rife's Universal Microscope allowed the real-time viewing of LIVE specimens at resolutions never before achieved
- NOTE: The (then new) electron microscope immediately killed any live specimens



# Rife's Strategy

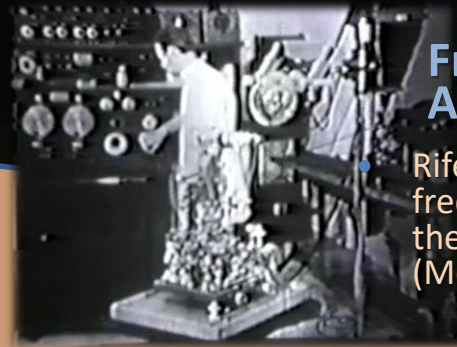
## Tumor Preparation



- Rife meticulously prepared and recorded samples for study
- The observer would witness the light-stained pathogen transform from a glowing violet to a dead black when the task was accomplished

## Frequency Adjustment

- Rife would adjust his frequency generator to the known MOR (Mortal Oscillatory Rate)



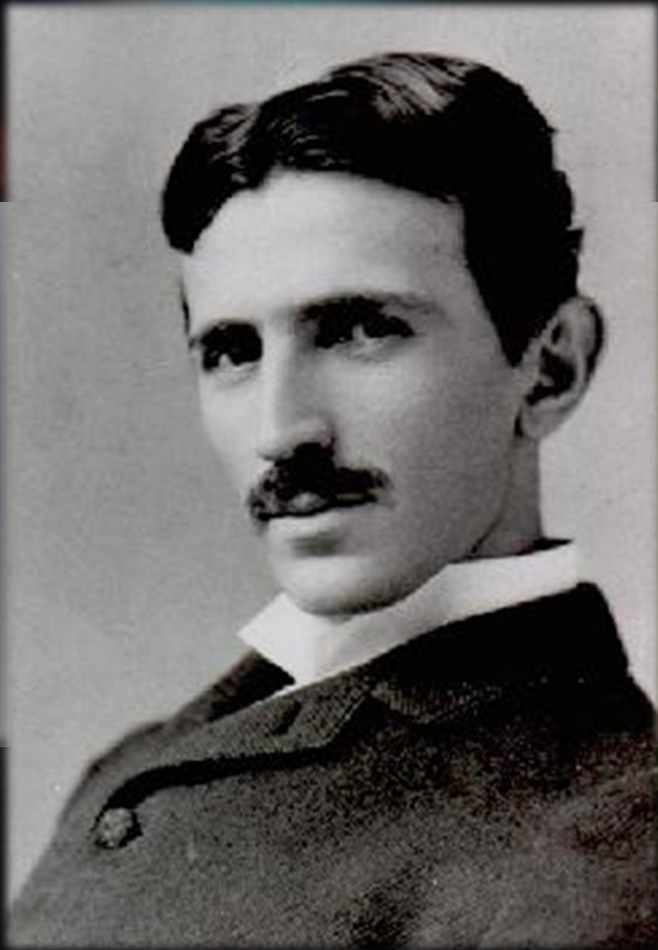
## Observation of Destruction



- Rife would monitor the controlled destruction of the targeted pathogens

DEAD

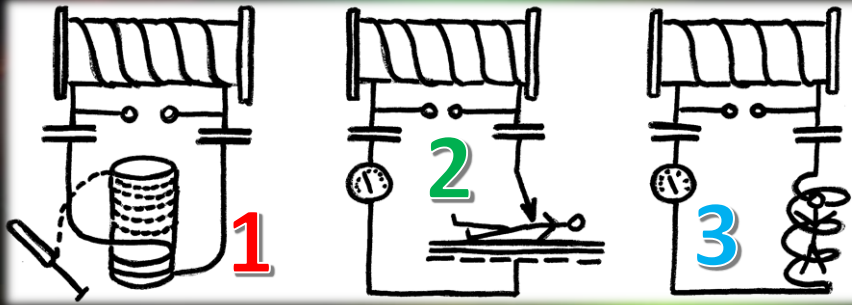
Active



# Nikola Tesla

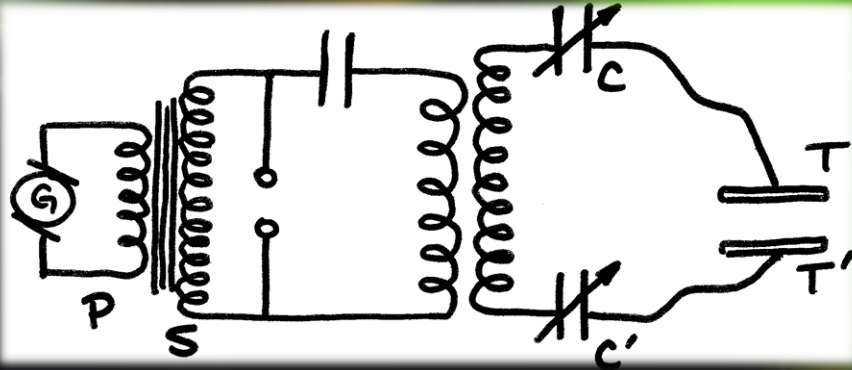
Pulsed & Frequency Technologies

# Frequency Based Electromedicine



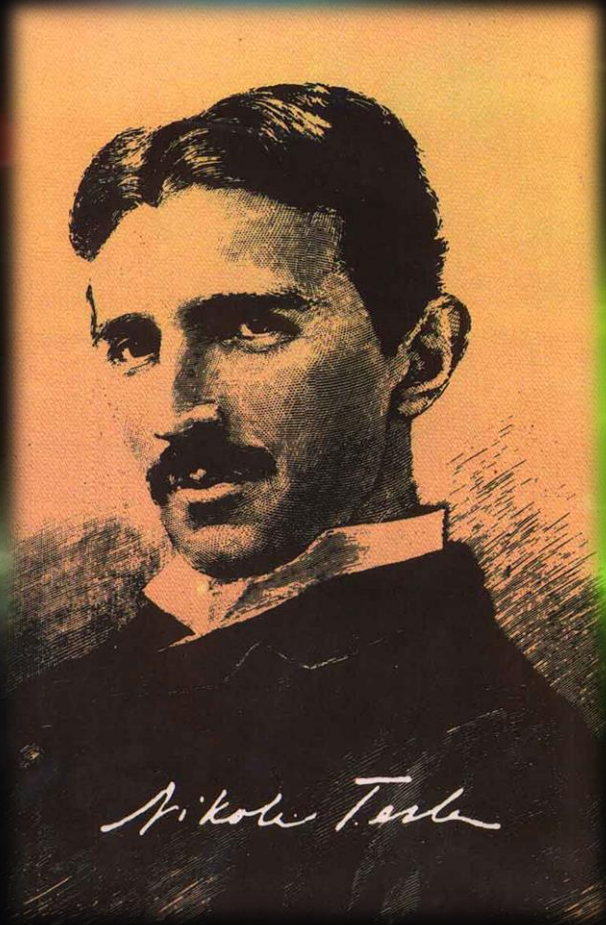
- In the late 1890 and early 1900s, Tesla lectured both domestically and abroad about the virtues of frequency based electro-medicine
- These diagrams are from Tesla's private notes identifying methods of:

- (1) Sterilization,
- (2) Electro-Surgery,
- (3) Whole Body Heating





# “Hertzian Thinking”



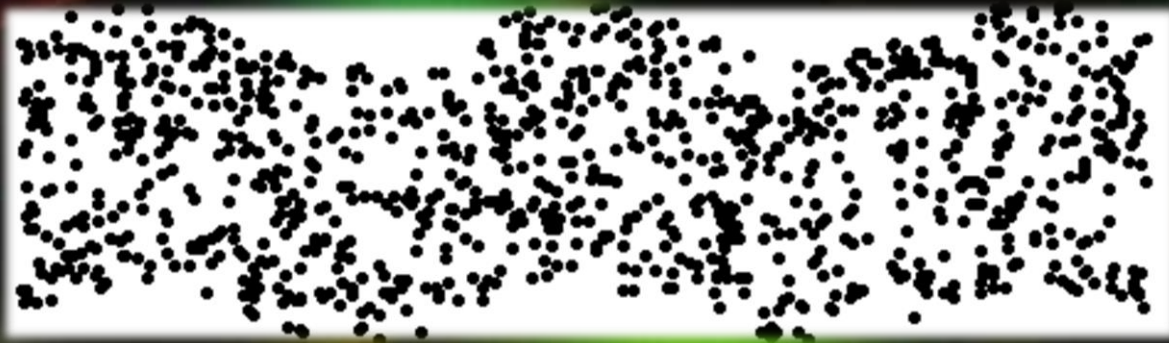
- Tesla declared in 1919 that Hertzian thinking “has stifled creative effort in the wireless art and has retarded it for 25 years”

*(almost 100 years ago)*

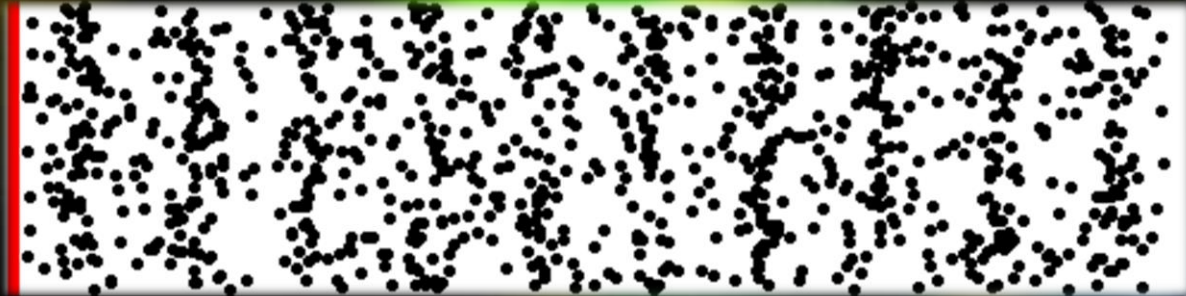


# Wave Propagation

- Transverse Wave (conventional)



- Longitudinal Wave



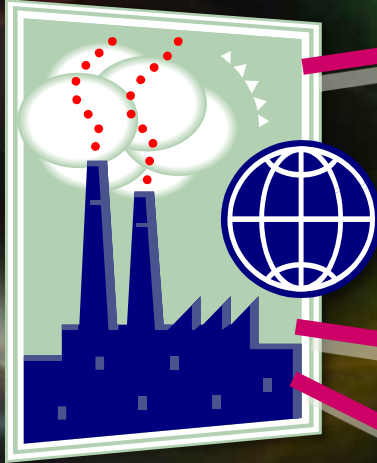
# “Jump Roap” Analogy

- Coupling
- Frequency
- Amplitude
- Time
- Loss of each in conventional EM
- Remote Observer (monitor/meter) may not observe anything



# Wireless Transmission of Power

Power Generation  
& Transmission



Destination Users



Wireless  
Delivery

- Much of Tesla's work concerned the wireless distribution and transfer of energy based on resonant frequency concepts





# Energy Transfer & Manipulation

Plasma Radiant Emission

Selected Targets\*

- We are likely using many of the same principles and concepts on a microscopic scale



*\*Targets are selected by resonant frequency or MOR*



# Light Switch “Transmission”



*Click*

We have probably all noticed that many times when we snap on a light switch that a “POP” may be heard on a near by radio. There is no question that SOME sort of “transmission” not only occurred ....but was also RECEIVED at the radio and processed by conventional means.

The abrupt turning “ON” of power, obviously caused a burst of energy to transfer via means that it could be received and amplified by conventional electromagnetic means.

**POP !**



# Aurora Borealis

- Natural Plasmas

# Why Plasma?

- Why do we use Plasma?
- Why do we use “light”?
- Can we use other energy to accomplish the same things?

# Plasma (Simple Explanation)

- Plasma is the 4<sup>th</sup> state of matter AFTER “GAS”
- When excited by Radio Frequency or High Voltage, the Gas can move to the highly excited “PLASMA” state
- When the excitation is removed, the atoms must give up some of their energy....
- This energy is in the form of PHOTONS of LIGHT!
- Plasmas can be triggered and manipulated to move and alternate between the plasma and gas states at VERY HIGH RATES

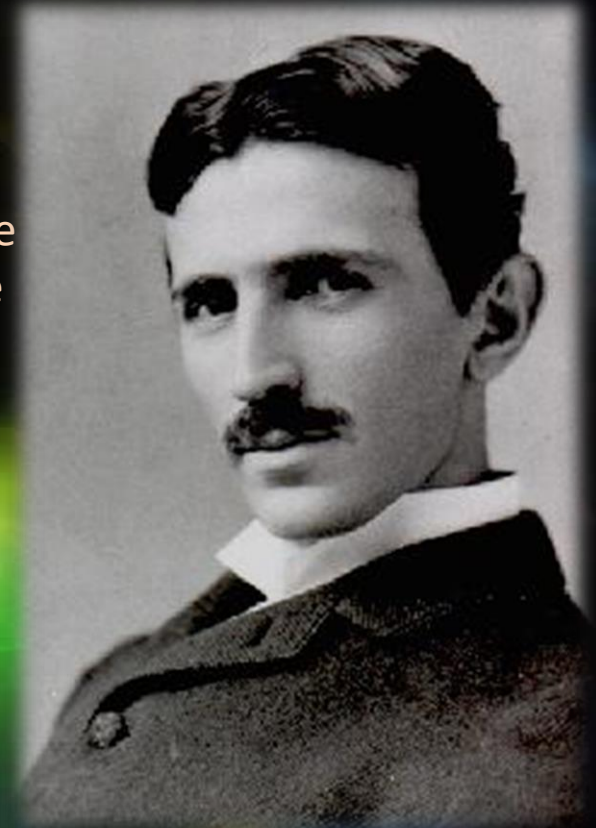


# Human Progress

The light of human progress is not a dim glow that gradually becomes more luminous with time. The panorama of human evolution is illuminated by sudden bursts of dazzling brilliance in intellectual accomplishments that throw beams far ahead to give us a glimpse of the distant future, that we may more correctly guide our wavering steps today.



*1944 – Prodigal Genius  
by J. O'Neill*



# Scalar Waves in Medicine

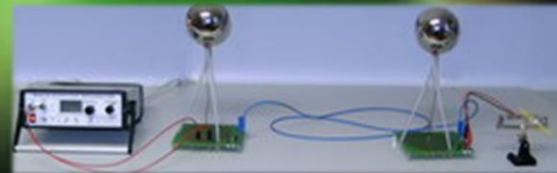


May, 2014, Chateau de Montchat  
Lyons, France

- A handful of the world's leading experts in true scalar wave technology met by invitation for a series of intellectual exchanges and discussions placing emphasis on applications for innovative and integrative medicine.



- The meetings were important in attempting to bring about resolutions at a time when so much of conventional allopathy fails to address, serve, or accomplish the urgent needs of the people.



# The Biophotonic Connections

Popp, Gurvich, Kaznachejev, Stancilescu



# Prof. Alexander Gurvich



АЛЕКСАНДР ГАВРИЛОВИЧ  
ГУРВИЧ  
(1874—1954)

- “Biophotonic effects” first discovered in 1923 by Russian medical scientist Professor Alexander G. Gurvich (who named them "mitogenetic rays") and in the 1930s widely researched in Europe and the USA, biophotons have been rediscovered and backed since the 1970s by ample experimental and theoretical evidence by European scientists.



# Gurvich/Kaznacheyev Experiment

Quartz Glass  
(full spectrum)

**DEATH!**

Remote Culture 2

**Unchanged**

Remote Culture 1

Leaded Glass  
(no UV)

Test Culture  
(being  
"fatally  
abused")

# Biophotonic Emissions

- There are so many ramifications to the study of biophotonic emissions that it is difficult to elucidate at this time.
- Biophoton studies seem to indicate that the emission is coherent and that biophotons may be modulated and communicate information not only throughout the body but into the extended environment.
- It may be the process by which DNA actually communicates its information to protein molecules in the process of morphogenesis.
- It may have relevance to extra-sensory modes of communication with other life forms and explain many mysteries of life.

# Dr. Fritz-Albert Popp



- Biophotons & light energy
- German biophysicist Fritz-Albert Popp has proved their existence, their origin from the DNA and later their coherence (laser-like nature), and has developed biophoton theory to explain their possible biological role and the ways in which they may control biochemical processes, growth, differentiation etc.
- Popp's biophoton theory leads to many startling insights into the life processes and may well provide one of the major elements of a future theory of life and holistic medical practice based on such an approach.

# The Science, Art & Physics

The Underlying Mechanisms



# Science & Facts *CAN BE FUN !*

## *I PROMISE*

*No Reading !  
No Math !  
No Tests !*

# Resonance

Harmonics & Energy Transfer

# Modis Operandi

- **Destructive**
- Constructive
- Supplemental
- Combinations



# Cellular Destruction 1

## Cellular Destruction 2

## Cellular Destruction 3





## Cellular Destruction 4

# Ella Fitzgerald / Memorex

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DVD+RW

# Transfer of Energy

- Every type of matter, molecule and cell has its own unique wave signature.



# Resonant Frequencies

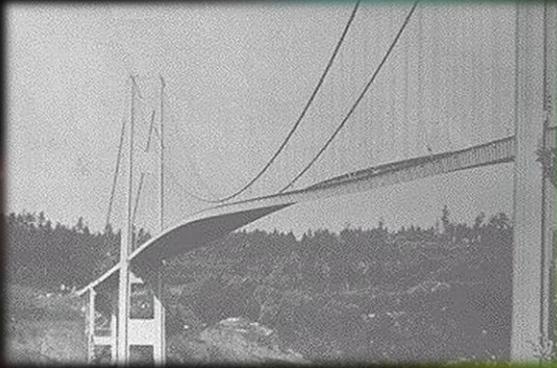
- Every type of matter, molecule and cell has its own unique wave signature.
- To resonate something you emit a wave signature which is "in sync" with the wave signature of the material you are working with.
- The application of a constant resonant frequency to a material intensifies and reinforces the standing frequency of that material.

# Resonance In Action



- “Gallopín’ Gertie” the Tacoma Narrows Bridge
- November 7, 1940
- **Constant** 40 mph windspeed

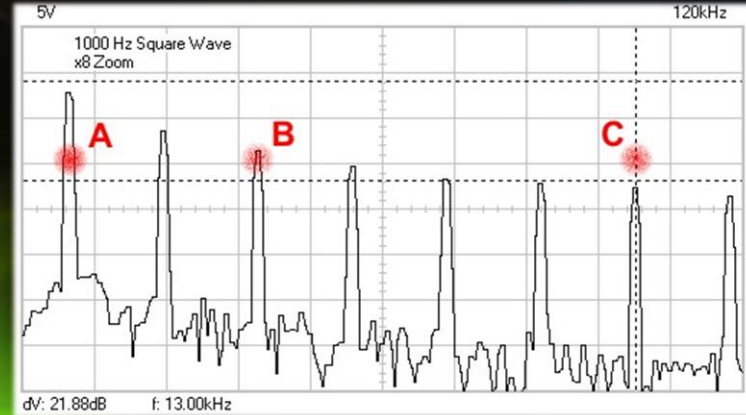
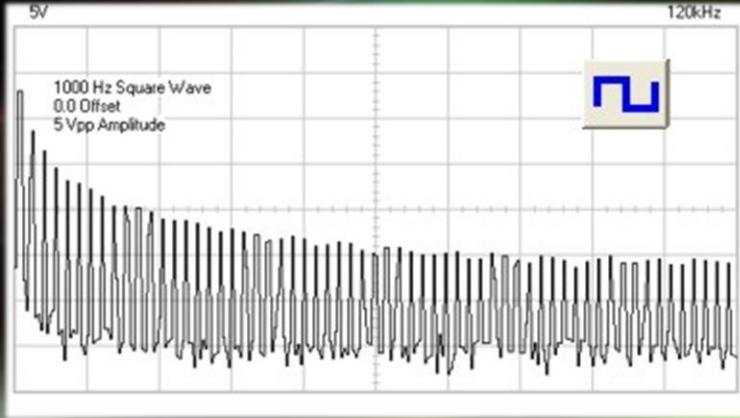
# Destructive Resonance



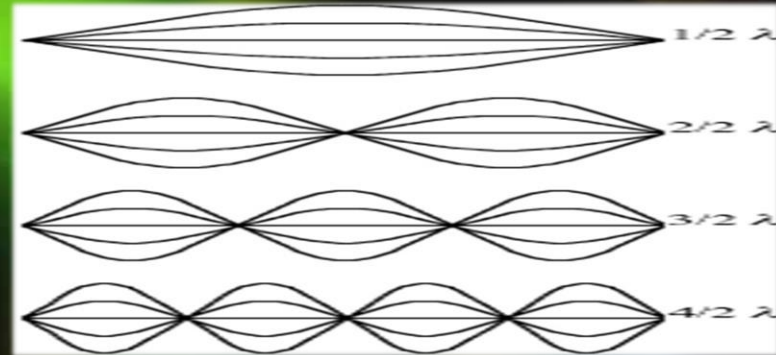
- Energy is coupled with another object
- Secondary object continues to absorb energy and enhanced movement continues with ever increasing energy absorption
- Structural failure results when energy/movement exceeds recipients capabilities



# Spectral Emission Harmonics

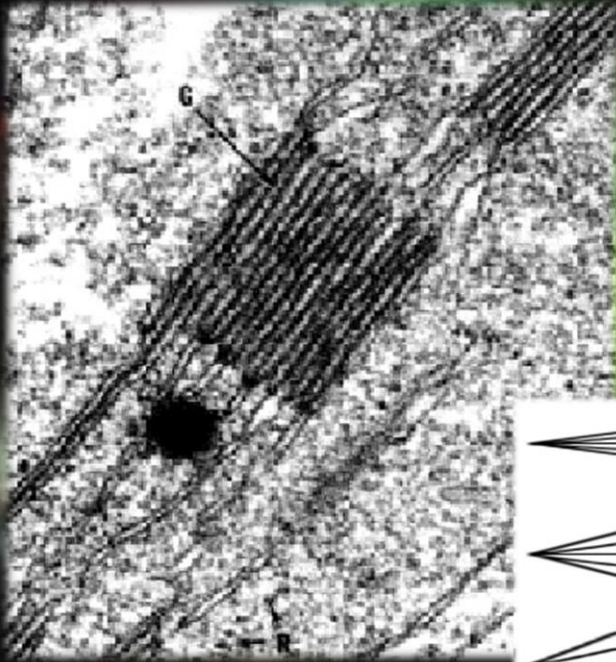


- The use of Square and certain modified waveforms allow for harmonics which can be clearly seen across the spectrum

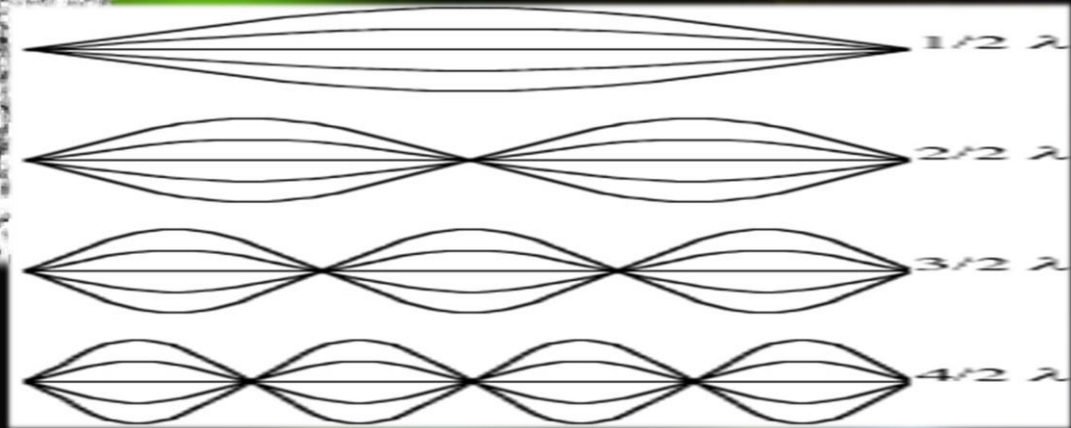


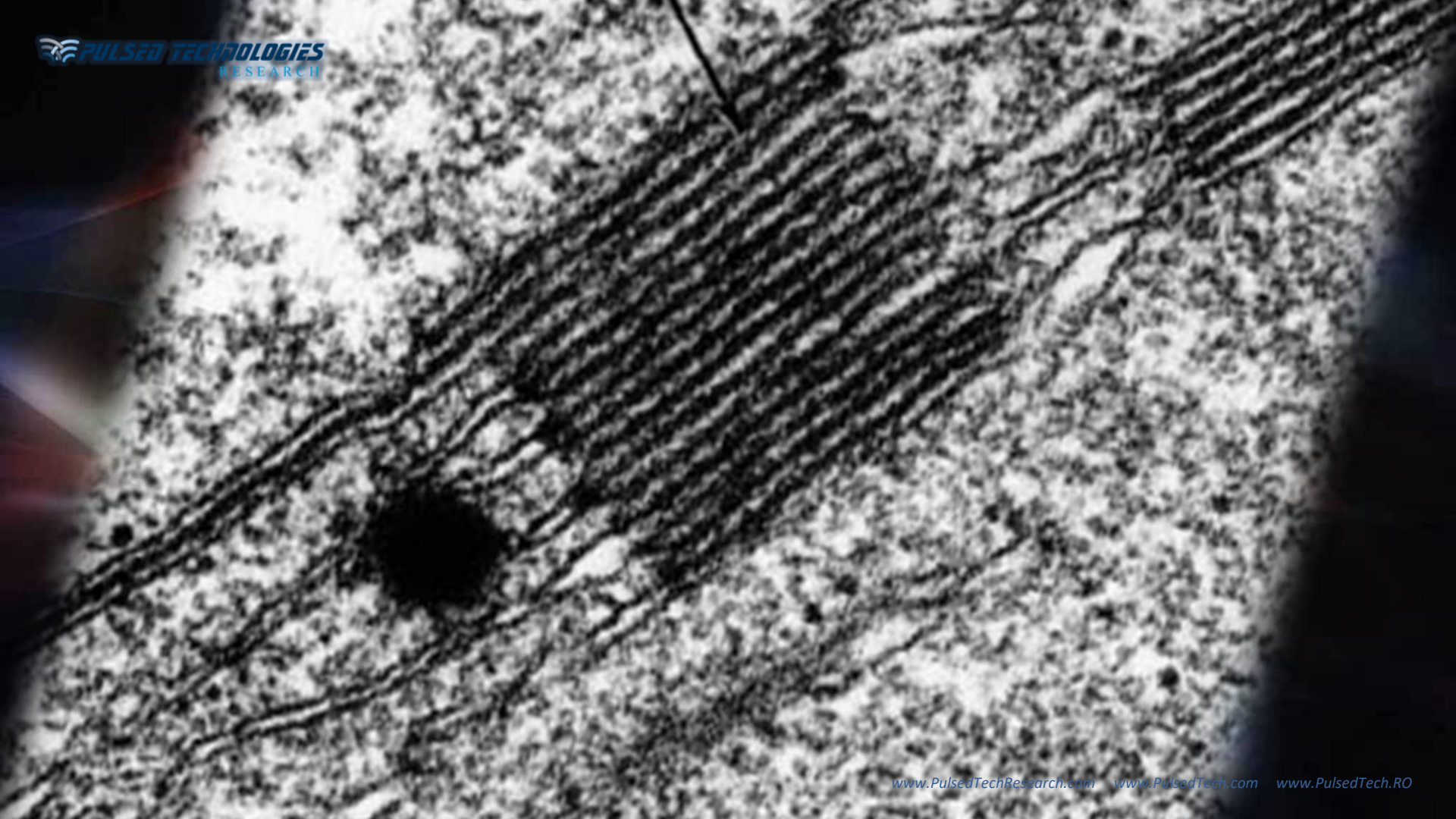


# Resonance/Wavelength

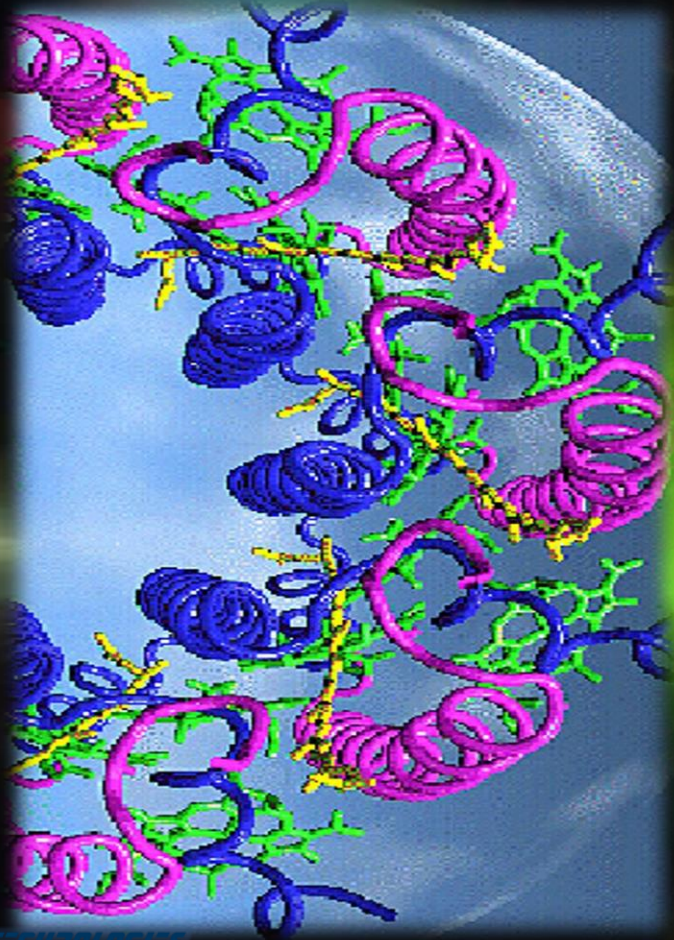


- Physical match or resonance of wavelength is where transfer of energy most efficiently takes place







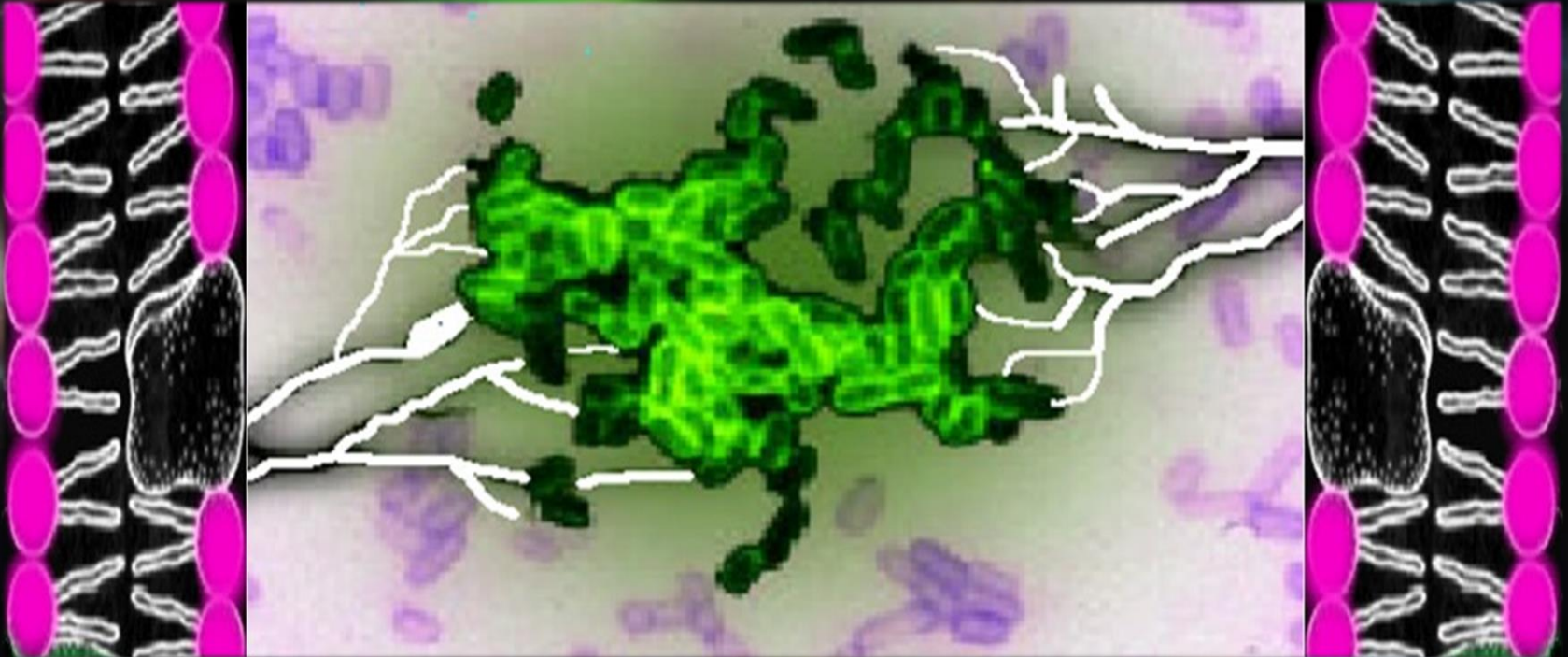


# Molecular Antennas

- In the body, every protein and nucleic acid has a specific length and molecular weight, both of these physical aspects can be used to calculate the resonant frequency of a molecule.
- The length of an object can determine the resonant frequency of the object because of its correlation with wavelength.

# Membrane Electrical Charge

- Electrical Potential, (voltage), is stored in the cell membrane and certain internal structures





# Jimmie L. Holman

- Those who choose to look at Rife ONLY in the destructive mechanisms that have typically become associated with the technology, ... are probably missing out on about 98% of the capabilities the science has to offer.

*Jimmie Holman*  
*Pulsed Technologies*



# Modis Operandi

- Destructive
- Constructive
- Supplemental
- Combinations

# Cancer Scenerio

- Before Exposure



- 24 hrs After Exposure



- After 2<sup>nd</sup> Exposure  
24 hrs Later

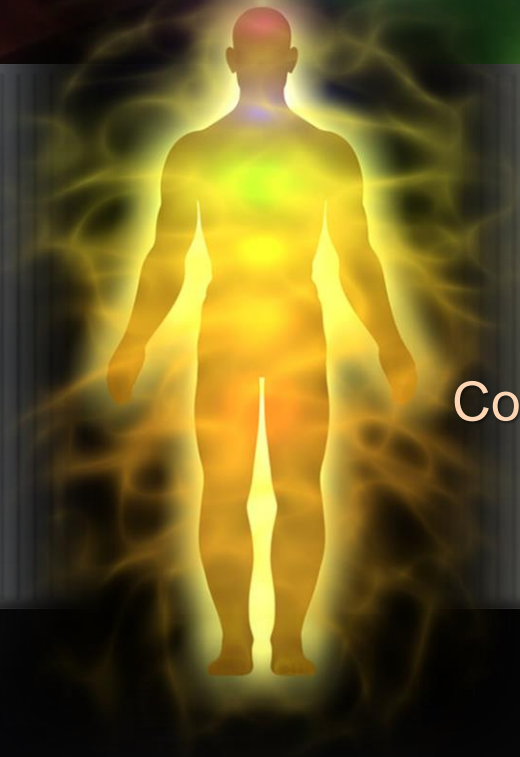
**Cancer (before exposure)**





**Cancer (24 hrs after exposure)**

**Cancer (24 hrs after 2<sup>nd</sup> exposure)**



# Energy Fields

Coherent Forms and the Biological Templates



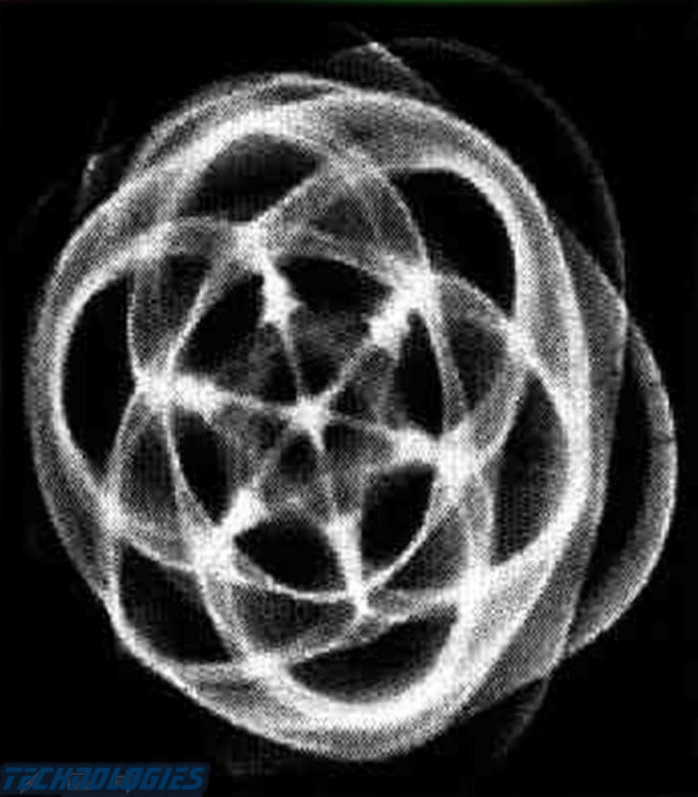
# Wave Interaction

- According to quantum theory, an entity whether it is an atom or a molecule simultaneously possesses both localized (particle) and distributed (wave) properties.
- When two waves come together they interact with each other producing an interference pattern, this is a pattern capable of holding information.



