

ERIC

(Elemental Resonance Imaging Camera)  
For Humans, Animals & the Environment

# White Paper on ERIC Energy Device

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Restoring the Lost Ancient Art of Diagnostics and Energy Healing

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Department of Arts, Culture,  
Science and Technology

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## Preface

ERIC is a Human Energy Device (HED) is committed to providing a clean natural diagnostic and healing method that is non-intrusive nor destructive to the natural healing processes of the human body. In enhancing the body's natural ability to bring itself in alignment with its original nature.

ERIC reads and interprets the bio-photons being radiated from the bodys different energy systems, it is a non-invasive method of seeing into the body's functioning for the detection of disease and environmental factors affecting a person's health.

ERIC came about as a result of developing camera systems for government projects in the 1980's when it was required to be able to distinguish the different elements that make up the stars, as a star can be studied by observing the spectral lines of a star. Each type of element and molecule has a unique pattern of spectral lines that allows us to identify them. And the defining of facial features in people. This required the development of 3D imaging, splitting light into its different wave lengths and measuring the time taken for each wavelength to reach the CCD from reflective and non-reflective surfaces.

During this time when I turned this technology from looking at stars to looking inside the human body, we found a lot of noise, but this noise happened to be the individual / unique energetic signature of the person being observed, their bio-organic fingerprint, their bio-photonic frequency, each as unique as their fingerprints.

Biometrics, living security systems came to replace optical scanners.

Elemental resonance is the most advanced for of this concept that cells communicate with using living light.

Living light is a combination of photons, phonons, Radio Frequencies (radio energy waves).

Each cell is a living light reactor metabolizing nutrients that create different frequencies of light, sound, and radio frequencies in a Holistic communication between cells.

Eric is a living light interpreter slow scan TV, picture, and sound via radio.

One of the most common approaches to determining the material present in a given pixel  $x$  (called "spectral unmixing") is to use a linear mixture model such as

Figure 1

$$x = \sum_{k=1}^M \phi_k a_k + \varepsilon,$$

where  $\{\phi_k\}$  is a dictionary of approximation elements,  $\{a_k\}$  are the decomposition coefficients and  $\varepsilon$  is additive noise. Note that  $\{x, \phi_k, \varepsilon\} \in \mathbb{R}^N$ , where  $N$  is the number of spectral bands and the vectors are indexed by  $\lambda$  (which is suppressed in our notation).

When the dictionary represents spectral signatures of the various material components present in the scene, they are typically called “endmembers” and the resulting coefficients (assumed to sum to one) represent the material abundances in each pixel.

The endmember vectors are conceptualized as forming a convex hull about the HSI data (e.g., see the red vectors in Figure 1). Such a decomposition is often used for detecting the presence of a material in the scene or classifying the materials present in a pixel.

Algorithm:

Sparse coding dictionary learning algorithm of, modified for HSI, hyperspectral imagery (HSI).

Set  $\gamma = 0.01$

Set  $\mu = 10$

Initialize  $\{\phi_k\}$  to random positive values

repeat

  for  $i = 1$  to 200 do

    Choose HSI pixel  $x$  uniformly at random

$\{a_k\} = \arg \min J(\{a_k\}, \{\phi_k\})$  s.t.  $a_k \geq 0$

$\Delta\phi_l(i) = \alpha_l (x - \sum_{k=1}^M \phi_k a_k)$

  end for

$\phi_l \leftarrow [\phi_l + \mu / 200 \sum_i \Delta\phi_l(i)]_+$

$\mu \leftarrow 0.995\mu$

until  $\{\phi_k\}$  converges

## **Preamble**

This white paper is written to put into print the history of ERIC: Human Energy Device, its creation and history of its use. This is the successful invention of Dr Scott Peterson.

ERIC: Human Energy Device came into being from the studies of Dr Scott Peterson, during the completion of his Ph.D. in Archeology, Ancient Languages, Culture and Religion, he came to an understanding that the ancient Egyptian language was the preservation of the Healing Arts of RA (The Egyptian Sun God/Chief of all Gods).

That the Names of the Gods were not people, but personifications of frequencies built around the center frequency of RA, that were used for the healing of disease in plants, animals and humans.

Over the past 34 years Dr Scott Peterson set out to prove his theory, that during his studies to become an Amateur Radio Technician with the WIA (Wireless Institute of Australia), he was required to build his first radio transmitter.

During the building of it he discovered certain components reacted with the human body. When he discussed this with his other friends and colleagues, he was asked if he knew what they were, another friend asked: "Do you know the frequency of disease"?

Dr Peterson related the artifacts from ancient Egypt to possible components in the circuit design of the radio transmitter and found a similar relationship. His further studies revealed that the names of the Gods of Egypt were personifications of these frequencies. They were not people but personifications of RF (Radio Frequencies) frequencies when used in combination with their artifacts.

This theory has been proven to be correct through more than 1,000 clinical trials. It now provides a full and comprehensive concept to healing.

Dr Scott Peterson

## **CONTEXT AND SUMMARY**

### **CHAPTER 1**

#### **The Context**

#### **Vision and Goals for ERIC Energy Device**

##### **1. Introduction**

###### **ERIC Patent Dot Point**

These are the points when we were applying for the ERIC patent:

The theory behind biophotons is not new, but what new is the reading of the language created by the biophotons. Being able to listen/detect to what the human body is saying at a biological level, the language that the cells use to communicate with each other tells us if a problem is developing.

ERIC is the decoder for the three different signals that come from the human body each of these in combination forms living light, this living light requires an electronic prism to break it down into its coherent data as follows:

###### **1. Biophotons**

###### **1.1. Phonons**

###### **1.2. Radio Frequencies**

2. The algorithm that is the bases of the cameras (BIOS) operating system that decodes the light coming from the body into coherent data for the software to interpret.

3. The Hardware of the camera, the A to D (Analogue to digital) decoder that converts the raw data into codified data streams.

4. The computer software that interprets the data into medical language from the elemental raw data, it codifies how each of the diseases are associated with what element.

5. The security protocol to protect the data as it is being sent via the internet or network.

6. The file format used to store the data.

7. The RF tuning circuit that decodes the bodies signals.

8. The Tuning circuit for the sound coming from the body.

9. The software than can interpret the emotional field generated by the elements within the body, for example, the neurons require calcium to communicate efficiently, how this calcium and other elements are used by the body for each emotion, thought or feeling, etc.

10. The DNA Decoder, the DNA is the bodies book of life, it records everything that has happened from birth to death, the mother's colostrum is like a DNA download that sets the child's operating system. Being able to read how this DNA is written is extremely critical as to how a person can stop and avoid a future issue before its developing further.

Being able to do all above which means we know the language interpretation to prevent or heal health issues. Being an English man, sometimes I found it difficult to understand Chinese, most if not all doctors today can understand what is happening to the body and treat its symptoms; but they do not know their causes. Well, the good news is ERIC can trace down the body from inside out. ERIC knows the cause of disease, not just the symptoms.

ERIC in a symbiotic relationship involving 16 different disciplines. The human body cannot be taken only by its parts, but as a wholistic system involving its relationships with the environment, people, places, food, drink, and events. Because of cellular memory, and the coding of our genetics from birth to death acting as our book of records, book of life. Everything we have encountered, disease, environments, emotions, knowledge is written to our DNA. This is if the body encounters something it already knows about it can deal with it in its appropriate manner without making us sick.

1. Networking / Optical
2. Medical Biochemistry
3. Biogenetics
4. Elemental theory / Elemental photonics
5. Quantum Theory / Energy Sciences
6. Digital Media / Electro Optics / Light Microscopes
7. Biophysics / Environment Science
8. Computer Science
9. Neuroscience / Psychology / Behavioral Science
10. Cellular Biology / Quantum Biology
11. Nutritional Biochemistry
12. Photonics / Biophotons
13. Phonemics / Music
14. Radio Frequency / Electronics
15. Biometrics / Living Energy
16. Immunobiology / Pharmacology

In this introduction I will try to explain how the non-visible world becomes the visible world. Starting with the idea that everything was first imagined before it became a reality. When you have imagined it in all its details you are able to design it either on paper or computer.

Because we can create all the things we have in our life, we have to consider that emotions can also create our health or sickness. We know from other cultures that people can have will for themselves to die or live.

We can explain this in a spiritual sense as visions, premonitions, or lucid dreams, all of which can affect our health physically and mentally.

In the creation process we deal with things called archetypes, spiritual representations of living realities. Before you create anything, you must know all about it, how it will live or die, what will it eat, how will it breed, how long will it live and many more things.

How can we determine the health of living things from a pre-disease situation, how can we see the emotions that lead to disease, how can we see the nature of the elements and how they interact within the body?

ERIC (Elemental Resonance Imaging Camera) is designed to see the photons being emitted from an element, all elements radiate light at their given frequency, atomic number, that is why we can see them. Our eyes cannot see anything that does not radiate light. All things are made of energy, our soul, spirit, all life and inanimate objects.

All of these things are made of elements, the body is about 75% water, the rest is a combination of the elements arranged in specific order and function, each containing their own identity, each cell communicating with light.

Before I begin to introduce ERIC I need to explain some new concepts, Einstein wrote  $E=MC^2$ , ERIC works by  $E=MR^c$  (Energy Equals Mass Times its Rate of Change). From this we can work out how much energy will be created by anything that changes, this energy is in the form of photons.

Electrons = Physical, Protons = Mental, Neutrons = Emotional and Quantum = Spiritual. This is the construction of Archetypes.

As a man thinks, feels, loves and knows, so is He, the four pillars make up the physical world.

Nothing is bad unless thinking makes it so. Thinking and feeling lead to knowing and loving.

ERIC is an electronic prism breaking down the radiated light from the body into its relevant colors for diagnosis. Here we are looking at quantum radiance as everything has color and everything has sound.

DNA is made up of elements, it is our book of records, it stores everything that has ever happened to us, and it can be read like a book on the elemental level like watching a movie on a projector.

We are going to introduce the chemical properties of light in photonic reactions. The unseen vitamins and minerals of the etheric class of nutrients.

We will be looking at the colors of disease, emotions, elements and their affect on the bio-organic properties of the human body.

How the body transmits radio frequencies, electrical and magnetic properties. The understanding of non-local events and photo biomodulations.

The effects of living light, thoughts, feelings, desires and knowing. We are looking at energetic pathology, how illness develops and how health can be restored. Those emotions cannot be separated from the body, physics and biology becomes biophysics.

We cannot be separated from our environment, the place we are born, the type of food we eat and the soil it comes from form a symbiotic relationship with our bodies, When we change our diet and location we suffer from problems until we become acclimatized. Many of use change our location and food many times during our lifetime, this is important to know because the body replaces itself every 7 years. If we don't give enough time for our body to complete this process we induce stress in the body, eventually we don't get enough time to heal ourselves.

We are looking at the world of the invisible, we cannot see emotions or the affect they have on our bodies until it is too late, we can use biometric application for living security, but these are also not seen. We know things change, but we cannot see the cause of these changes. We cannot see how the human body is supported by our soul.

With ERIC all these things are possible.

This White Paper is based on a view of the future where ERIC Energy Device will

- help people enjoy an improved health and sustainable quality of life,
- participate in a society by means of satisfying employment and
- share in an Arts, Science, and Healing Culture.

## **2. The ERIC Energy Device Context**

In order to attain this vision, the following four goals pertinent to the creative use and efficient management of ERIC Energy Device will have to be achieved:

1. The establishment of an efficient, well-coordinated and integrated system of technological and social innovation within which practitioners can forge collaborative partnerships and interact creatively in order to benefit themselves and the people at large
2. The use of resources from engineering, natural sciences, health/medical sciences, environmental sciences and the human and social sciences are utilized for problem-solving in a multidisciplinary manner.
3. That practitioners are part of a more inclusive and consultative approach to social issues involving healing activities.
4. The development of a culture within which the advancement of knowledge & experience is valued as an important component of its practitioner development.

## **3. Promotion of Diagnosis by ERIC Energy Device**

The human body needs assistance to give an accurate diagnosis of itself when it is overcome by disease, ERIC Energy Device assists the body to overcome the disease by proper diagnosis helping to restore its normal function, this combined with the aid of vitamin, mineral and herbal supplements attuned to the frequency of the disease can be directed to the place they are most needed. Vitamin, mineral and herbal supplements are needed to help the body remove the toxins caused by the disease and the dead disease tissue.

ERIC Energy Device works by reproducing the natural Bio-etheric energy (See Footnote) signatures of the body, it can determine healthy cells and diseased cells as they vary in the frequency they give off. Bio-etheric energy is tuned to that frequency and destroys the diseased cells. Through a process of active noise canceling the cells frequency is matched to the canceling frequency and it ceases to function. Only the infected cells resonate with the incoming canceling frequency.

Until the 21<sup>st</sup> March 2019 there were no known list of disease frequencies, this list was found in the names of the Ancient Gods of Egypt, when their names were translated using the

reference frequency of RA (The Egyptian Sun God) it was found that when they were reproduced by electronic circuits they reacted as the canceling frequency for the person being diagnosed and treated.

It became necessary to find out how these ancient devices were built and operated, this answer was found in the ancient hieroglyphs. With the successful reproduction of these artifacts, and the successful testing on 28 people during the clinical trials, active noise canceling gave birth to ERIC Energy Device.

#### **4. The Emerging Field of Nutrigenomics and Pharmacogenomics**

The human body needs information to survive and grow, this information must come from our food, bio-organic food still has this information, bio-synthetic, processed food or genetically altered food has lost this information. It has all the chemical and elemental qualities but without the guiding program for the bodies effective use of it.

##### **Nutrigenomics**

The variable individual response to nutrients is to a substantial extent determined by genetics. Genes influence digestion and absorption of nutrients, their metabolism and excretion. Perceptions such as taste or satiety are also, to an extent, genetically determined. This has consequences for nutritional guidelines: because the gene pool varies between populations, optimal nutritional guidelines should be population specific, rather than general. Nutrigenomics has huge potential implications for future nutritional interventions. It is analogous to pharmacogenomics: it aims to exploit the knowledge accumulated by the Human Genome Project, and the ability to monitor the expression of a large number of genes, to devise individual dietary treatments customized to a genetic background. Metabolomics, the monitoring of metabolic response patterns to nutrients, offers further opportunities to determine individual nutrition profiles.

##### **The Genome Provides a Way to Assess the Probability of a Condition but Without Providing Information Whether and When This Probability Will Manifest Itself**

Whether and when information can be gained from the transcriptome and proteome. The proteome is arguably the richer source due to the greater functional diversity at the protein level, which can give a detailed picture of the current state of an organism. Thus, the information provided by the -omics technologies is complementary, and their use for diagnostic purposes is increasingly available in the clinical laboratory.

##### **Large Numbers of Diseases Have an Inheritable Genetic Component**

Many diseases are caused by genetic aberrations and many more manifest a genetic predisposition or component. The Online Mendelian Inheritance in Man (OMIM) database currently contains 4191 entries that associate human genes with inherited diseases. Given that the number of human genes is around 22 000, this suggests that a large number of diseases have an inheritable genetic component. Thus, the genome holds a rich source of information not only about our physiology, but also about pathophysiology.

## **Trace Elements**

Metal ions are required as active components of proteins. The most obvious of these is iron. It forms part of the proteins involved in the transfer of molecular oxygen. Other metals have been found to be essential for normal biological function. These include metals previously thought to be toxic; indeed, environmental excesses of these do result in toxicity. Such elements include chromium, selenium, manganese, copper, and zinc are called essential trace elements.

Numerous other trace metals are required for normal biologic function, for example manganese, molybdenum, vanadium, nickel, and even cadmium.

## **5. Medical Biochemistry**

Medical biochemistry covers aspects of biochemistry relevant to medicine and explains how the body works as a chemical system. It explains how it malfunctions in disease and tells how therapies are designed to restore body function.

Medical biochemistry also contributes to understanding how lifestyle, and particularly diet, influences our performance, as well as our organs ages. Medical biochemistry creates a basis for treatments customized to an individual's genetic makeup.

It describes how cellular signaling and communication systems are involved in response to our diet, environment, thoughts, feelings, emotions, and our knowledge. How stress affects our bodies.

One of the most important things overlooked in nutrition and medical studies is how food reacts to our body's temperature, it is slow cooked and chemically altered by our bodies heat, this causes major changes in our food.

We use the energy generated from metabolism to perform work and to maintain body temperature. We get rid of (exhale or excrete) carbon dioxide, water and nitrogenous waste. The amount and quality of food we consume have significant impact on our health – both malnutrition and obesity are currently major public health issues worldwide. One of the most important reasons to study biochemistry is to understand the interplay of nutrition, metabolism and genetics in health and disease.

From the biochemistry point of view, nutrition is an essential interaction of an organism with the environment. Nutrients, apart from providing energy for survival, signal the organism in diverse ways, and this in turn affects their use and storage. Nutrition underpins health and affects susceptibility to disease; both malnutrition and obesity put an organism at risk.

### **Nutritional Status Is Determined by Biologic, Psychologic and Social Factors**

The factors that determine nutritional status of an individual are the genetic background, the environment, the phase of the life cycle, the level of physical activity and the presence of disease. Nutritional status is influenced by the availability of food, its palatability and variety, and the absence or presence of illness. Nutritional deficiencies may result from dietary inadequacies or from genetically determined metabolic errors.

Every significant biological process (SBP) can be damaged when a serious, highly acute, dramatic, and isolating conflict, shock that occurs simultaneously on the three levels, psyche, brain, and organ.

At the moment of this event the biological conflict determines the location of the SBP in the brain as a so called ischemic attack and the location of the corresponding organ as a cancer or a cancer equivalent.

The development of the SBP from the event to the conflict resolution (CL) is called the healing time, if enough time has not elapsed before another event occurs, this compounds the time it would take to heal, if already 3 years are passed before the second event, the next healing time is added to and compounded on the first healing time. This means with inadequate time between event the body never gets enough time to heal, and chronic fatigue syndrome (CFS) will occur.

We can witness this during the time of war when people become battle fatigue or shell shocked which can result in PTSD (Post Traumatic Stress Syndrome). Healing PTSD often takes years of TLC (Tender Loving Care) in a peaceful environment to be healed. This type of stress can damage the ability of the body to absorb nutrients further compounding the situation through calcium, vitamin D, E, A, B6 and B12 absorption.

### **ERIC Energy Device**

**What is the frequency of disease? Do Emotions affect the body? How can these be counteracted?**

#### **General Points**

1. ERIC Energy Device is the use of frequency, or combination of frequencies for the purpose of healing plants, animals and people.
2. It is a non-invasive method for diagnosing and healing disease.
3. Target audience -- ERIC Energy Device's target audience is all people with some types of illness.

## CHAPTER 2

### Requirements underlying ERIC Energy Device

1. Introduction
2. Promoting Health and Life Creation
3. Enhancing Quality of Life
4. Developing ERIC Energy Device Resources
5. Working Towards Community Acceptance
6. Promoting ERIC Energy Device Society
7. The Importance of Ancient Knowledge
8. The Role of ERIC Energy Device Practitioners

#### 1. Introduction

In this chapter the basic requirements for a Practitioner, which is consistent with a vision of innovation in ERIC Energy Device, are laid down. This vision embodies a coordinated effort to achieve excellence in serving the community. It is a broad vision in that it focuses simultaneously on maintaining cutting edge healing techniques and on addressing the urgent needs of those who are less able to assert themselves in their healing process.

These requirements will be treated under the following five broad interrelated themes which are regarded as fundamental to the expression of a sound Science & Technology policy:

1. Promoting health and healing of people
2. Enhancing quality of life
3. Developing human capacities and resources
4. Working towards environmental sustainability
5. Promoting ERIC Energy Device society.

In addition to these crucial areas, there are three important dimensions of science and technology which inform our strategies in ERIC Energy Device:

1. The importance of knowledge generation
2. The role of the human sciences in innovation
3. The testing, application, and continuous development.

#### 2. Promoting Health and Life Restoration

The First Stage of ERIC Energy Device.

The First Stage of ERIC Energy Device is to be able to diagnose the disease of the person with pinpoint accuracy, its size and depth using Bio-etheric cameras tuned to the frequency of that disease.

The Second stage of ERIC Energy Device is the healing of that diagnosed disease using bio-etheric energy at the frequency of that disease.

The Third stage of ERIC Energy Device is the use of the camera to confirm the complete healing of the disease.

The Fourth stage of ERIC Energy Device is the follow up and testing for further research and recording of the healing.

### **3. Enhancing Quality of Life**

ERIC Energy Device when used in conjunction with a proper diet will enhance the quality of life of those being treated by restoring the body to its original health and by using a proper balanced diet to remove any toxins caused by the healing of that disease.

A balanced lifestyle is needed to be maintained after the healing is complete, this combined with a suitable environment to prevent unnecessary stress.

### **4. Developing ERIC Energy Device Resources**

ERIC Energy Device is a part of the overall healing process, other resources need to be developed to complement its operation. A database of diseases and their frequencies need to be further developed and completed.

### **5. Working Towards Community Acceptance**

This method of healing was lost about 8,500 years ago with the fall of Egypt, although its memory was maintained in myths and legends, they were not able to be understood till this present time, ERIC Energy Device will work with the community to explain and demonstrate the effectiveness of these lost healing arts.

### **6. Promoting ERIC Energy Device Society**

ERIC Energy Device will create an effective presence in society, slowly as people's confidence grows in this method of healing, they will seek it as an alternative to current medical practices including homeopathic and naturopathic forms of healing.

### **7. The Importance of Ancient Knowledge**

ERIC Energy Device recognizes the importance of ancient knowledge, since its origin is in the lost Egyptian hieroglyphic language, it will establish a database of this language with its modern interpretation for healing in terms of frequencies.

## **8. The Role of ERIC Energy Device Practitioners**

ERIC Energy Device will train practitioners that will be certified under its current registration to provide medical equipment and services to the general public. It will train, insure and provide client services support in aiding the practitioners to earn a living.

ERIC Energy Device Practitioners will be trained to a high level of understanding of this form of healing starting with its origin and future uses, they will be constantly supported during their clinical services.

## CHAPTER 3

### How ERIC Works

#### 1. Bio-Electromagnetism

Research now has proved that thoughts, beliefs, emotions, and attitudes profoundly influence the functions of our cells, organs, and immune system --- processes that are vital to our health and overall sense of wellness.

Metalloenzymes and metalloproteins have elements in their structure, zinc, manganese, magnesium, copper, our body loses its functions with these metal groups.

Science has birthed a new mind-body medicine, and we can no longer deny that such immaterial aspects of ourselves as thoughts, beliefs, hopes, and desires can change the chemistry of our bodies. We can no longer afford to ignore the web of relationships that determine just about everything we are on a physical level.

#### 2. The Organ Brain

In earlier times, chickens were slaughtered by cutting off their heads; but it happened often that a chicken flew for another 100 meters – without its head. This cannot be explained as some kind of uncontrolled reflex because the process of flying is such a complex one, particularly without a head to boot. Thus, we are compelled to consider a coordinated organ brain, one that is capable of directing such a complex process.

#### 3. How Eric Works

Research now has proved that thoughts, beliefs, emotions, and attitudes profoundly influence the functions of our cells, organs, and immune system --- processes that are vital to our health and overall sense of wellness.

Science has birthed a new mind-body medicine, and we can no longer deny that such immaterial aspects of ourselves as thoughts, beliefs, hopes, and desires can change the chemistry of our bodies. We can no longer afford to ignore the web of relationships that determine just about everything we are on a physical level.

Therefore, we can begin to seek an even deeper understanding of our bodies and our health.

We are motivated to find the mechanisms, processes, rules, and relationships that define and determine our state of being.

As molecules give way to atoms that dissolve into subatomic particles, so that our bodies are governed not only by the laws of everyday chemistry but also by the paradoxical principles of quantum electrodynamics.

When we probe to these levels of the body, our practical questions take on seemingly metaphysical overtones. How does a thinking, feeling, creative, intelligent human being arise

from the fog of quantum particles? Where is the boundary at which the deterministic laws of chemistry give way to the quirky, probabilistic laws of quantum physics? At what level of being does illness first gain its foothold --- at the quantum level of electrons and photons or only at the level of deoxyribonucleic acid (DNA) and cells?

Is there such a thing as “quantum health”, and if so, do we have any influence over it? Which mechanisms shift our bodies from health to illness and back toward health? These are among the myriad questions that are prompting researchers in biology and medicine to forge boldly forward, extending our understanding of how the body works and creating a new kind of health care in the process.

The bio-energetic which has been the province of alternative and complementary medicine.

The body and its physiology are stimulated by fields of energy, call Energetic Synapses in Intrauterine Elemental Resonance Development (IERD), that arise from the organs as a fetus develops.

Bioenergetic fields, called Energetic Synapses in IERD, form environments in tissues to which pathogens and microbes, such as viruses and bacteria, are attracted if we are exposed to them.

Energetic Synapses form mini networks of information routes in the body-field that address distortions correlated to specific physiological issues. According to the IERD model, everything that means anything in the physical body in terms of health has its energetic and informational counterparts.