# Coherent Forms

- Physical forms are representative of the energy fields present. Energy is stored in coherent forms



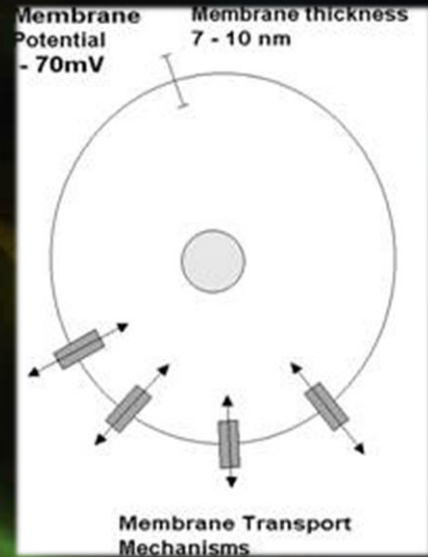
# 3 Underlying Themes



- Endogenous electrical activity of the body can be used as **indicator of a particular pathological process without attributing a cause/effect relationship**. [Edelberg 1971,1977 Marino et al. 1989, Woodrough et al 1975]
- Endogeneous electrical activity of the body acts as an initiator, **control mechanism or modulator of the post embryonic growth & healing processes**. [Becker et al. 1962, Becker 1967, 1974, Borgens, Foulds and Barker 1983, Kinkle et al. 1981, Illingworth and Barker 1980, Patel and Poo 1982]
- **By enhancing the endogeneous electrical activity of damaged tissues, the growth and/or healing processes can be stimulated or enhanced** [Brighton et al 1981, Brown et al. 1988, Carley and Wainapel 1985, Kincaid 1989, Kloth and Feedar 1988, Reed, Rowley et al. 1974, Wheeler et al. 1969]

# The Bioelectric Cell

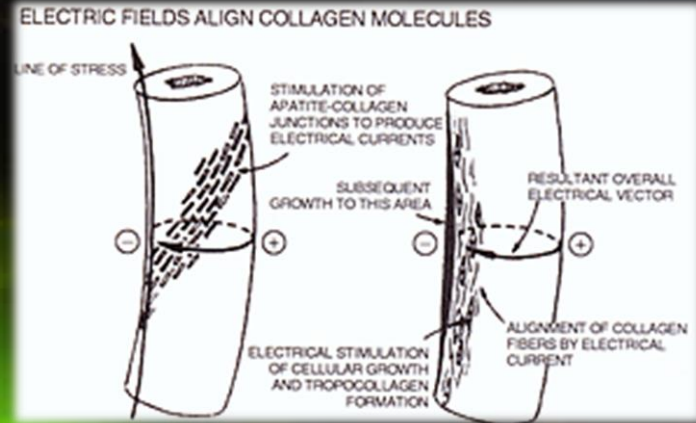
- Every Living cell has a membrane potential, (appx -70mV) with the inside of the cell being **NEGATIVE** relative to its external **POSITIVE** surface.
- Cell membrane potential is strongly linked to cell membrane **TRANSPORT MECHANISMS**
- Most of the material that crosses the cell membrane is ionic (**CHARGED** movement of **CHARGED PARTICLES**)
- **Movement of CHARGED PARTICLES influences MEMBRANE POTENTIAL**
- **Change of MEMBRANE POTENTIAL influences ion/CHARGED PARTICLE MOVEMENT**





# Endogenous Bioelectricity

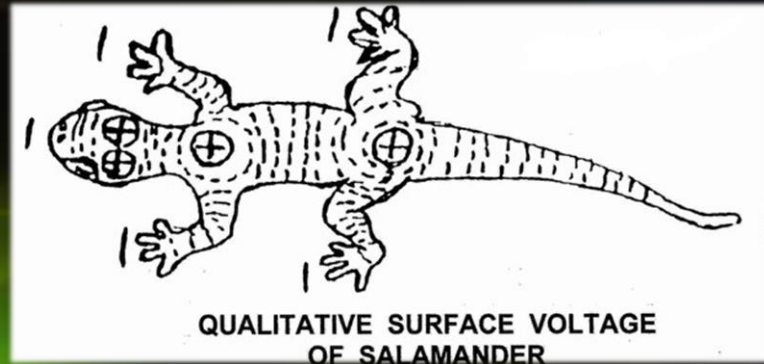
- **TISSUE BATTERIES** and other tissues found in bone, skin, muscle, nerve and produce a potential difference (**VOLTAGE**) between parts of the tissue.
- This voltage is **DIFFERENT** in injured and non-injured situations
- **BONE** exhibits piezoelectric potentials, streaming potentials, and steady potentials [Fukada 1984, Pollack et al. 1984, Friedenberget al. 1973, Borgens 1984, Chakkalakal et al. 1998]
- **SKIN** responses to physical and psychological stimulation and injury [Barker et al. 1982, Edelberg 1968, Foulds and Barker 1983, Christi and Venables 1971, Millington and Wilkinson 1983, Vanable 1989]
- **MUSCLE** [Betz et al. 1984, 1986]
- **COLLAGENOUS BASED TISSUES** [Anderson and Eriksson 1968, Athenstaedt 1970]





# Endogenous Bioelectricity

- **GROWING & DEVELOPING TISSUES** exhibit numerous and interesting bioelectric activities
- **Amphibian Limb Regeneration** [Borgens 1982, Becker 1961, Sissen 1983]
- **Mammalian Partial Limb Regeneration** [Neufeld 1989, Becker 1972]
- **Rabbit Ear Regeneration** [Chang and Snellen 1982, Goss 1981]
- **Fingertip Amputation and Regeneration in children** [Illingworth and Barker 1980]
- **Embryology and Morphogenesis** [Robinson 1989, Jaffe 1981, 1986, Jaffe and Nuccitelli 1977, Nuccitelli and Erickson 1983]



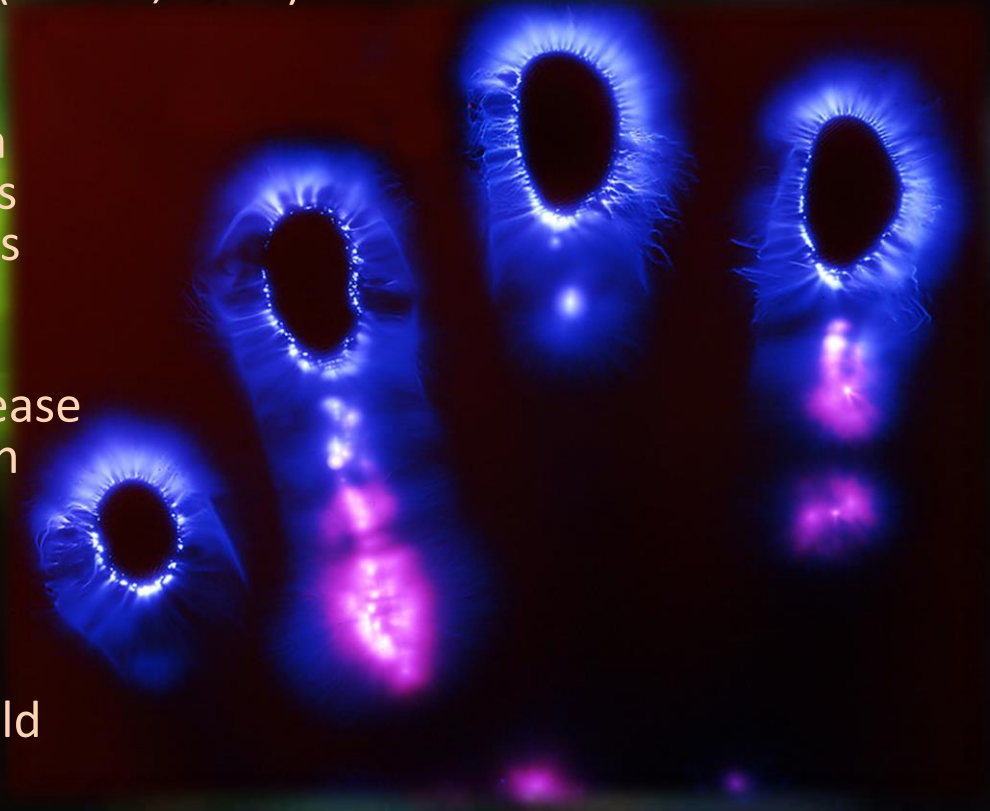
# Longevity, Aging & Healing

- In both aging (Barker, 1983) and degenerative conditions cells **lose their membrane charge**. Photo and **frequency therapy** has the ability **recharges cell membranes**.
- The cells can then use this energy in many ways; but most especially in **production of ATP**, the “energy currency” of the living tissue.
- In restoring the charge of the cells that are functioning sub-optimally, the body can be moved naturally towards a state of health, which is manifested by faster tissue regeneration (Vodovnik, 1992).



# The Human Template

- According to Robert Becker the body has a DC electric field (Becker, 1990).
- According to Valerie Hunt, changes occur in the human energy field prior to changes occurring in physical systems (Hunt, 1989).
- One could theorize that disease and healing manifests first in the energy matrix and then the physical matrix
- Therefore reorganization of damaged energy matrix could facilitate healing.





# Regeneration into the Matrix





# Continued Regeneration



# Successful Regeneration

- Successful complete natural rebuilding into the human matrix



# Dr. Konstantin Korotkov

- Nowhere is this human energetic field (the blueprint) better shown today than with the GDV work of Dr. Korotkov



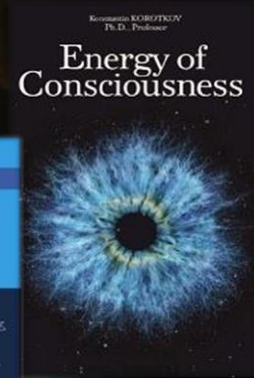
Electrophotonic analysis  
GDV Bioelectrography Research

Ekaterina Jakovleva, PhD  
Konstantin Korotkov, PhD

2013

Konstantin KOROTKOV

ENERGY FIELDS  
ELECTROPHOTONIC  
ANALYSIS  
IN HUMANS AND NATURE





# pH

Acidity / Alkalinity



# pH

- It is ironic most folks are more concerned and knowledgeable about the pH of their swimming pool or home aquarium than their own body.



# Chemical vs. Electrical System



- Conventional medicine approaches the body as a **BioCHEMICAL** system rather than a system controlled by a **ElectroCHEMICAL** processes
- Voltage/current    pH
- Measurement of pH is really an indicator of cellular voltage/current

# pH (Potential Hydrogen) Basics

- Water ( $\text{H}_2\text{O}$ ) ionizes into:  
Hydrogen ( $\text{H}^+$ ) ions and Hydroxyl ( $\text{OH}^-$ ) ions
- **ACIDIC (<7pH)** – there exist more  $\text{H}^+$  ions than  $\text{OH}^-$  ions  
 $\text{H}^+$  is an **ELECTRON STEALER**
- **ALKALINE (>7pH)** – there exist more  $\text{OH}^-$  ions than  $\text{H}^+$  ions  
 $\text{OH}^-$  is an **ELECTRON DONOR**
- A pH of 7.0 is **NEUTRAL** (neither acid or base/alkaline and represents a voltage potential of 0)
- Chronic disease is almost always associated with ACIDIC pH
- Health is associated with a slightly ALKALINE pH

# pH Scale Examples

pH = 0
pH = 1
pH = 2
pH = 3
pH = 4
pH = 5
pH = 6
pH = 7
pH = 8
pH = 9
pH = 10
pH = 11
pH = 12
pH = 13
pH = 14

- 0 - Battery Acid
- 1 - Hydrofluoric Acid (Stomach Lining)
- 2 - Lemon Juice. Gastric Acid, Vinegar
- 3 - Grapefruit, Orange Juice, Sodas
- 4 - Tomato Juice, Acid Rain
- 5 - Softened Drinking Water, Black Coffee
- 6 - Urine, Saliva
- 7 - "Pure" water
- 8 - Sea Water
- 9 - Baking Soda
- 10 - Salt Lake, Milk of Magnesia
- 11 - Ammonia Solution
- 12 - Soapy Water
- 13 - Bleaches, Oven Cleaner
- 14 - Liquid Drain Cleaner



# pH Scale – Examples of Hydrogen Ions Compared to Distilled Water

pH = 0	10,000,000
pH = 1	1,000,000
pH = 2	100,000
pH = 3	10,000
pH = 4	1,000
pH = 5	100
pH = 6	10
pH = 7	1 (neutral)
pH = 8	1/10
pH = 9	1/100
pH = 10	1/1,000
pH = 11	1/10,000
pH = 12	1/100,000
pH = 13	1/1,000,000
pH = 14	1/10,000,000

- pH = potential Hydrogen Ions
- pH is largely an ELECTRICITY related measurement



*pH*  
ACID

NEUTRAL

BASE

*Potential(v)*  
+400mV

0mV

-400mV

*Characteristics*  
Electron STEALER  
Destructive  
Free Radical  
(Spins Left)

# pH Scale Characteristics

(Spins Right)  
Antioxidant  
Constructive  
Electron DONOR



# Voltage

Electrical Potential

# Voltage / pH / Pain

- Alteration of pH toward the **Acidic** is interpreted by the brain as **PAIN**
- **Correcting** the pH **CURES** the PAIN
- Conventional Drugs simply **BLOCK** the pain “signal” (the cause still exists)\*
- Chronic pain is always associated with a **loss of voltage** (acidic pH) [Tennant]

*\* NOTE: Typical opiates indeed block the perception of pain, typically side effects include confusion, sedation, nausea, constipation, addiction, and suspected suppression of immune system and other biological processes.*



# Voltage – Healing - Disease

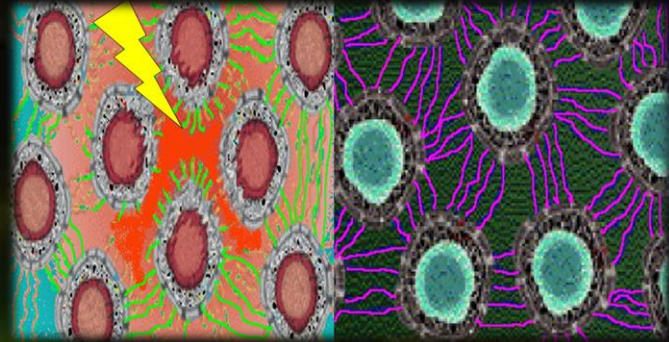
- Cells in the body typically run at about -22 (to -30) mV
- During repair, voltage is increased to -50 mV until repair is accomplished.
- “Problems occur when the cell runs out of Voltage before healing is accomplished”
- Metabolic cellular functions simply don't function well when the cell is in a low voltage state.
- At +30mV, Damage to DNA and production of tumors occur



*IMPORTANT NOTE: Voltage reference source: Dr. Jerry Tennant, M.D., Healing Is Voltage, p3.  
The quantitative values supplied here are for relative concept only as specific values contradict accurately measured systems given elsewhere in this presentation*

# Endogenous Bioelectricity

- **INJURED TISSUES** reported to be electrically active, and this appears to be more than an epiphenomenon.
- Origin of the injury potential remains debatable [Nordenstrom 1983, Thakor and Webster 1978, Becker 1967, 1974]
- Tissues which have demonstrable electrical changes on injury include:
  - **SKIN** [Barker et al. 1982, Foulds and Barker 1983, Jaffe and Venable 1984, Venable 1989]
  - **BONE** [Friedenberg et al. 1973, Lokietek et al. 1974, Chakkalal et al. 1988, Borgens 1984]
  - **MUSCLE** [Lokietek et al. 1974, Betz et al. 1984]
  - **NERVE** [Shibib et al. 1988a,b, Borgens and McCaig 1989]
  - **BLOOD VESSELS** [Sawyer et al. 1953]
  - **ULCERS & OTHER SKIN WOUNDS** appear to have electrical links [Carley and Wainapel 1985, Rowley 1985, Griffin et al. 1991, Kolth and Feedar 1988, Reed 1988]

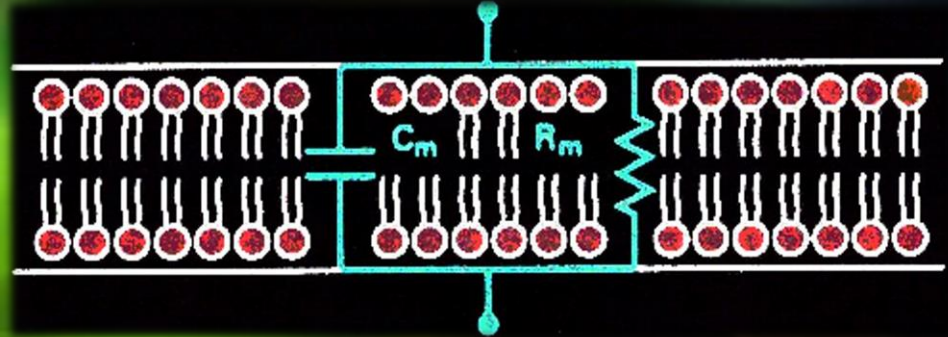


# Fundamental Philosophy

- We don't get well by making defective cells work
- We get well by making **NEW cells work correctly**
- Pharmaceuticals are not needed to make new cells
- Pharmaceuticals may **buy time** for the body to repair
- The key to solving chronic disease is to **make the cells work and/or work better**
- The cells **MUST have the needed materials** (nutrients, fats, proteins) available for use
- The cells **MUST have the needed energy** (electrical charge) to power the metabolic functions

# “Charging” of Cell Membranes

- Multi-frequency delivery systems provide a range of electrical frequencies that will allow cells and their molecular components to match impedances and absorb energy at their resonate frequency.
- When energy is absorbed in the membrane the membrane potential will increase, which helps activate cellular mechanisms.





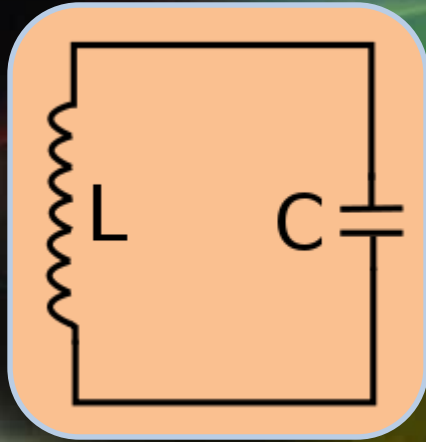
# Ultra-Short High Voltage Pulses



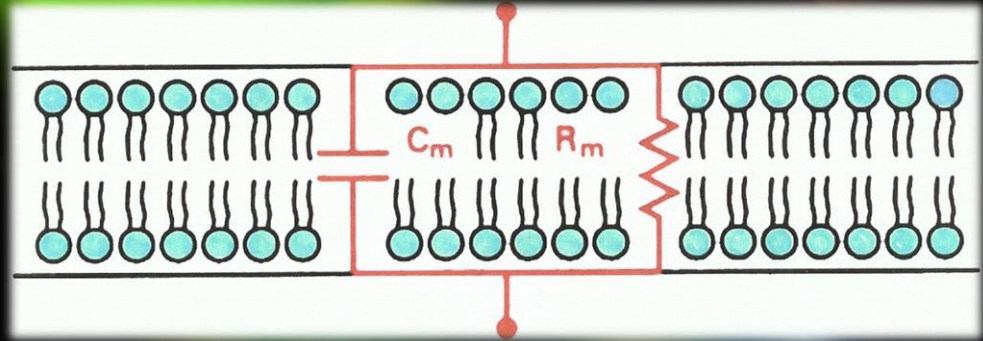
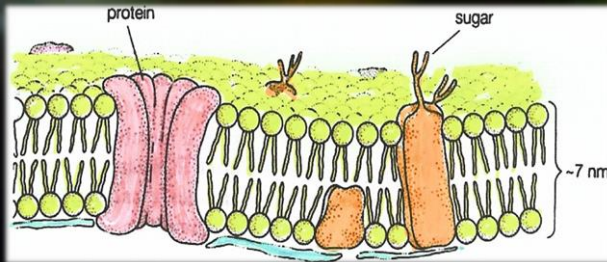
- Ultrashort Pulses “slip past” the cell membrane to deliver to internal structures.



# Tuned (LC) Circuit - Tesla

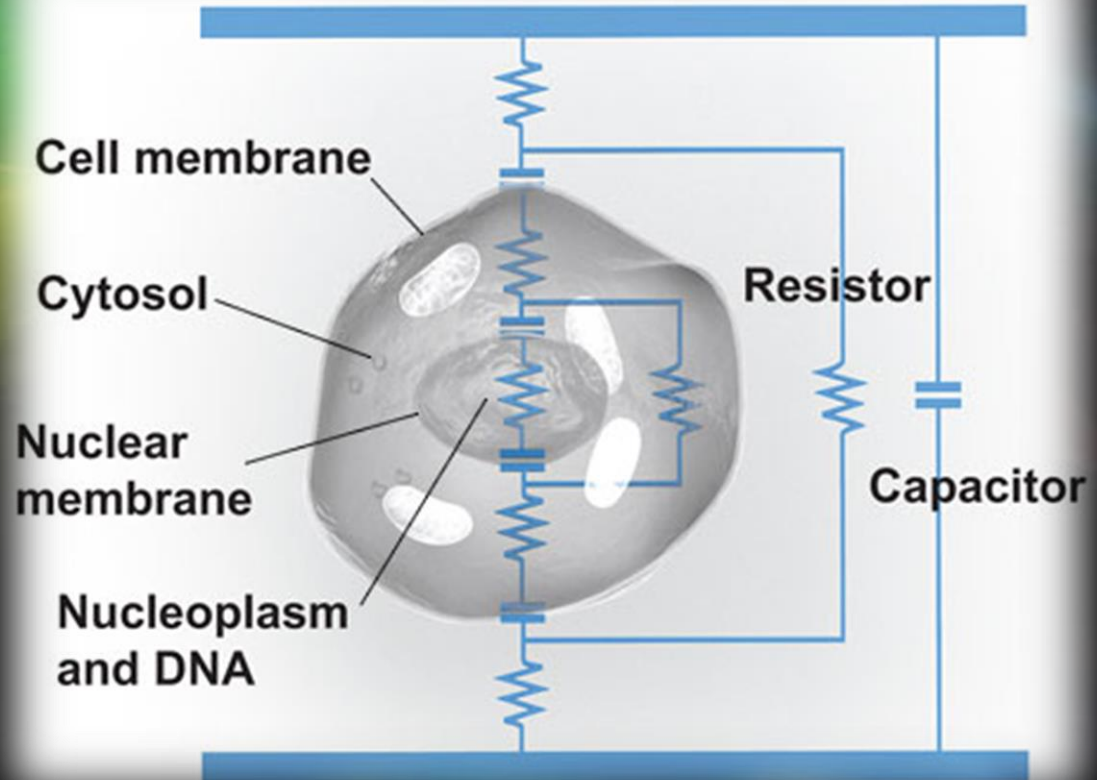


- Parallel Tuned Circuits are used in radio, TV, and other electronics to couple resonant energy from one circuit to another in transmitters and receivers.
- The cell membrane and peripheral cytoskeleton also uses this same system to couple energy from cell to cell and into the cell



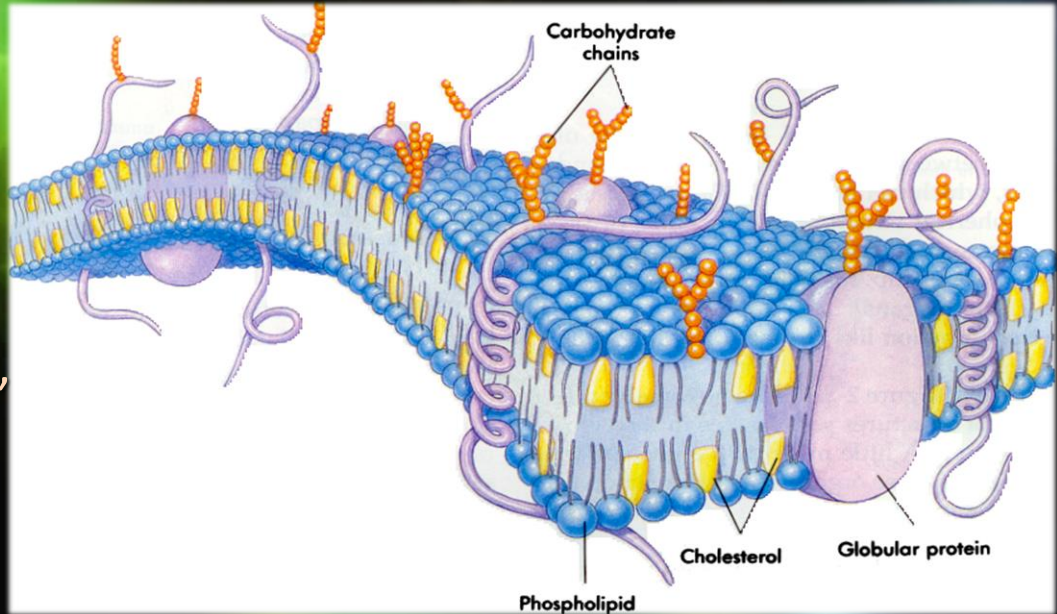
# Equivalent Cellular Electronics

- Membrane & Organelles act like **CAPACITORS**
- Liquid within the membrane, Cytosol & Nucleoplasm is conductive and resembles **RESISTORS**



# Membrane Electronics

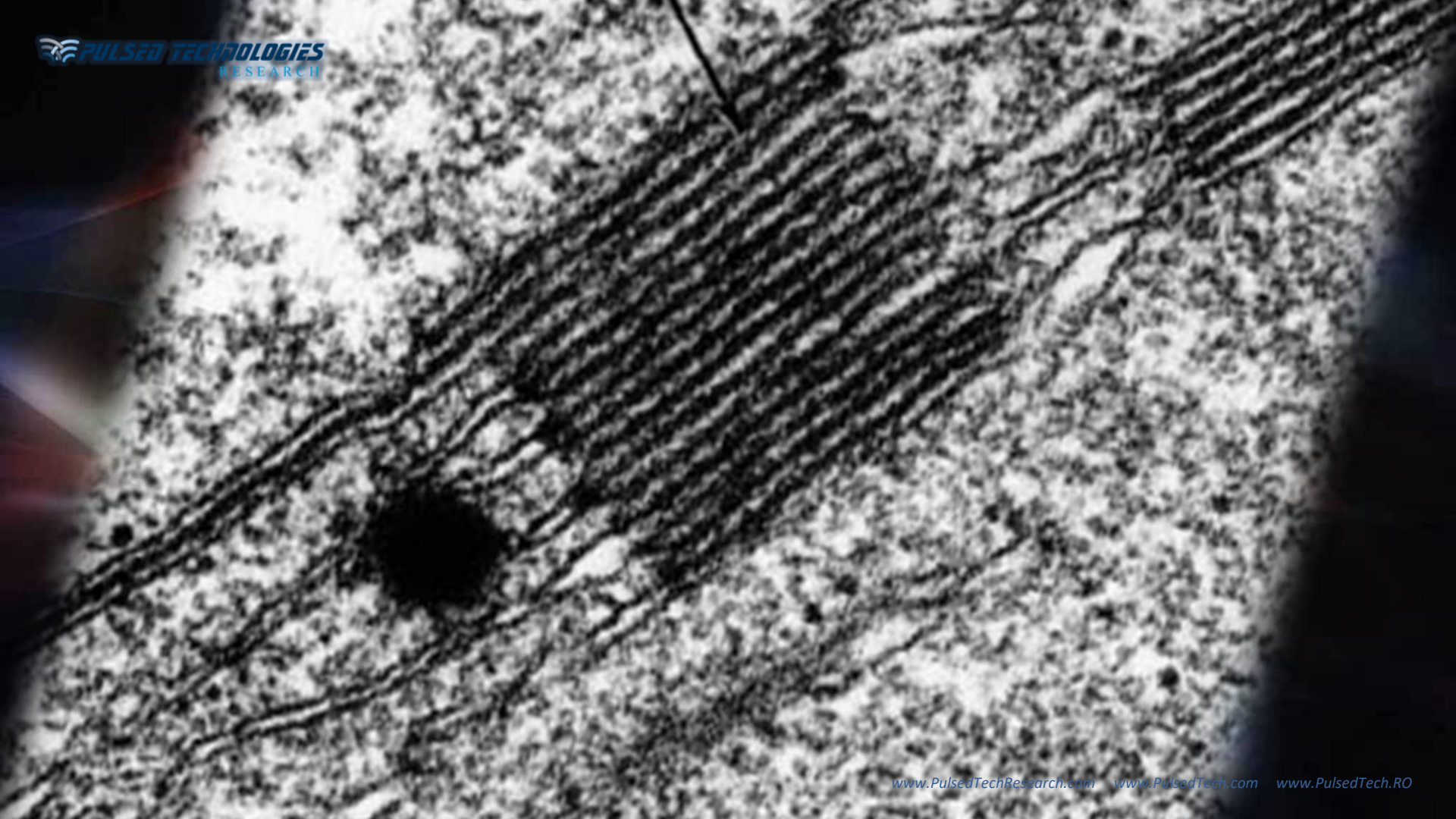
- Diet, presence of essential nutrients and type and level of toxicity play important roles in controlling membrane composition (structure) and **Capacitance function**.
- The cell membrane because of its structure has electrical properties that are involved in power transmission along the membrane and **energy transduction**, which permits certain wavelengths of energy to initiate biological effects.





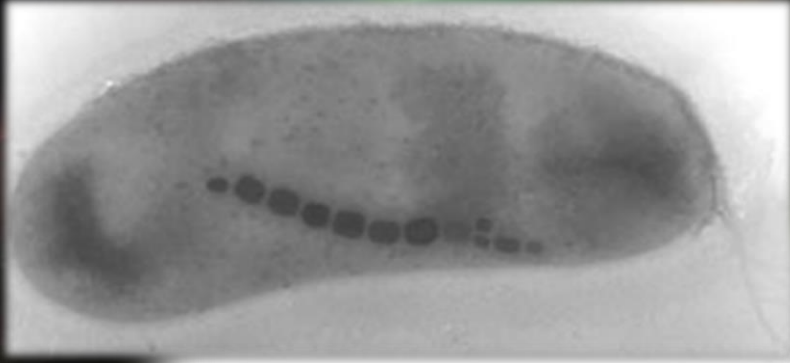
# Cellular Components

- Natural Semiconductors

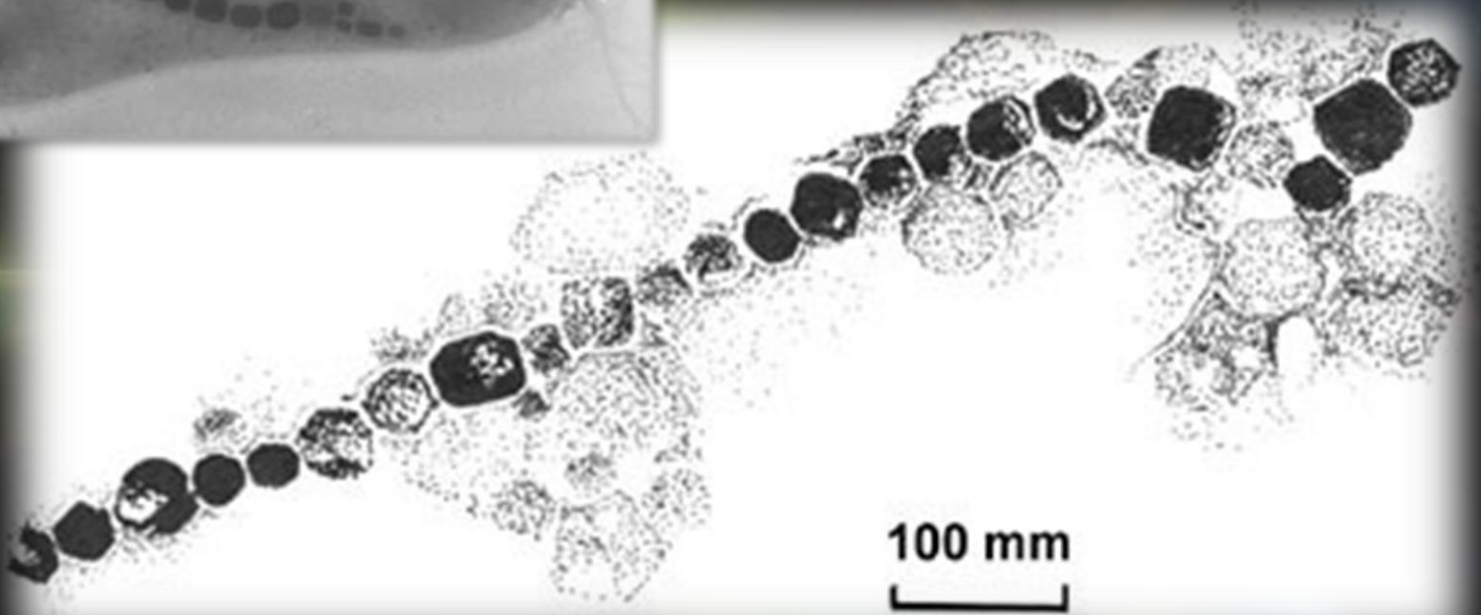




# Targetable Structures

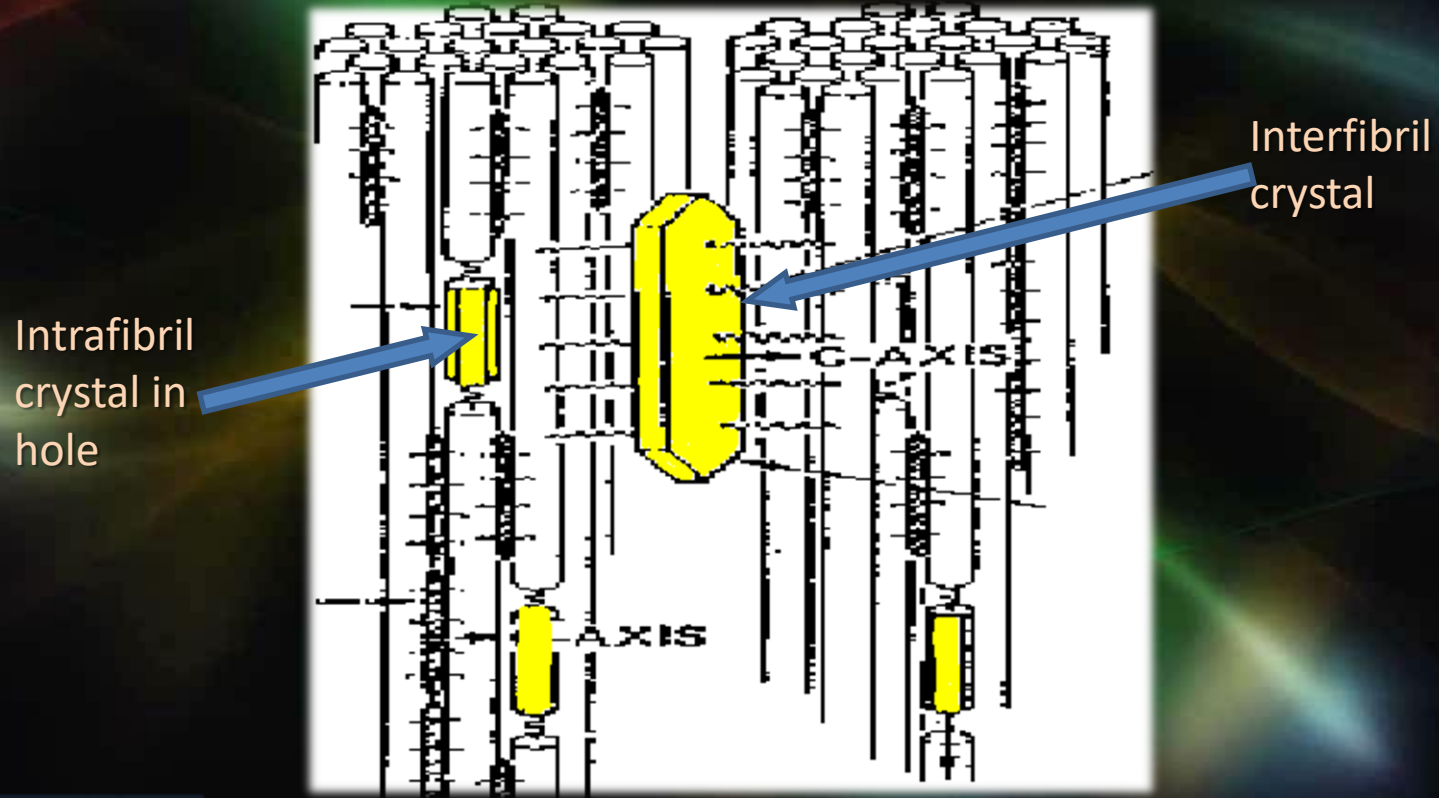


<http://www.affs.org> The Academy for Future Science  
Biomagnetism and Bio-Electromagnetism: The Foundation of Life



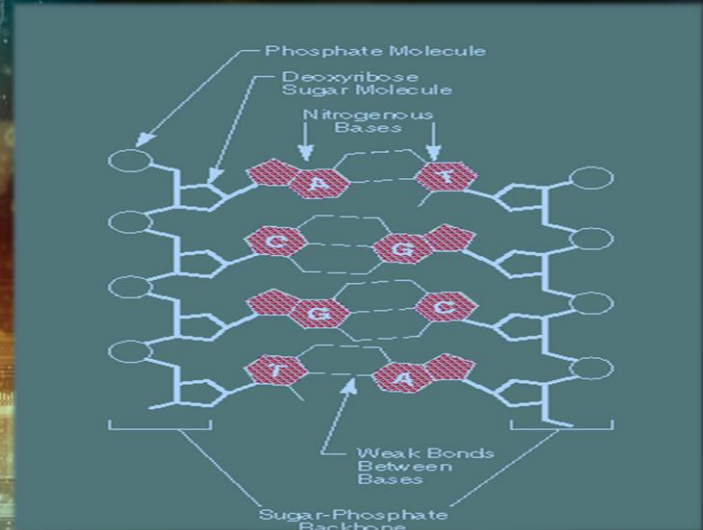
# Fragile Structures

- Bone is a coherent array of hardened “Living Liquid Crystals”



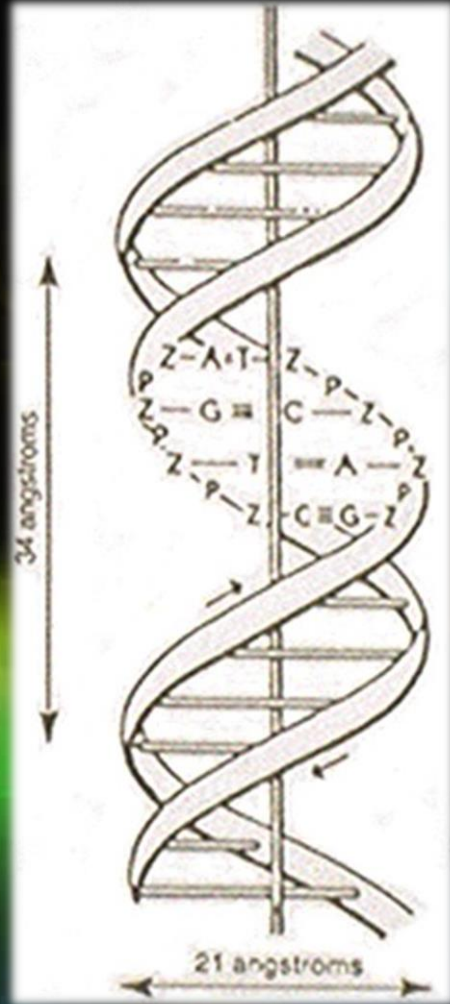
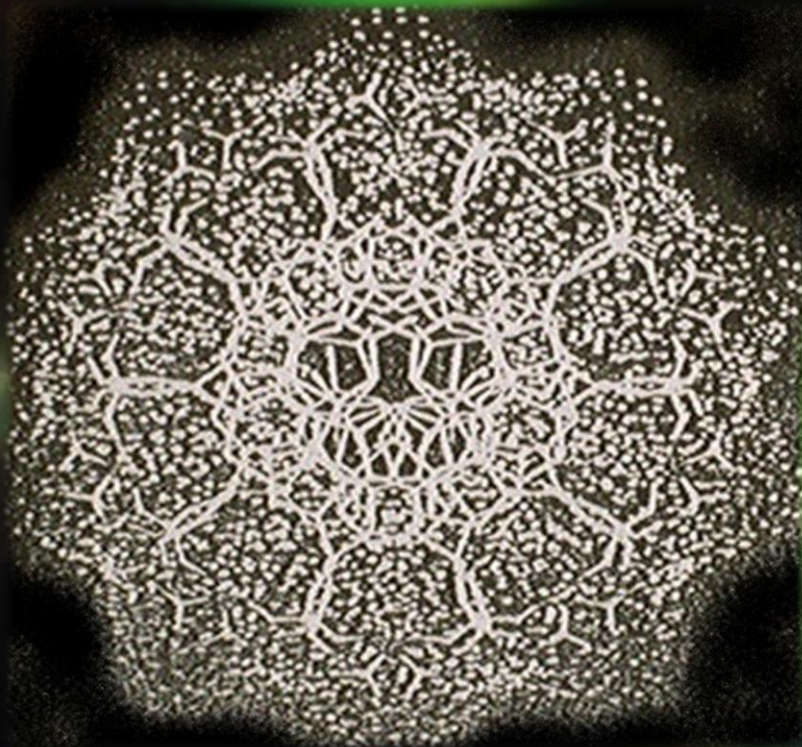


# Targetable Molecular Bonds

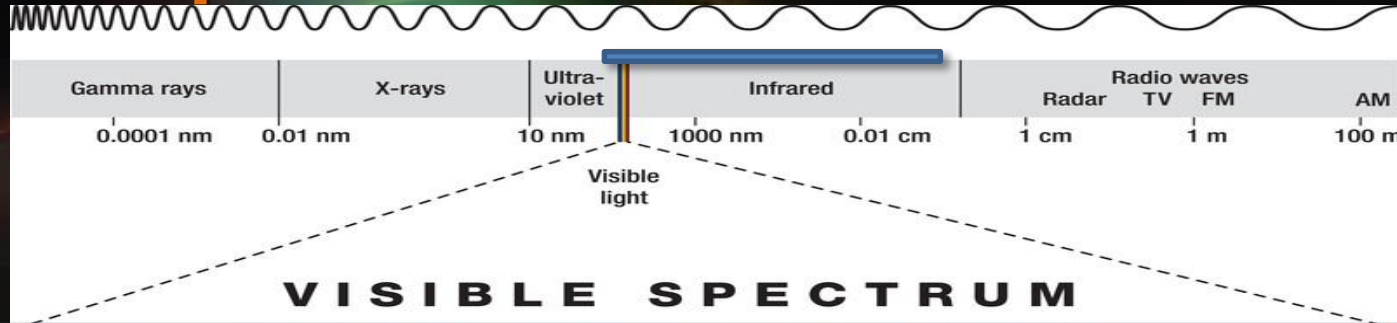


# DNA

- The physical DNA form provides “target-able” structures



# Therapeutic Window



←slightly into uV

**THERAPEUTIC WINDOW**

well into IR →

- Currently known “positive” biological effects fall within a relatively narrow “therapeutic window”
- EM Emissions outside this window can be relatively “devastating” to living bodies and processes



# Therapeutic Effects of Light

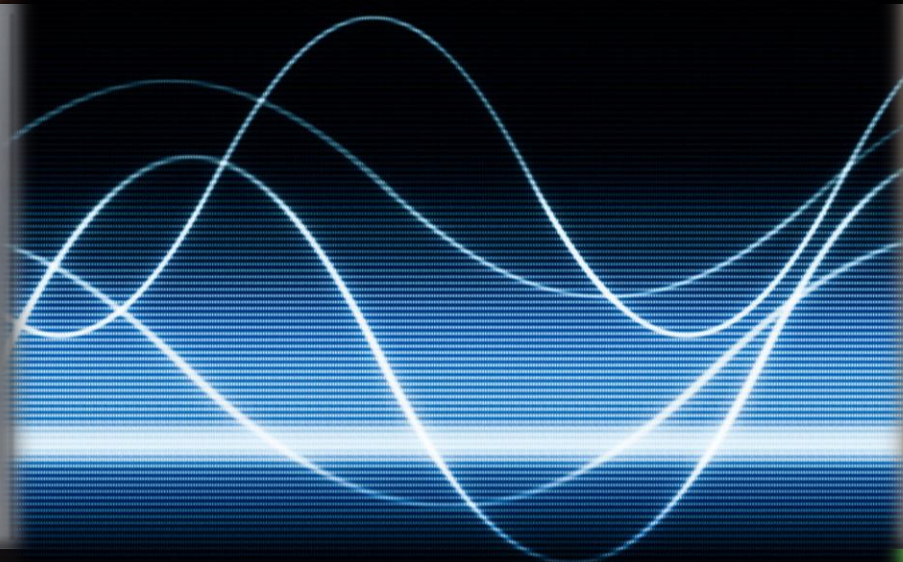
- In 1989 Jeffrey R. Basford, M.D. of the Mayo Clinic's Department of Physical Medicine and Rehabilitation, pointed out that the therapeutic effects of light therapy occurred both with lasers and non-laser light delivery systems. It is the basic properties of certain wavelengths of light that creates the effects (Basford, 1989).
- Wave-length dependent photobiological reactions that are well recognized and scientifically proven include: photosynthesis, vision, treatment of neonatal jaundice, and Vitamin D metabolism.
- **It takes no great leap of imagination to recognize that certain wavelengths of light may also affect healing, pain control and anti-aging**



# Known Effects

- Increase DNA and RNA synthesis
- Stimulate the production of collagen
- Stimulate the production of cellular energy
- Increase the formation of new blood vessels to replace damaged ones
- Increase lymph drainage
- Increase tissue repair by stimulating the activity of repair cells
- Modulate the activity of immune cells

(Baxter, 1997)

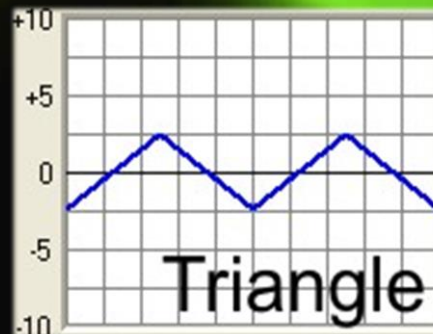
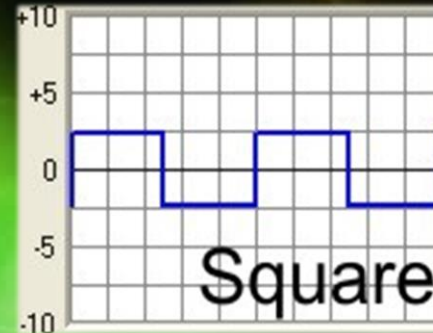
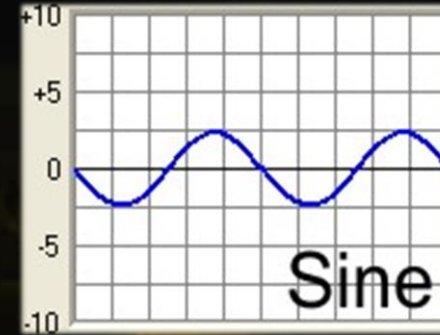


# Waveform

Frequency, Wave Shape  
& Important Characteristics

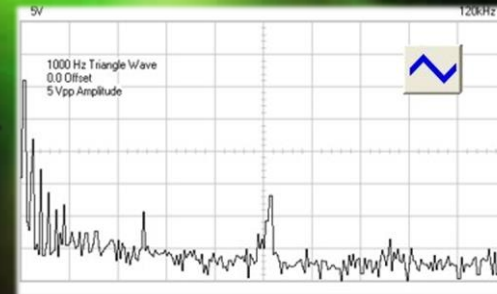
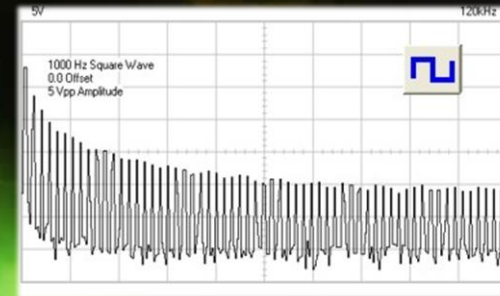
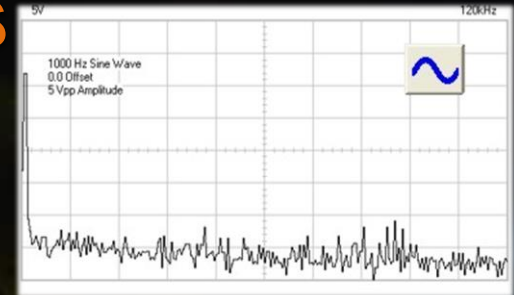
# Basic Waveforms

- SINE Wave
- SQUARE Wave
- TRIANGLE Wave  
(also called “sawtooth”)



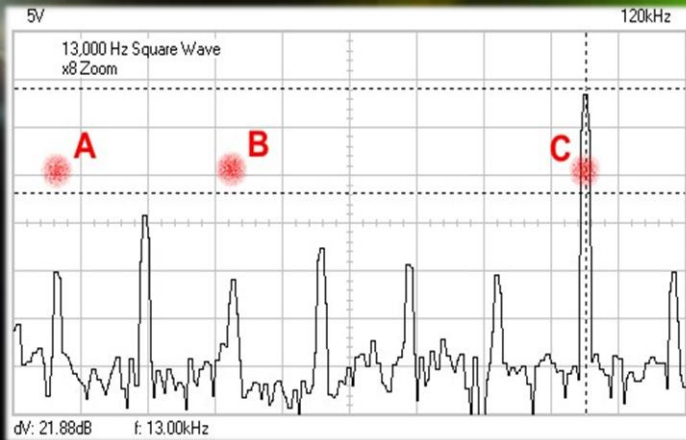
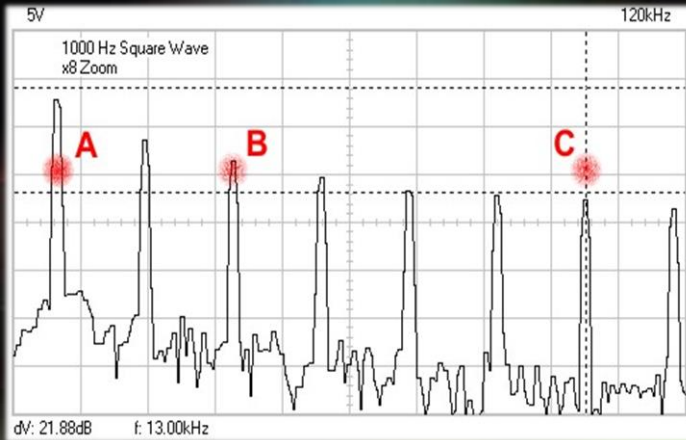
# Harmonic Spectral Analysis

- **Sine Wave** has virtually **NO** harmonics; all power is utilized at “fundamental” frequency
- **Square Wave** has an **ABUNDANCE** of harmonics which diminish in amplitude (power) with each successive harmonic. Power is spread across spectrum
- **Triangle Wave** also contains harmonics but are **limited** to relatively close to the fundamental frequency. These harmonics also reduce in amplitude (quickly). Most power is concentrated near the fundamental frequency



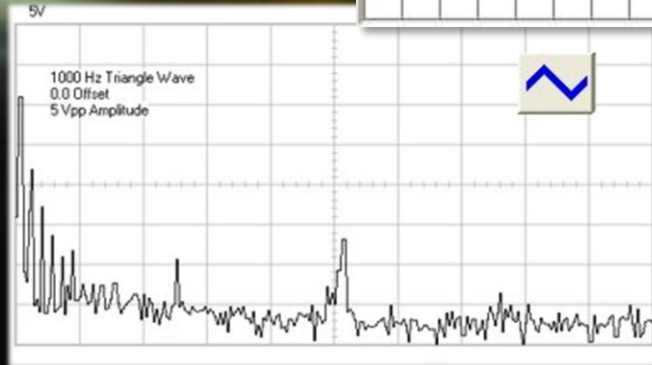
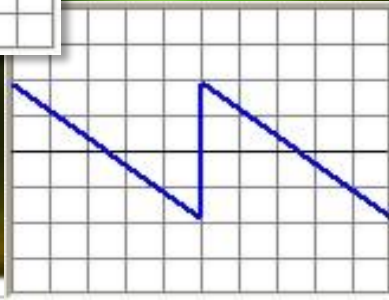
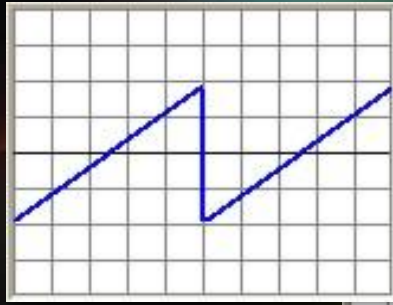


# Harmonic Targeting



- Pathogen Destruction requires BOTH accurate frequency AND substantial amplitude to bring about energy transfer/destruction.
- If the MOR of a pathogen is much higher than the fundamental frequency, the harmonic may not have enough amplitude to bring about change, coupling or destruction
- Pulsed Tech equipment typically has the ability to generate the higher frequencies at full power to bring about the desired effects.

# Modified Triangle



- **Ramp Up** and **Ramp Down** both maintain characteristics of the **Triangle** Waveform previously discussed
- When used with the P3 devices **Ramp Down** has definite advantages for optimizing signal to better drive output

# Waveform Emission Strategy

Relative Visual Tube Output



Bottom Trace - Function Generator Signal Output  
Top Trace - IR Sensed Tube Output



# GOOD Example of a BAD EXAMPLE

I am sure **EVERYONE** has seen some version of these MLM distributed devices

- Market “Targets” the technically ignorant and desperate
- Provides a “mindless” solution
- Constantly changes name to “protect the guilty”
- Has been sold as *Electrospectrum*, *Quantronics*, *ScalarTronics*, *Infinitech*, *ElectroMagic*, *AstroPulse*, *NatureTronics*, *EnergyWellness*, *BioSolutions*, *Global Wellness* (to name a “few”)



*Latest Generation\* is Global Wellness – Wellness Pro  
(pictured on right)*



# Analysis

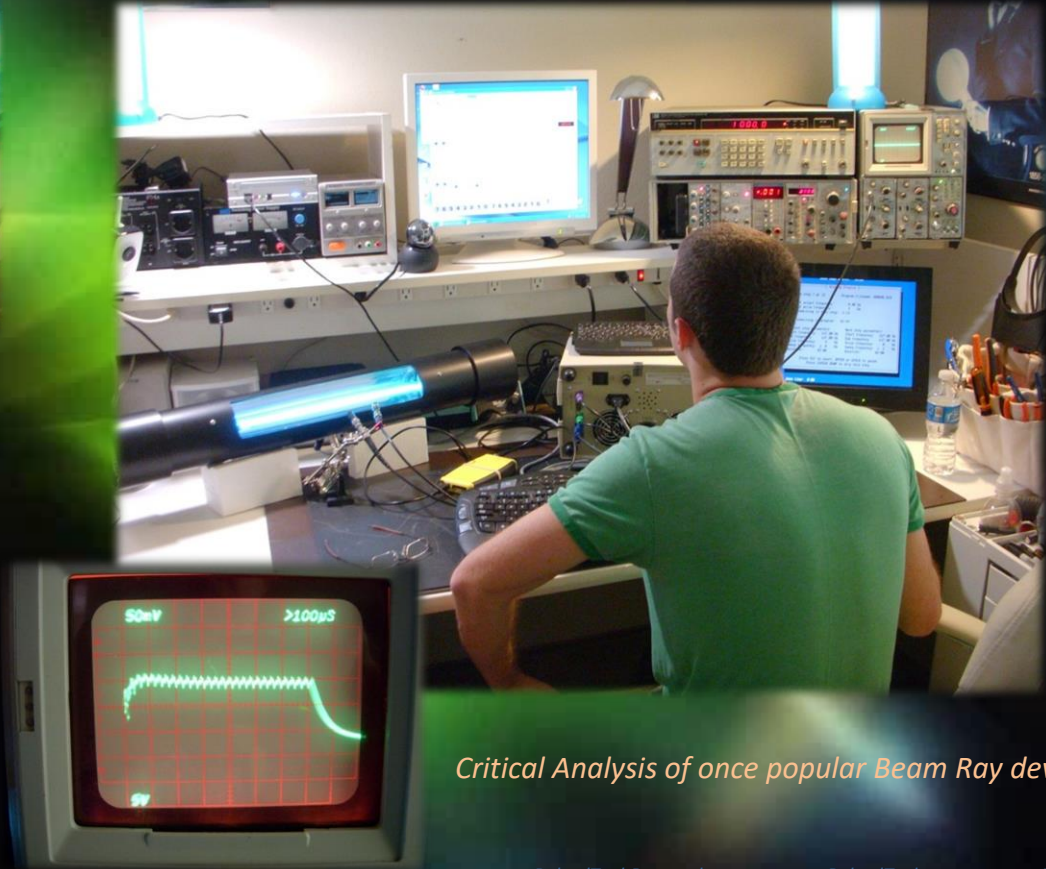
Careful / diligent examination and autopsy:

- **Masked/hidden** frequency library
- **Limited** to 550 frequencies
- **Poor waveform** performance = potential “effectiveness” issues
- **VERY low frequencies**
- Documentation and distribution channels **contaminated** with legal issues and liabilities



# Assessment and Analysis

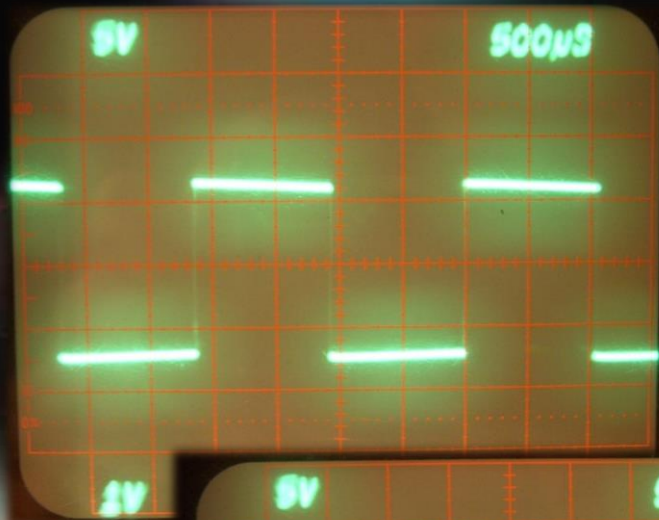
- Diligent and careful technical analysis (and sometimes “autopsy”) of competitors’ products have afforded Pulsed Technologies great insights to superior design.



*Critical Analysis of once popular Beam Ray device*



# REAL Waveform



Without contact  
(above)



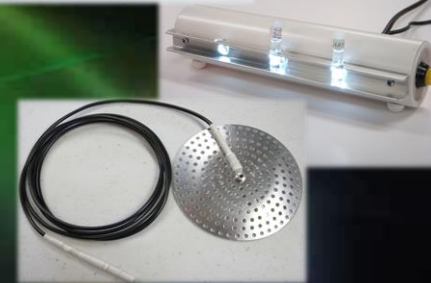
With contact  
(below)

- Poor design does not take into consideration the unique “human” load placed on the frequency device
- **Slow rise time** (lower left) is quickly recognized by body as foreign and “filtered out” making use pointless!
- **<20μs rise time** is needed to be “ignored” and **utilized** by body



# Instrument Categories

- **CONTACT:** The PFG series devices represent the heart of all Pulsed Technologies systems and allows for direct electrode contact with subject.
- **RADIANT:** The P3 (Plasma) and PPLED (new generation specialty diodes) devices series allow for untethered, more convenient, extended exposure
- **PROFESSIONAL/HYBRID**
- **SPECIALITY:** Custom accessories for special needs applications.





# P3pro



- The latest generation P3pro, Precision Pulsed Plasma research instruments also have the capability for electrode and iCS accessory attachment.





- The P3 Requires the use of a separate PFG series device for proper operation.
- Required cables are supplied.

- This configuration allows the use of the PFG to be also utilized for other purposes (i.e. “contact method”, production of “imprintable colloidal silver”, etc



# PFG2z

- Precision Function Generator

Also Includes:

- Power Supply
- USB Interface, Electrode & Extension Cables
- Reusable Electrode Pads &
- PFG Lab software





# Current PFG2z Instrument – HER Tech

- Co-Developed for Mid-Eastern Market
- Distributed via H.E.R. Technologies





# iCS Accessory

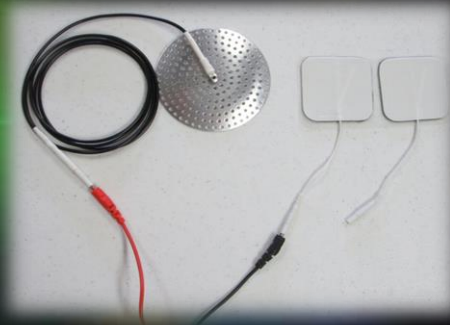
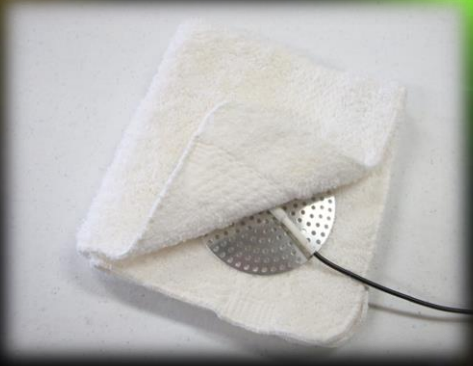


- Extremely High-Grade Colloidal Silver Solution may be generated with any of the Pulsed Technologies PFG or newer P3pro devices and the iCS Accessory.
- iCS solution becomes the “media” for user-defined IMPRINTABILITY of custom protocols.
- Custom Protocol Imprinting occurs only AFTER initial CS solution is manufactured.

# Immerse-able Electrode



- May be used as an electrode in a footbath for excellent large area conductivity
- Or in a moist/wet cloth for localized application to wound area
- Replaces one of the conventional electrodes



# PulsedTech/HER VitaSet Generator



*Helping to restore access to the Earth's  
rhythms for natural healing and mental health*



Dr. Winfried Otto Schumann



Schumann Resonance

# Relationships & Connections

**Electro-Pollution**

Wireless

Smart-Meters

Cell Phones

Wi-Fi

"Dirty" Power



Cancer

Lyme

Alzheimer

Autism

Anti-Oxidants  
/ Free Radical  
Scavengers



Brainwave States



Astronauts/Cosmonauts  
Spacecraft/Spacesuits



VSG

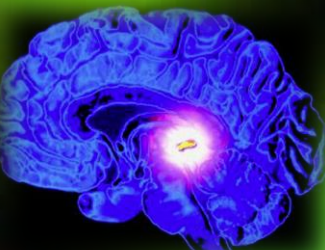


Cellular Energy



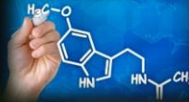
Enzymes

(Capture of Free Energy form  
Oscillating Electric Field)



Pineal Gland

Melatonin

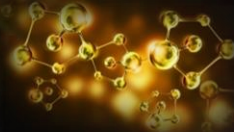


Sleep

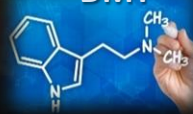
Repair &  
Regeneration



Serotonin &  
Other MM



DMT



Anesthesia (Induced)

**Toxic Foods & Environment**



Dr. Robert O. Becker

Dr. Ralph Gerard

Dr. Olena Bukalo

Dr. Albert Szent-Gyorgyi





# Everyone Needs One or the Other



# VSG



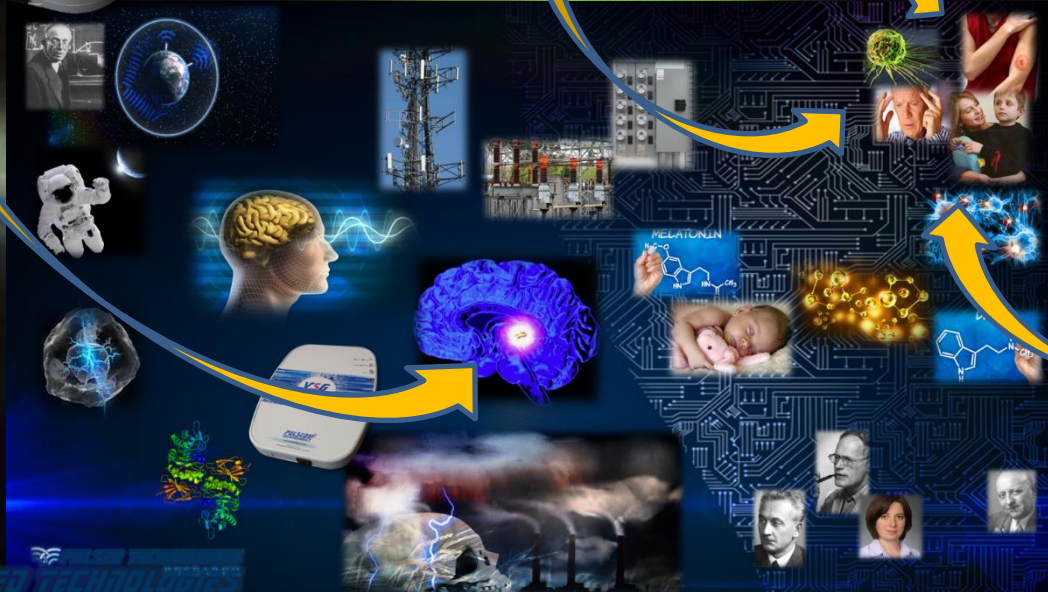
## P3 and P3+



## P3pro



**PFG**



# Or MORE !

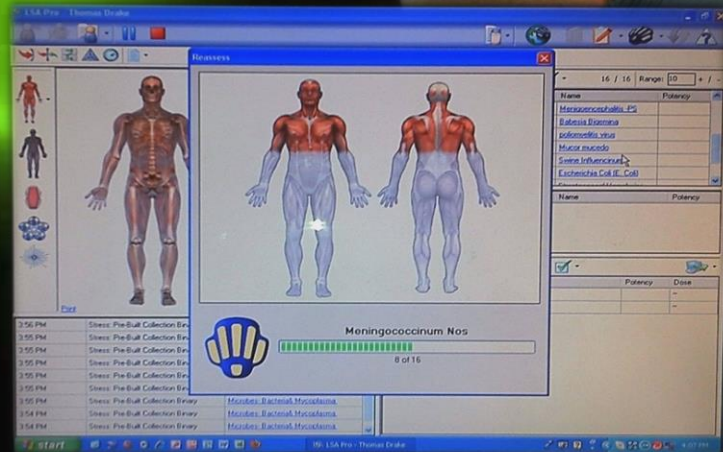


# General Considerations

Pulsed Technologies

# Practitioner Assessment

- Practitioner assessment aids such as the available Zyto system can be instrumental in quickly determining needed “frequency supplementation” and targeting applications or protocols





# Custom Branded Software

**Operation Mode:**  
Contact (PFG)

**Frequency:**  
23958 Hz

**Time left:**  
1:56

**Output Monitor:**  
Waveform: Square  
Offset: 0 Power: 10  
*This is a simulation of the output!*

**Currently Active Session:**  
Support HF

Frequency	Waveform	Offset	Power	Time (s)
23958	Square	0	10	120
24354	Square	0	5	120
28251	Square	0	5	120
29766	Square	0	5	120
32121	Square	0	5	120
32670	Square	0	5	120
36735	Square	0	5	120
38280	Square	0	5	120
44505	Square	0	5	120
44583	Square	0	5	120
45549	Square	0	5	120
45738	Square	0	5	120
54531	Square	0	5	120
56133	Square	0	5	120
56376	Square	0	5	120
57519	Square	0	5	120
58806	Square	0	5	120

**Modified Date:**  
8/9/2011 10:50:52 AM

**Notes:**  
High frequencies for general support

**Authorized Partner:**  
LIVING WELL TODAY INTERNATIONAL  
[www.lwtinternational.com](http://www.lwtinternational.com)  
804.562.8554

**PULSED TECHNOLOGIES**  
[www.PulsedTech.com](http://www.PulsedTech.com)  
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# Practitioner System

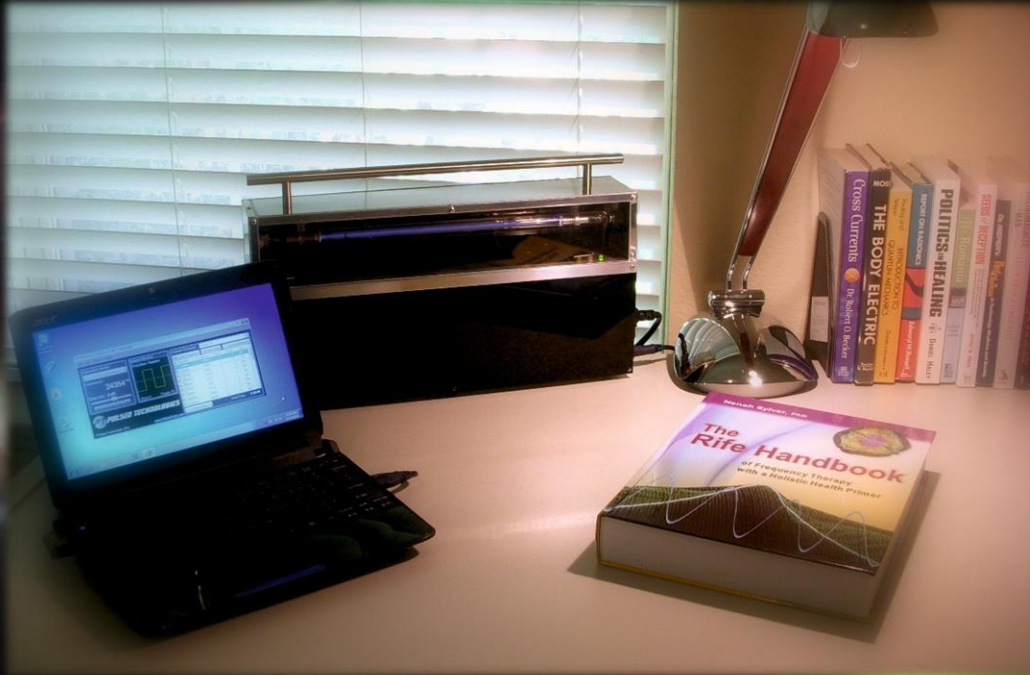
- Remote Support/Control
- Video Calling/Visual Exam
- Default Website
- Practitioners written Instructions and Notes
- Contact Information & Scheduling

# Important Application Notations

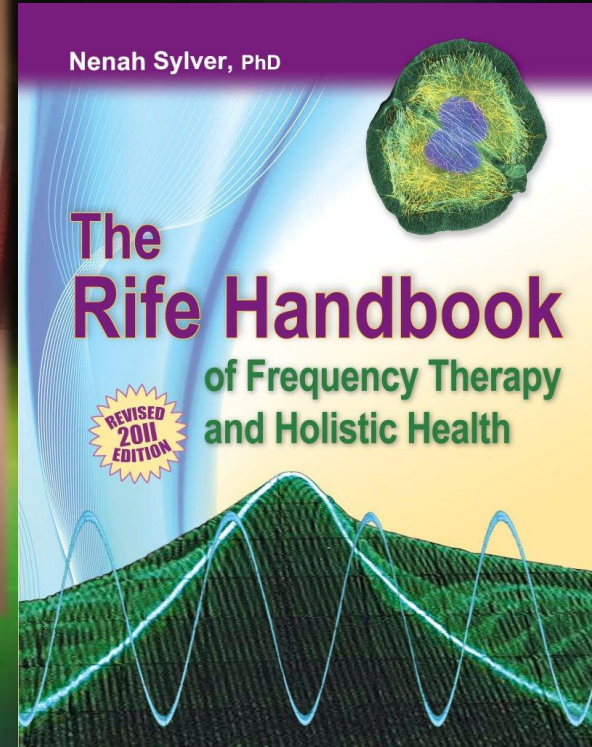
- Most serious client situations cannot be helped with only “occasional/irregular” office visits
- Required daily commitment and regular reporting and/or feedback to practitioner can be performed without office visits or can “red flag” when an office visit is needed.
- Irregular and/or non-consistent use by client can be **DETRIMENTAL** in pathogenic situations stimulating the development of mutations of the pathogenic organisms
- While mutations CAN be, (and often are), addressed within the proprietary protocols, response time is better and more complete when a diligent and consistent protocol is adhered to.
- Practitioner has access to the HISTORY of last 10 session uses of device indicating when/what was used by client.