We can detect, monitor, the photonic energetic environment of our body and so can directly influence the state of our health. Our energetic physiology, which in IERD we call the human bio photonic body-field.

The human body-field is a self-organizing, self-directed, intelligent system that directs the information flow of the body, information that is crucial to the genetic, chemical, and physiological processes of the body. Symptoms are a consequence of the breakdown of biochemistry. However, chemistry is driven by the interaction of subatomic particles and waves. The root cause of disease, as most complementary practitioners will tell you, is at the level of the energy and information of your body.

Bio-organics (living information systems), that can directly influence the body-field, correcting how it processes the information vital to the physical body. The result is a novel system of healing that works in concert with the biochemical system of the body and that directly engages the body’s own self-healing capabilities. Although a tremendous amount of research remains to be done, we believe that the ERD model of the human body-field represents the dawning of a new era in health care, that our theory details the bioenergetic systems of the body more precisely than any other theory, and that our system for correcting body-field errors is more direct than any other modality, biotechnology, or remedy.

There is a deeper reality to the body, in which physics, especially the field of quantum electrodynamics, governs physiology. The interaction of quantum waves imparts energy and information that is encoded in what ERD calls the human body-field, which serves as a holographic template for the physical body.

Information is directed in the body via many kinds of energy, including electromagnetic and vibrational (as phonons, the quantum aspect of sound) energies, and via frequency and phase relationships.

As an embryo develops, the organs create Energetic bio photonic fields, which impart constitutional energy and information to the body field, and hence to the body.

Beyond providing the framework upon which ERD is built, we hope that the information above also will inspire you to see yourself as more than your body and foster a greater sense of the wonders of nature.

#### **4. Bio Organics**

Even though we have grasped only a small part of the larger picture, the implications for health care from what we have uncovered are staggering, and the opportunities for research are rich almost beyond measure.

Hence this life of yours which you are living is not merely a piece of the entire existence, but is, in a certain sense, the whole; only this whole is not so constituted that it can be surveyed in on single glance.

The mind's effect on the biochemistry of the body or by the placebo effect, which involves realizing a deeply held intention of expectation. However, we are back to asking what the mind is. If it is so powerful that it can change the state of our body and mimic the effects of pharmaceuticals, then why has medicine ignored this natural healing capability for so long, dismissing it derisively as the placebo effect, and why isn't there a project of health care to explore and harmonics it?

At the level of the quantum universe, everything is connected or correlated and so can affect or be affected by everything else, although the robustness of such connections is open to debate. It appears that information fields order the physical world. Because we are part of that physical world, it is not a huge leap to think that our bodies, over the millions of years of our evolutionary development, has inherent links to these underlying energy and information fields. Some scientists have finally taken notice and are marshaling the will and the funding to explore these mysteries.

#### **5. The Power of Information**

Although we tend to think of information as abstract and insubstantial – not a material thing at all --- scientists are beginning to view information as something as real as fields, forces, and energy. Other scientists believe that information is a kind of subtle substance that lies behind and beneath physical stuff.

However, information both drives systems and emerges from them (in effect, information can be either cause or effect). Scale matters in systems theory, with coherent patterns emerging from what might first appear to be chaos or randomness. As one moves down the scale of a system, probing ever deeper into it, one finds patterns within patterns within patterns. A system seems to imprint information about those patterns into itself, so that it can be considered to have “memory.”

Those who study the new scientific discipline called “sync,” for example, explore the physics of coherent oscillations, which occur when two or more systems resonate together, imparting information to each other. Coherent oscillations explain how individual members of a certain species of firefly synchronize themselves to flash in perfect unison, how a bridge can collapse as the result of the synchronized footfalls of people crossing it, or how electrons can pair up and move in unison to create a phenomenon called superconductivity (the completed loss of electrical resistance).

Scientists do not understand how a stem cell knows how to turn itself into a specific kind of cell – a liver, heart, muscle, or nerve cell. From where does it get its information?

Biochemistry and DNA cannot provide the full answers, for the processes they either initiate or direct are themselves dependent on information.

Throughout your body, there are trillions of chemical processes that form a tangled web of interconnections to make the enzymes, proteins, hormones, and other substances that your body needs to work properly. All of these processes must be exquisitely timed, and these substances must be produced in specific quantities and delivered with precision to the correct cells. It seems only reasonable to assume that this intricate biological dance must be choreographed by something. That something is information.

If scientists are not following chemistry down to the level of physics, how can they be sure they are not missing important and fundamental aspects of what is going on in the body? A man-made drug is a stranger in a land where everyone else is blood kin. It can never share the knowledge that everyone else was born with. As scientists shift their perspective from the stuff of life (matter) to the processes of life (energies and information), they are finding a whole new world within the body.

Having a parts list alone does not tell you what the pieces are for and how to combine them into something useful. You need an information template for that. You need archetypes, consider them the ideas or imaginings of things before they have become reality, all inventors have seen in their mind how things should be before they were created. But there is a big difference between someone who has learnt to fix them and the first idea that created them.

According to a project report environmental factors may be the single most important trigger in whether a genetic mutation is expressed or not. Scientists estimate that each of us carries between 5 and 50 [gene] mutations that carry some risk for disease or disability.

## **6. A Biology of Information**

One of the most intriguing questions in biology right now is how water works in the body – how an aggregate of water molecules in the body can serve as an information-carrying network that affects almost every physiological function. The latest research shows that DNA and genes can carry out their functions only with the help of water.

Water in living organism is called biological water. Can this type of water imprint and transmit information? Does water have memory? These are among the revolutionary questions facing frontier biologists, and they are finding that the answers are yes and yes. The research reported on in the article has demonstrated that biological water is governed by a

quantum energy called zero-point energy (ZPE), which is the lowest possible energy state of a quantum system.

Sonoluminescence is when sound interacts with water to produce light, this light become the information for how the water is to be used in its various processes within the human body, the body produces a lot of different sounds, the heart produces many different signals that affect the body. The body being 75 – 80% water gives of photons from these different reactions to identify how each of the 12 functions in the body are operating.

Evidence shows that the biologists of the future will need to shift their focus from the purely chemical aspects of biology to its quantum aspects, especially to how information is stored, transmitted, and regulated in the body at the subatomic level.

Lifestyle choices became almost an important a factor in health as genetics or exposure to pathogens or toxins. Attitude, such as the will to live or an optimistic outlook, was identified as an important predictor of who would have a good outcome from a therapy and who might not. We are still during the Era II medicine, of what might be called mind-body medicine, we see only the first glimmers of the dawning of Era III medicine, the hallmark of which is the “nonlocal mind.”

The term nonlocal refers to action at a distance, or how your mind can influence things, people, and events that are spatially separated from you. Era III medicine is built upon the growing body of evidence that consciousness can exist outside of the body and that focused or directed intention can have a healing effect, such that praying for someone could have a positive effect on the state of that person’s health. This is truly both an energy-based and an information-based medicine.

These inner resources are fundamentally consciousness-based and/or energy-based. Moreover, complementary practitioners are not focused only on the body but also on the whole patient, including that person’s lifestyle, emotional state, environment, hopes and dreams, relationships, and everything that goes into being a full and productive human being.

This is exactly how **Eric’s diagnosis** become accurate and effective.

We acknowledge the mind-body connection and even the spirit-mind-body connection, but we have not gone so far as to declare that our physical health is dependent only on the state of our consciousness. It very well may be, and some of our research has hinted at how consciousness influences the body, but we are first and foremost concerned with the energies of the body and the information that directs those energies. Our model describes a comprehensive energetic physiology of the body and even of the mind, for emotions are not separate from the body, and an energetic pathology of how illness develops and how health can be restored.

As with any theory, it can be thought of as an interpretation of a body of experimental data, mathematical knowledge, and theoretical speculations.

A logical conclusion, which some physicists have indeed reached, is that nothing exists with any certainty unless we observe it, for the conscious human mind is the ultimate measuring instrument. Consequently, modern quantum physics shape-shifts into metaphysics. For the

most part, though, physicists simply prefer not to think about these kinds of philosophical implications.

## **7. The intelligence of the body**

Quantum physicists discovered that physical atoms are made up of vortices of energy that are constantly spinning and vibrating; each atom is like a wobbly spinning top that radiates energy. Because each atom has its own specific energy signature (wobble), assemblies of atoms (molecules) collectively radiate their own identifying energy patterns. So, every material structure in the universe, including you and me, radiates a unique energy signature.

In the past decades, scientists have found, among many other startling findings, that the body may be holographic in nature, cells in the human body emit light, immune cells have neuronlike synapses, the connective tissue of the body forms a sophisticated information network like a second nervous system, muscles may store memories, and water can be imprinted with information. That's how Eric is developed to prove that the body is more of a self-organizing, intelligent network of information than ever thought possible.

How information (in the form of feedback between cells and their environments) constitutes intelligence in the body? As the scientist was trying to keep isolated cell cultures alive for study, "Twenty years after my mentor Irv Konigsberg's advice to first consider the environment when your cells are ailing, I finally got it. DNA does not control biology, and the nucleus of the cell itself is not the brain of the cell. Just like you and me, cells are shaped by where they live. In other words, it's the environment, stupid."

Among Popp's early major discoveries was that carcinogenic compounds use light differently than do noncarcinogenic compounds. Many chemicals absorb light and then can be made to re-emit that light. What Popp found was that carcinogenic compounds somehow changed the light signal used by cells, jumbling it before the cells reemitted it. What's more, to his and others' amazement, Popp found that carcinogens particularly liked to scramble light at a frequency of 380 nanometers.

Photo-repair is a well verified but little understood process, and Popp made the daring intellectual leap of positing that to conduct photo-repair, cells must themselves be emitting light. Therefore, compounds that cause cancer do so because they block the precise wavelength of light that the cells need to repair ultraviolet damage.

Popp has believed that the source of the coherent light in the body is DNA. He believes that DNA uses light signals to coordinate the hundreds of thousands of chemical processes that occur every second in every cell of the body.

As one example, a team led by Korean scientists confirmed what other researchers in Germany, Japan, Russia, Poland, Italy, China, and the United States have found – that the body does indeed emit ultraweak coherent light. In their article "Biophoton Emission from the Hands," the Korean-led team reported that they detected 34 percent more biophotons (in the range of 300-650 nanometers) coming from the hands of their twenty healthy volunteers than could be expected if the photons were simply a result of natural background emissions. They also confirmed that the biophotons were not created as a consequence of thermal radiation or body heat.

Studies of protein synthesis reveal that epigenetic [above the level of genes] “dials” can create 2000 or more variations of [regulatory] proteins from the same gene blueprint. The blueprint of life, then, may not be DNA, but rather our cells’ ability (intelligence) to communicate with the environment. Cells are not isolated bags of fluid that are containers for life’s engine (DNA) but rather are the receiver-antenna systems—the broadcast stations—for sending instructions to DNA by monitoring environments both internal to the body and external to it. These feedback loops then coordinate life’s essential functions.

## **8. Coherent Fields**

Resonance in particular is turning out to be an important method of intercellular communication. The term resonance refers to shared frequencies within a system. It takes two forms: destructive or constructive. A classic example of the destructive force of resonance is a platoon of soldiers marching across a bridge.

Resonance also can be constructive, as when it takes the form of coupled oscillators, which form coherent fields. Individual systems, which each might be chaotic on their own, can take on new qualities or characteristics as the individual elements coalesce into an ordered whole. Visible light is a stream of freewheeling photons, but focus that stream of light, making it super coherent, and you have a laser. In the body, coherent resonant fields may enable individual molecules, cells, and even organ systems to share information.

Researchers have found that in neuroradiology, the heart is not just a pump but also a sensory organ. It contains neural cells, can direct the brain and other body processes (including regulating hormones), and appears to be a center of emotion and memory. All research are increasing our understanding of the most fundamental processes of biology and have direct implications in our understanding of illness and health.

The body’s emission of ultraweak coherent light can indicate the presence of disease before it may even be evident to us. Electromagnetic fields can act as carriers of information. Molecules and cells can “talk” via coupled oscillating fields. With only these few examples as our guides, we can make theoretical inroads to a new kind of health care, a system that seeks to understand quantum biological processes, measure them, and create new ways to address the body at the quantum level.

Information—the virtual part—is always carried on the back of a wave, say a frequency wave, which is the real part. This wave—as the real carrier or matter wave—and the virtual information carried on it would have to exhibit certain properties, such as being self-organizing and self-correcting.

So, there would be patterns, some kind of overarching order to the whole arrangement, although that order would be changing all the time because any living system would be dynamic, not static. A real-to-virtual switch would somehow allow a machine to capture information about the state of a system, a picture of it, that reveals how that information is configured or stored at one moment in time. It would never be the entire picture, but it would provide a snapshot in time, from which information could then be extracted.