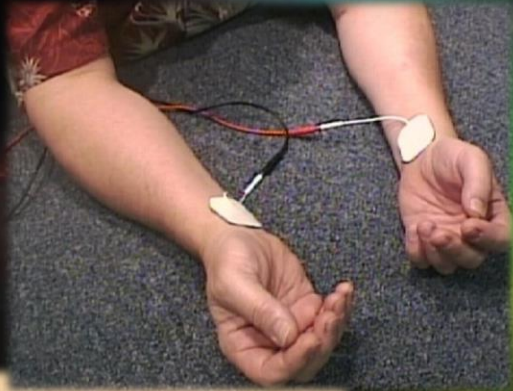
# Strategy & Consideration References



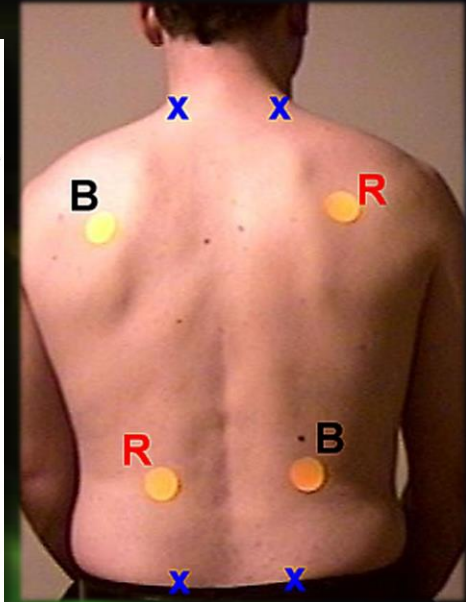
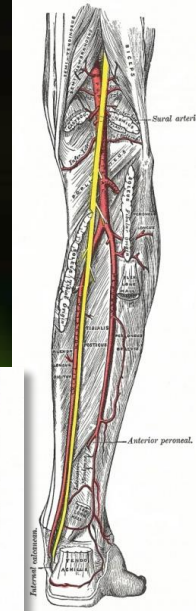
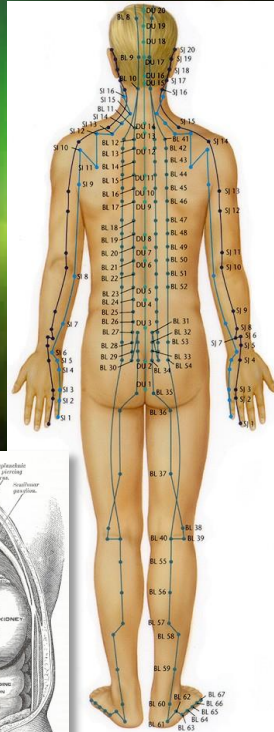
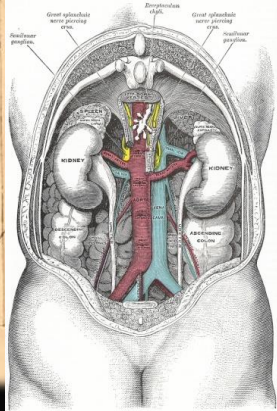
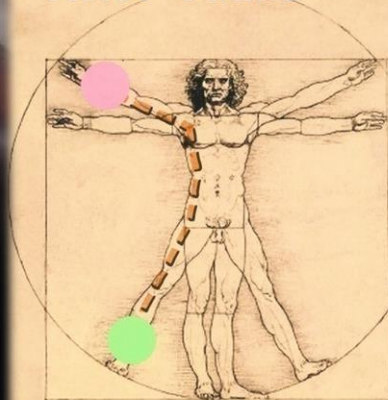
- If you have but one book in your frequency therapy library .... ***THIS should be the one!***



# Delivery Considerations



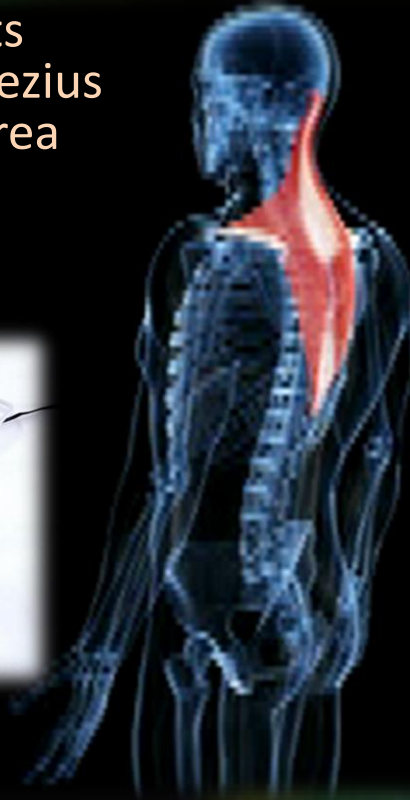
Wrist - Ankle





# Practical Application

- Application Points  
Left & Right Trapezius  
Shoulder-Neck area



- PFG2Z preferred  
Application Method
- **DO NOT** PLACE  
ELECTRODES  
ON HEAD !



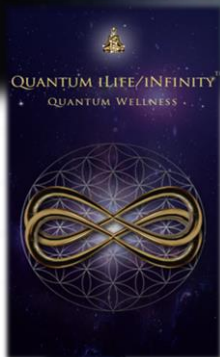


# Simple End-User Application

- Client can use preprogrammed system in the privacy of their own home
- May be utilized while reading, watching TV etc. so as to minimize impact on daily schedule
- Daily protocol commitment and regular reporting and/or feedback to practitioner can be done on the clients schedule
- Data and comments being “collected” via txt messages at the practitioner office can be addressed on his schedule



# Ideal Application





# Electrode Connection



- An ideal operating position ... note conventional adhesive electrode on wrist becomes the other end of the circuit
- Theoretically, the path will be from the immerse-able electrode, through the water to each of the acupuncture meridian points on the feet, then on through each of the key corresponding organs via the meridian system, with the final destination being the conventional electrode.



# Hand or Foot Bath

- The indirect distributed contact via heavily salted conductive water provides simultaneous conductivity through all meridian points.



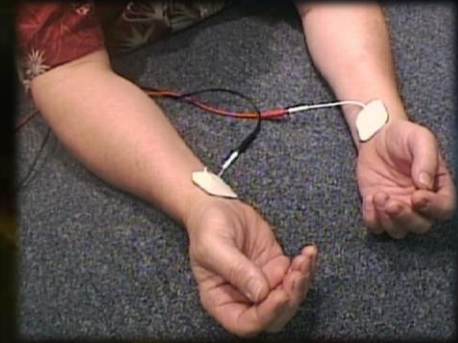
# Strategic Attack

An aggressive approach to self treatment will:

- 1st – **Target KNOWN Pathogen/s**  
We know the major ones and have great starting points ... research is being done to become more definitive
- 2nd – **Target Co-infections / Related Symptoms**  
These secondary issues are often indicators of related problems present
- 3rd – **Clean up the Environment**  
That is ... THE toxic environment of the BODY ... the suppressed immune system, etc. .... The body can do an amazing amount to fight and repair if given the conditions and opportunity !!!!
- 4<sup>th</sup> - **Provide Nutritional Supplementation and Energetic Support**  
Be it in the form of healthy foods or natural supplements, good rest, and even “bioenergetics” sessions

# Plasma vs. Contact

- **PLASMA strategies** are NOT always the “best” modality for self-use
- **PLASMA methods** are typically needed/recommended: Pets, Kids, those with sensitive skin, when MANY members of a household are “infected”



- **CONTACT strategies** can be localized to specific “target areas”
- **PLASMA methods** can get to areas not easily “targetable”
- **RULE of THUMB:**  
You aren't targeting a person ...you are targeting a pathogen or condition!





# Commitment & Monitoring



- It is CRITICAL when dealing with Lyme and co-infections that **CONSTANT DAILY PROTOCOLS** be maintained!!!

**TARGET ISSUES / PATHOGENS  
PREVENT MUTATIONS**

- Regular **MONITORING** and **PROGRESS ASSESSMENTS** by a knowledgeable practitioner

**NEEDED ADJUSTMENTS  
SUPPLEMENTATION** (to optimize protocol effectiveness)



- Much of this CAN be done remotely with proper equipment and online connectivity

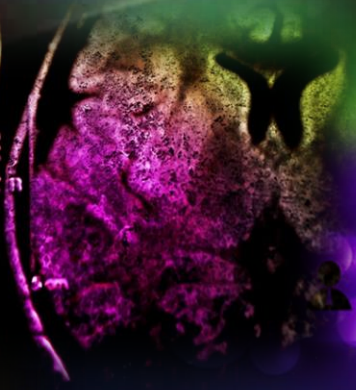
**ZYTO**

**PFG LAB REMOTE SUPPORT**

# The POSSIBILITIES

Pulsed Technologies

# This is NOT Conventional Medicine



*These are COMMON SENSE STRATEGIES !*

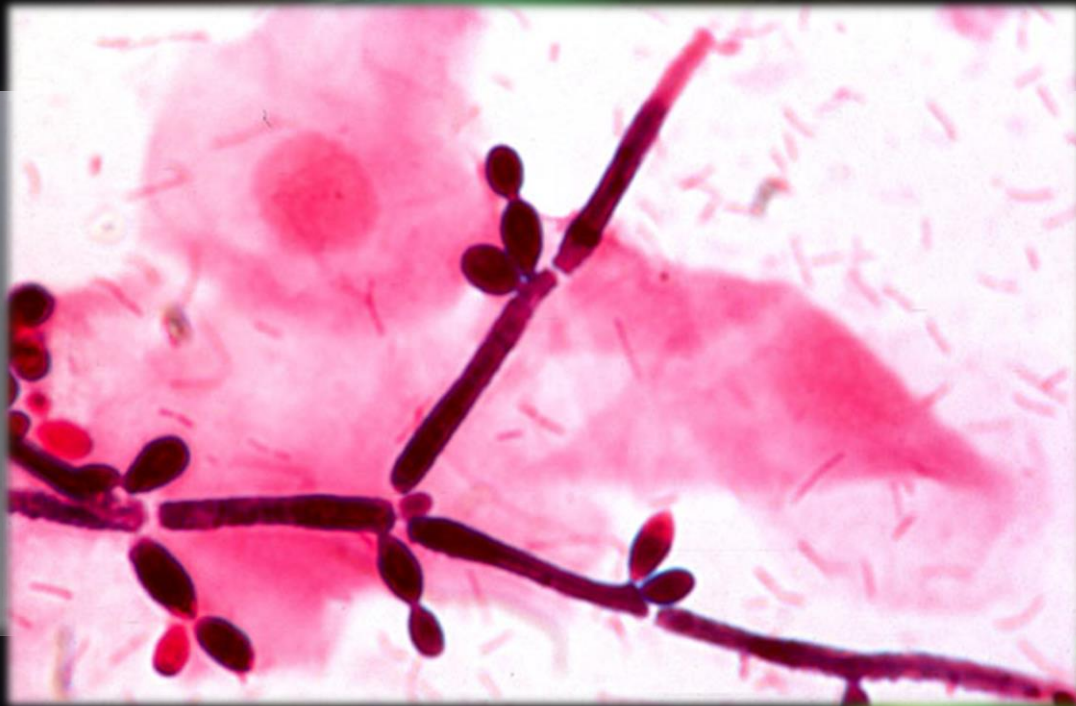


MEDICAL HEALTH CARE MEDICAL HEALTH CARE MEDICAL HEALTH CARE MEDICAL HEALTH CARE MEDICAL HEALTH CARE  
MEDICAL HEALTH CARE MEDICAL HEALTH CARE MEDICAL HEALTH CARE MEDICAL HEALTH CARE MEDICAL HEALTH CARE



# Protocol Development

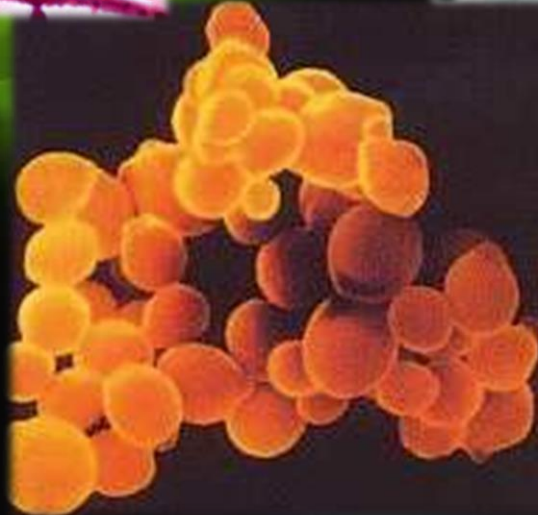
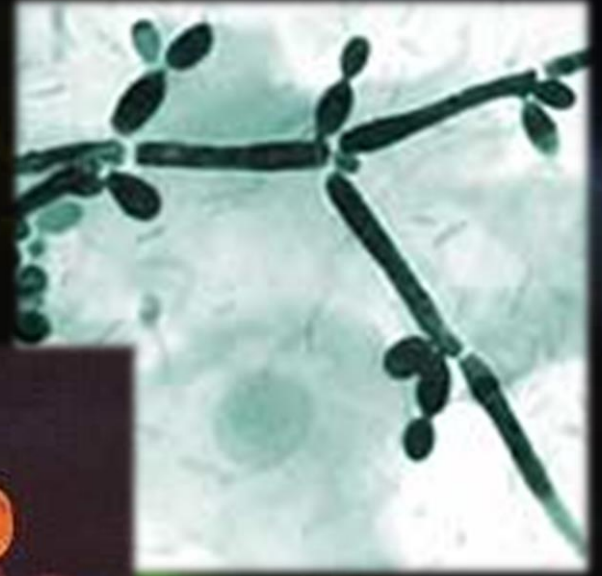
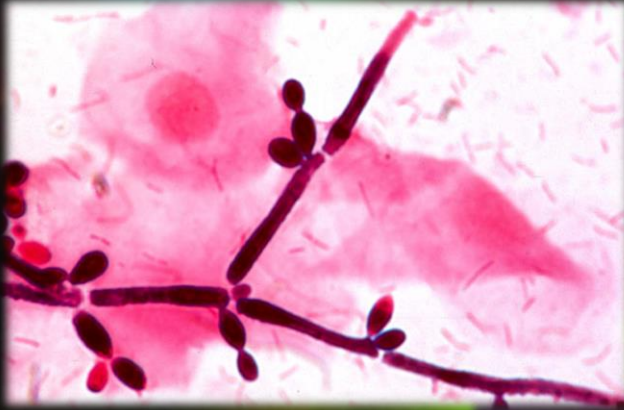
- Extensive research and strategic planning is needed for the actual application
- Engineer Thomas Drake assists Mr. Holman in the research, development and coordination of all proprietary protocols



# CANDIDA

Pulsed Technologies

# Candida





# Candida

“The traditional medical establishment refuses to accept for reasons unknown to me the existence and importance of chronic candidiasis. Doctors recognize the normal presence of yeast in the gut, as well as severe, systemic Candida yeast overgrowth in immunocompromised patients, but most are unable to accept the full spectrum of candida yeast overgrowth in between these clinical end points”

From THE ROAD TO IMMUNITY  
by Kenneth Bock, M.D. and Nellie Sabin

# Candida Symptoms

Candida presents itself differently in every body. You may have just one, two or many of these yeast infection symptoms! It's confusing too, as these can be symptoms of other illnesses as well. Welcome to the world of Candida where patients have to diagnose themselves unless they are lucky enough to find a medical doctor or alternative practitioner who has the knowledge to guide you through a major Candida removal!

- Do you experience fatigue, “foggy” thinking, indolence, lack of recall?
- Do you crave sugar, have a bloated abdomen or abdominal pain?
- Do you have “intimate” infections or rashes – to the point where they are interfering with your love life?
- Do you have a white coating on your tongue, or have itchy rashes?
- Have you been sent home time and again by doctors who say “nothing is wrong” with you – when something obviously is?
- Do you feel 20 to 30 years older than you really are?

# Frequency Validation

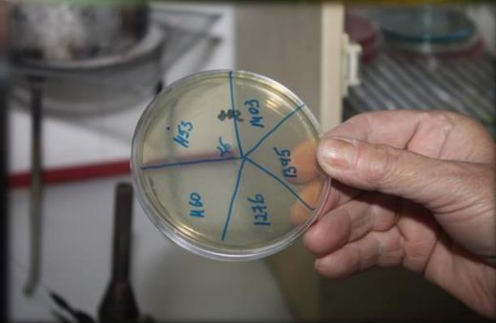
- Accurate Frequency Validations will help in the determination of more effective and workable protocols





# Frequency Validation

- Expensive/meticulous biological testing and validation is necessary to properly identify and devise an effective protocol
- This work IS “quietly” being carried out using the very same equipment currently available

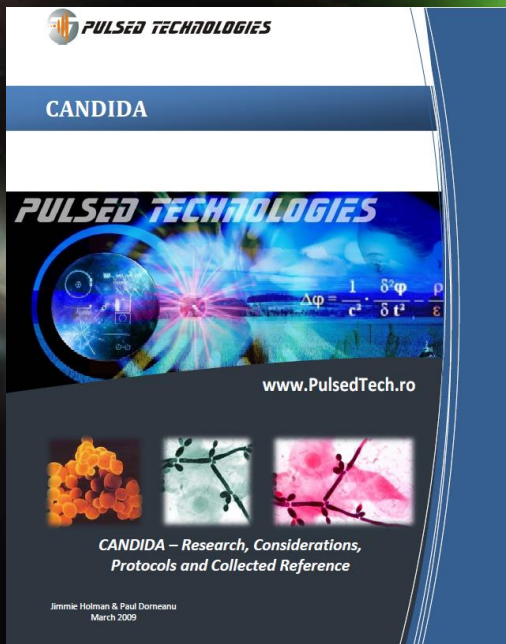


- **NO !!! ...**  
ALL equipment does NOT work equally well and much on the market is worthless or even counter-productive for this intended use.



# Frequency Validation

- Significant documentation, protocol development, and simple but logical nutritional support assessments can be made and shared once frequencies are biologically validated



23485	Excellent	31724	Very good
51155	.	31725	.
51156	.	33060	.
53940	.	46980	.
58914	.	50460	.
58916	.	54404	.
88740	.	54405	.
23484	.	55250	.
57420	.	55251	.
99180	.	60900	.
8146	.	64380	.
22620	.	67860	.
29580	Very good	78300	Good

From good to marginal in order: 10125, 15660, 20925, 26100, 29250, 59740

Organ Support \* (see important note)

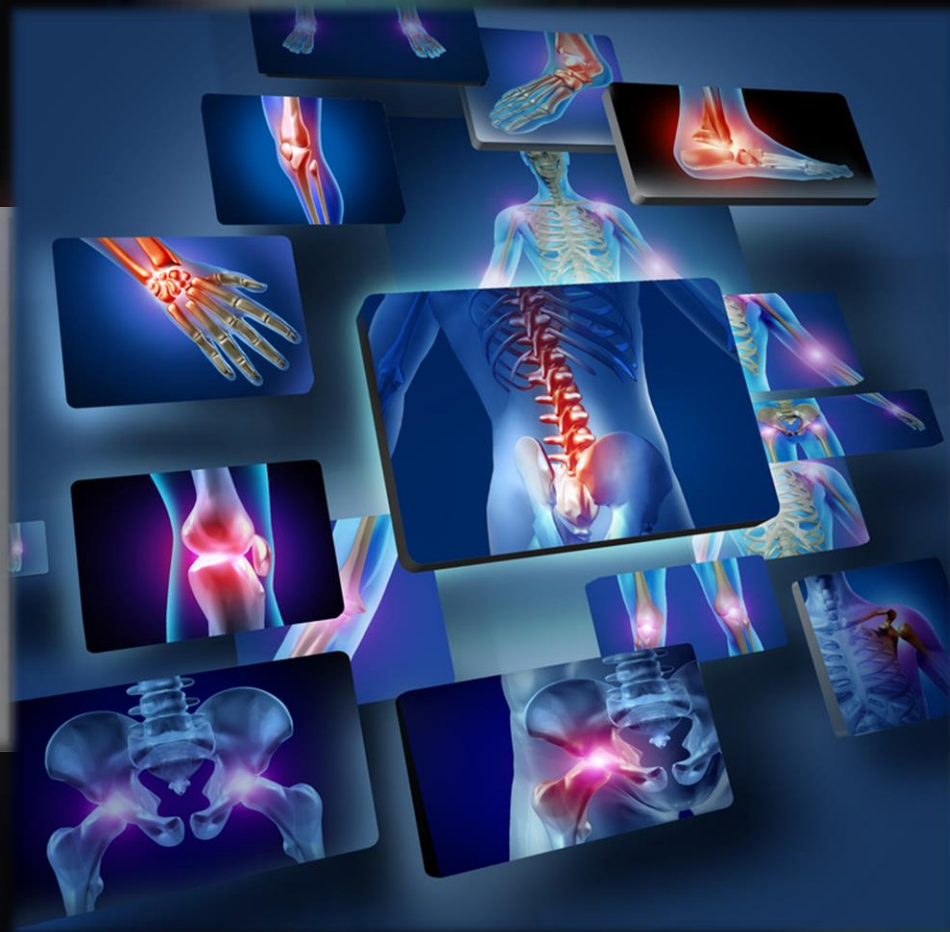
23958, 24354, 28251, 29766, 32121, 32670, 36735, 38281, 44506, 44583, 45549, 45738, 54531, 56133, 56376, 57519, 58806, 63336, 67977, 71874, 84942, 86394, 87000, 89298

# Candida Protocol Development



- The Pulsed Technologies team has been tireless in development of sophisticated and effective protocols badly needed in today's environment
- The information is typically shared via practitioners and serious researchers so as to more appropriately recognize and monitor the desired changes which occur
- Areas of current/immediate investigation are LYME, CANCER, and TOXIC MOLD





# ARTHRITIS

Pulsed Technologies

# Arthritis Symptoms

Conventional diagnosis and treatment revolves around the symptoms rather than underlying cause

- Osteo Arthritis – Pain/Inflammation **PAINKILLERS/STEROIDS**
- Rheumatoid Arthritis – Pain/Inflammation **PAINKILLERS/STEROIDS**
- Allergic Arthritis – Food/Exposure **PAINKILLERS/STEROIDS/ANTI HISTAMINES**

This model sets up a perpetual degeneration because the

**... CAUSE is Not addressed?**



# Biological Causes



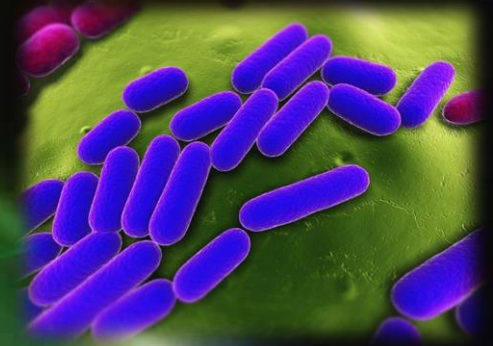
- Osteo Arthritis – Bacterial Cause
- Rheumatoid Arthritis – Parasitic Cause
- Allergic Arthritis – Food/Exposure

**TARGETABLE**

**TARGETABLE**

**MODIFYABLE**

- IS IT POSSIBLE THESE ARE  
RELATED CO-INFECTIONS /  
CO-SYMPTOMS OF LYME



**..... IS THERE A RELATIONSHIP ?**





# Biological Causes

- Consider the BIOLOGICAL / Bacterial CAUSES of the “degenerative symptoms” associated with Arthritis

- Osteo Arthritis – Bacterial Cause **TARGETABLE**
- Rheumatoid Arthritis – Parasitic Cause **TARGETABLE**
- Allergic Arthritis – Food/Exposure **MODIFYABLE**
- IS IT POSSIBLE THESE ARE RELATED CO-INFECTIONS / CO-SYMPTOMS OF LYME

**..... IS THERE A RELATIONSHIP ?**

# Arthritis Protocol



## Electronics

- **Target** Bacterial/Parasitic Cause(s)
- **Enhance** supplement delivery and uptake
- **Assist** in powering metabolic reconstruction



# Arthritis Supplementation



A “symbiotic” supplementation regimen for enhanced electronic delivery, uptake and utilization is required for optimal remediation and REPAIR of damage already done

- Glucosamine
- Chondroitin
- MSM
- Omega-3 Fatty Acids
- Vitamins C, D, & E





# Diet

It is important to focus on  
**NON-INFLAMMATORY** foods

- Gluten Free
- Dairy Free
- Fresh Vegetables



- Osteo Arthritis – Bacterial Cause
- Rheumatoid Arthritis – Parasitic Cause





# Behçet's

Pulsed Technologies

# Behçet's Facts

- Exact cause of Behcet's Disease is **UNKNOWN**
- Disease is **NOT contagious**
- Doctors **THINK** that an autoimmune reaction causes blood vessels to become inflamed
- Trigger is **UNKNOWN**
- Behcet's Disease is **common** in the Middle East, Asia, and Japan
- It is **rare** in the United States
- In Middle Eastern and Asian countries, the disease affects **more men than women**
- In the United States, it affects **more women than men**



# Behçet's Symptoms

## Most Common Symptoms

- Mouth Sores
- Genital Sores
- Other Skin Sores
- Swelling of Parts of the Eyes
- Arthritis (pain, swelling, & stiffness in joints)



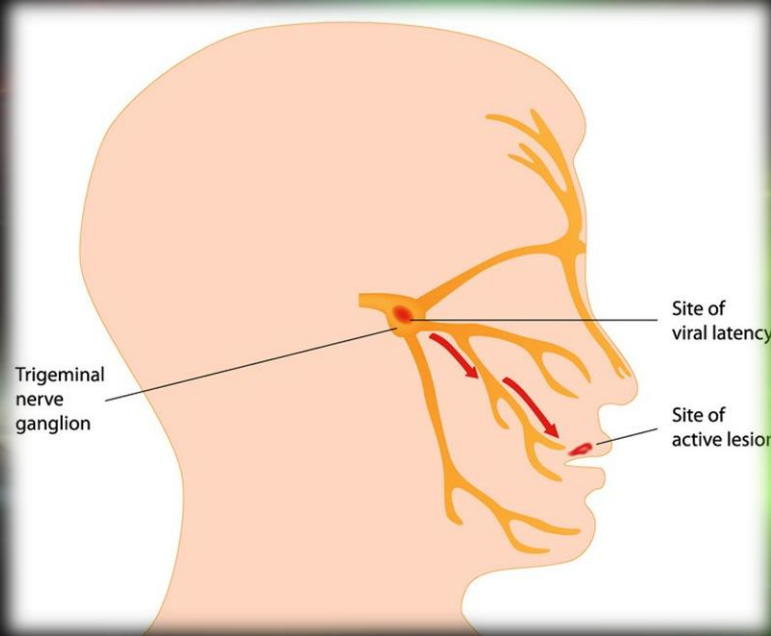
<http://www.bhehets.com/site/pp.asp?c=bhJJSOCJrH&b=260548>

## Less Common Symptoms

- Inflammation in the Brain and Spinal Cord
- Blood Clots
- Inflammation in Digestive System
- Blindness

- **Symptoms may APPEAR, DISAPPEAR and later REAPPEAR**

# Behçet's Disease



- PulsedTech is aware of numerous specific pathogen related, usually present and are likely the **UNDERLYING TRIGGERS**
- The PulsedTech proprietary protocol targets these triggers

# Behçet's Diet

It is important to focus on  
**NON-INFLAMMATORY** foods

- Gluten Free
- Dairy Free
- Fresh Vegetables







# SINUS

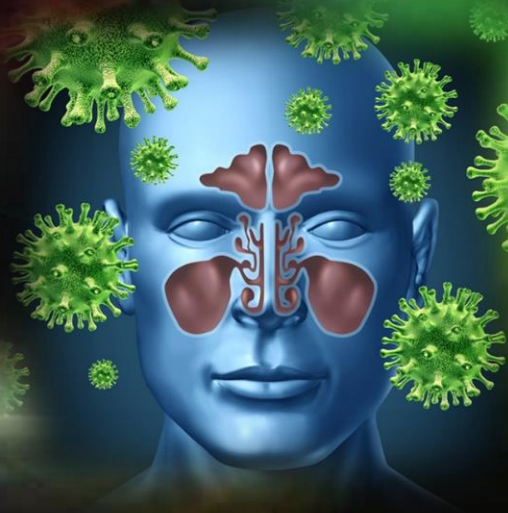
Pulsed Technologies

# Sinus Inflammation

Irritation/Swelling can be caused by many factors:

- Allergens
- Pathogens
- Foods / Pollution

# Sinus Inflammation

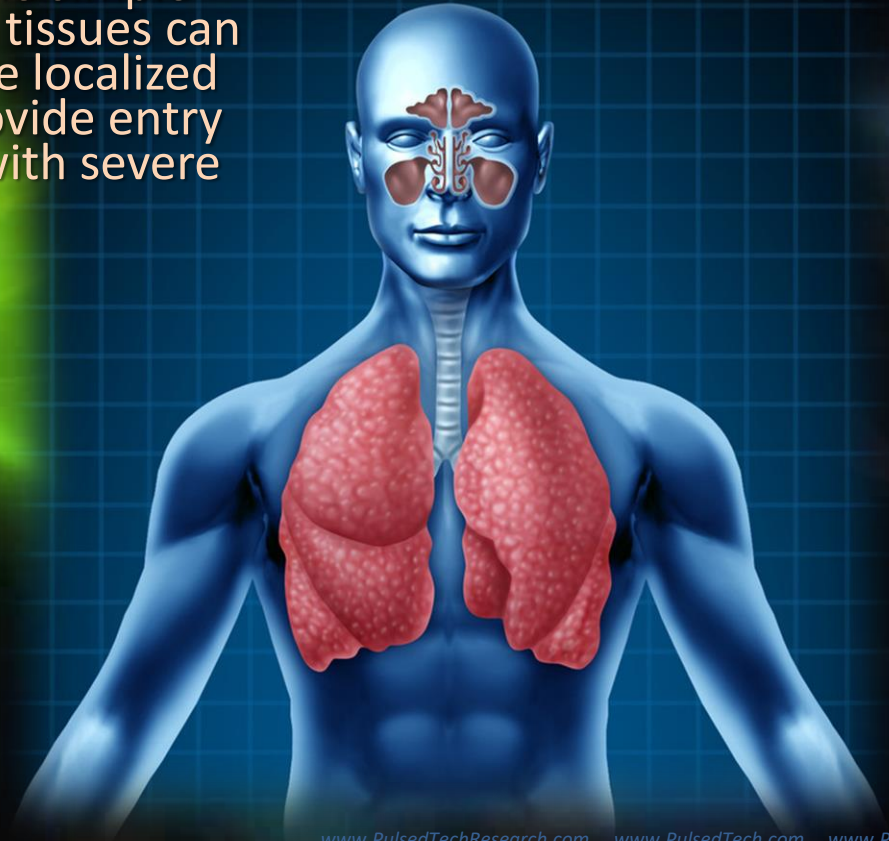


Sinus Irritation/Swelling  
result from histamine  
reaction to viral pathogen



# Sinus Inflammation

It is easy to understand how the simple inflammation of these sinuses tissues can cause physically uncomfortable localized symptoms as well as easily provide entry points for serious pathogens with severe complications



# Sinus Inflammation

It is important to focus on  
**NON-INFLAMMATORY foods**

- Gluten Free
- Dairy Free
- Fresh Vegetables



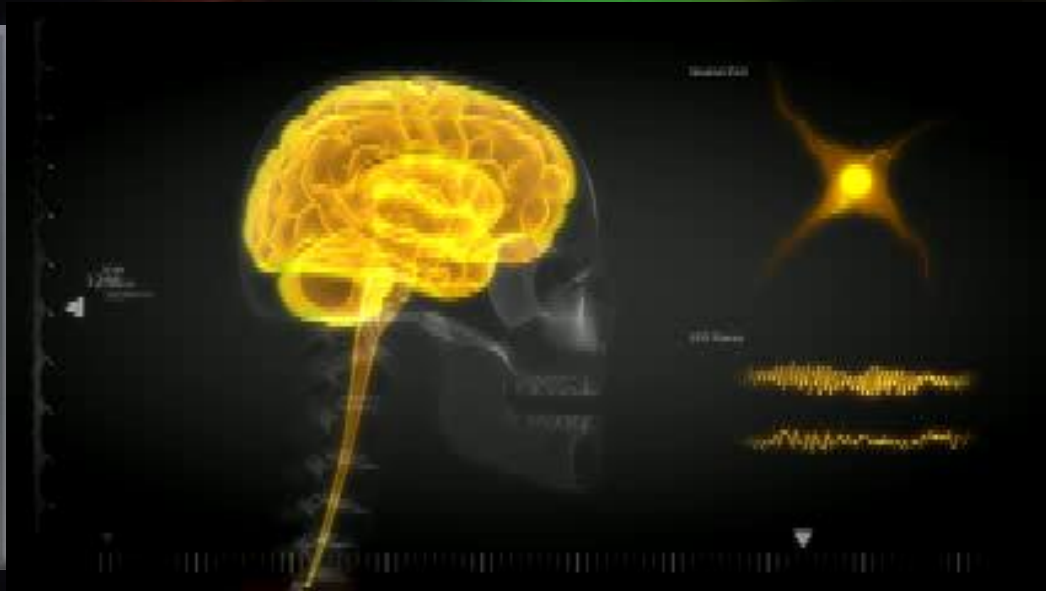
A diet which helps minimizes adverse reactions to external contaminants is extremely helpful in resolving this and related issues.