After testing 112 plants and flowers, the researcher found three that had energetically matched, or as he talked to, his own blood or saliva samples. Somehow these three plants matched the energy signature of his blood and saliva. That is, there was some kind of

energetic link or communication between the researcher's body-field (via his blood or saliva samples) and the unique energy imprint of the plants.

Would heart tissue talk to brain tissue more readily than to liver tissue? Which elements would or wouldn't chromium talk to? How did muscle tissue react when matched with a known toxin, such as lead? Matches indicated that there might be some common information network that energetically linked those items.

Another surprising result involved the liver meridian. In TCM, the liver meridian has an internal channel that connects to the eye and the top of the head. The researcher found in his matching experiments that the liver meridian did indeed talk to the eye, but only to the retina and iris. He was documenting what amounted to the first detailed bioenergetic anatomical model.

How elements communicate in the body. For example, calcium talked to most cells and tissues of the body, which is not surprising because calcium is involved in thousands of critical biochemical activities and at least partially makes up the cytoskeleton of many kinds of cells. Other, more complex elements, such as deuterium, made next to no matches, which again is not surprising because this element is not important to health. Generally speaking, the elements that come earliest in the periodic table—hydrogen, carbon, boron, oxygen, nitrogen, sodium, magnesium, potassium, and calcium—match most vigorously with the body.

Most of the elements that come later in the periodic table, with a few exceptions, do not talk much or at all to the body. This is exactly what you find in the biochemistry of the body: the elements early in the periodic table are ubiquitous in the body and are important to its proper functioning. Although the findings themselves were not new their importance lies in the fact by using unconventional testing procedures, was replicating on an entirely energetic level many well-known facts of biochemistry. This was evidence that this testing method was viable.

In physics, energy shapes space. Something has to excite or perturb the QED field. It could be sound (phonons), photons, or any number of other things or causes. All fields in one way or another are shaped by a force. Gravity alters the orbit of planets. Einstein's space-time warps under the influence of the mass of objects. The rush of air through our vocal cords vibrates air molecules and carves bursts of air into distinct words.

Scientist found the body-field could be the underlying control mechanism for health. If information was distorted along the sequence from compartment 1 to 12, then corrupted information would be fed from the end of the wave, at compartment 12, back into the beginning for the wave, at compartment 1. The continual feeding back of distorted information into the full body-field wave would gradually cause the body to lose homeostasis.

Further research indicated that there is a way to measure the effects of the holographic resonances of the human body-field and the structures in space that are created by these resonances and revealed the conjugate systems between the body-field and physical body. Because the consequence (or symptom) of the underlying energetic problem is what is addressed, not the underlying process itself. In the other word, if the liver "goes out", such

biotechnologies would attempt to reset the liver's natural vibration, but they wouldn't deal with the reason why that organ lost its natural frequency in the first place.

It might be more useful to design a biotechnology that could test for the functional integrity of the body-field – how all the processes were functioning relative to one another and to the environment, instead of in isolation.

It's not well understood in quantum mechanics. Many of the quantum mathematical equations work just as well if you are plotting a particle's motion backward in time as if you are plotting it forward in time, as was evident in the revolutionary work in quantum electrodynamics done by Feynman in his path integrals work and the technique called "sum over histories."

ERIC is concerned with the functional integrity of the body-field – with how well aspects of it are working in comparison to the whole.

To use an analogy, ERIC is focused on the conductor of the orchestra (the big body-field), not on the individual musicians (the physical aspects of the body). The fact is that everything in the body is so inter-connected that trying to pinpoint a specific fix is nearly impossible or causes other unintended problems, which is why pharmaceuticals so often have unintended side effects.

With ERIC, you are simply providing your body, via the body-field, with information that allows it once again to do what it was originally designed to do, so that everything works together smoothly and efficiently. In this way, ERIC does not treat the body at all but instead simply provides information to jumpstart the body's own self-healing mechanisms and capabilities.

With ERIC, we have a new theory of pathology, partly based on Feynman's path integrals theory, as incredible as that may seem, and more recently on Milo Wolff's space resonance theory, but really pathology is as simple as this: electrons do what they should or they don't! When they don't, we get problems in the body-field, and with time they show up in the body.

A patient had a chronic disc problem in her lower back, and it resolved itself in only a matter of minutes from the effects of the Stomach Quantum field is repaired by the Stomach Bio-Info-field. The information—what we might call the virtual aspect of things—activated energetic connections that also helped correct a very real back problem.

Scientists spent months testing dozens of substances until they found that the most stable and reliable carrier material was a collection of plant-derived minerals. When you take an Bio-Info-field as drops in water, these micronutrients carry the information into your body, where the information is made available to your body-field.

Every bottle of ERIC Bio-Info-field carries the same few physical ingredients, so you can't tell them apart by the ingredients list. The differences are in the information encoded into them, so that Liver Driver, for example, is encoded with different information than Source Driver or Muscle Driver.

In the model of quantum physics, the photon is the primary force-carrying particle. The photon not as a particle, but as an energy exchange between particles that is a frequency

change of the two resonances brought about by a modulation of the particle waves. The photon is not needed since there is nothing to be ‘delivered’ between particles.

In addition, because charge never appears alone, but only in relation to other particles’ properties, such a mass, we need to revise our understanding of what charge is and how it arises. Properties such as charge and mass that are usually ascribed to individual particles actually result from the interaction of space resonances and their associated wave fields.

In the experiment each field links to the physical body based on other parameters, such as its frequency range and phase value, and at a still deeper subsystems level via the energetic properties of specific organs, cells, enzymes, hormones, and so on. The liver meridian of traditional Chinese medicine (Elemental field 8 in the ERIC model of the body-field) takes to the retina and iris, but not to other anatomical structures in the eye.

Phases and energy state are related ultimately. Put them together and chemistry, even biochemistry, is related to both frequency change and phase relationship. The new medicine must be involved in making sure that frequency and phase are both correct in the case of all of the body’s chemical activities. This is because all matter emits phase waves, as do all conscious beings.

The evidence suggests that frequency and phase represent the extent to which chemical reactions can influence the health of the entire organism, rather than just on part of a cell, or even less, a molecule. It should be possible to correct what we might call “phase errors” between the In waves and the Out waves, which can lead to pathology, because it may be that the structure or shape of space is altered by all of these phase relationships.

From a bioenergetics perspective, all illness starts in the body-field, because all physiological processes that break down do so because of information distortions.

The imprinting process is complex, involving a specially made machine (ERIC reads the encoded information) that encodes information into the mixtures using high electrostatic fields, specific colors of photons, and more. The plant-derived minerals are not included for any nutritional value but only as carriers for the QED information.

Even though your body-field is dynamic, it is always recording everything to which it is exposed, from external factors, such as nutrition or exposure to pollutants, to internal ones, such as your thoughts, emotions, beliefs, and memories.

The spherical standing wave of the electron can be visualized as an onion because it has many spherical layers. That analogy works well for the body-field, too. Every moment, your holographic body-field is recording the state of your being, and over your life it builds up layer upon layer of information. The root cause of a physical problem may be correlated to a bioenergetic distortion deep in the layers, so it may take time to return the body-field to full functioning. Your body-field is a stable pattern of information and energy, although it can be distorted by the micro activity at the subsystems level.

## **9. Quantum Field (thought)**

The Quantum Fields are the powerhouses of the body-field. There are sixteen individual quantum fields, which together power the full body-field. Each major organ or organ

system—the heart, nervous system, liver, thyroid, skin, and so on—produces its own energy and information quantum field, starting as the organ forms and begins to function during fetal development or soon after birth. If a quantum field weakens, then the organ system itself becomes compromised.

These fields power, or drive, our body and, hence, our state of well-being. If an organ field loses power, it is like a battery running down. Without the energy and information it needs to do its job, that organ begins to work less efficiently, but because its job in the body is crucial, the organ will put up a fight.

It will work harder and harder to try to keep going—expending more and more of its dwindling energy supply faster and faster—and as a consequence of that struggle and stress, things will begin to go wrong. Finally, without the energy it needs, the organ will become seriously compromised and begin to malfunction or even to shut down. As that happens, other organs of the body and bioenergetic systems of the body-field will try to compensate, and then they, too, can begin to lose power. The loss of the integrity of your Driver fields can result in a cascade of problems in the body.

An organ, such as the liver, can be connected via energetic circuits to many other areas of the body. For example, in ERIC, as in TCM, the liver is correlated energetically with the heart, gallbladder, eyes, toes, jaw muscles and teeth, and many other seemingly unconnected parts of the body. So if your Liver Driver—the powering field of the liver—runs down, you might find yourself experiencing problems in your eyesight (perhaps retinal problems) or with your jaw muscles. Biogenetically, it's because of the liver energy channel that people with gout often experience swelling of their big toe! The logic of many diseases defies explanation by allopathic medical standards but makes perfect sense by TCM, ERIC, and bioenergetic standards. Driver fields become compromised for all kinds of reasons, from prolonged emotional stress, to exposure to toxins or pathogens, to genetic defects and chemical imbalances, to your body's misalignment with Earth fields.

## **10. Elemental Field (emotions)**

Elemental Field covers specific kinds of information as whole they form a network that keeps the body-field functioning as a seamless web of information exchange.

The term triple burner is from TCM, in which it refers to the meridian linking the three major cavities of the body—the cranial, thoracic, and abdominal cavities, which generate what TCM calls “heat” in the body. In ERIC, this heat energy, via Elemental field 9, is associated with Source energy. This field links stretch far and wide in the body. It matches bioenergetically with the other major endocrine glands (specifically, the posterior and medial sections of the pituitary) and the adrenal medulla, but it also links to the mitral valve and right atrium of the heart. It regulates information exchange to most of the mucosae (mucous membranes) of the body and to the lateral ventricles of the brain. It is associated bioenergetically with specific elements, such as iodine and selenium, and is intimately related to the energetic/informational aspects of the calcium-sodium relationship in the body. Thus, when function is restored to a field by using Bio-Info-fields, everything within that communication channel is addressed.

## **11. Biofield Resonance (understanding)**

A Biofield Resonance is not a structure of the body-field but is a type of body-field distortion that creates an environment in a body tissue that makes the tissue amenable to hosting microbes. Some microbes affect only your stomach, others only your eyes, still others only your muscles, and so on. Bioenergetics help explain why: the field distortion in that type of tissue matches to the field signature of that family or type of microbe.

Biofield Resonance are a bit difficult to describe succinctly, because the theory behind them presupposes that viruses, bacteria, and other pathogens have energetic fields every bit as real as the pathogens themselves. All living things, including viruses and bacteria, have fields to on extent or another.

## **12. Energetic Nodes (action)**

The final subsystem of the body-field has been identified so far are the Energetic Nodes, which represent the field equivalent of metabolic pathways that govern energy and information usage in the body. The Nodes are addressed only after all other energetic systems in the sequence of the body-field have been corrected initially.

As with all the other subsystems of the body-field have been corrected initially. As with all of the other subsystems of the body-field, the Energetic Nodes are arranged in a sequence—in this case from Nodes 1 through 15—and they roughly follow a “survival” hierarchy in the body, with the lowest number representing the most important energetic and informational mechanism for the body’s proper functioning.

In addition, the Nodes can be thought of as energetic starters, so they are used to restart or reinvigorate energy and information flows that have resisted correction by the other classes of Bio-Info-Fields or when the body-field needs to reestablish energetic and informational processes at the deepest, most fundamental levels.

## **13. Energetic Resonance theory**

In its Energetic Resonance theory, ERIC is dealing with the bioenergetic signature of a pathogen, not the physical pathogen. From a bioenergetic perspective, microbial or viral fields can remain in the body even when the actual pathogen is not present. For instance, you may have been exposed to a virus and experienced no symptoms.

The actual virus itself may have been eradicated from your body, but the virus can leave behind an energetic imprint that can, at a later time and under certain conditions, cause bioenergetic problems for you. You may experience symptoms even if you were never exposed to the actual microbe, but only to its field (like air-borne virus). In other words, there is a second route of transmission for microbial infection, and it is entirely bioenergetic. That could explain why so many people experience the symptoms of microbial diseases, but conventional lab tests fail to detect the actual microbes. It is the microbe’s energy/information field that is causing the problem.

Due to our environment, we are constantly exposed to all kinds of fields, toxins, pathogens, stressors, and the like. Our bodies will always be thrown out of balance by something. Plus, our emotions, beliefs, perceptions, memories, and more affect our biology, so a long as we

are thinking, feeling, and emotion human beings, we will be experiencing the ups and downs of life and reacting to them, often to the detriment of our health.