# COLD / FLU

Pulsed Technologies





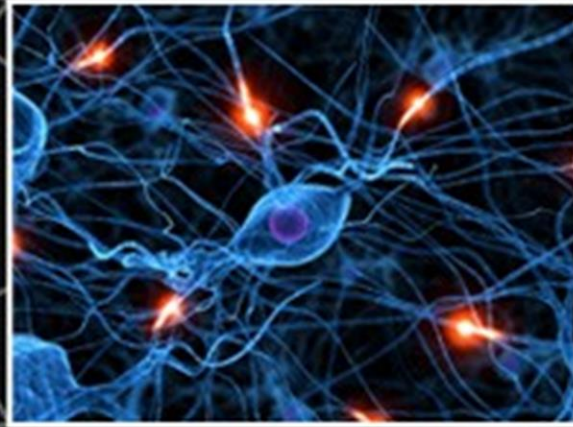
# MULTIPLE SCLEROSIS

Pulsed Technologies

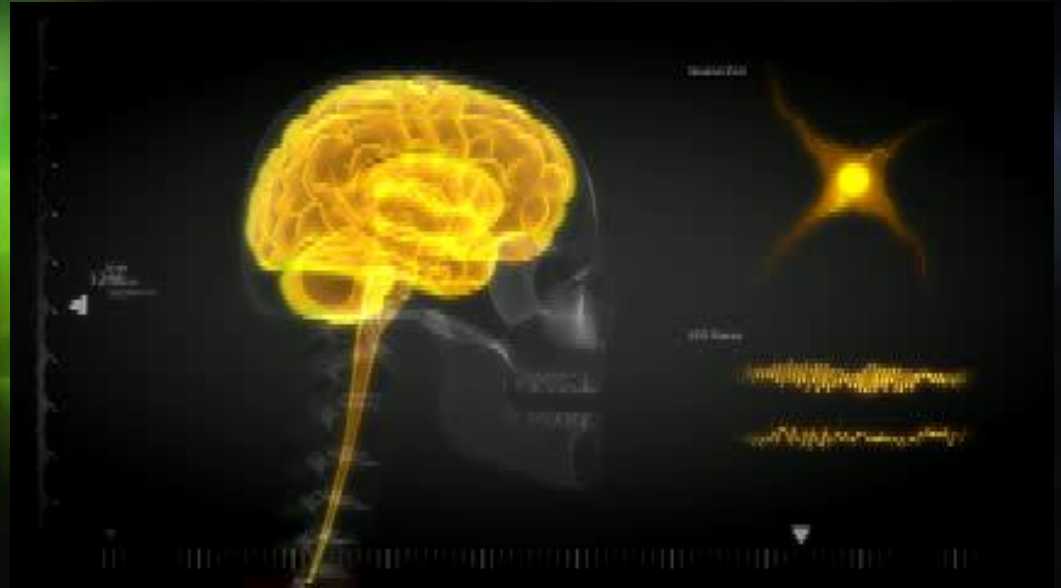
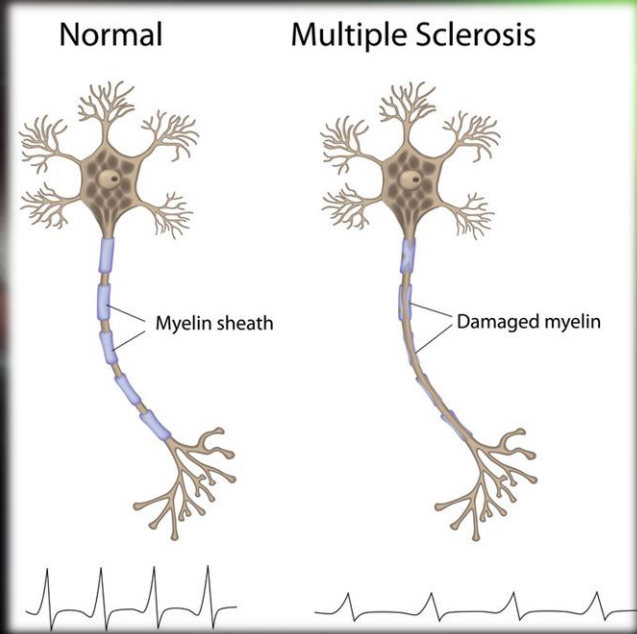
# MS – Conventional Thought



**Multiple Sclerosis:**  
Autoimmune disease of the central  
nervous system (brain & spinal cord)



# MS – Conventional Thought

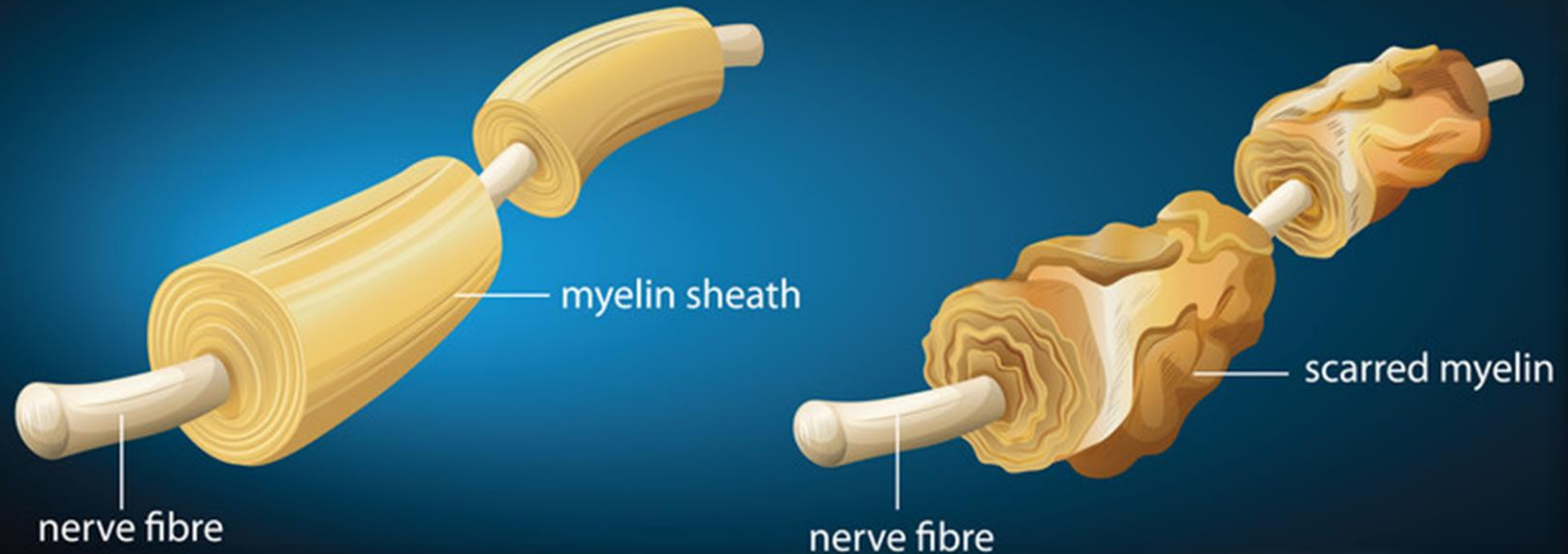




# MS – Conventional Thought

- Consider

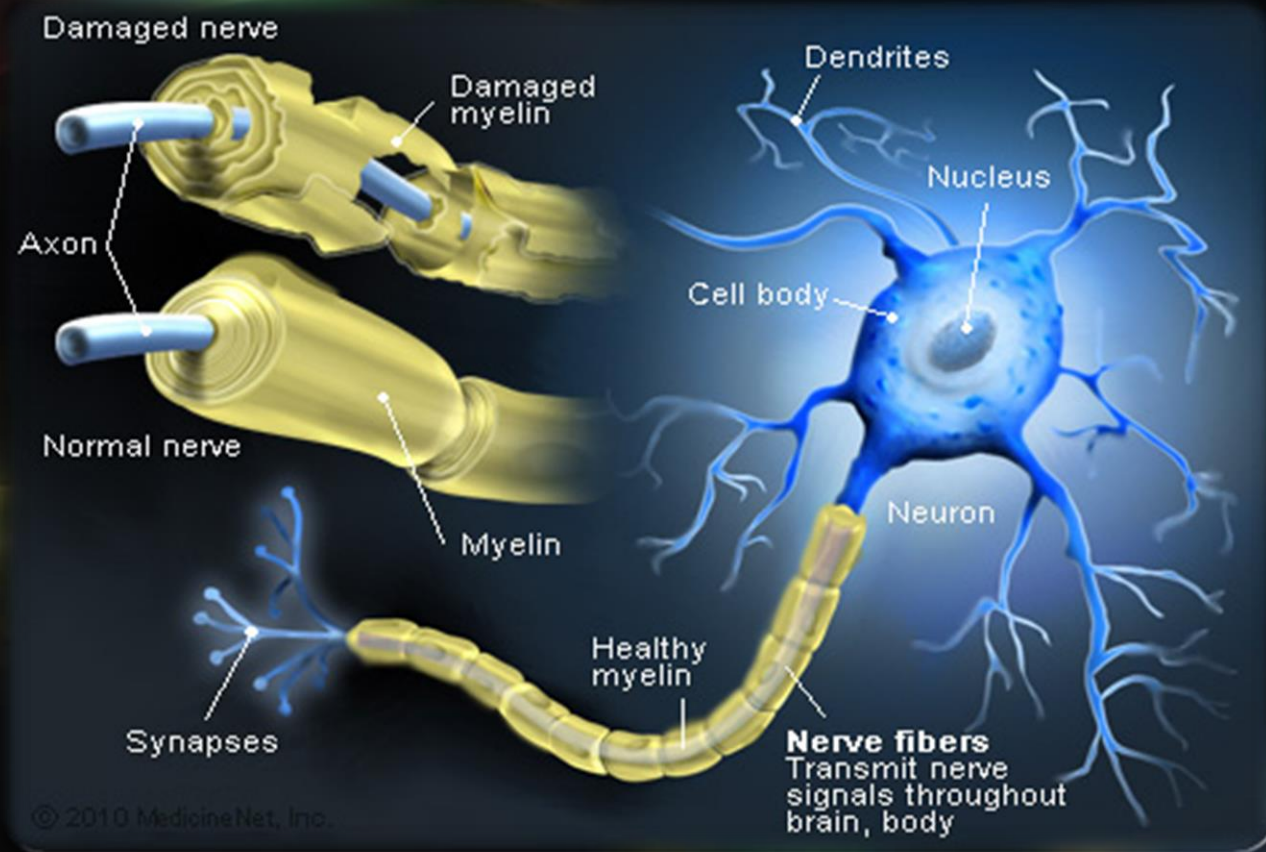
## Multiple Sclerosis - Demyelination



# MS – Conventional Thought



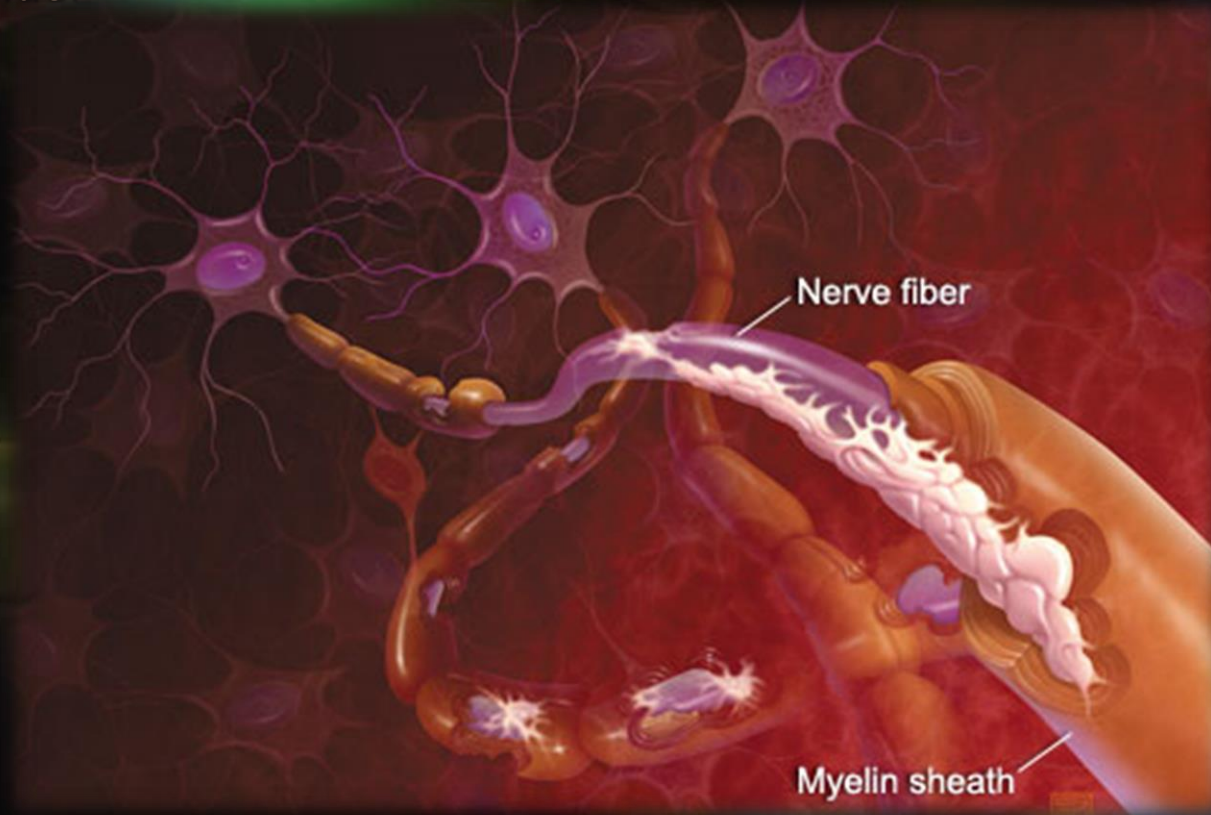
# MS – Conventional Thought





# MS – Conventional Thought

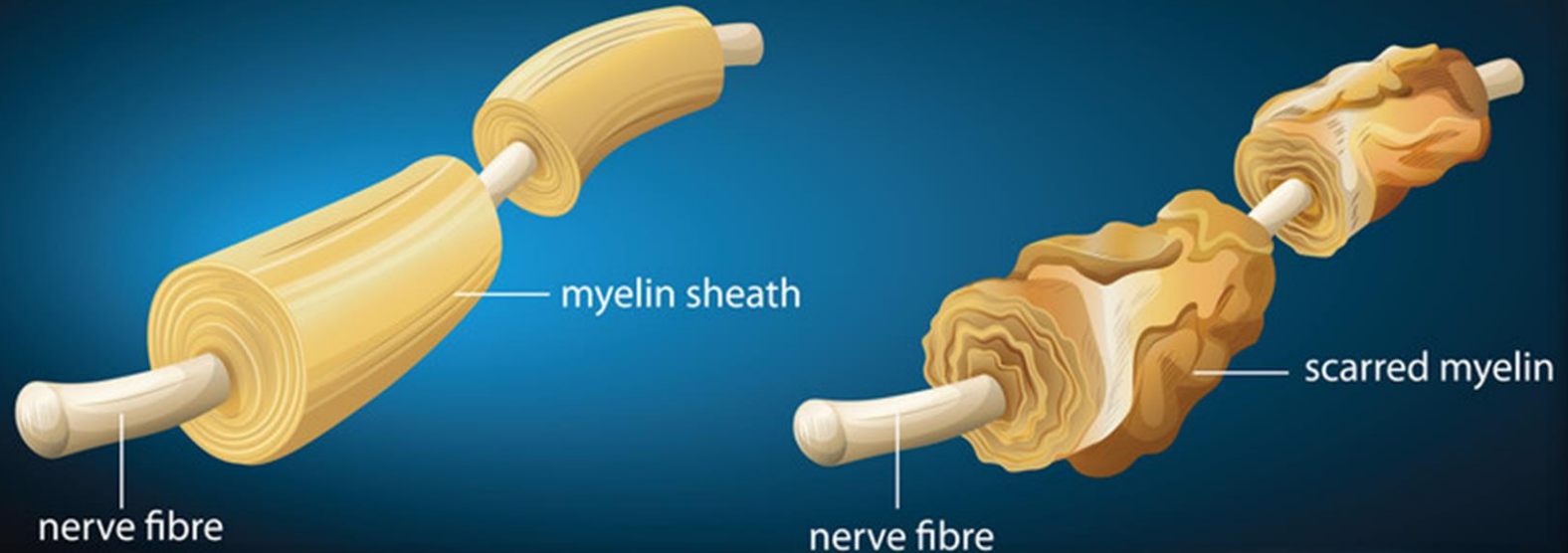
- Consider



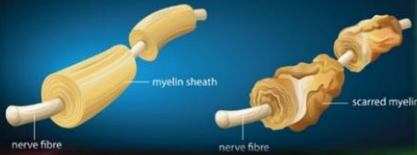
# MS – Conventional Thought

- Consider

## Multiple Sclerosis - Demyelination



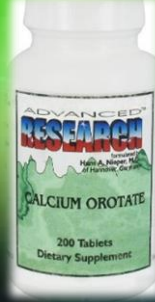
Multiple Sclerosis - Demyelination



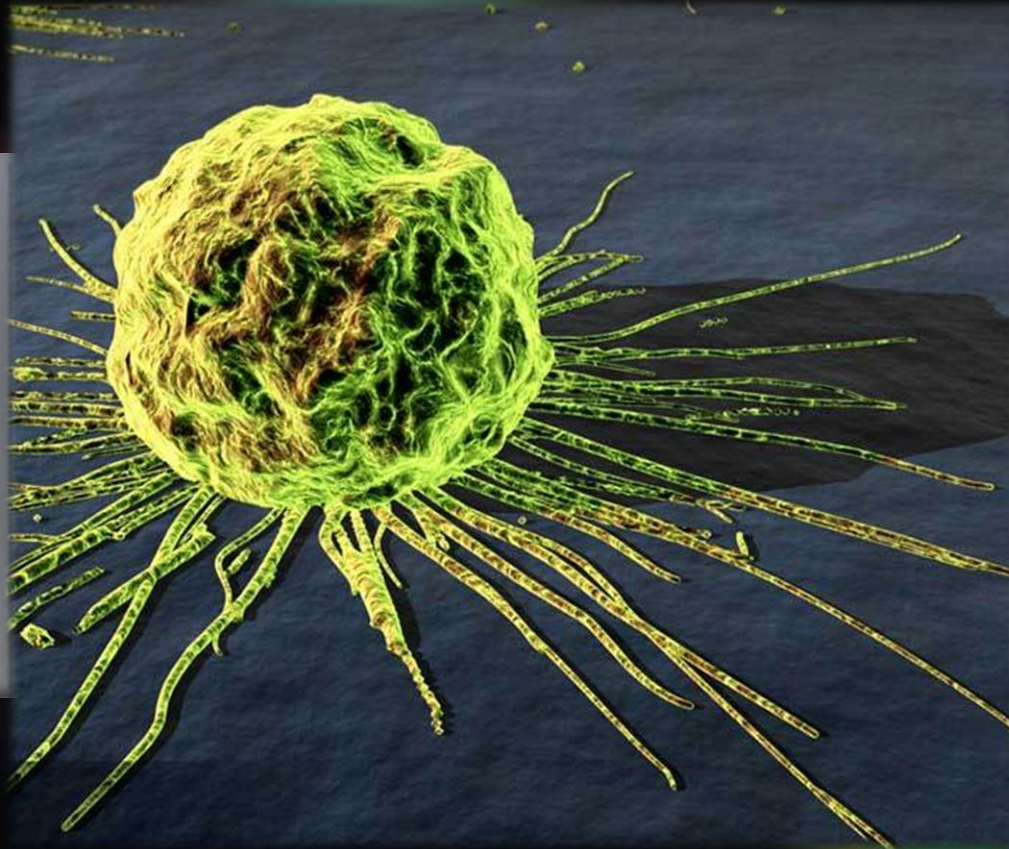
# MS Supplementation

A “sybiotic” supplementation regimen for enhanced electronic delivery, uptake and utilization is required for optimal remediation and REPAIR of damage already done

- Fatty Acids
- Antioxidants
- Biotin
- Vitamin D3
- 2-AEP Potassium
- Magnesium Orotate
- Calcium Orotate
- Zinc
- Lipothiamine







# CANCER

Pulsed Technologies

# Targeting

# CANCER

Targeting Cancer in multiple ways:

- Frequency – Targeted Destruction
- Energy Level/Voltage – Enhance Metabolism
- pH – Environment
- Diet – Starve the Cancer – Feed the (healthy) Cells





# Cancer Scenario

- Before Exposure



- 24 hrs After Exposure



- After 2<sup>nd</sup> Exposure  
24 hrs Later



**Cancer (before exposure)**



**Cancer (24 hrs after exposure)**

**Cancer (24 hrs after 2<sup>nd</sup> exposure)**



- Basalioma (thigh, age 50)
- Nine 5 minute treatments over 6 weeks



- Traditional Surgical treatment scar -----

# Supraclavicular Metastasis of a Malignant Teratoma on the Neck

- Before first of 5 treatments



- At 3<sup>rd</sup> treatment



- Patient is without symptoms after 5 treatments



# Carcinoma, Breast

- Tumor Diameter – 3.6 cm





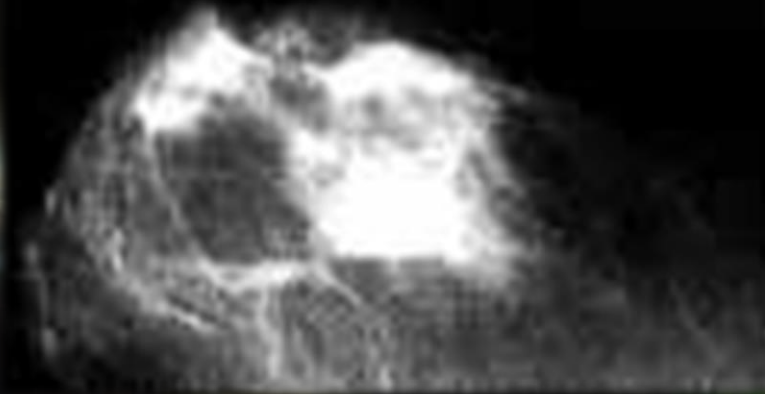
# Carcinoma, Breast

- Szirrhotic Carcinoma of the Breast

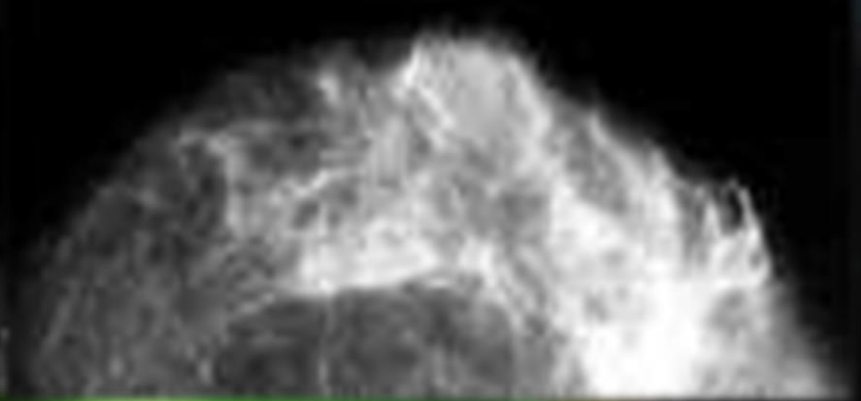
- Complete Healing after One Year

# Szirrhotic Breast Cancer

- Before



- After



- In addition to the size reduction, a normalization of all tumor parameters occurs

# Nutrition / Diet / Supplementation

- Diet is terribly important to begin getting back control
- Alkalizing Foods to change “environment”
- Fresh vegetables, natural fruit sugars.

- ***ABSOLUTELY NO PROCESSED SUGARS!***





[illegible]

# DIABETES

# Pulsed Technologies

# Risks & Complications

## Diabetes Risk Factors

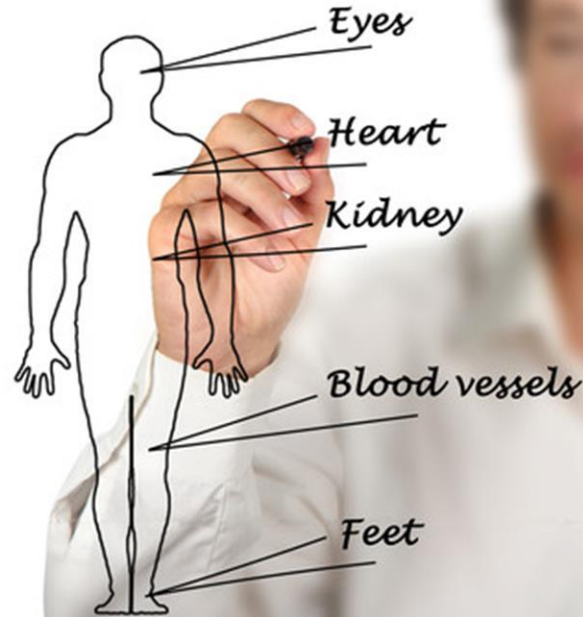
Overweight →

High blood pressure →

High level of cholesterol →

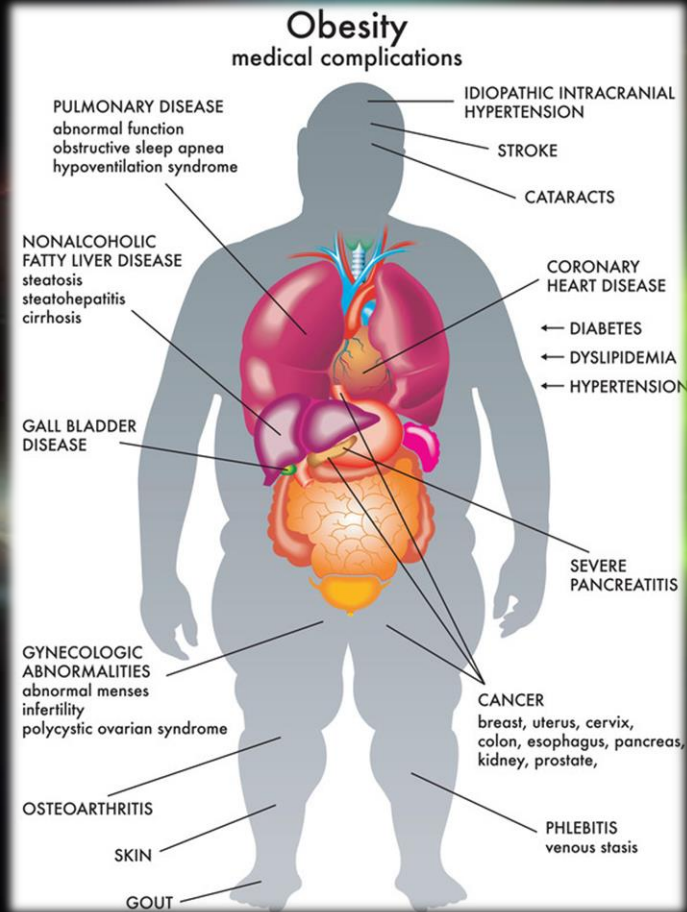
Genetics/  
Family history ↗

## Diabetes Complications



# Obesity Complications

- IN WORK





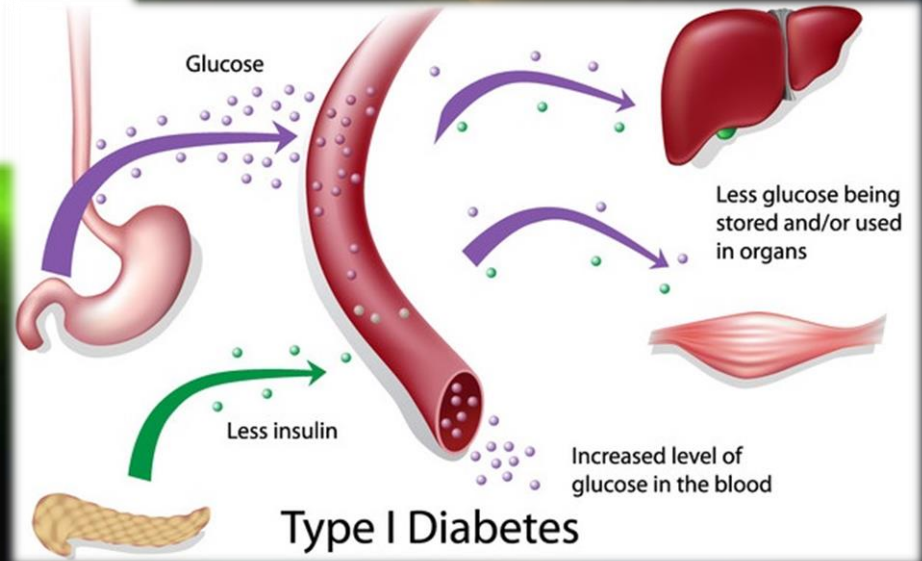
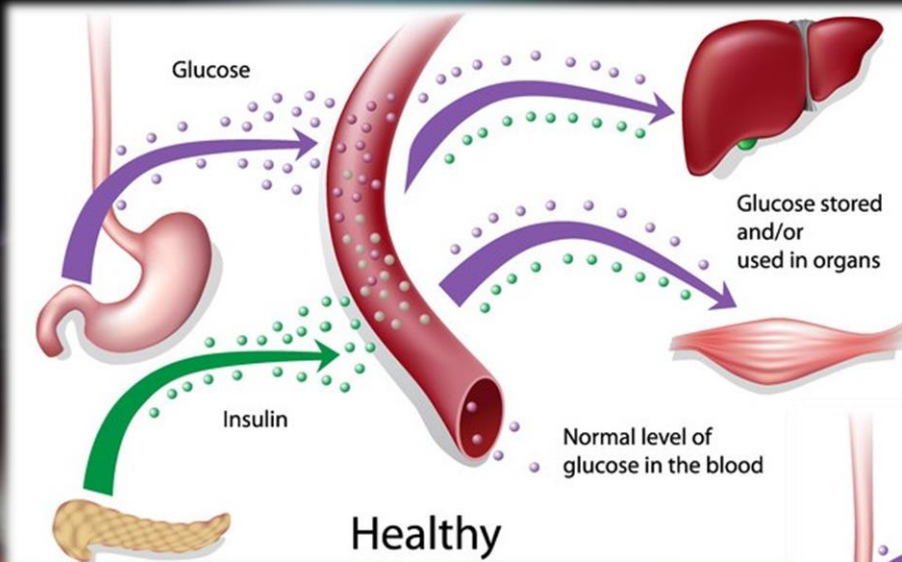
# Insulin & Sugar



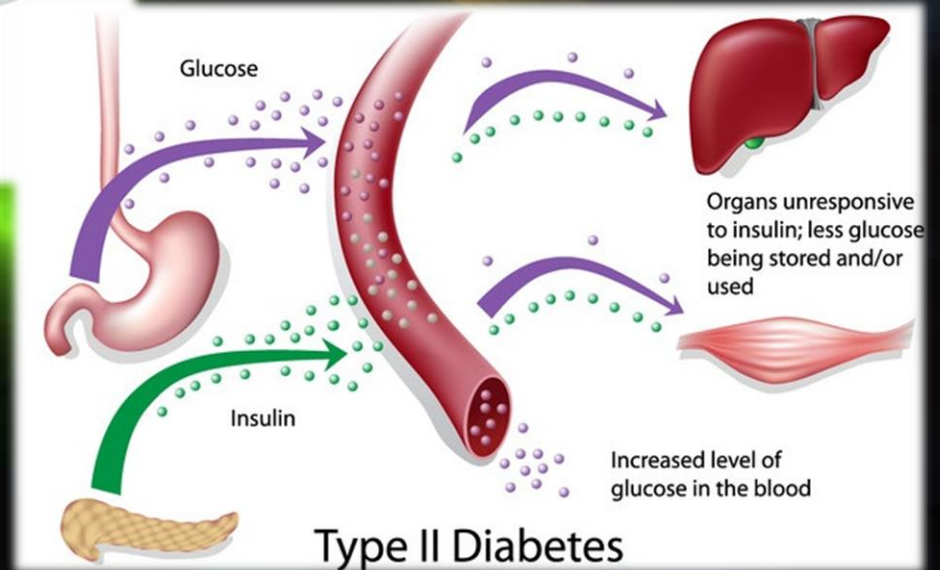
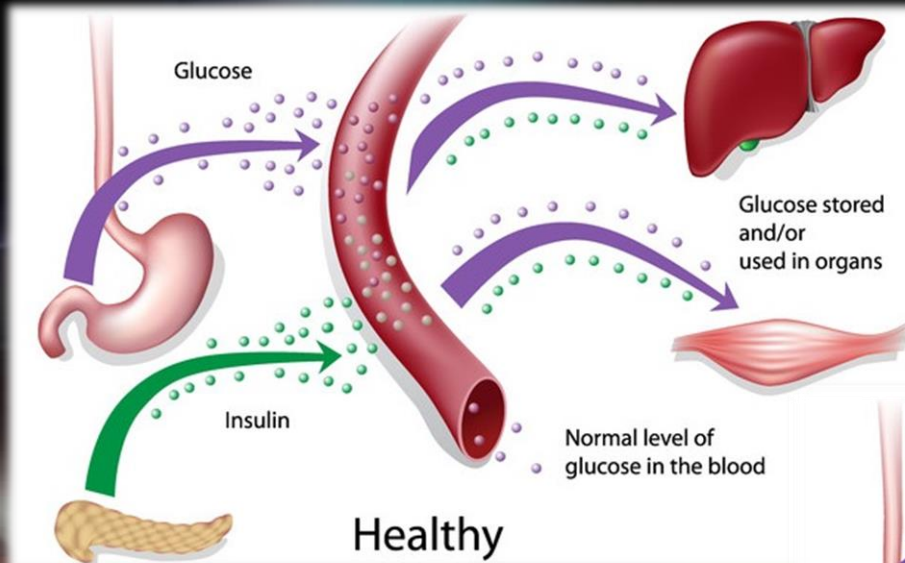
- The Pulsed Technologies team has been tireless in development of sophisticated but targeted protocol



# Type 1 Diabetes



# Type 2 Diabetes





# Obesity Exercise

- IN WORK



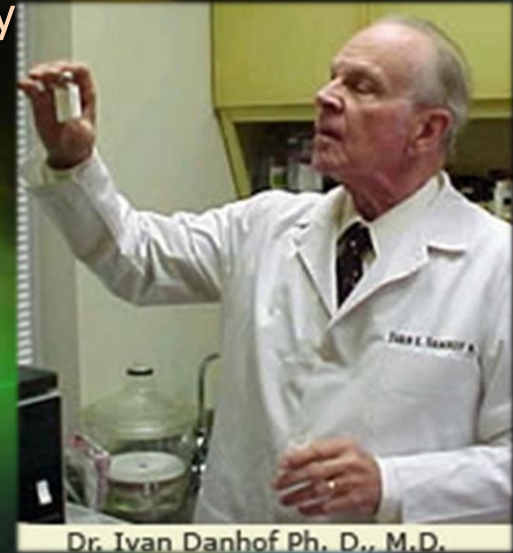
# Diabetes Diet

- Diet is terribly important to begin getting back control
- Fresh vegetables, natural fruit sugars.
- **ABSOLUTELY NO ARTIFICIAL SWEETNERS!**



# Diabetes Protocol

- The Pulsed Technologies team has been working with Dr. Ivan Danhof, the manufacturer of an amazing Aloe Extract which offers some pretty amazing properties to help soothe and repair affected tissue and to ideally help clean insulin receptor sites so that the body can more efficiently process sugars in a natural manner.





# Aloe Vera Supplementation

- Aloe extracts can help provide the needed internal cleansing and repair of insulin receptors



- Topical external application can accelerate wound healing typically associated with Diabetic and circulatory issues.