An additional point is that the functional aspects of our illnesses tend to be more easily corrected than the physical symptoms. The nonphysical, nontangible aspects of ourselves, such as our emotions, thought processes, coping strategies, and decision-making abilities—tend to shift more quickly than do the denser, physical aspects of ourselves, such as our organs or joints. So ERIC, and natural healing of any kind, usually improves how we function (how we relate to the world and our illness, our energy level, clarity of thought, evenness of emotions, and so on) before it improves our physical symptoms.

Therefore, periodic check-ups using ERIC or other energy and information-based modalities can help you maintain the best bioenergetic health possible over the long term, helping to correct problems before they get to the level of the physical body.

#### **14. Color of Elements**

Each element has its own specific color, as electrons change their orbits a photon is emitted representing the nature of the element,

Food Carries Information (oxidation) Reactions:

Aluminum	Molybdenum
Boron	Nitrogen
Cadmium	Oxygen
Calcium	Phosphorous
Carbon	Potassium
Chromium	Rhodium
Cobalt	Ruthenium
Hydrogen	Scandium
Magnesium	Silicon
Manganese	Vanadium

Frequency of Each Information Exchanged.

Each element in the Periodic Table has its own electrical charge or potential unique to its functions within the human body, this gives it its distinct color and frequency. Each organ system in the human body relies on different elements to function properly, for example the bone marrow needs iron to make blood.

Each system in the human body is defined by its electrical charge, when an impulse is sent to a specific section of the body, that pulse is of the right voltage and frequency to only operate that function requested. It can be transmitted in the form of colored light, as we know light has both electrical and elemental properties.

## Ionization energy (eV) in periodic table

atomic number																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H 13.59	He 24.58	Li 5.39	Be 9.32	B 8.30	C 11.26	<b>N 14.53</b>	O 13.61	F 17.42	Ne 21.56	Na 5.14	Mg 7.64	Al 5.98	Si 8.15	P 10.48	S 10.36	Cl 13.01	Ar 15.75
		name															
		Nitrogen															
		14.53															
		ionization energy (eV)															
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K 4.34	Ca 6.11	Sc 6.54	Ti 6.82	V 6.74	Cr 6.76	Mn 7.43	Fe 7.90	Co 7.86	Ni 7.63	Cu 7.72	Zn 9.39	Ga 6.00	Ge 7.88	As 9.81	Se 9.75	Br 11.84	Kr 14.00
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rb 4.18	Sr 5.69	Y 6.38	Zr 6.84	Nb 6.88	Mo 7.10	Tc 7.28	Ru 7.36	Rh 7.46	Pd 8.33	Ag 7.57	Cd 8.99	In 5.78	Sn 7.34	Sb 8.64	Te 9.01	I 10.45	Xe 12.13
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs 3.89	Ba 5.21	La 5.61	Hf 6.65	Ta 7.88	W 7.98	Re 7.87	Os 8.70	Ir 9.00	Pt 9.00	Au 9.22	Hg 10.43	Tl 6.10	Pb 7.41	Bi 7.29	Po 8.43	At 9.20	Rn 10.75

In other cavities and tubules may be what allows cavities to interact with the matter waves of only these elements. Source energy may be conjugate with these elements and thus easily make energetic matches to them. If this is true, and further experiments need to be conducted, then it may be that the human body-field interacts especially strongly with certain parts of the zero-point field and not with others, which would have enormous ramifications for health.

RFID, RF and Gallium Diode Receivers of bio photonic resonance.

ERIC cavity theory suggests why this may be true, especially breathing sea air, for the sea spray would release many micronutrients and other beneficial elements into the air. It also suggests, contrary to popular opinion, that vitamin or mineral supplements may not be effective sources of these elements, for ingesting them bypasses the important cavities (lungs especially) that are bioenergetically important in how the body uses them.

From a bioenergetic perspective, it is beginning its work of imprinting information that is crucial for the fetus's continued development. In other words, the fetus is forming not just according to genetic, chemical, and anatomical templates, but through a quantum informational template as well. The heart produces myriad sounds (phonons) and various kinds of waves, from pressure (sound and vibrational) waves to electromagnetic waves, that help direct fetal development. In fact, other major systems of the body, such as the connective tissue matrix and the nervous system, imprint information, but the heart is a primary imprinter of information body wide.

There are other possible avenues of information transmission. The heart also may produce small numbers of free electrons, which are electrically conducted via the blood and skip between ionized molecules. Finally, the heart may produce and transmit ultraweak light (or photons, if you think of light as being composed of particles) that also carries information. The functions of the phonons, electrons, and photons at play in this information system overlap, providing redundancy, which is crucial for critical biological processes.

The phonon represents the slowest, yet most reliable, method of information transmission. We know from studies of sonoluminescence (a process by which sound transmitted through

water produces light) that phonons don't need or use much energy and that they are not adversely affected by electromagnetic fields.

If the body is shocked or unexpectedly stressed, a sudden increase in pressure inside the heart may emit a burst of phonons, which may help raise the blood pressure, as part of the fight-or-flight survival mechanism. The higher the blood pressure, though, the faster phonons travel, so they can, if they need to, race to all parts of the body to transmit crucial information to the cells.

Modern science has shown that the blood has magnetic properties; for instance, oxygenated blood is polar magnetic, that is, it displays both a north and south pole axis, whereas deoxygenated blood is paramagnetic (has no poles). It may be that this difference in blood magnetism acts as a driving force for blood circulation. We also know that blood tends to spiral through our blood vessels, rather than flow in a linear way.

Both the opposing magnetic forces and the nonlinear spiraling dynamics of blood flow may contribute to blood circulation, in a sense causing the blood to partially "pump" itself, so that the heart does not have to function as the sole pump.

Information distribution in the body, according to the ERIC model, occurs by all three routes: electromagnetism, phonons of various frequencies, and electrons. These are the "real" information transfer mechanisms, but the information itself is part of the body-field dynamics, the realm of the "virtual."

There is a virtual feedback loop between the heart and central nervous system, with the central nervous system sending information to the heart, where it is imprinted into the blood and carried throughout the body, and then back from the heart to the central nervous system.

In this case the heart as information imprinter can explain why some patients who received heart transplants report that they take on the feelings, habits, and likes and dislikes of the person whose heart was implanted into them.

## **15. Body Field (Environmental) Influences**

There is a relationship of alignment between your body-field and natural Earth and cosmic energies and fields. The natural medicine approach was to help the sick person achieve harmony between Heaven and Earth, to align with the natural fields and to avoid the geopathic stress fields that adversely affect the energies of the human body.

Geopathic stress relates specifically to the health effects of vibrations and fields that emanate from Earth's interior and flow across its surface. The energies detrimental to health arise especially from caves and subterranean caverns or from certain types of underground streams and aquifers, fault lines, and particular kinds of mineral and coal deposits.

The Schumann resonance deals with two phenomena of physics that are at the heart of the ERIC model of bioenergetics: resonant cavities and standing waves. Its frequency ranges from about 5 to 50 hertz, with an average frequency of between 7 and 10 hertz.

That average just happens to match the alpha range of human brain waves, so there is wide speculation, and growing evidence, that the Schumann resonance affects the human brain. The heart also is tuned closely to this range of frequencies.

They discovered that there was a strong correlation between sources of geopathic stress and the incidence of cancer. In fact, geopathic stress as an indicator of or a possible causative factor in cancer and other diseases is now taken so seriously in parts of Germany that officials have begun to keep health records for individual homeowners, presumably those whose houses have been identified as situated over or near areas of high geopathic stress.

## **16. ERIC and Earth Fields**

In ERIC, the body-field scan is designed to take readings about the relationship of your body-field to many kinds of field energies, including those associated with the earth. For optimal health your body-field, as a quantum structure in space, must be aligned properly with these Earth fields. The three axes form planes that intersect your body very close to the center line of your body, slightly to the left, where the heart is located.

The closeness of the intersection of the planes to the heart could also explain why the body field Bio-Info-field, which corrects distortions in these three fields, impacts emotions and even memory, which are bioenergetically connected to the heart. In addition, we know from the work of cell biologist Bruce Lipton and others that cells are tuned to the environment with the cell membrane serving as a kind of receiving and transmitting medium for environmental signals.

The Body Field is linked to immune system function via yellow bone marrow. There are two kinds of bone marrow, red and yellow. Yellow marrow develops in the long bones of the body, especially the arm and leg bones. Although we have mostly red marrow when we are young, yellow marrow increases as we age, gilling our bone cavities with fatty tissue.

Most red blood cells, platelets, and certain types of white cells are made only in the red marrow, but under emergency conditions, such as during extreme blood loss, yellow marrow can turn into red marrow. As we age, we are more susceptible to infections and cancers partly because we have less red marrow, and hence fewer immune cells, and more yellow marrow. During extreme conditions, such as a period of starvation, the body can use yellow marrow as a source of energy and fuel.

The Vertical Axis is intimately related to gravity and its numerous effects on the body. Gravity is a field of attraction. It is also associated with geopathic stress. ERIC research also shows that the Nervous System Field is energetically linked with brain waves, specifically alpha waves, delta waves, and the low-frequency waves prevalent during relaxation and the sleep cycle.

The Equatorial Axis is associated with Earth's rotation. In terms of bioenergetic health, it is related to how the body responds to electrons and ionic charges, such as those associated with oxygen and hydrogen, so it is intimately connected to cell function and, thus, to normal physiological functioning.

Free radicals are molecules that are missing an electron, so they scavenge in the body, "stealing" electrons from other molecules, which can eventually damage cells. Antioxidants

are molecules that counteract the effects of free radicals because they give their own electrons to free radicals and so prevent them from taking electrons from the atoms in cells.

Some metabolic diseases and certain types of arthritis also correlate bioenergetically with a misaligned equatorial axis, as do problems of the large bowel, colon, and liver.

### **17. The Magnetic Polar Axis**

Earth is cocooned in magnetic fields, which emerge both from the interior of Earth and from cosmic phenomenon throughout the universe.

Your brain has magnetic aspects to it, as does your blood. In fact, hemoglobin is rich in iron, an element that is strongly affected by magnetism. The Magnetic Polar Axis is also intimately connected with circadian rhythms, and by extension with the wake-sleep cycle. So our internal body clock is set and can be reset, not only by light, but also by magnetic fields.

However, you may experience problems that don't appear to be causally linked to magnetism. E.g. you may experience thermal regulation problems—a breakdown in the way your body creates and distributes heat.

### **18. The Polarity Field**

The main link between the electromagnetic Polarity field and the physical body is via the stem cells in the red marrow of the bones. Biologically, this link could be quite important in health because marrow stem cells are precursors of many types of immune cells.

### **19. The Quantum (Thought) Field**

THE QUANTUM THOUGHT FIELDS ARE FIELDS that generate power for the body-field and the physical body. They arise from the major thoughts and the 12 cranial nerves. According to ERIC theory, both the functioning for the organs and their shape contribute to the creation of these fields. Energy isn't needed for the body-field to form at all, and the cavities of the body appear to be excellent collectors of zero-point energy.

We know that cavities can attract energy and store it and that they can act as tuned resonators for that energy, setting up electrostatic fields and facilitating the information exchange that takes place in QTF fields. Whereas the physical body and its metabolism are fueled via various processes such as the carbohydrate and sugar cycle, the citric acid cycle (Krebs cycle), and so on, the bioenergetic body is fueled by various processes involving energy and information exchange within and around the cavities. For example, organs acting as resonant cavities can produce, tune, and amplify sound (phonon) waves.

The yogis of Eastern traditions, from wandering Hindu ascetics to formally trained Tibetan monks, use sound and vibration to effect real physical changes. The yogic breathing practice of pranayama and the Tibetan chanting and breathing practice of tummo both can produce heat in the body.

It is very likely that the cavities of the body—the organs, microtubules, and the like—might create their own fields. According to the ERIC model of the human body-field, they do. These fields are called Quantum Fields—the “gas tanks” of the body-field. For most people,

the sign of getting sick is that they feel tired. They speak of feeling “run down.” This is because one or more of their fields are compromised.

### **19.1 Quantum Field 1: Source Field**

Source energy, as already explained, can be thought of as a kind of life-force energy, perhaps representing energy from the quantum zero-point field. Source Field matches to the reticuloendothelial system, a part of your immune system that produces cells that tend to aggregate in your lymph nodes, spleen, and reticular connective tissue. Generally, these are cells, such as monocytes and macrophages, that defend against invader organisms and microbes.

In particular, the Source Field links particularly strongly to megakaryocytes, a type of large cell made in the red bone marrow that produces blood platelets. Such tests show us that simple exposure to a pathogen or microbe is not enough to make us ill. Our stores of Source energy tend to become depleted by prolonged stress, being indoors too much, chronic shallow breathing, poor nutrition, and exposure to toxins, among other factors.

### **19.2 Quantum Field 2: Imprinter Field**

This field plays a crucial role in information transfer between your nervous system and cells, via the bloodstream. Your heart is also an organ that imprints information into your bloodstream—by using pressure waves, phonons, photons, and electromagnetic signals—so that information can be distributed quickly throughout your body via blood circulation. This is the field that correlates to the heart’s information regulation and transfer role.

Your emotions are not separate from your physical body, so correcting the fields connected to your physical body also may help address the bioenergetic aspects of psychological problems and so may enhance your emotional health.

The research has revealed that the heart has its own internal nervous system that synthesizes and releases catecholamines and atrial natriuretic factor, which are neurochemicals. Some neurocardiology researchers claim the heart can communicate via these neurochemicals with the brain, immune system, pineal gland, thalamus, and pituitary gland, concluding that the heart has the capability to function as a center of emotion, learning, and memory.

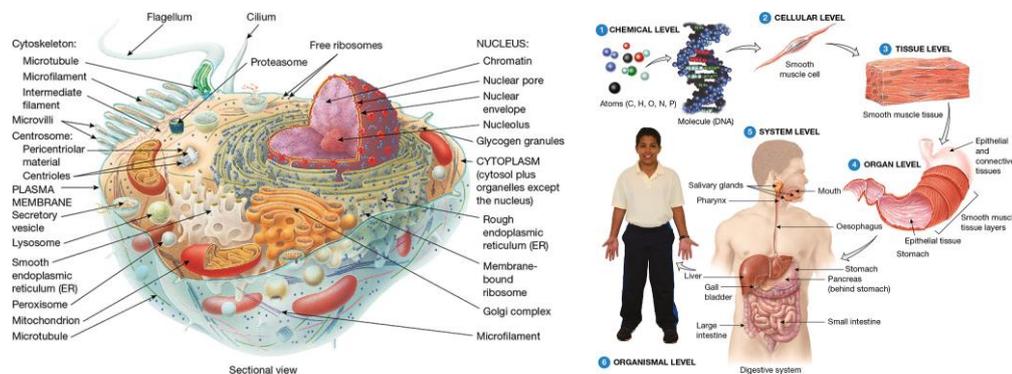
### **19.3 Quantum Field 3: Cell Field**

The Cell field is connected to cellular respiration and excretion and to the enzymatic powerhouses of your cells, the mitochondria. It also links to adenosine triphosphate (ATP) because mitochondria produce ATP, which is believed by conventional biologists to be among the most potent of biological energy sources for your cells.

However, my experiments showed that mitochondria also match to Source energy, so they may play a role in energizing the body that conventional biology has yet to reveal. The matching tests also showed that the Cell Field “talks” to mast cells, which are crucial in the process of blood coagulation, and to immunoglobulin E, a molecule active in allergic reactions.

More generally, the Cell field bioenergetically optimizes cellular activities including creation of heat, absorption of oxygen and nutrients, excretion of cellular waste products, and cell replication. Cell Field also correlates to liver function because your liver is the powerhouse of cellular energy metabolism and waste disposal. In addition, the Cell Field is bioenergetically linked to:

- Centrioles, which process biochemical information in cells
- Golgi bodies, which are cellular structures that at a biological level process substances made by cells and at a bioenergetic level may process photons and their information
- Centricenar cells, which are located in the pancreas
- Lymphoblasts and lymphocytes, which are cells of the immune system
- Myocardial tissue, which is heart tissue rich in mitochondria
- Spleen cells
- Von Kupffer cells in the liver, which recycle worn-out red blood cells



## 19.4 Quantum Field 4: Nerve Field

The nervous system is particularly complex from a biophysical perspective. Bioenergetic studies have revealed that during prenatal development, the fetal nervous system produces low-frequency sounds, which are likely imprinting information that is crucial to the continued development of the growing fetus.

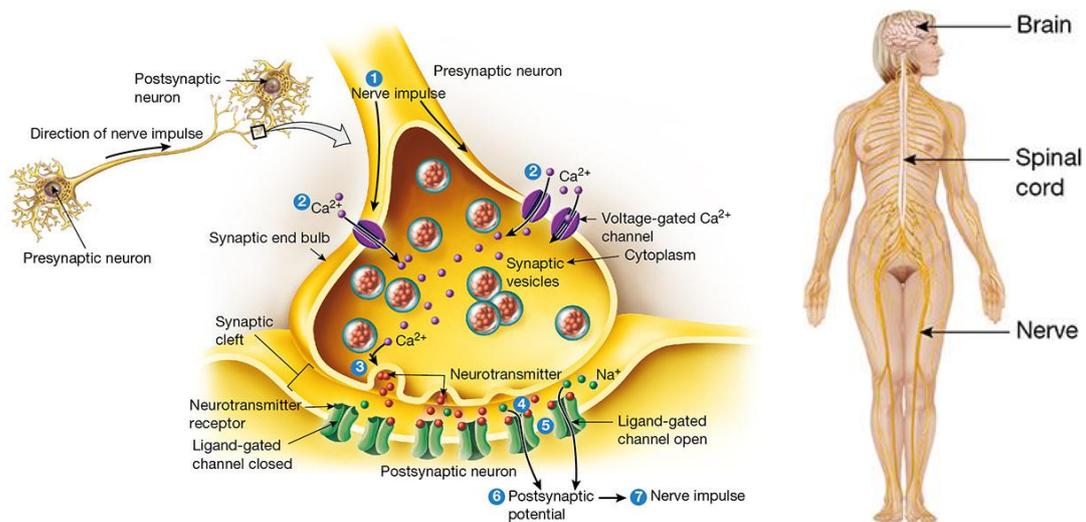
The various energy fields of the nervous system are variable, that is, they tend to fluctuate throughout the day and night, with especially low levels of activity occurring during sleep. For example, the sleep brain wave—the delta wave—has a particularly low amplitude. However, the lifestyle realities of the modern world—with electric lights that turn night into day and our penchant for staying continually stimulated via TV, computers, and other media—mean that your natural rhythms are continually disrupted, and your mind-body overstimulated.

More often than not, your circadian rhythms are affected in ways that can carry serious health consequences. When your nervous system is on perpetual overdrive, you may experience a range of effects, including insomnia, personality disorders such as anxiety and attention deficit disorder, and a general immune suppression that decreases your ability to fight off colds, flu, or more serious pathogens, microbes, and toxins.

The Nerve Quantum helps to restore system integrity. It is energetically linked to the dendrites, nerve cells, nerve axons, and the perineurium, which is a sheath of connective tissue that surrounds bundles of nerve fibers. In terms of cell maturation, this field links strongly with neuroblasts, which are embryonic nerve cells.

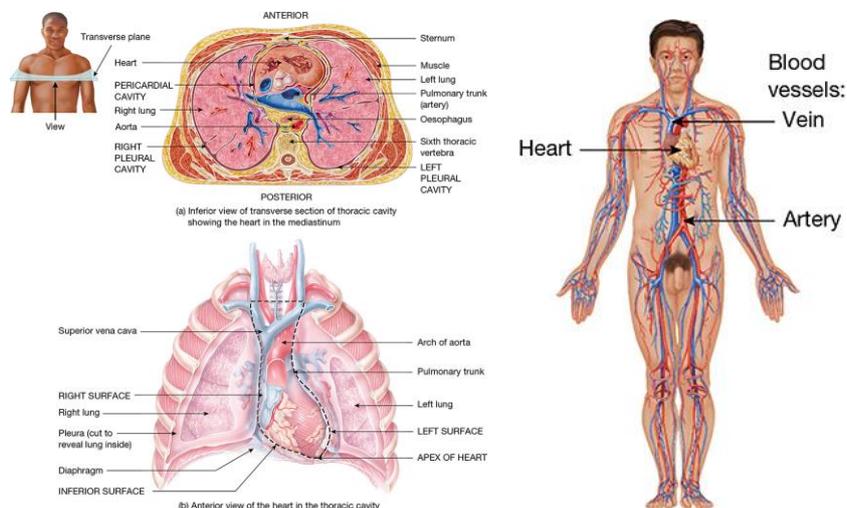
The Nerve Quantum field appears to be bioenergetically sensitive to specific pollutants, chemicals, and other substances, such as butanol, a hydrocarbon solvent; chlorpyrifos, a common organophosphate pesticide; and heptane, a neurotoxic solvent. It has a correlation bioenergetically to vaccinations for diphtheria, rabies, and tetanus.

It is not too dramatic to say that the nervous system lies at the root of most illness, for our nervous systems tend to be overloaded and assaulted to the point that this most vital of information networks gets scrambled or partially breaks down.



### 19.5 Quantum Field 5: Circulation Field

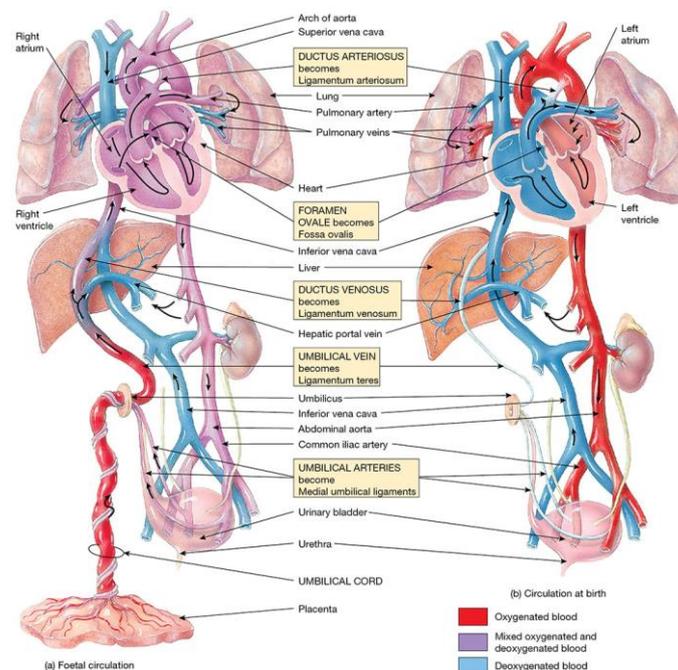
This Quantum field deals at the bioenergetic level with blood circulation. It comes before the Heart Field but after the Imprinter Field in the ERIC sequence because in ERIC the heart is not primarily a pump but is an imprinter of information.



## 19.6 Quantum Field 6: Heart Field

The Heart field links bioenergetically to the exterior structures of your heart and to cardiac function in general, especially your heart's electrochemical conduction system. Because the heart is the major organ of the thoracic cavity and the stomach is a major organ of the abdominal cavity, there is a strong bioenergetic link, and errors in the stomach's overall field may cause secondary errors to appear in your heart's field.

ERIC research shows that the Heart field can be compromised easily by viral infections in the heart organ, and it is especially susceptible because of its bioenergetic link to the stomach field, which is the point of entry into your body for many toxins and pathogens. It can also be weakened by stress, emotional or physical shocks, and particular pollutants, especially 4-phenylcyclohexene (from carpet backing and carpet off-gassing), dioxane (an industrial solvent), and the measles mumps-rubella vaccination.



## 19.7 Quantum Field 7: Lung Field

The Lung Quantum Field can be repaired by the Lung Bio-Info-field was designed to enhance all of the energy flows from the lung field and to bioenergetically reactivate various isotopes of oxygen that are crucial to a healthy metabolism, such as those produced through the exchange of gases in the bronchioles—the small cavities within your lungs.

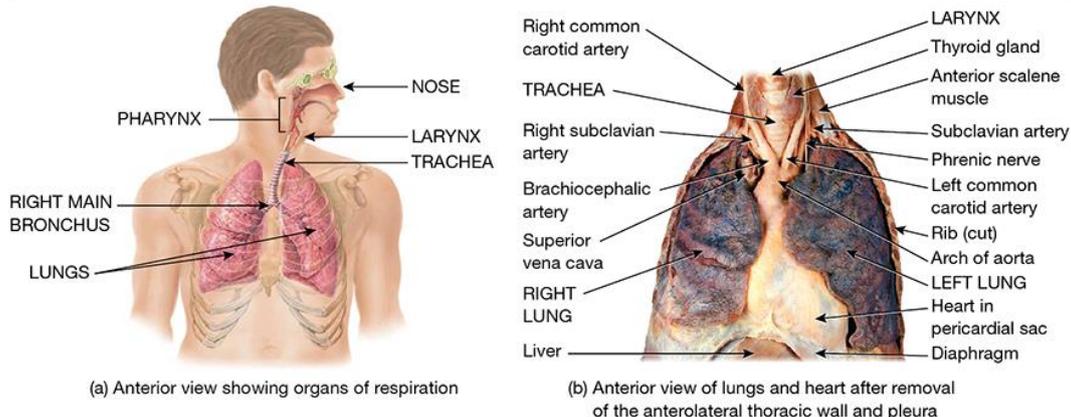
Metalloid toxins that may accumulate in your lungs may on a bioenergetic level, affect the frontal lobes of your brain, so a weakened Lung Quantum Field may impact the proper functioning of that area of your brain. Lung Quantum Field correlates strongly to higher mental functions in children and to non-ordinary states of consciousness in adults.