# Milagro de la Selva



*Dr. Alberto Ruiz*

*Rainforest Medical-Botanical Researcher*

Dr. Alberto Ruiz's unique combination of natural rainforest plant ingredients used by the ancient Mayans to virtually eliminate any diabetic issues

- Available as single Tea (bags)
- Now as tea concentrates (drops)



# Electronic Protocol Application

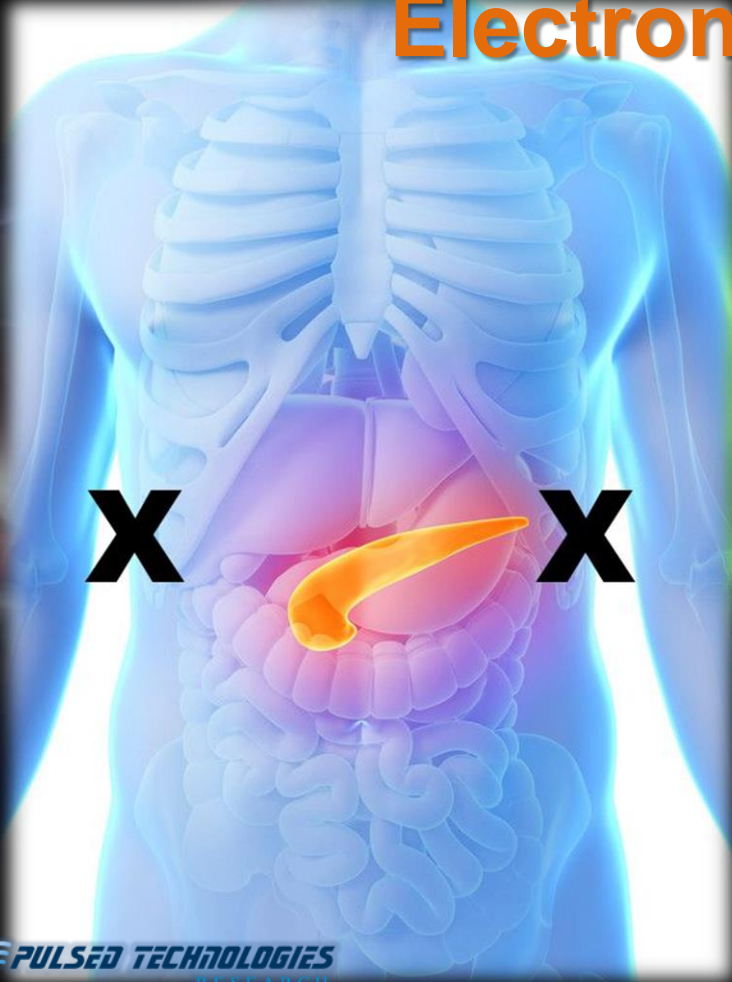
- Diabetes Type 1 PT2014 Preliminary Proprietary
- Diabetes Type II PT2014 Preliminary Proprietary
- Multiple Sclerosis III, Mercury & Detox PT2014
- Support HF

*(also available through H.E.R. Technologies)*

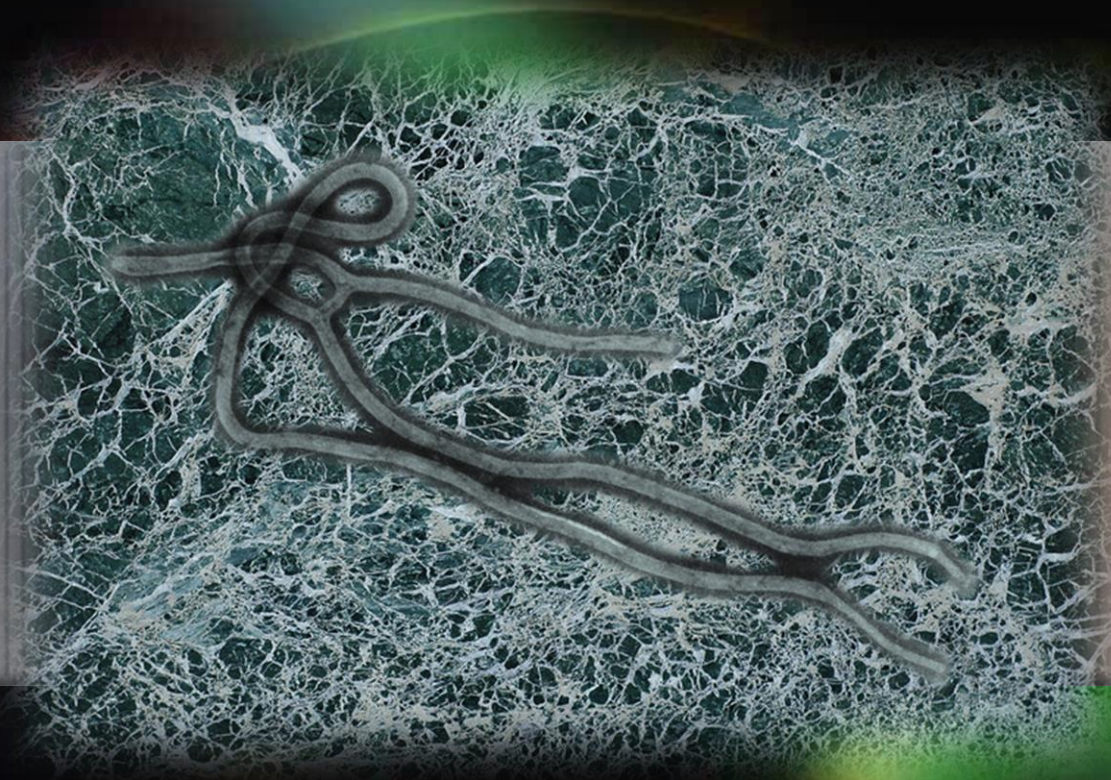




# Electronic Protocol Application



- Strategic electrode placement can greatly enhance effectiveness of protocol application



# EBOLA

Pulsed Technologies



# Ebola & Lassa Virus

- It is important to consider the potential this was an intentionally created biological warfare product and that one consider other closely related viruses in any comprehensive treatment strategy





# Ebola & Lassa Virus

- It has been the experience of PulsedTech researchers that most viruses are very fragile when it comes to frequency exposure.



- High dose Vitamin C, Vitamin D3, and Selenium is believed to be very effective in boosting the immune system and providing an effective attack on these viruses.



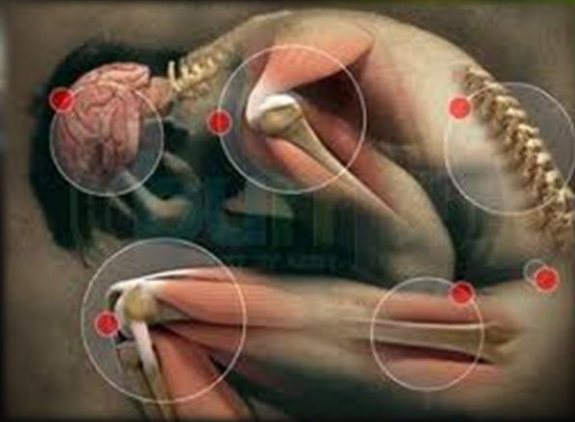
# LYME

Pulsed Technologies

# Problems / Symptoms

The PROBLEMS initiated by the Lyme spirochete are many:

- The symptoms created by Lyme can masquerade as **MANY** other diseases which may likely be treated conventionally ...  
**UNSUCCESSFULLY**



- This gives the **pathogens AND co-infections** the time and opportunity to embed themselves in localized and relatively “protected” areas.
- An **integrative & strategic approach** **MUST** be taken for successful results



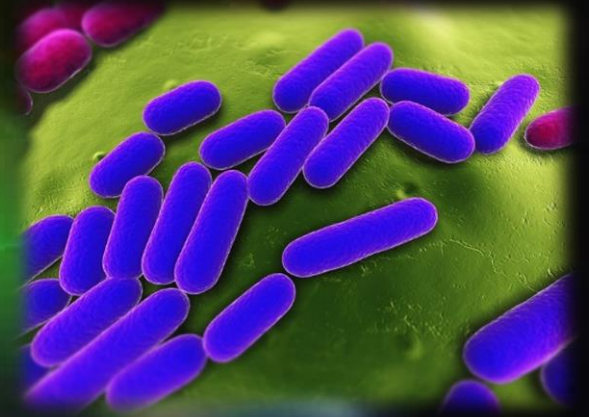


# Additional Biological Issues

- Osteo Arthritis – Bacterial Cause **TARGETABLE**
- Rheumatoid Arthritis – Parasitic Cause **TARGETABLE**
- Allergic Arthritis – Food/Exposure **MODIFYABLE**

- IS IT POSSIBLE THESE ARE ARTHRITIS CAUSES  
ARE RELATED CO-INFECTIONS / CO-SYMPTOMS  
OF LYME?

..... IS THERE A RELATIONSHIP ?





# MRSA

Pulsed Technologies

# Methicillin-Resistant Staphylococcus Aureus

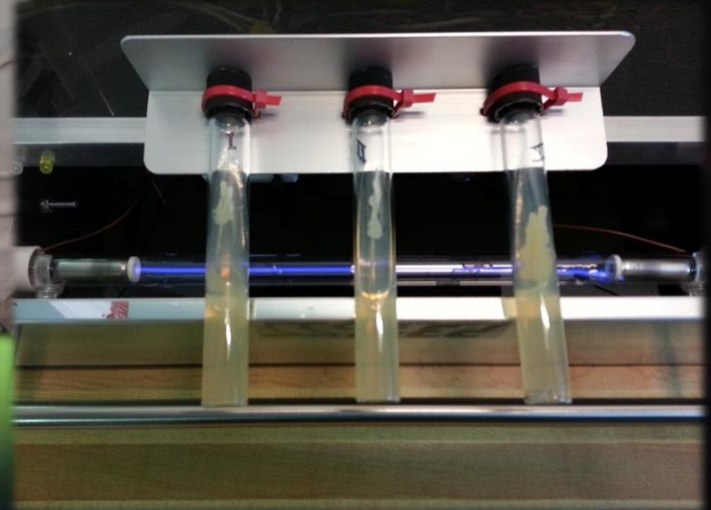




# Methicillin-Resistant Staphylococcus Aureus

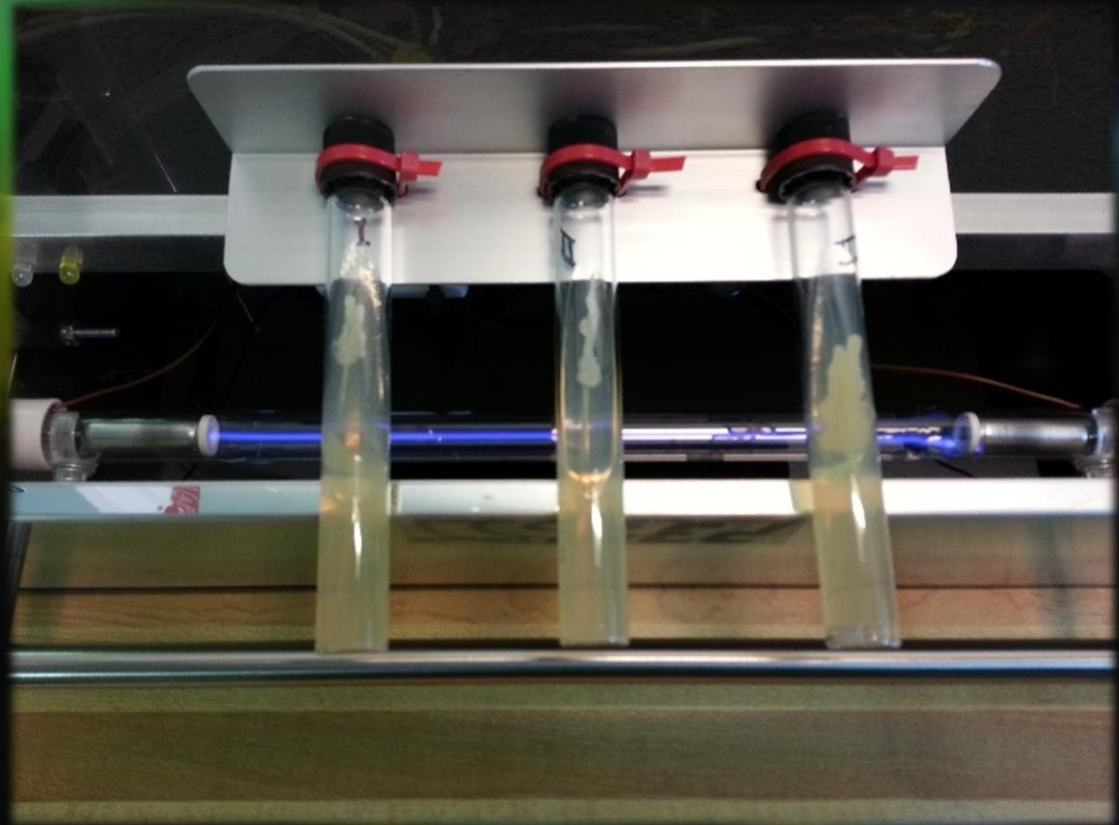


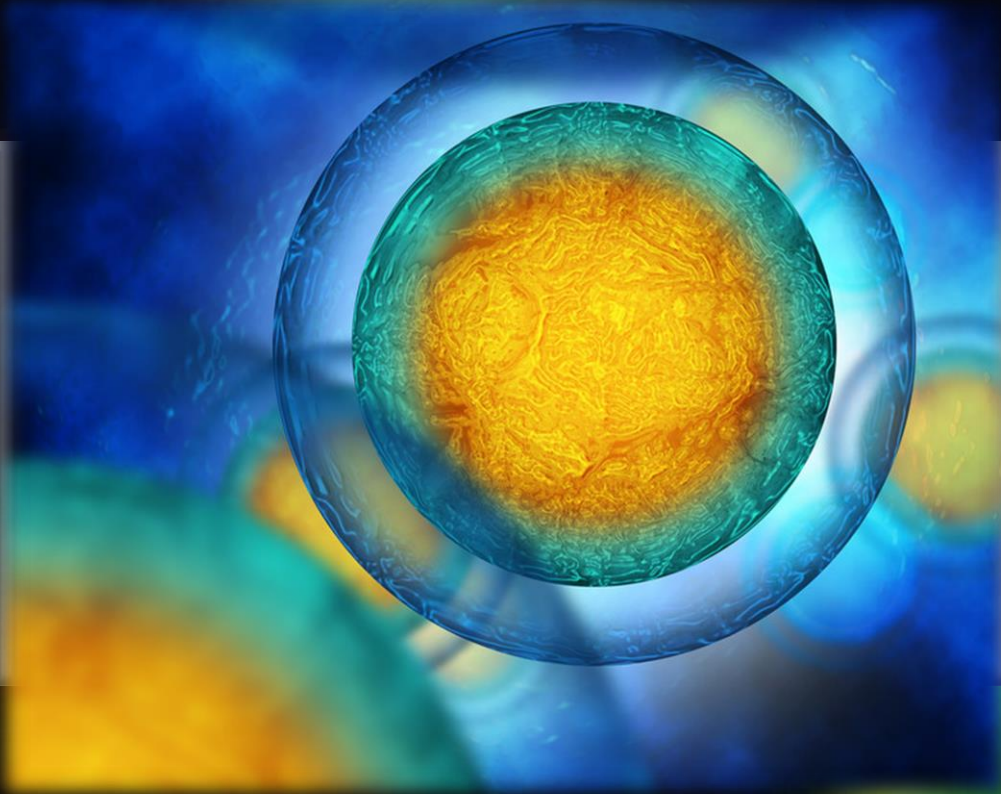
Using the **Pulsed Technologies P3pro** under strictly controlled conditions to devitalize 3 separate certified **“worst-case”** strains from independent labs.



# Methicillin-Resistant Staphylococcus Aureus

Using the  
**Pulsed Technologies  
P3pro** under strictly  
controlled conditions  
to devitalize 3  
separate certified  
“**worst-case**” strains  
from independent  
labs.





# FERTILITY

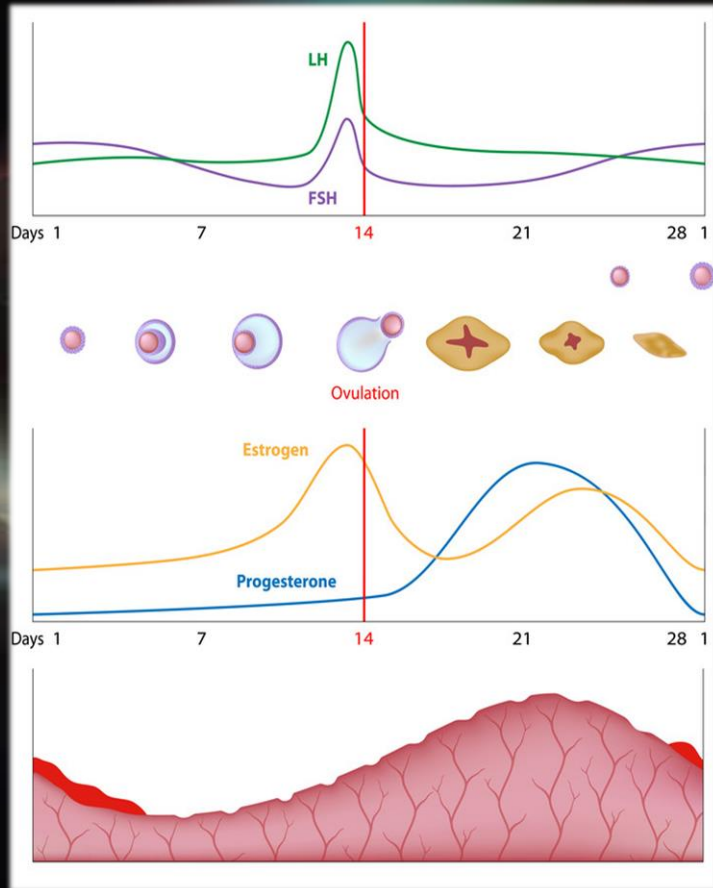
Pulsed Technologies



# Toxic Fallout

- The toxic contaminates will have environmental and life devastating effects for many generations.

# Problem

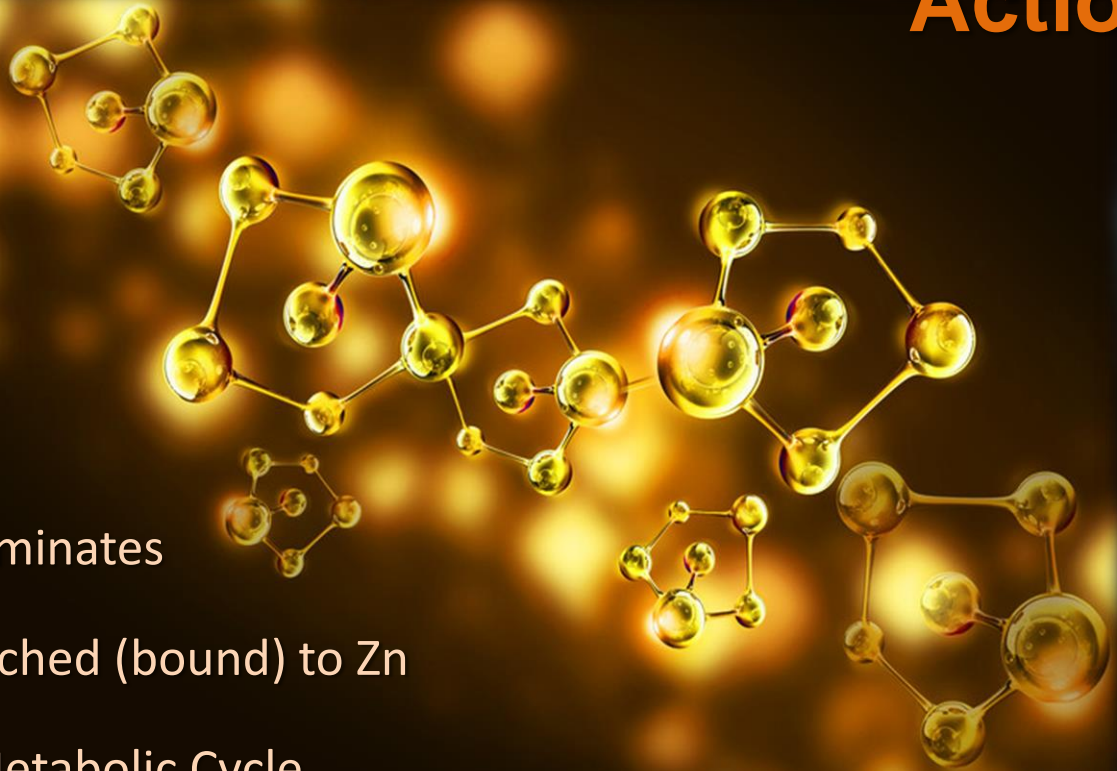


- Premature Ovarian Failure
- Follicle-Stimulating Hormone (FSH)
- Luteinizing Hormone (LH)
- Blocking Regular Metabolic Cycle
- IN WORK

Female sexual cycle including changes in hormones, ovarian events and endometrium thickness

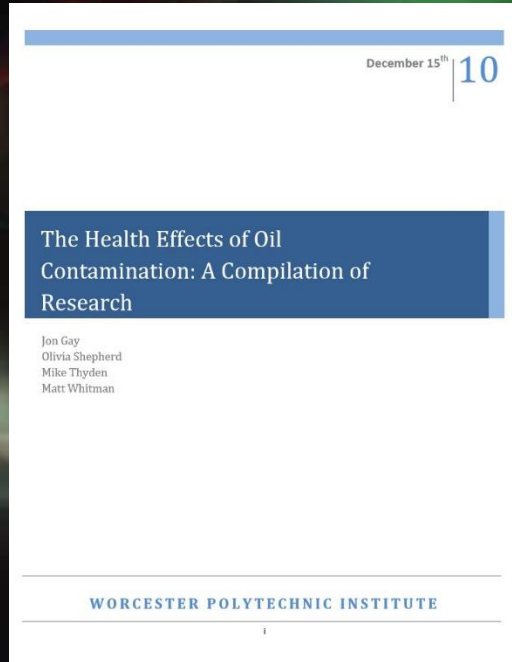
# Action

- Trace Mineral Test
- Presence of Contaminates
- Contaminates attached (bound) to Zn
- Blocking regular Metabolic Cycle





# Identification of Specific Contaminates



- Kuwait and the Mid-East have become the likely model for clear discovery of the self inflicted contamination occurring world-wide.
- Kuwait and the Mid-East and also lead the world in a viable SOLUTION to the problem.

# Solution

- **RELEASE**
- **BIND**
- **ELIMINATE**
- *Energetic Restoration!*



# ENVIRONMENTAL TOXICITY

Pulsed Technologies



# Our Polluted Environment



# Solution



- **RELEASE**
- **BIND**
- **ELIMINATE**
- *Energetic Restoration!*

# Problem

- We Understand The **SOURCE** & **CAUSE** !

- Trace Mineral Test
- Presence of Contaminates
- Contaminates attached (bound) to Zn
- Blocking regular Metabolic Cycles



# Testing, Study & Treatment



*Prof. Sharifa Ali Al Sibiani*

- Trace Mineral Test – Hair Analysis
- Identify & Remove Contaminates
- Restore Natural Metabolic Function
- --- in work ---



# BRAIN

Pulsed Technologies

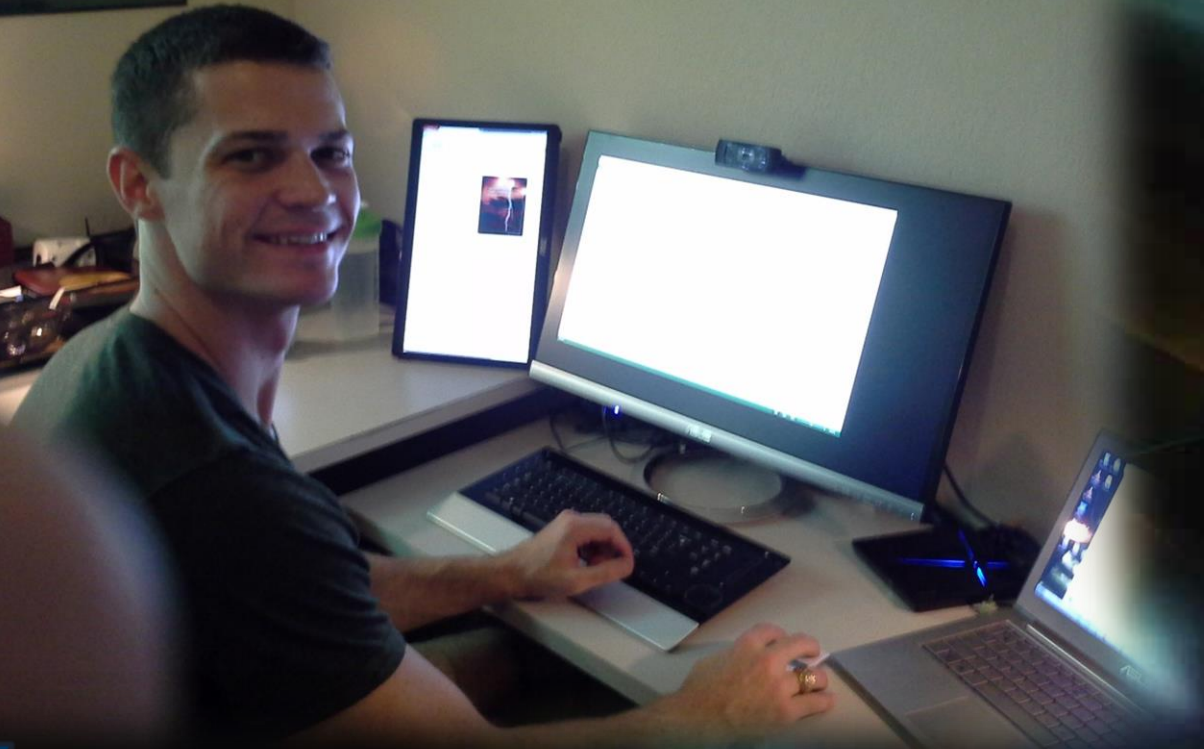
# Traumatic Brain Injury



- A strategic protocol built on desperate necessity
- This effort of necessity and love carried over into fortunate successes for many others



# Brain Rebuilding Success





# AUTISM

Pulsed Technologies

Before





After





# ALZHEIMER

Pulsed Technologies

# Solution

- **RELEASE**
- **BIND**
- **ELIMINATE**
- *Energetic Restoration*
- *Rebuilding/Restructuring*





# SLEEP

Pulsed Technologies



# ELECTRO-POLUTION

Pulsed Technologies

# The REAL WORLD

**Electro-Pollution**

**Toxic Foods & Environment**



# The DISRUPTORS



Smart-Meters



Cell Phones

Wi-Fi



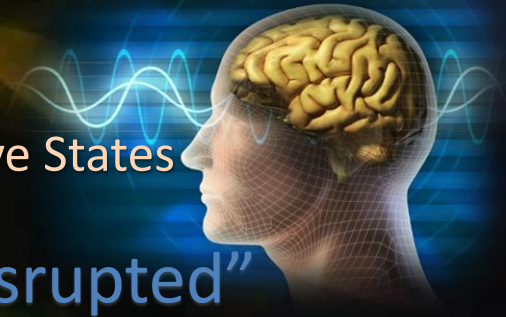
Wireless

## Electro-Pollution

Sleep



Brainwave States

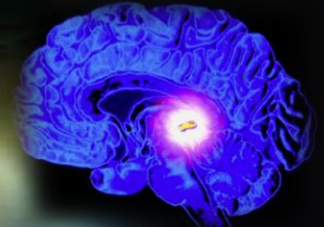


## The "Disrupted"

## Toxic Foods & Environment

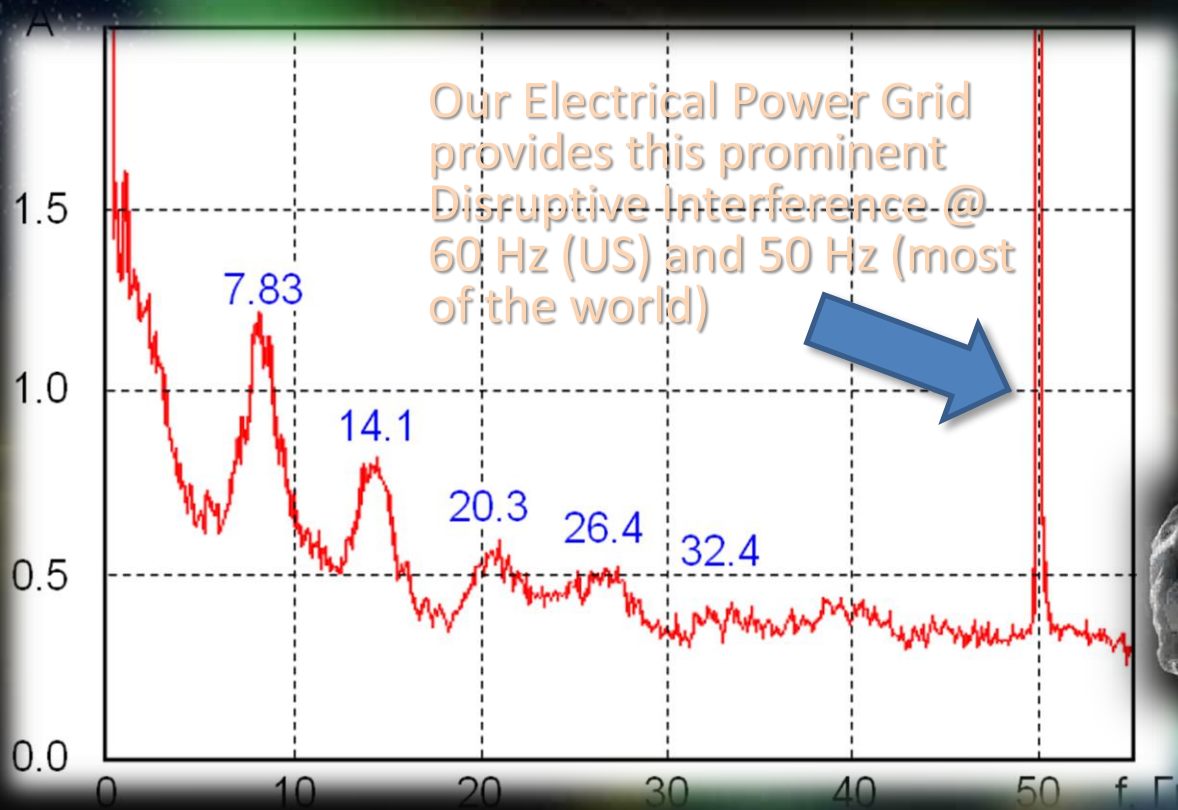


Cellular Energy



Pineal Gland

# Electrical Power as a DISRUPTOR





Dr. Winfried Otto Schumann



Schumann Resonance

# Relationships & Connections

**Electro-Pollution**

Wireless

Smart-Meters

Cell Phones

Wi-Fi

"Dirty" Power



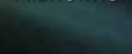
Cancer



Lyme



Alzheimer



Autism



**Anti-Oxidants  
/ Free Radical  
Scavengers**

**Brainwave States**



Astronauts/Cosmonauts  
Spacecraft/Spacesuits



VSG

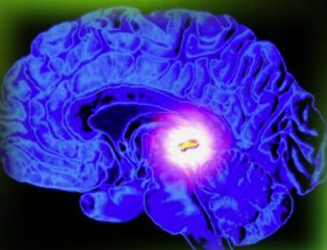


**Cellular Energy**



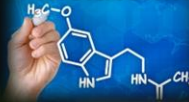
**Enzymes**

(Capture of Free Energy form  
Oscillating Electric Field)



**Pineal Gland**

**Melatonin**

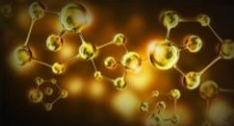


**Sleep**

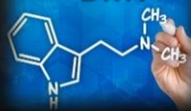
**Repair &  
Regeneration**



**Serotonin &  
Other MM**



**DMT**



**Anesthesia (Induced)**

**Toxic Foods & Environment**



**Dr. Robert O. Becker**

**Dr. Ralph Gerard**



**Dr. Olena Bukalo**



**Dr. Albert Szent-Gyorgyi**



# Lightening

- The Schumann Resonances are a phenomena resulting form the constant lightening discharges occurring all over the globe?

At any given time:

- There are about 2000 thunderstorms occurring around the globe
- There are about 50 lightening events per second

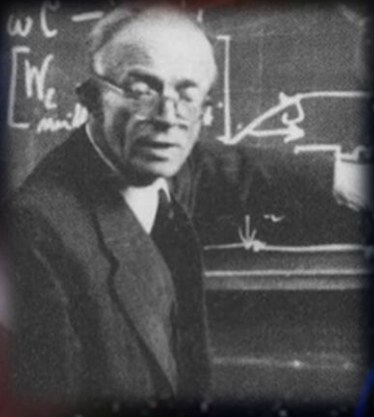
# Schumann Resonance





# Schumann Resonance: The Earth's Pulse

Dr. Winfried Otto Schumann



7.83 14.3 20.8 27.3 33.8

7.8 14.1 20.3 26.4 32.5

Schumann Resonance

Brainwave States



# Schumann as a Source of Power



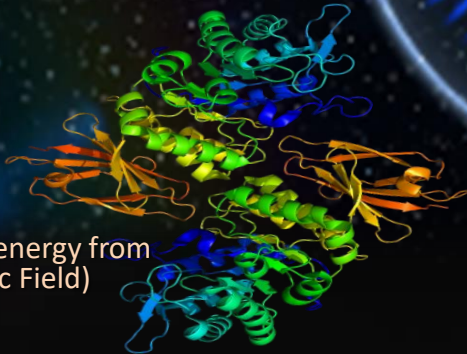
Spacecraft/Spacesuits



Schumann Resonance

Enzymes

(Capture of Free energy from  
Oscillating Electric Field)



Cellular Energy



# Yuri Gagarin - 1st Man in Space



Was Yuri Gagarin really First Man in Space ?



Months after Return

# Major-General Vladimir Ilyushin



Many believe Ilyushin was actually the first man in space but returned in such bad condition he couldn't be shown to the public





# Diminished Capacity



Even today, astronauts and cosmonauts return weak after leaving the Schumann Cavity of Earth

# Enzymes

Enzymes

Capture of Free Energy  
from the Oscillating  
Electric Field  
Aka: Schumann Resonance

How enzymes can capture and transmit free energy from an oscillating electric field

Abstract: Enzymes have been shown to be able to capture and transmit free energy from an oscillating electric field.

Keywords: Enzymes, Free energy, Oscillating electric field, Schumann Resonance, Pulsed technologies, Research.

Enzymes are biological catalysts that speed up chemical reactions. They are made of proteins and are found in all living organisms. Enzymes are able to capture and transmit free energy from an oscillating electric field.

The Schumann Resonance is a natural electromagnetic resonance that occurs in the Earth's ionosphere. It is named after the physicist Heinrich Schumann, who discovered it in 1919.

Enzymes are able to capture and transmit free energy from the Schumann Resonance. This is because they have a specific structure that allows them to interact with the electric field.

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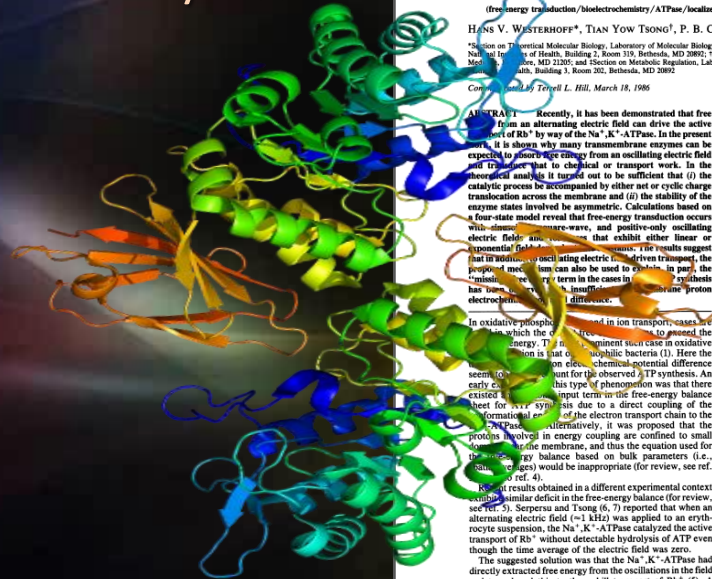
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# Enzymes



*Proc. Natl. Acad. Sci. USA*  
Vol. 83, pp. 4734-4738, July 1986  
Biophysics

### How enzymes can capture and transmit free energy from an oscillating electric field

(free energy transduction/bioelectrochemistry/ATPase/localized chemiosmotic coupling/active transport)

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\*Section on Theoretical Molecular Biology, Laboratory of Molecular Biology, National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases, National Institutes of Health, Building 2, Room 319, Bethesda, MD 20892; †Department of Biological Chemistry, The Johns Hopkins University School of Medicine, Baltimore, MD 21205; and ‡Section on Metabolic Regulation, Laboratory of Biochemistry, National Heart, Lung, and Blood Institute, National Institutes of Health, Building 3, Room 302, Bethesda, MD 20892

Compiled by Terrell L. Hill, March 18, 1986

**ABSTRACT:** Recently, it has been demonstrated that free  $\text{Ca}^{2+}$  from an alternating electric field can drive the active transport of  $\text{K}^{+}$  by way of the  $\text{Na}^{+}\text{K}^{+}\text{ATPase}$ . In the present report, it is shown why many transmembrane enzymes can be expected to generate free energy from an alternating electric field and to couple this to chemical and transport processes. Theoretical analysis it turned out to be sufficient that (i) the catalytic process be accompanied by either net or cyclic charge translocation across the membrane and (ii) the stability of the enzyme states involved be asymmetric. Calculations based on a four-state model revealed that free-energy transduction across membranes by alternating electric fields is possible even with a membrane-spanning enzyme only oscillating electric fields and that the field can exhibit either linear or (exponential) field effects. The results suggest that in addition to driving catalytic and driven transport, the proposed mechanism can also be used to drive, in part, the transport of  $\text{Ca}^{2+}$  and  $\text{Na}^{+}$  in cases in which the membrane has been damaged or is insufficiently permeable to the proton electrochemical gradient.

[illegible]

Results obtained in a different experimental context exhibit a similar deficit in the free-energy balance (for review, see ref. 5). Serspersu and Tsong (6, 7) reported that when an alternating electric field ( $\sim 1$  kHz) was applied to an erythrocyte suspension, the  $\text{Na}^+$ ,  $\text{K}^+$ -ATPase catalyzed the active transport of  $\text{Rb}^+$  without detectable hydrolysis of ATP even though the time average of the electric field was zero.

The suggested solution was that the Na<sup>+</sup>/K<sup>+</sup>-ATPase had directly extracted free energy from the oscillations in the field and transduced this to the uphill transport of Rb<sup>+</sup> (5). A crucial role for an oscillating electric field has also been proposed for ATP synthesis driven by a pulsed dc field (5). Since, especially locally, electric fields across biological

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membranes may well have a large oscillating component, the experimental results of Serpersu and Tsong (6, 7) may also have a more general implication for cases in which input free energy seems to be insufficient to explain output work.

We show here that the properties required to allow for free-energy transduction from an oscillating electric field are in fact common to most proteins and the efficiency and efficacy of such a free-energy transduction can be comparable to those expected and observed for other types of free-energy transduction.

### The Model and Calculations

Fig. 1A presents a model system considered in discussions of proton pumps (8). The example is an ATPase proton pump that carries a negatively charged basic group, which sticks in the medium bordering the membrane, either outside (states 3–5) or inside (states 1, 2, and 6) the organelle. The conformations of all six states may be different, and the transition from state 1 to state 2 is coupled to ATP synthesis. For a completely coupled pump, direct transitions between states 1 and 4 would not occur. In the ATP synthetic mode,  $\Delta\mu_{\text{H}^+}$  in kJ/mol = 5.7 p.p.h.  $0.096 \text{ V}$  is the input free energy,  $\Delta\mu_{\text{H}^+}$  in mV is the membrane potential,  $\Delta G_{\text{H}^+}$  in mV is the difference in mV and  $\Delta G_{\text{H}^+}$  (the free energy of hydrolysis of ATP) is the output free energy. The  $\Delta\mu_{\text{H}^+}$ , if sufficiently large, can drive the (5, 6, 2, 3, 5, etc.) cycle clockwise, against the opposing  $\Delta G_{\text{H}^+}$ , causing net ATP synthesis.

In fact, the transition  $1 \Rightarrow 4$  does occur (e.g., ref. 9), causing waste of free energy. Here we will show that the lower cycle in Fig. 1A can describe free-energy transduction in and by itself. This cycle (1, 2, 3, 4, 1, etc., of Fig. 1B) involves the cyclic translocation of a negative charge across the membrane. In a stationary electric field, it could only catalyze ATP hydrolysis toward equilibrium, which would, for biologically relevant conditions, imply a counterclockwise cyclic flux. If, however, the cyclic charge translocation would occur in phase with an oscillating electric field, a clockwise flux might be enforced and the enzyme would absorb free energy and transduce that to ATP synthesis.

Fig. 1C, upon which our calculations shall be based, represents the transport of an uncharged solute molecule,  $S$ , coupled to a four-state enzyme cycle. Fig. 1D is the corresponding general King-Altman-Hill diagram, in which the concentrations of substrate and product are implicit in the pseudounimolecular rate coefficients  $a_i$  (8). Note that in the absence and in the presence of a constant transmembrane electrical potential ( $\Delta\psi$ ), the system of Fig. 1C would simply catalyze the translocation reaction of  $S$  toward its equilibrium. We will show that, in the presence of an oscillating  $\Delta\psi$ , a system like that in Fig. 1C can do work corresponding to the transport of  $S$  against its concentration gradient.



# Capture of Free Energy from the Oscillating Electric Field Aka: Schumann Resonance



# Professor Rutger Weaver

- Test Subjects cut off from Schumann Resonance suffered headaches, sickness, stress & emotional issues
- Health returned once Schumann Resonance was introduced covertly via magnetic pulse generator

# Mind-Body-Spirit Relationships



- This IS, (in at least part), the “connection” between the MIND-BODY-SPIRIT aspects of our lives!



Dr. Albert Szent-Gyorgyi

# The Pioneers

Dr. Robert O Becker

BRAINWAVE STATES

ANESTHESIA (Induced)  
REPAIR &  
REGENERATION

SLEEP

Dr. Ralph Gerard

Dr. Olena Bukalo



# The Pioneers

Dr. Albert Szent-Gyorgyi



Physiologist – Nobel Prize

- Discover of Vitamin C
- Free radical association
- Cancer as “an electronic problem at the molecular level”

Dr. Ralph Gerard



Neurophysiologist /  
Behavioral Scientist

- Nervous System/  
Nerve metabolism
- Biological basis for  
Schizophrenia

# The Pioneers

Dr. Robert O Becker



Dr. Olena Bukalo



- Healing and Repair
- Voltage Level
- Current Reversal
- Mental Reset
- ANESTHESIA (Induced)
- REPAIR
- REGENERATION

# Pineal Gland – Creator of Hormones, Feelings, and (maybe even) States of Consciousness





# Pineal Gland – Creator of Hormones, Feelings, and (maybe even) States of Consciousness

Pineal Gland



Anti-Oxidants



Sleep



Serotonin & Other Messenger Molecules



Repair & Regeneration



# Natural Healing from Within

Day (Active) Mode

Pineal Gland

Anti-Oxidants/  
Free Radical Scavenger

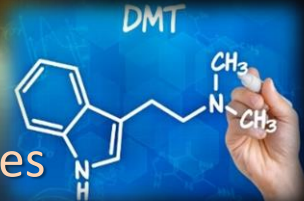
Repair & Regeneration

Sleep

Serotonin & Other  
Messenger Molecules

Night (Sleep) Mode

VSG





# This Natural Signal can be Emulated Electronically





# VSG is a supplemental tool for when you cannot access the natural rhythms of life!



VSG



Day Mode



Night Mode



Helping to restore access to the natural rhythms for natural healing and mental health

# Schumann as a Source of Power



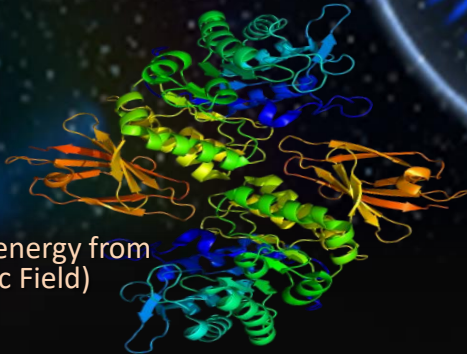
Spacecraft/Spacesuits



Schumann Resonance

Enzymes

(Capture of Free energy from  
Oscillating Electric Field)




Cellular Energy





# Day / Night



*The processes which should be occurring for good health are as different as DAY and NIGHT. We can assist in different ways (with the same tool!)*



# PulsedTech/HER VitaSet Generator



*Helping to restore access to the Earth's  
rhythms for natural healing and mental health*

# Guided Entrainment to Specific Brainwave States

B  $\beta$   
Beta



12 – 27 Hz

ACTIVE  
MODE

$\Gamma$   $\gamma$   
Gamma

27 Hz and UP

A  $\alpha$   
Alpha



8 - 12 Hz

SLEEP MODE

$\Delta$   $\delta$   
Delta

.2 - 3 Hz

$\Theta$   $\theta$   
Theta

3 - 8 Hz



# Everyone Needs One or the Other



# VSG



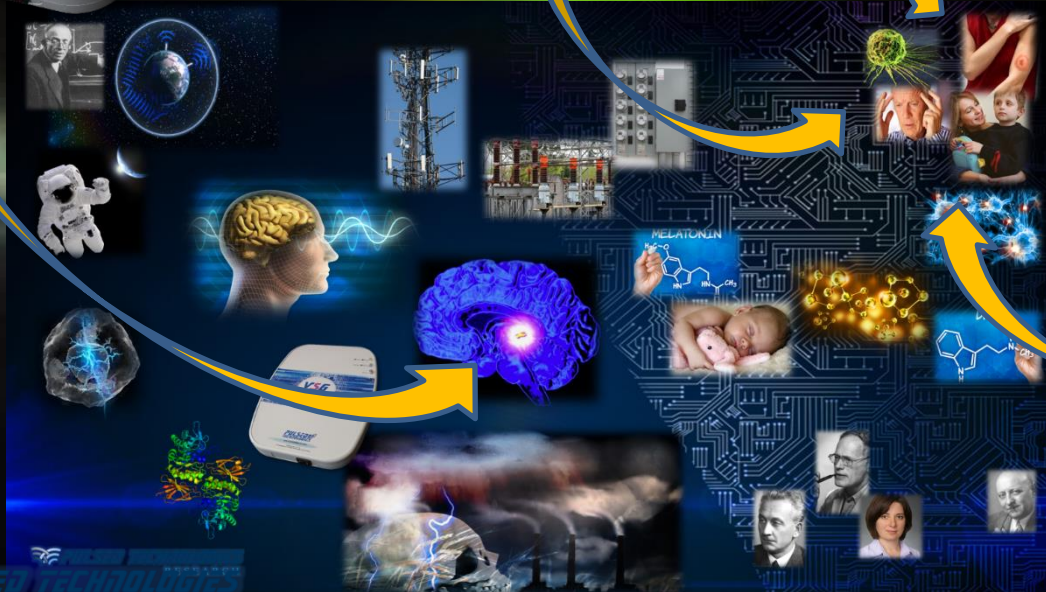
## P3 and P3+



## P3pro



**PFG**



# Or BOTH !

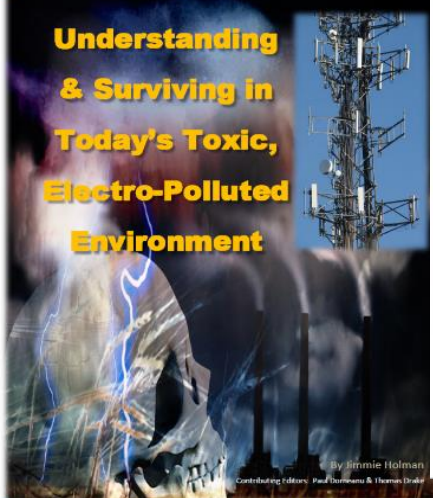


# Important Articles on the Subject

[www.PulsedTechResearch.com/holman](http://www.PulsedTechResearch.com/holman)

The ELECTRIC WOMAN - Series 2 - Physics & Physiology

## Understanding & Surviving in Today's Toxic, Electro-Polluted Environment



By Jimmie Holman

Contributing Editors: Paul Dornesau & Thomas Drake

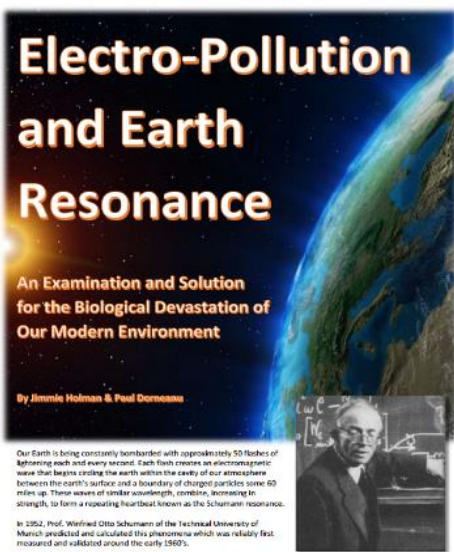
Electro-Therapeutic Approaches to Personal Disease Management and Health Maintenance

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## Electro-Pollution and Earth Resonance

### An Examination and Solution for the Biological Devastation of Our Modern Environment

By Jimmie Holman & Paul Dornesau



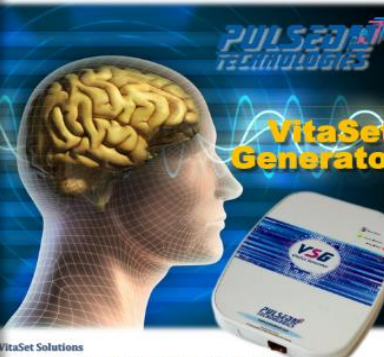
Our Earth is being constantly bombarded with approximately 50 flashes of lightning each and every second. Each flash creates an electromagnetic wave that begins circling the earth within the cavity of our atmosphere between the earth's surface and a boundary of charged particles some 60 miles up. These waves of similar wavelength, combine, increasing in strength, to form a repeating heartbeat known as the Schumann resonance.

In 1952, Prof. Wilhelm Otto Schumann of the Technical University of Munich predicted and calculated this phenomenon which was reliably first measured and validated around the early 1960's.

**PULSED TECHNOLOGIES RESEARCH**

[www.PulsedTech.com](http://www.PulsedTech.com) [www.PulsedTechResearch.com](http://www.PulsedTechResearch.com)

## VitaSet Generator



**VitaSet Solutions**

Electromagnetic usage as described in *Electro-Pollution and Earth Resonance: An Examination and Solution for the Biological Devastation of Our Modern Environment* (early 2013), discusses our ever increasing problem often overlooked or even unknown to most people today. Access to the natural signals of the earth are important to human health. Many of our metabolic rhythms rely on these critical cues. With our ever decreasing ability to access these natural signals, it becomes very important to simulate and supplement them whenever or if possible. It should be important to note both foreign and domestic space flights and space stations all now are reported to have some mechanism or equipment on board to provide those necessary natural rhythmic signals that do not exist outside the Earth's environment. In today's world, shouldn't we also have access to similar technology?

**Electro-Pollution Earth Resonance**

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**Pulsed Technologies' VSG - VitaSet Generator**

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## Anatomy & Inspiration for Design

...of today's VitaSet



**PULSED TECHNOLOGIES**



# LIFE EXTENSION

Pulsed Technologies



# Life Extension

The Choices are YOURS!

- **Raw Foods** = substances for rapid cell repair
- **Supplemental Energy** = more efficient metabolism and internal communications
- **Target Pathogens** = get rid of the physical/chemical drain on YOUR bodily resources





# Longevity, Aging & Healing

- In both aging (Barker, 1983) and degenerative conditions cells **lose their membrane charge**. Photo and **frequency therapy** has the ability **recharges cell membranes**.
- The cells can then use this energy in many ways; but most especially in **production of ATP**, the “energy currency” of the living tissue.
- In restoring the charge of the cells that are functioning sub-optimally, the body can be moved naturally towards a state of health, which is manifested by faster tissue regeneration (Vodovnik, 1992).



# Aging Reversal

- New synthetic molecules, versions of natural tera-peptides show increasing promise they may be utilized to deliver instruction signals via the DNA to initiate repair of failing or broken functions.
- i.e. Telomere repair



*A Sincere*  
**Thank You**

*... from the PulsedTech Team*

**PULSED**  
**TECHNOLOGIES**

[www.PulsedTech.com](http://www.PulsedTech.com)

[www.PulsedTechResearch.com](http://www.PulsedTechResearch.com)

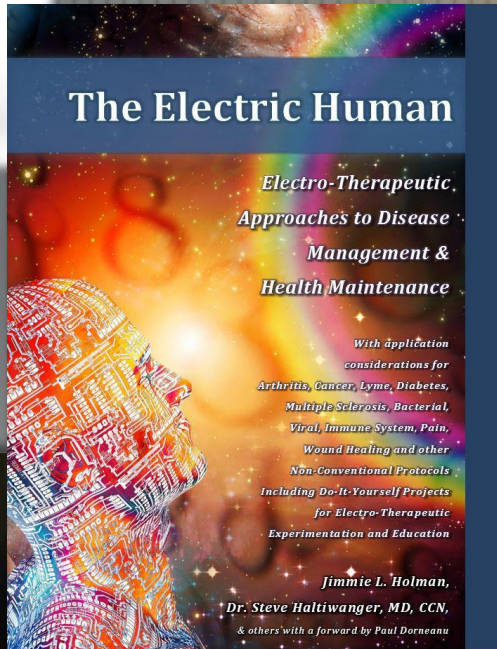
[jimmie@pulsedtech.com](mailto:jimmie@pulsedtech.com)

**PULSED TECHNOLOGIES**  
**RESEARCH**





[www.PulsedTechResearch.com/the-electric-human](http://www.PulsedTechResearch.com/the-electric-human)



# Questions & Answers

- Section 3 has an especially good “Q&A” area as well “Strategies and Considerations Briefs”

# FDA Exemption



510(k) | Registration & Listing | Adverse Events | PMA | Classification | CLIA  
 CFR Title | Advisory | Assembler | Recalls | Guidance | Standards  
 21 | Committees

## New Search

Help | More About 21CFR

[Code of Federal Regulations]  
 [Title 21, Volume 6]  
 [Revised as of April 1, 2008]  
 [CITE: 21CFR807.65]



## TITLE 21--FOOD AND DRUGS CHAPTER I--FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES SUBCHAPTER H--MEDICAL DEVICES

### PART 807 -- ESTABLISHMENT REGISTRATION AND DEVICE LISTING FOR MANUFACTURERS AND INITIAL IMPORTERS OF DEVICES

#### Subpart D--Exemptions

Sec. 807.65 Exemptions for device establishments.

The following classes of persons are exempt from registration in accordance with 807.20 under the provisions of section 510(g)(1), (g)(2), and (g)(3) of the act, or because the Commissioner of Food and Drugs has found, under section 510(g)(5) of the act, that such registration is not necessary for the protection of the public health. The exemptions in paragraphs (d), (e), (f), and (i) of this section are limited to those classes of persons located in any State as defined in section 201(a)(1) of the act.

(a) A manufacturer of raw materials or components to be used in the manufacture or assembly of a device who would otherwise not be required to register under the provisions of this part.

(b) A manufacturer of devices to be used solely for veterinary purposes.

(c) A manufacturer of general purpose articles such as chemical reagents or laboratory equipment whose uses are generally known by persons trained in their use and which are not labeled or promoted for medical uses.

(d) Licensed practitioners, including physicians, dentists, and optometrists, who manufacture or otherwise alter devices solely for use in their practice.

(e) Pharmacies, surgical supply outlets, or other similar retail establishments making final delivery or sale to the ultimate user. This exemption also applies to a pharmacy or other similar retail

- FDA provides exemption IF!!! It is presented properly and responsibly
- This is almost NEVER done by “well intended” manufacturers & sellers
- Careless marketing likely forever forfeits a product’s exemption capabilities

# FDA Exemption

TITLE 21--FOOD AND DRUGS  
CHAPTER I--FOOD AND DRUG ADMINISTRATION  
DEPARTMENT OF HEALTH AND HUMAN SERVICES  
SUBCHAPTER H--MEDICAL DEVICES

PART 807 -- ESTABLISHMENT REGISTRATION AND DEVICE LISTING FOR  
MANUFACTURERS AND INITIAL IMPORTERS OF DEVICES

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The following classes of persons are exempt from registration in accordance with 807.20 under the provisions of section 510(g)(1), (g)(2), and (g)(3) of the act, or because the Commissioner of Food and Drugs has found, under section 510(g)(5) of the act, that such registration is not necessary for the protection of the public health. The exemptions in paragraphs (d), (e), (f), and (i) of this section are limited to those classes of persons located in any State as defined in section 201(a)(1) of the act.



# FDA Exemption



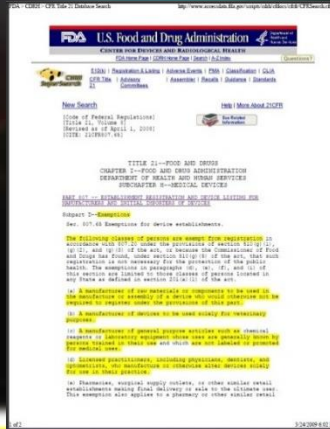
(a) A manufacturer of raw materials or components to be used in the manufacture or assembly of a device who would otherwise not be required to register under the provisions of this part.

(b) A manufacturer of devices to be used solely for veterinary purposes.

(c) A manufacturer of general purpose articles such as chemical reagents or laboratory equipment whose uses are generally known by persons trained in their use and which are not labeled or promoted for medical uses.

(d) Licensed practitioners, including physicians, dentists, and optometrists, who manufacture or otherwise alter devices solely for use in their practice.

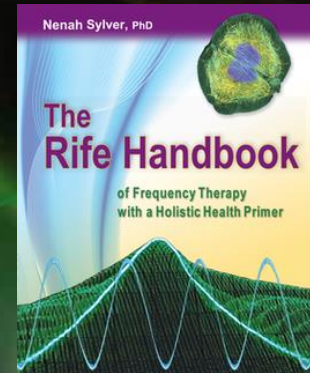
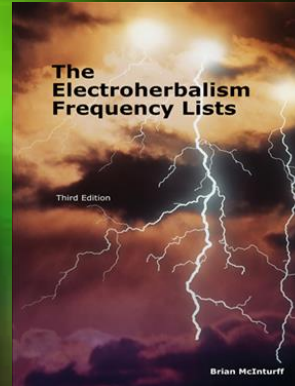
# FDA Exemption



(i) Persons who dispense devices to the ultimate consumer or whose major responsibility is to render a service necessary to provide the consumer (i.e., patient, physician, layman, etc.) with a device or the benefits to be derived from the use of a device; for example, a hearing aid dispenser, optician, clinical laboratory, assembler of diagnostic x-ray systems, and personnel from a hospital, clinic, dental laboratory, orthotic or prosthetic retail facility, whose primary responsibility to the ultimate consumer is to dispense or provide a service through the use of a previously manufactured device.

# Q&A – Plasma/Contact Frequencies

- What frequencies should I be using?
- You can choose frequencies from the software's library or from other sources. Most frequencies publically available are below 10,000 Hz. However, we recommended running Higher Frequencies. Laboratory evidence CLEARLY indicates higher frequencies are more effective. Precise waveform characteristics are also critical. This is also discussed in greater detail in the “Frequency Generation Considerations” document.

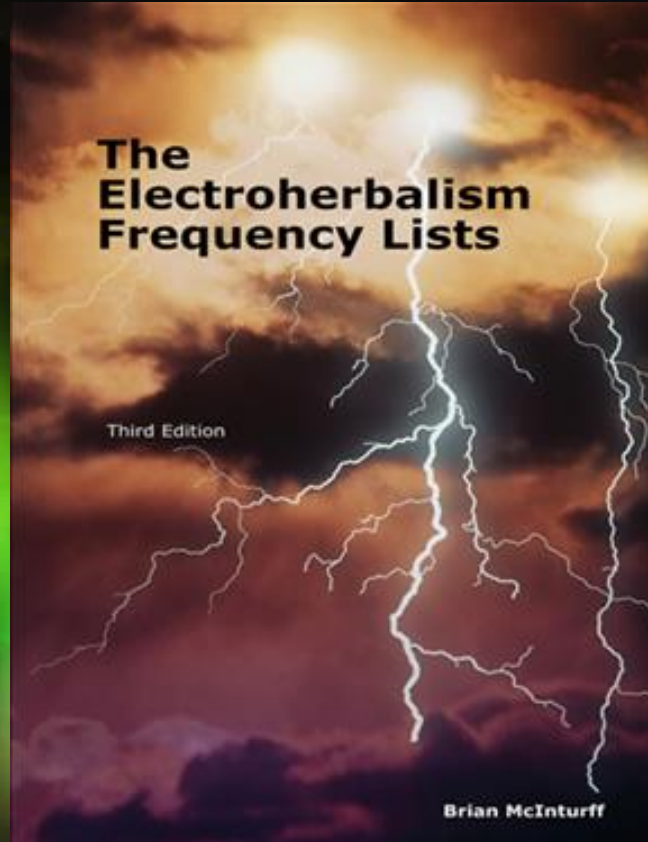




# CAFL – Consolidated Annotated Frequency List

- What frequencies should I be using?
- Its FREE !

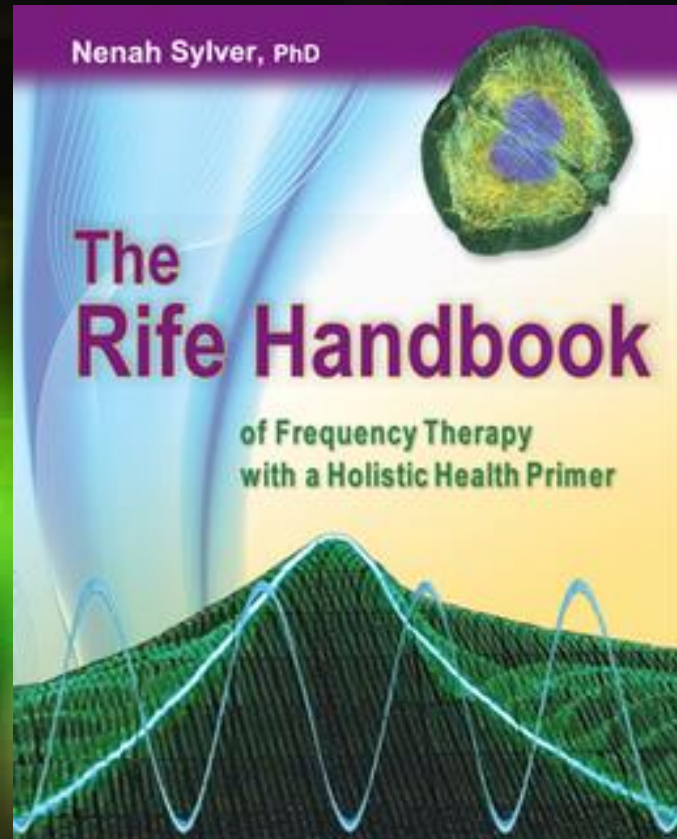
<http://www.electroherbalism.com>



# Nenah Sylver's RIFE HANDBOOK

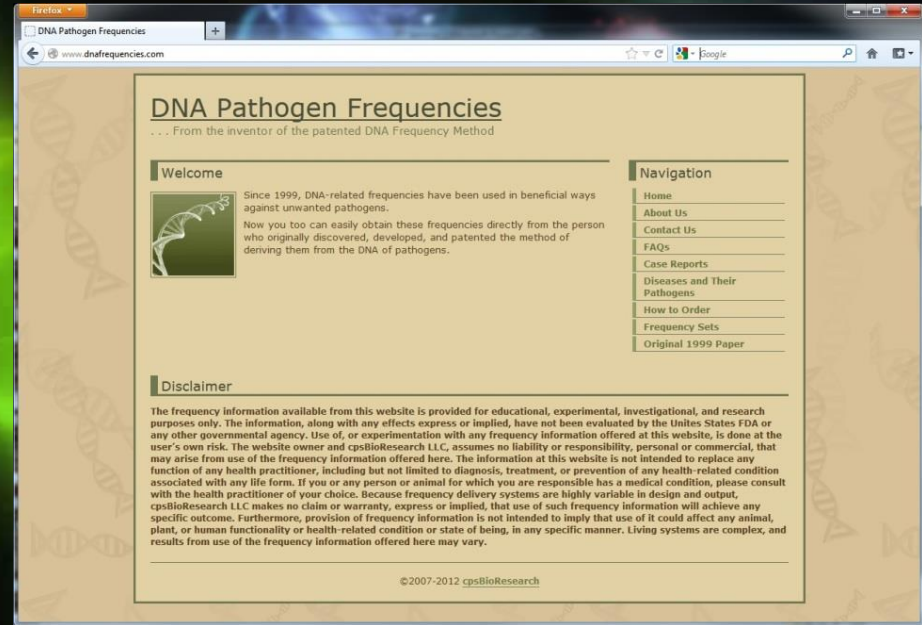
- What frequencies should I be using?
- If you have only one book on the subject, **THIS** should be the one !

<http://www.NenahSylver.com>



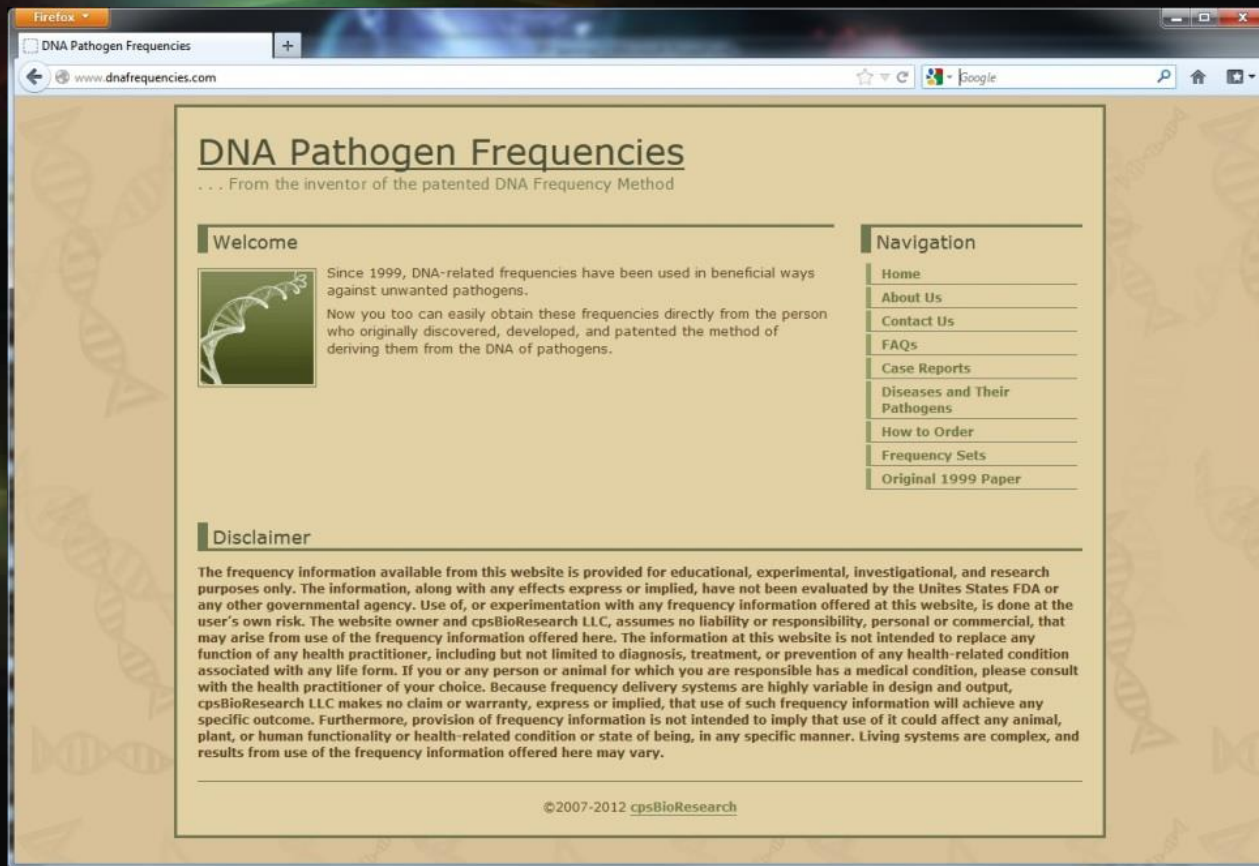
# Calculated DNA Frequencies Service

- What frequencies should I be using?
- Provides under license, custom calculated frequencies for your personal application
- **THIS SERVICE IS HIGHLY RECOMMENDED**



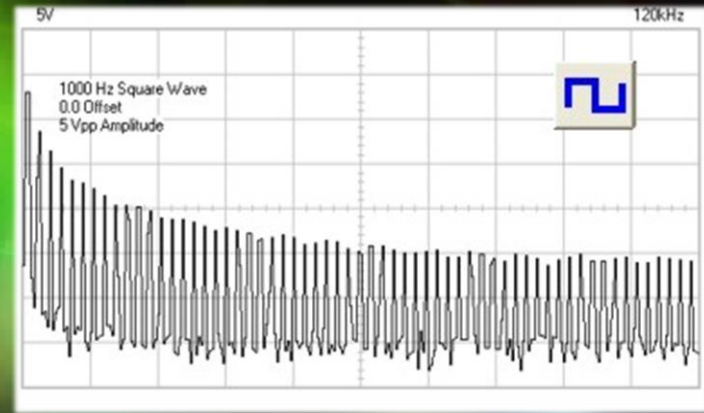
<http://www.DNAfrequencies.com>





# Q&A – Plasma / Contact Frequencies

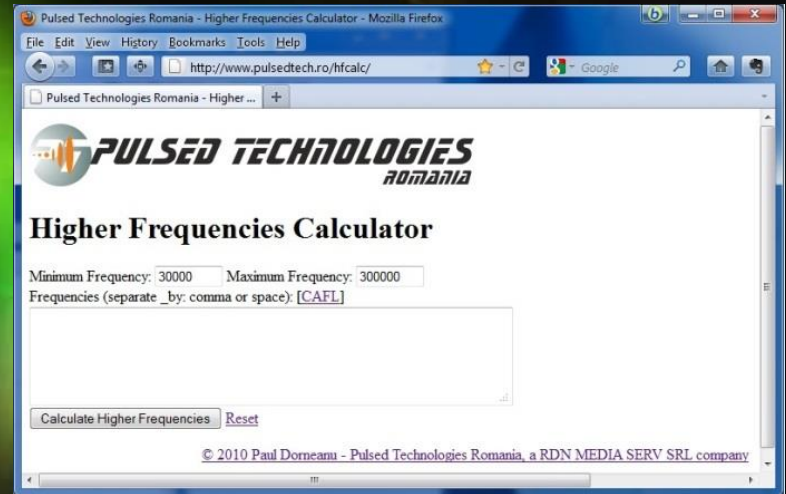
- What are “Higher Frequencies”?
- The Higher Frequencies, as we name them, are harmonics (or multiples) of the lower frequencies, usually above 20,000 Hz. to well over 100,000 Hz. Pulsed Technologies equipment both plasma and contact operate in these regions of the spectrum.
- Most available (competitive) plasma equipment is of the EMEM type and has a vastly limited frequency spectrum even less than the audio spectrum. Some claim 10-15,000 Hz but in actuality, effective emission is being stressed at only a few (3-4) thousand Hz.



# Q&A – Frequencies Calculation

- How do I calculate the “Higher Frequencies”?
- Simply multiply your base frequency with 2, until the desired harmonic.  
Example: base frequency 2727;  $2727 \times 2 = 5454$ ;  $5454 \times 2 = 10908$ ;  $10908 \times 2 = 21816$ . So, replace 2727 with 21816 Hz.
- There's an online calculator to help transform frequencies at:  
<http://www.pulsedtech.ro/hfcalc/>  
developed by Pulsed Technologies ROMANIA.