Specific toxins that may on a bioenergetic level particularly compromise the Lung field include butanol and asbestos. The vaccinations for influenza, polio, yellow fever, and tuberculosis (BCG vaccine) may also bioenergetically weaken this field.

The Lung Quantum field can be repaired by the lung Bio-Info-field can help restore correct functioning to your lung field, especially through its energetic link to erythroblasts, which are the cells in the red marrow that synthesize hemoglobin.

**FUNCTIONS OF THE RESPIRATORY SYSTEM**

1. Provides for gas exchange: intake of O<sub>2</sub> for delivery to body cells and removal of CO<sub>2</sub> produced by body cells.
2. Helps regulate blood pH.
3. Contains receptors for sense of smell, filters inspired air, produces vocal sounds (phonation), and excretes small amounts of water and heat.

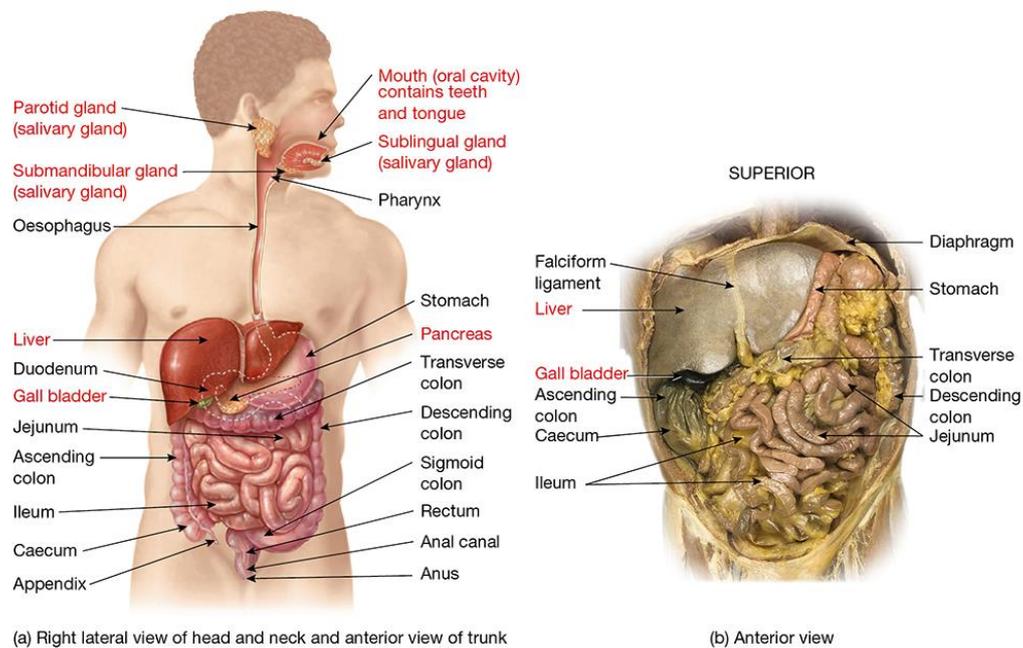


### 19.8 Quantum Field 8: Stomach Field

The major organs of your digestive tract, including your stomach, intestines, and bowels, generate the Stomach field. The muscles, which we tend to think of only in terms of locomotion, are intimately linked to metabolism.

**FUNCTIONS OF THE DIGESTIVE SYSTEM**

1. Ingestion: taking food into mouth.
2. Secretion: release of water, acid, buffers, and enzymes into lumen of GI tract.
3. Mixing and propulsion: churning and movement of food through GI tract.
4. Digestion: mechanical and chemical breakdown of food.
5. Absorption: passage of digested products from GI tract into blood and lymph.
6. Defecation: elimination of faeces from GI tract.



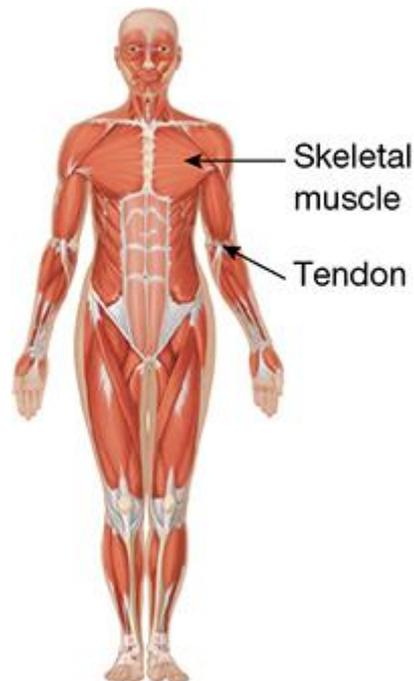
## 19.9 Quantum Field 9: Muscle Field

This Field is generated by the extension and contraction movement of your striated, or skeletal, muscles and by the chemical activity involved in muscle movement. However, as previously mentioned, it is not connected to heart muscle, which is a different type of tissue.

The Muscle Field bioenergetically maintains efficient muscular function, including metabolic waste excretion that takes place via your muscles, muscle growth and repair, and regulation of how your muscles use calcium and magnesium.

At the cellular level, the Muscle Field is linked specifically to monocytes, which among other functions act as scavengers to clear dead cells from your body, especially around the site of infections.

Bioenergetically, muscles can retain the imprint of physical and emotional shocks, having a kind of muscle memory of childhood trauma and other psychological wounds and of severe physical assaults, such as car accidents. The deep myofascial connective tissue and muscle network of your body can hold these imprints over the course of a lifetime.

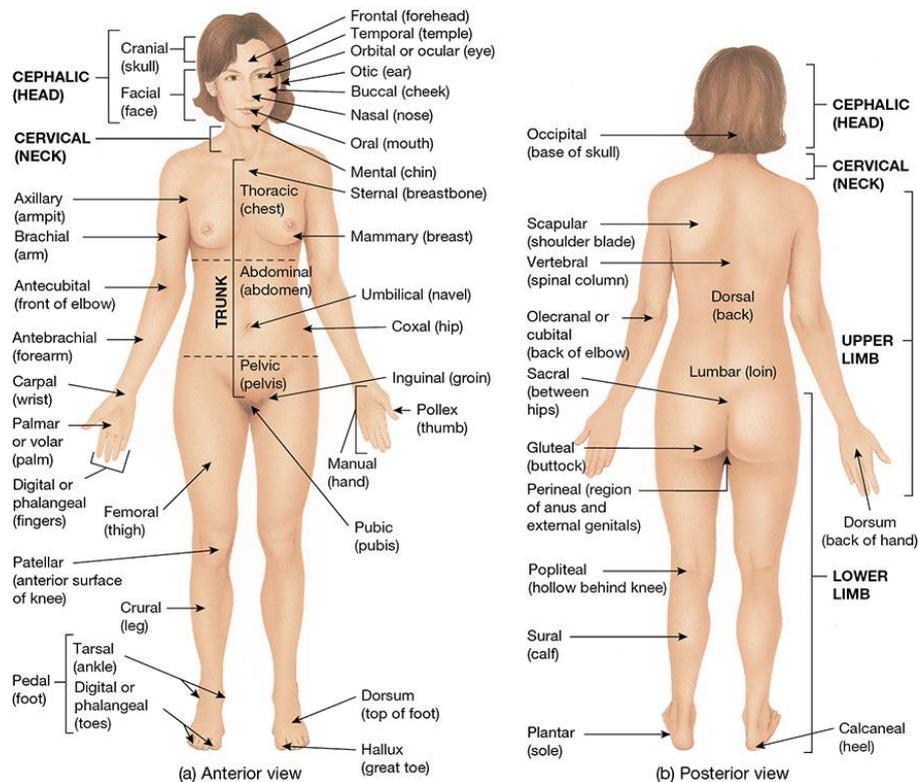


## 19.10 Quantum Field 10: Skin Field

The Skin Field is generated by the movement of subatomic particles and molecules through the layers of your physical skin, especially via respirations. This field can be weakened by many things but is especially compromised by environmental toxins such as fungicides, insecticides, and agricultural chemicals.

As your largest organ, your skin performs myriad functions, among them maintaining fluid balance in your body, helping with thermoregulation, maintaining mineral balance, protecting you from ionizing radiation, and aiding in detoxification.

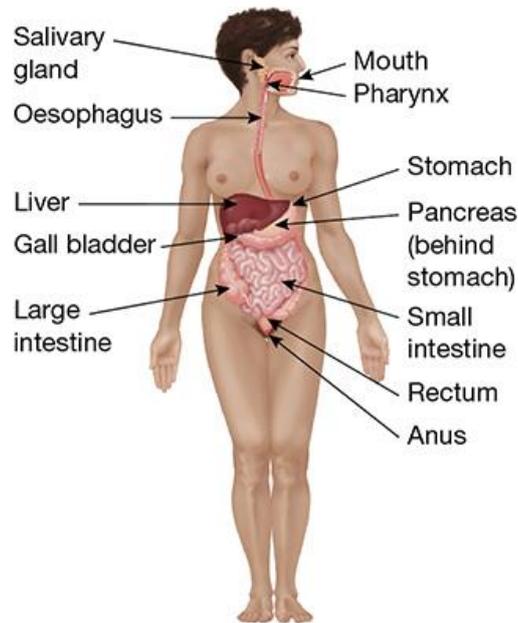
Because the skin is made of epithelial cells, it is strongly linked with the mucosae, especially of the bowels, lungs, and other large organs. The skin and mucosae in general are bioenergetically networked via all of the Elemental fields, either directly or indirectly.



### 19.11 Quantum Field 11: Liver Field

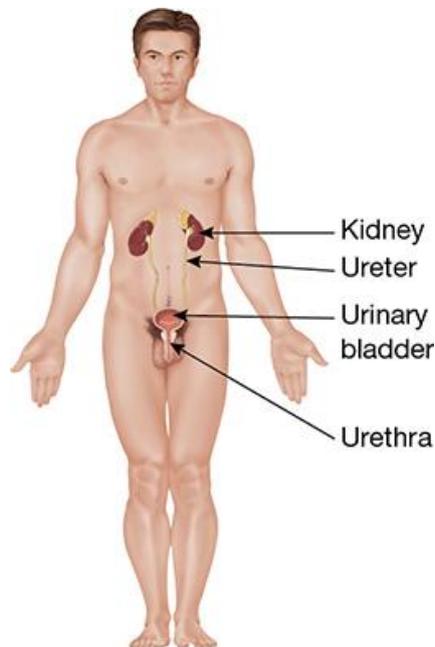
The Liver field is generated by the chemical and cellular activity of your liver, and it directly correlates bioenergetically to liver cells and their functions. The liver is the largest organ, after the skin, and it is the site of some of the most crucial biochemical processes in your body.

It is a major site of metabolic functions, including those affecting protein, fat, minerals, and vitamins. It processes the internal wastes your body produces during the normal course of metabolism; produces or aids in the manufacture of bile, hormones, and enzymes; and stores and processes fats and carbohydrates.



### 19.12 Quantum Field 12: Kidney Field

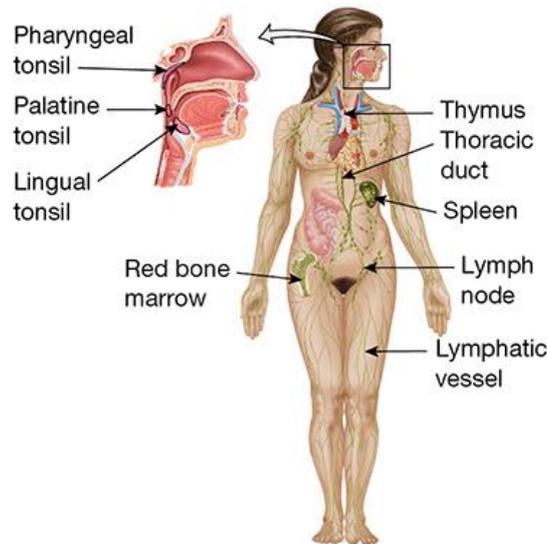
The Kidney Quantum field is generated by the chemical and cellular activity of your kidneys. In TCM (Traditional Chinese Medicine) the kidneys store a constitutional energy that is one of major life-force energies. It is indicative of your essence, especially your physical essence, and is responsible for strong growth and development. However, many of the bioenergetic functions of your kidneys as described in TCM, such as their links to your brain and emotions, are located in the information network covered by the kidney pathway.