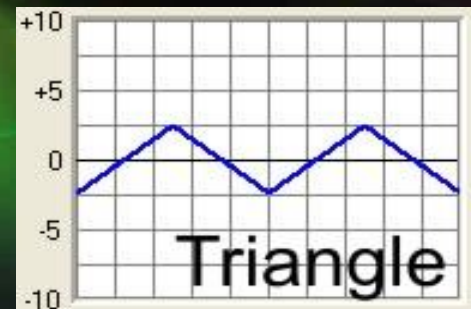
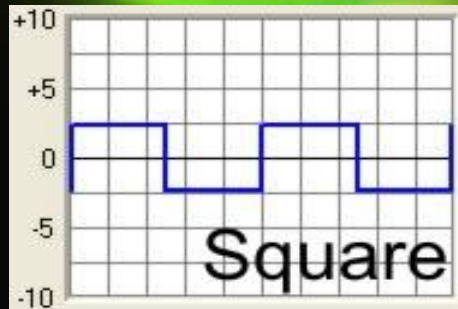
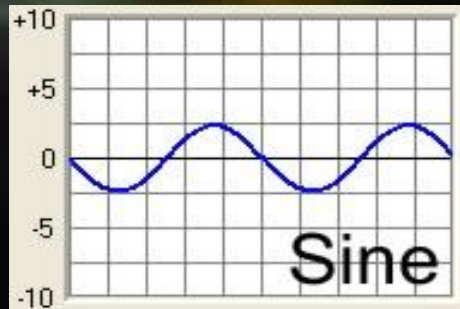
[www.PulsedTech.RO/hfcalc/](http://www.PulsedTech.RO/hfcalc/)





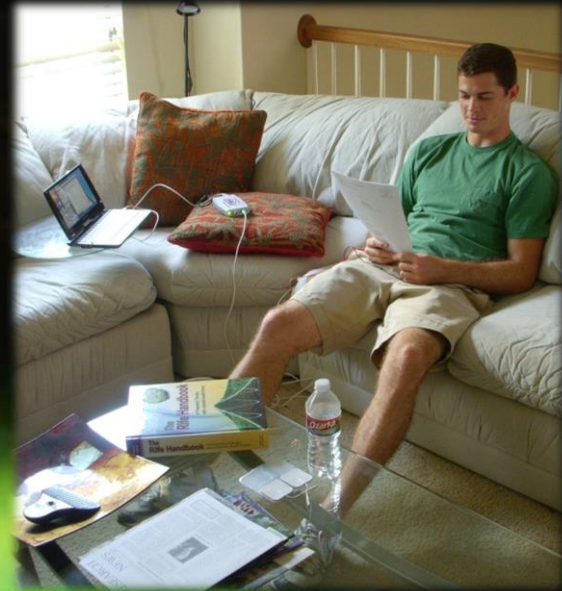
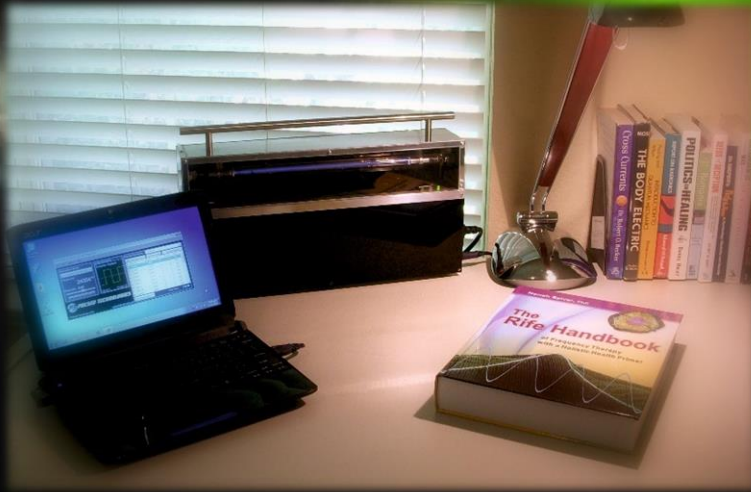
# Q&A – Waveform Function

- What waveforms (function) should I be using?
- Simply For the most part use Square. However the P3 works better when the function is “ramp\_dn”. We recommend “ramp\_dn” when desiring to optimize drive to the plasma unit
- The scope and reasoning for this is beyond this Q&A but will be address more fully in illustrated documentation



# Q&A – Device Placement

- Where should I place the unit?
- The P3 Plasma unit should be placed on a non-metallic table, desk or shelf. Avoid placing it on the floor, or in places where objects or liquid can fall on the unit.



- The PFG contact unit can be conveniently located at or nearby casual work and relaxation areas. An extension cable is provided to allow for less restrictive use.

# Q&A – Plasma / Proximity

- **How far / how close should I be from the P3 plasma unit?**
- It is recommended one would stay nearby ... typically within the same room. Anywhere up to 50 feet (15 meters) or more is ideal
- **Do I need to be in the same room with the P3/P3+ unit?**
- Not necessarily. The waves/fields generated are apparently effective across rooms, through the walls. Within the same household should be fine.



# Q&A – Light Exposure

- Do I need to see or to be exposed directly to the light?
- Not necessarily, however this might increase efficiency. Studies are currently being conducted on how much of the effect is actually caused by the light emission itself rather than other aspects of the energy emission and coupling
- It is becoming clearer that the light itself is not the mechanism causing the effect/s but may rather be the “carrier” of the energy and information



# Q&A – Tube Breakage

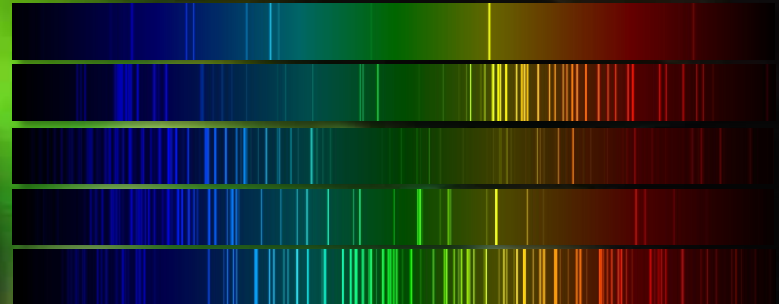
- What if the glass / plasma tube breaks? Is it dangerous? Can it be replaced?
- This has happened only one time in over 10 (ten) years. If during operation, shut off the unit immediately, and do NOT try to repair yourself!. Pack the unit carefully into the box and send it to us.

***DON'T WORRY ABOUT IT!!!!***

- We can easily replace the tube. Breaking the tube won't inflict any danger on you, (except the broken glass). All Pulsed Technologies P3, P3+, and P3pro designs use ONLY “inert” noble gases and NEVER contain ANY mercury, lead or anything harmful.

# Q&A – Plasma Tube Gases

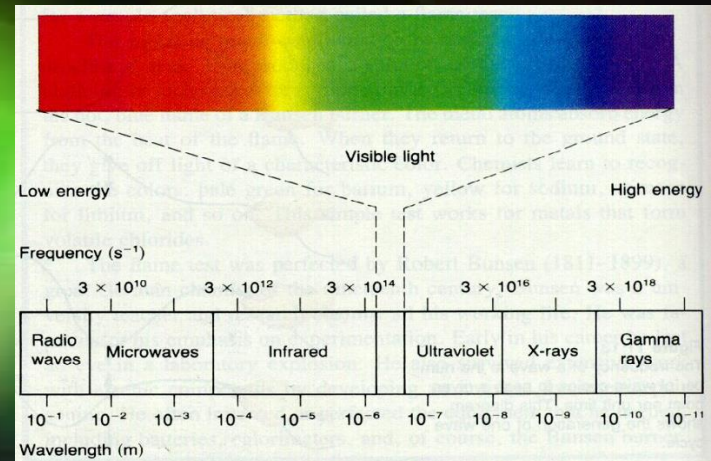
- What does the plasma tube contain?
- The glass / plasma tubes contain noble gases in a complex and proprietary mix: Neon, Argon, Krypton, Xeon and sometimes Helium, thus assuring a wide and complete spectrum generation. Each of these gases are among the most stable of elements and chemically inert.
- The glass itself is known as Pyrex, a pure non-leaded glass.





# Q&A – Plasma Tube Emissions

- Are there any harmful UV emissions from the P3's plasma tube?
- NO. The P3's spectrum is carefully designed to maintain operation within safe limits. The Therapeutic Window extends to both sides of the visible light spectrum into BOTH the infrared as well as the ultraviolet
- The emitted spectrum does not extend so far into either range far enough to enter the (human) biologically harmful areas.
- The tube is NOT activated by RF !!!!



# Q&A – Plasma Tube Longevity

- How long should the glass plasma tube last?
- The plasma/glass tube itself has an exceptionally long life and should provide many years of service even under heavy use
- There are plasma systems built over ten years ago still in daily operation. All known P3 plasma systems manufactured to date are apparently still in operation
- The plasma tube contain “getters” which electronically, at the atomic and molecular level, attach to and absorb impurities that have worked their way into the tube over time



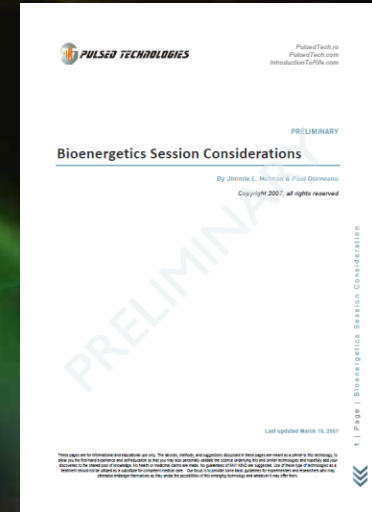
# Q&A – FailSafe System

- My P3/P3+ interrupts while running a frequency. What should I do?
- The most probable cause is the core overheating and there's an automatic fail safe system that turns off the unit to cool down.
- What can you do:
  - Assure the unit has proper ventilation and that the end caps are not covered.
  - Move it away from heat sources.
  - Adjust the offset (if your PFG device allows for programmable offset adjustment; PFG2X does not)
  - Change the waveform/function (square, ramp\_dn or other)



# Q&A – “How Long”

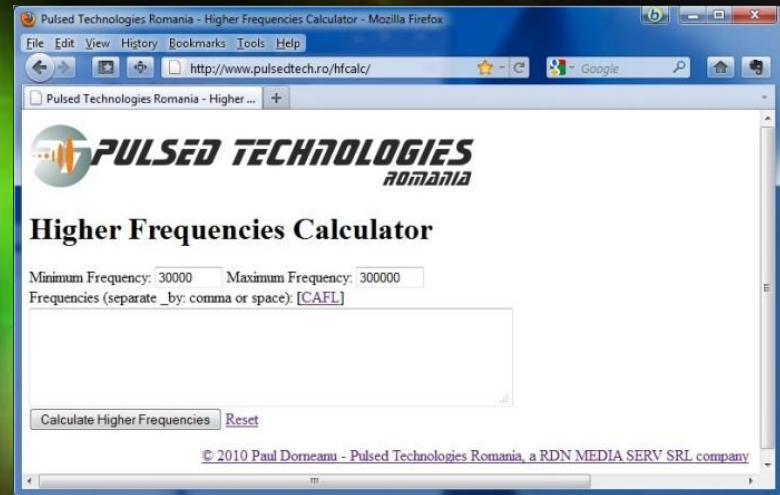
- How long should I run the unit/frequencies?
- Less is generally better than “overdoing it” Use it for how much you feel necessary or beneficial, don’t overdo it. If it makes you feel BAD .... THAT is “too long”! (It also typically means it IS WORKING!)
- We recommend you to refer to the document Bioenergetics Session Considerations (PDF, 4.7MB) for more information.
- Usually, running individual frequency from 120 seconds up to 300 seconds should be enough. Individual scripted sessions, even in severe crisis scenarios typically 1-2 hours total.



# Q&A – Frequencies & Time

- I have too many frequencies and my sessions take a lot of time to run, what should I do?
- Using the Higher Frequencies Calculator (URL below), will identify duplicate harmonics even if the base frequencies are different. You can also split frequencies and determine which frequencies are more efficient. Do not neglect the others!

[www.PulsedTech.RO/hfcalc/](http://www.PulsedTech.RO/hfcalc/)



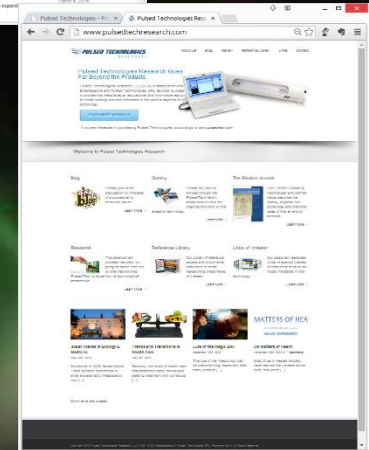
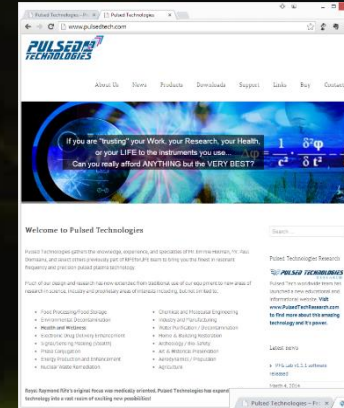
# Q&A – Frequencies & Time

- **What are sweeps? Do I need it?**
- Sweeps are useful for more limited equipment. They are ultimately not desirable for the most effective results. We have learned that, when using Higher Frequencies, there is much less the need for sweeps. For lower frequencies you can create frequencies close to the base frequency, within 1 or 2 Hz range. Example: base frequency 2727. Use the following frequencies to emulate sweep, by adding or removing 0.5Hz from the base frequency: 2726, 2726.5, 2727.5, 2728. The recommend higher frequencies would be: 21808, 21812, 21820, 21824, 21816 (calculated using the Higher Frequencies Calculator)
- This important issue will be discussed in detail in the Bioenergetic Session Considerations document



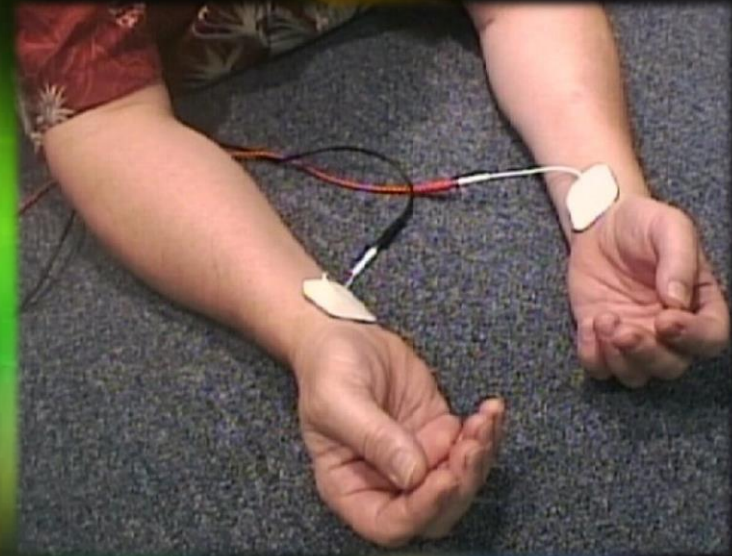
# Q&A – Documents

- Where are the documents located?
- Most of the documents referred to here, including this one, are freely available on the Pulsed Technologies website as well as the provided software CD.
- <http://www.PulsedTech.com/support/>
- Additionally many pertinent articles, video, research, discussion and related content are being made available via the research website.
- <http://www/PulsedTechResearch.com>



# Q&A – Electrode Placement

- Where do I place the electrode pads?
- This is a strategy best prepared between the practitioner and the client although many practical examples may be given in accompanying documentation.
- There are many variables to consider, however strategic placement can affect exceptional results where casual placement may still be effective but at a less accelerated rate.



# Q&A – Direct Application

- Should I apply electrodes directly to a “problem” area?
- Most situations are well served by application over a wide area HOWEVER ..... Sometimes pathways are impeded by scars or toxins which may prevent signals from getting to the “target” areas.
- Localized placement with the path between electrodes traversing the target pretty much assures direct and successful delivery of signal.



# Q&A – Tingling / Feeling

- **What if I don't feel anything, ...Is it working?**
- **CONTACT APPLICATION** – In direct contact applications it is likely you will feel something at lower frequencies although as you go higher in frequency you may feel little to nothing at all ...even at full power. It is not that the signal is low, it is simply because the body has no sensation at these higher frequencies.
- **Note:** If you feel the unit might not be outputting, shift to a low frequency at medium to high power to test. Lower frequencies should most definitely be able to be felt as a strong tingling sensation
- **PLASMA APPLICATION** – Typically you will have little to no sensation at all although many people can most definitely feel certain frequencies as they physically resonate with targets or “disturb” target pathogens.

# Q&A – Detox & Herx

- How do I minimize the reactions?
- Most of the Detoxification / Herxheimer reactions can be minimized or eliminated completely via keeping the body flushed as the application process is going on.
- Simply drinking plenty of CLEAN, FILTERED water goes a long way in this process.
- Additionally a bit of activated charcoal also helps absorb toxins released in the process.



# Q&A – Retarded Recovery

- What are some of the issues which contribute to “slow recovery?”
- **Toxicity** – foods, smoking, alcohol, pesticides, pharmaceuticals, dental, chemo
- **Subject Compliance** – not following directions, not using recommended supplements
- **Organ Dysfunction** – physical damage, chemical, congenital
- **Malnutrition/Cellular Chemistry** – supplementation, diet
- **Geopathic/Electromagnetic Stress** – environment
- **Misc.** – Age, congenital, compromised immune, lack of family support
- *Others - ??????????*

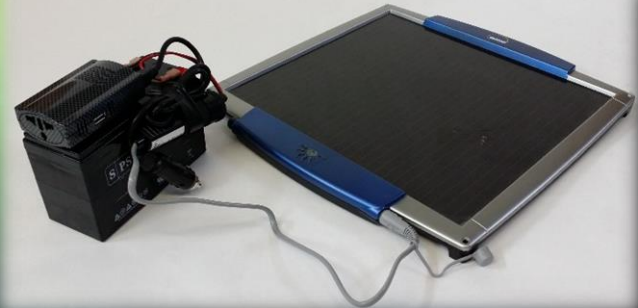


# Q&A – Emergency Operation



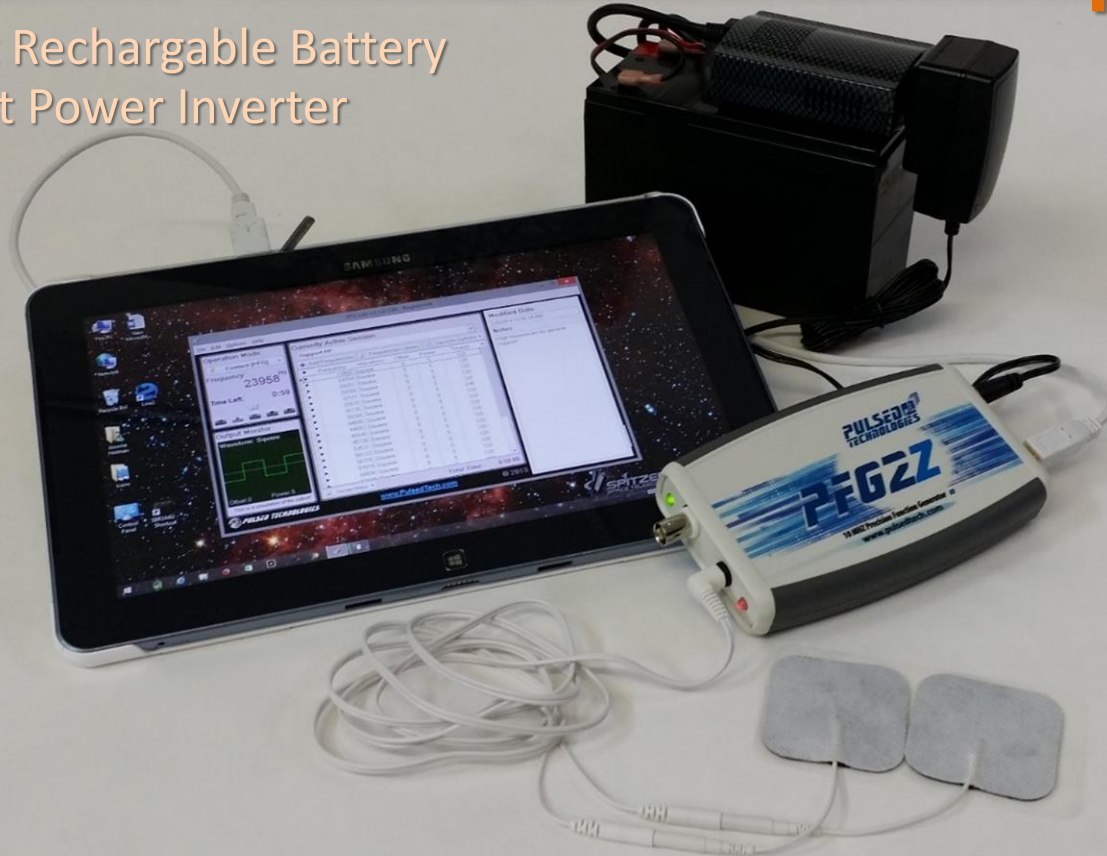
- Can the PulsedTech Instruments be run on portable power or in emergency conditions?

- Absolutely ! All Pulsed Technology products have been designed to operate almost anywhere in the world with varied voltage standards & power conditions.
- Emergency Generator is great ...but OVERKILL for most modest needs.
- A single rechargeable battery with simple power inverter should prove sufficient for most users' needs.



# PFG2z Portable Operation

- 12 volt Rechargeable Battery
- 90 watt Power Inverter

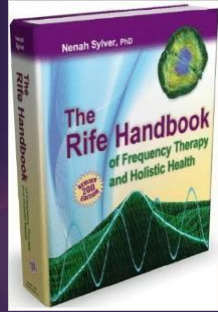


# Portable Power for PFG2z Operation





# Q&A



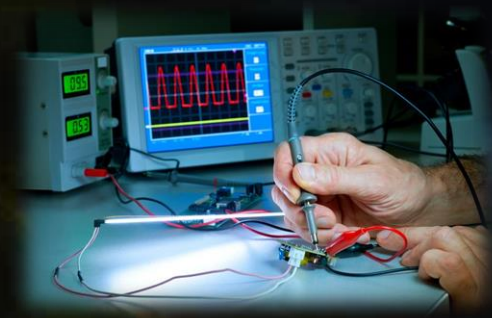
*Dr. Nenah Sylver, PhD, author of the Rife Handbook recently presented us the following question for comment. In such a few words, this question is really the composite of many different questions we at Pulsed Technologies have received over the years, but one whose deserved understanding reveals a much fuller view of the technology itself and the desired solutions.*

**“Using the Correct Frequencies, I started getting results, but the therapy is no longer working for me. ...Why?”**

*This is an EXCELLENT question but one that, if properly considered, leads to a relatively complex answer, but an answer that leads to a much better understanding of the situations, mechanisms, equipment considerations, and strategies for further advanced use and infinite possibilities. This is a question that is often asked in many different ways but thank you very much for the elegant simplicity which sums up so many other questions. There are well over a dozen different issues that should be considered here; I will try to go over at least some of them*

- **EQUIPMENT is FAULTY**

- The easy answer (but not likely the pertinent one) , the **EQUIPMENT is FAULTY** or there has been a change performance. All responsible manufacturers understand this possibility and typically have procedures in place for repair or replacement. Even the best of electronics fail, and "infant failure" is a failure when the equipment is very new, and is also the most common time for component failure. At least some manufacturers run the equipment for hours, days or weeks to help insure that IF this type of failure is going to happen, it typically occurs during this testing. The component are replaced and re-tested again before it is made available for sale or shipped to the client. Also, new-user unfamiliarity with relatively new technology sometimes explains some really careless mistakes such as utilization of an incorrect power supply or substitution of an accessory not designed to be connected. These are all things that can be fixed. The following more likely scenarios needs to be learned and considered for optimal results!



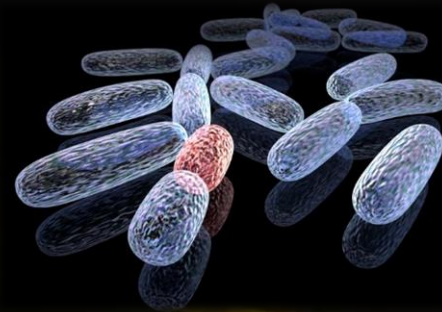
- **FREQUENCY**

- Are you positive you “have the right frequency” or more likely frequencies? How do you know? Your question suggests you do NOT actually “NOW” have the correct frequencies for your needs. It strongly suggests you are close or have very effectively addressed PART of the problem! You shouldn’t stop now but immediately progress to some of the other issues.
- *Note: If you HAVE killed the pathogens and are neglecting the mutations, you may be creating a problem worse than what you began with*



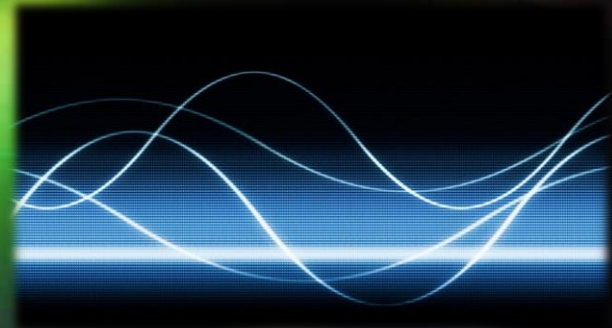
- **MUTATIONS**

- Mutations cannot be ignored and should be, if possible, carefully considered from the very beginning. Let's assume you had and were using, as your statement proclaimed, the "correct frequency" for pathogen X. Just the normal evolution of organisms realistically provides for the offspring to have slightly different characteristics (including frequency) to help insure their survival. In an environment where that is being intentionally assaulted, it is expected that many of those at the target frequency will be terminated and those mutations that have moved slightly or far enough away from the original frequency will survive. The continued assault on the original pathogen frequency will encourage their mutations even further away from the original frequency. It is very possible you HAD the right frequency, but now are "off" slightly or not addressing what is needed NOW.
- *Note: With antibiotics this situation would require years of new development, clinical trials, many millions of dollars, and would likely be obsolete by the time it made it to market. This is precisely what we are currently experiencing with the gram negative bacteria, the MRSA's or the "superbugs", for which there is no longer any effective treatment. We are fortunate! With this technology, it is possible to simply and immediately address these mutations with thoughtful frequency additions if your equipment allows for that.*



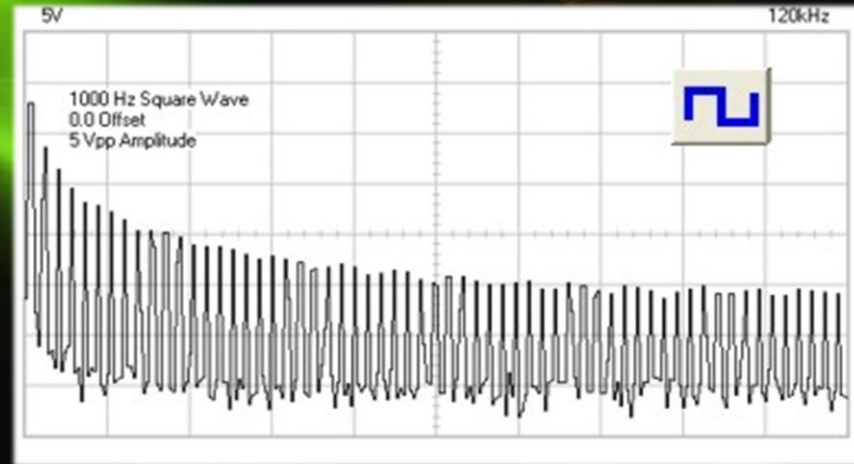
- **FREQUENCY RANGE**

- The issue of frequency is actually a bit more complex and MANY attributes need to be considered. Frequency Range is of course important. The use of the square wave has been universally used because it is harmonic rich. For a long time, Rife manufacturers have realized the frequency capabilities of their equipment would not extend into the realm of the ACTUAL Mortal Oscillatory Rate (MOR), which is the actual frequency that the target is resonant with where energy is readily transferred/absorbed. A simple analogy to this is hitting Low C note on a piano causing all Cs strings to vibrate when the High C is the actual intended target. By relying on the **HARMONICS** (multiples of the frequency) to reach the intended target, several other issues become very important.



- **POWER**

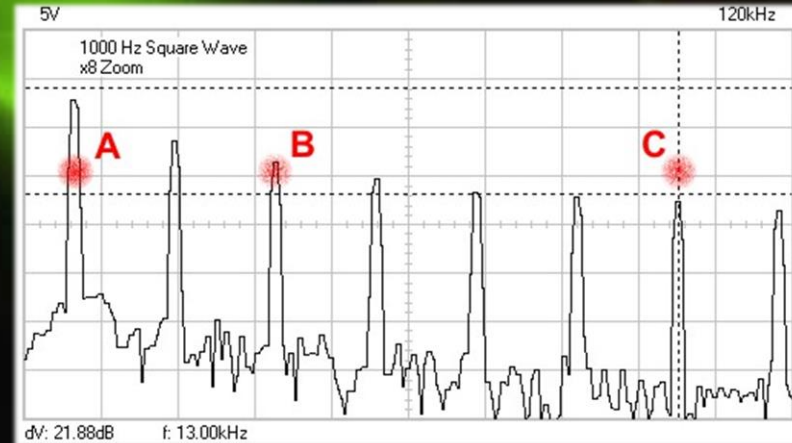
- Each and every harmonic is not quite as powerful as the one closer to the original FUNDAMENTAL FREQUENCY. The actual amount of power required to bring about a desired effect may not be sufficient even if the accuracy is spot on.





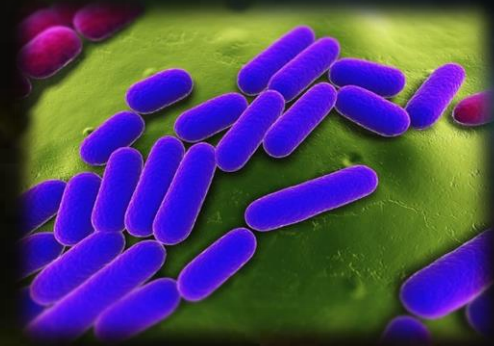
- **FREQUENCY ACCURACY**

- While having the correct frequency is understandably important, it is likewise crucial to remember that any minor error is multiplied each and every harmonic so that the frequency energy being delivered at intended MOR may be many tens (or even hundreds) of Hz "off" what is required to "hit" the intended target when magnified up the scale.



- **KILL PATHOGENS**

- If you are fortunate enough to be "spot on" at the intended harmonic, and are successful in devitalizing the intended targets, are you addressing the mutations? Probability is that you are NOT! What you perceived as "started getting results" was likely the successful intended kill off of your targets. The mutations were not being addressed and are themselves mutating further away from the frequency being used. Those offspring born that fall within the realm of frequency being addressed are likely being killed but in actuality by not addressing the mutations are creating a problem that either MUST be addressed even more aggressively later.



- **KILL MUTATIONS**

- To prevent creating a problem worse than what you began with, it is absolutely mandatory, at some point, to also address the mutations as well as a major component of your overall strategy. Unfortunately some equipment manufacturers hide their information in "codes" and private protocols. While this may work for the initial run, the client often experiences the precise situation expressed in your initial inquiry. Without the specific knowledge of what is being utilized, the end-user is unable to adjust and address the "new problem" that has been created by the naturally evolving mutations. Equipment and/or associated software needs to be able to precisely address BOTH the original target and close adjacent frequencies.
- *Note: When under professional care, irregular visits to for in-office treatment can also exacerbate and encourage the mutation of pathogens which is why most reputable practitioners encourage purchase for regular self-administration.*





- **DWELL TIME**

- A consideration that is often not considered by persons new to Rife concepts is the importance of dwell time. Dwell can take 2 forms, (1.) the percentage of time the wave is being delivered in the "on" as opposed to "off" state, (this is also called Duty Cycle), .... OR the more important being, (2.) the actual time the specific resonant frequency is being delivered. Both are critical to complete and effective delivery as energy transferred over time is cumulative and breaks in application equate to absorbed energy being lost. It is very important not to "let up" until the intended job is done. Not enough time per frequency only delivers to the weakest of the organisms, and while it may be perceived as kill-off and improvement, the person is encouraging the growth and mutation of those targets that are the most virulent.



- **WAVEFORM**

- While we previously expressed the importance of frequency and being able to administer frequency accurately with sufficient power, another critical component of the resonant frequency delivery process is purity of the waveform itself. Especially when using “square wave” as most “Rifers” are to have harmonics reach the intended MOR, the wave shape on the front end of the wave, the “Rise Time” if not relatively fast, is interpreted by the body as a foreign signal. Through a bio-chemical mechanism, the body itself prevents this electrical signal from passing electrons there by nullifying the intent of the user and rendering further application meaningless. Unfortunately, much of the available equipment has not addressed these issues critical for effective application. Anything past the first few minutes is far less efficient or even useless. Frequency distortion caused by application of multiple frequencies at the same time should not even be considered. Applying more than one frequency cannot help but cause WAVE INTERFERENCE; it is a simple, demonstrable, and undeniable principle of physics. While this may sound like a great timesaving “convenience”, it is unfortunately largely “manufacturer marketing”, taking advantage of less technical users who have trusted their equipment manufacturer to have researched much of the needed technical information for effective and pertinent use.

- **REGULAR & CONSISTANT APPROACH**

- From the above points, you can see a strategic, planned, and consistent approach is needed for effective use. By wavering from the strategic plan, taking vacations from treatment, gives the target pathogen “army” the time to regroup, recover, reorganize, and the opportunity to become an even more formidable foe. A consistent strategy it to constantly reduce the target army, continually keep it in their weakest form with the inability to reproduce until totally removed is needed.





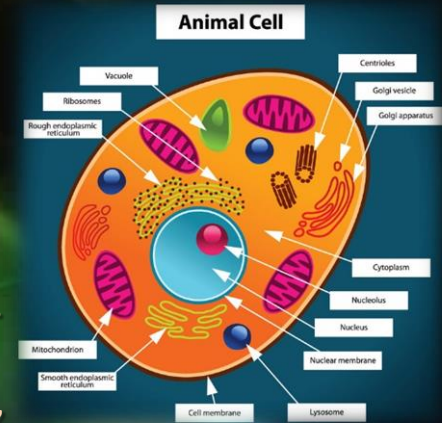
- **MECHANISMS OF ADDRESS & RESPONSE**

- The Rife community has for many years largely focused primarily on the devitalizing or destructive nature of targeting pathogens. There is SO much more this technology is capable of when one closely examines the underlying physics. By doing so opens up new realms and possibilities, so many that the targeted destruction should become only one small part of a coherent strategy, instead including many of the body's natural mechanisms as part of the overall protocol.

- **REPAIR OF ENVIRONMENT** (Time for Repairs – Time of Day)

- One of the major non-destructive mechanisms eluded to above has to do with repairing the environment within the body which is allowing or assisting the adverse situation to occur. This can actually be accomplished in several different ways. (For example, a low pH - acidic tissue equates to a desirable environment for pain transmission and pathogenic growth) Simply the nature of electronic device use provides electrons to move that local environment toward a higher pH forming a less hospitable location for reproduction and growth. This can occur even if the **WRONG** frequency is used! Additionally, the powering of metabolic functions also occur boosting immune function and "jump-starting" functions that may be deficient or not working at all.

- Sufficient Time is needed for these modification of the body environment. Specific "time-of-day" also must be considered. Many of these crucial re-constructive repairs that occur happen **ONLY** at night. The body operates in scheduled cycles. Although late evening is often the most convenient time for most folks to have a session, this is in most cases the **WORST** time to do so as it interferes with the natural metabolic cycles, postponing those repairs till the next daily cycle. Early morning to late afternoon, the time when the body is meant to eat and exercise is the ideal time for application, working **WITH** your body for most efficient delivery.



- **EQUIPMENT CAPABILITIES / DELIVERY METHOD**

- A very important consideration is one of capabilities and features. Does it have the ABILITY to address what you are trying to address with the method, accuracy, range, and precision needed for your particular application. Penetration into an area such as bone may require a more complex strategy, better waveform, or a radiant rather than contact method. What is most important is that the equipment utilized be sufficient for COMPLETE delivery of the desired protocol and that it can conform to the changing user needs.



- *IN SUMMARY ...*

- Setting aside possible malfunction of the device used, what you observed or have experienced is normal even with the best of instruments. Limitations of devices, completeness of strategy, misuse, etc., all describe the problem outlined in question, but one which CAN usually be overcome as experience and a broader knowledge of the technology develop. A Strategic, Aggressive, and Consistent approach is the logically best and most effective approach. Even the worst of tools can often be effective if capabilities are understood, their deficiencies recognized and planned coherent strategies properly used. The original question obviously disregards many or all of the important considerations; the very things that a prudent user learns along the way in normal operation and application of their instruments and protocol strategies. Thanks again for such a great question!

- YOUR Question HERE
- ANSWER HERE.  
Your questions are the best