### 19.13 Quantum Field 13: Immunity Field

Your immune system is partly a search-and-destroy system, keeping you safe from a constant assault of external threats, such as pathogens and toxins, and from cellular and internal metabolic breakdowns, such as the growth of defective cells.

The Immunity Field Bio-Info-field also pairs well with the Stomach Field Bio-Info-field because the Stomach Field is a kind of gatekeeper for preventing contamination in your body. Its action as an energy channel crosses the long bones of your legs, where mercury, cadmium, and lead can accumulate.

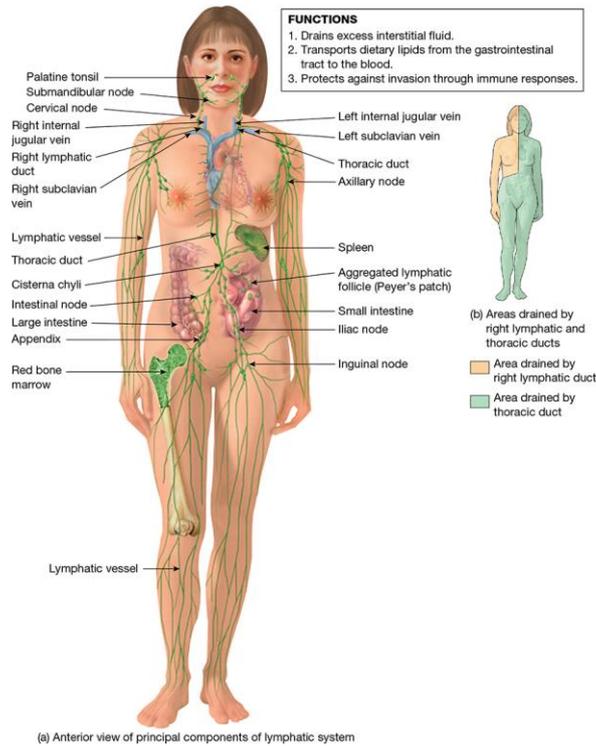


### 19.14 Quantum Field 14: Spleen-Field

The Spleen field and Omentum field is bioenergetically linked to both the red and white pulp of the spleen as well as to the Omentum field, a type of mesenteric sheet that lines the abdomen. In TCM, there is an energy and information link between the spleen and the lungs, but ERIC research extends the spleen's links to include the thymus, an immune system organ that is located in the midchest region.

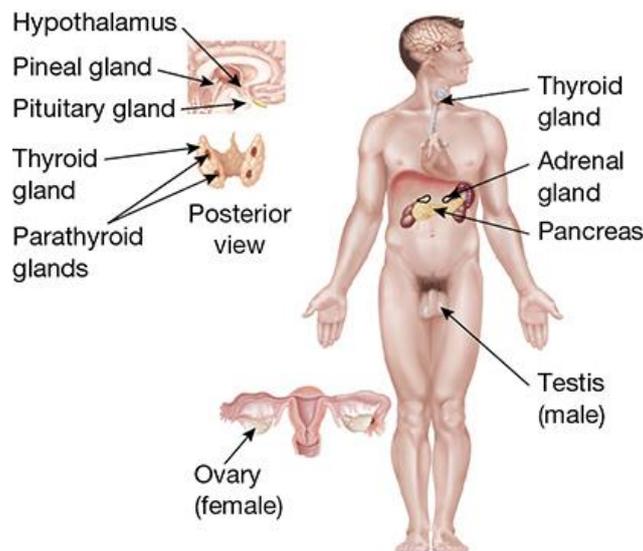
From a bioenergetic perspective, long-term immunity against viral threats depends on the thymus, which also appears to have an important bioenergetic role in addressing allergies.

Bioenergetically, the Spleen- Quantum field, through the energetic and informational pathway of the thymus, links closely with specific types of immune cells, including T-lymphocytes, T-helper cells, T-suppressor cells, and natural killer cells. It also supports your body's bioenergetic resistance to molds, parasites, and allergic responses and plays a bioenergetic role generally in helping to prevent autoimmune disorders.



### 19.15 Quantum Field 15: Pancreas Field

The Pancreas field is generated by the action of pancreatic cells. It bioenergetically connects to the vagus nerve and at the cellular level, to lymphocytes in the spleen. It further correlates to the production of digestive enzymes for carbohydrates, proteins, and fats, and, in relation to endocrine function, is concerned with the islets of Langerhans, which are involved in the production of glycogen and insulin. The Pancreas field also correlates to blood sugar regulation in general.



### 19.16 Quantum Field 16: Bone Field

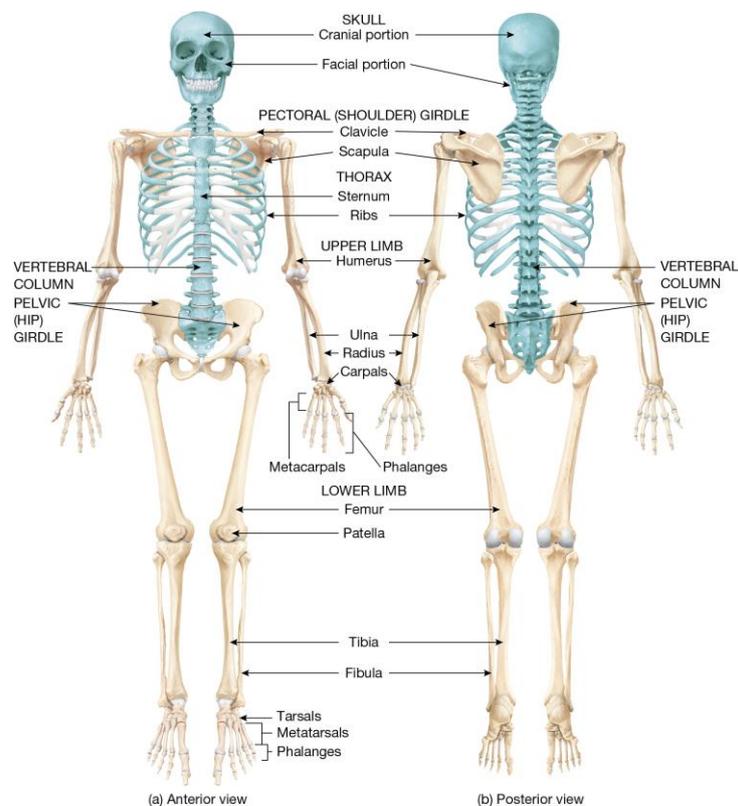
Generated by the compression of osteons, the Bone field exerts its bioenergetic influence on calcium metabolism in all its forms, such as in the formation of bones and in muscular

contraction, and on hormone release, blood coagulation, and intercellular communication on an energetic, not a chemical level.

Calcium metabolism is involved in tens of thousands of body processes and so may be involved bioenergetically in a staggering range of health problems in ways that allopathic medicine has yet to identify.

The Bone field is strongly connected bioenergetically to red blood cells and to the antibody system generally. The field is particularly sensitive to and thus is easily weakened by, heavy metals, especially lead, mercury, and aluminum.

The Elemental fields are the “information highways” of the body-field. It is so important to identify energetic and informational fields for structures at all levels of the body, from the microscopic level of proteins and cells to the larger organ structures to the overall human body-field.



## 20. Frequency and Phase

If there are twelve Elemental fields, then an obvious question is, what distinguishes one Field from another? Although the same classes of information (elements/compounds, proteins, cells, organs, emotions, etc.) are found in each Elemental Field, each field links to specific items within each class.

In the ERIC model of the body-field, phase shift appears to be at least as important, if not more important, than frequency in terms of the state of our health—because frequency tends to be stable whereas phase can shift. Researcher suggests that measuring both field frequency and phase shift is necessary for interpreting body-field dynamics.

In the Elemental Field system, each organ has a primary frequency range. The heart, as an example, produces many frequencies but primarily is a low-frequency organ. It correlates to elemental field 2, which covers a frequency range of 10 to 100 hertz. However, in ERIC theory, frequency alone is not sufficient to explain body-field elements.

The chart below shows how the Elemental Fields arrange themselves from very-low-frequency sound up to a frequency just below that of visible light, and the corresponding phase shift range for each Elemental Field.

## 21. ERIC Elemental Field Frequency and Phase Chart

Elemental field	Frequency Range (hz, khz, mhz, ghz, thz)	Phase (degrees)
Elemental Field 1	0-10 hz	15 <sup>0</sup>
Elemental Field 2	10-100 hz	30 <sup>0</sup>
Elemental Field 3	100-1,000 khz	45 <sup>0</sup>
Elemental Field 4	1khz-10 khz	60 <sup>0</sup>
Elemental Field 5	10khz-100 khz	75 <sup>0</sup>
Elemental Field 6	100khz-1 mhz	90 <sup>0</sup>
Elemental Field 7	1mhz-10 mhz	105 <sup>0</sup>
Elemental Field 8	10mhz-100 mhz	120 <sup>0</sup>
Elemental Field 9	100mhz-1 ghz	135 <sup>0</sup>
Elemental Field 10	1ghz-10 ghz	150 <sup>0</sup>
Elemental Field 11	10ghz-100 ghz	165 <sup>0</sup>
Elemental Field 12	100ghz-1 thz	180 <sup>0</sup>

## 22. The Body-Wave Versus The Body-Field

The big body-wave is the carrier for the Elemental field system. The big body-wave “begins” at Elemental field 1 and “ends” at Elemental field 12. The “signal,” for want of a better word to describe how information is carried via the big body-wave, feeds back from Elemental field 12 into Elemental field 1, so the wave constantly loops or cycles.

In an analogous way, the longer a small distortion in your body-field cycles unchecked through the network of twelve fields—through the big body-wave—the higher the likelihood that the distortion will become larger and work its way down through the layers of the field to affect the physical body.

When the distortion becomes so gross that it affects the physical body, it may take a long time to correct those problems. It is wiser to correct energy and information distortions before they affect the physical body.

### **23. The ERIC View of the Visible Aura**

The human body-field is both an element and informational structure, and there are many traditions that have devised systems for interpreting its information visually or intuitively, with ancient concepts such as the meridians, chakras, and the aura. Aura often is evoked as the visible part of the human energy body from which information may be gleaned. In the ERIC model, the external aura can be thought of as a sort of corona of the dynamic body-field, but not as an integral part of its information network.

The aura is largely electromagnetic in nature but composed of visible light (it can be seen by the human eye or detected through certain photographic methods, such as kirlian photography; its visibility also is why it is often referred to as the “light body” in metaphysical parlance).

Visible light covers only a tiny range of the electromagnetic spectrum, which is vast, with energies (frequencies) such as radio and infrared waves extending below the range of visible light, and others, such as ultraviolet, X-ray, and gamma rays, extending far beyond it.

In contrast, the human body-field, according to ERIC, includes much more of the spectrum of energies, especially via the Elemental fields, which include frequency ranges in hertz from near 0 to  $1 \times 10^{12}$ , as shown in the chart earlier.

### **24. The Elemental Fields, Consciousness, and Emotions**

How the elemental fields correlate to emotions and consciousness? Every aspect of our being is covered to one degree or another by the information network we call the elemental fields, with more biologically complex aspects of the body falling at the higher end of the frequency and phase shift ranges of the Fields.

Each of the twelve elemental fields, contains information about every aspect of the body—including elements, cells, tissues, organs, emotions, and aspects of consciousness. At the very top of each Field, after emotions and consciousness, is what we call self-organizing breakdown, which is ERIC term for the adaptation point of the wave—the crux of homeostasis, where the information the body needs either contributes to health or to the breakdown of health and well-being.

Mind-body medicine has shown us how emotional tape loops—habitually replaying emotions or behaving according to mostly unconscious emotional patterns—can affect the body-field just as physical habits can. It also has shown how stress, beliefs, attitudes, and other emotional states can directly affect our health and well-being. For instance, meditation and relaxation practices can beneficially affect our physical state, lowering our blood pressure, alleviating pain, and more.

Researcher such as Candace Pert, author of *The Molecules of Emotion*, and other have shown that the neuropeptides—the molecules of emotion, which were once thought to be manufactured and circulated only in the brain (hence the term neuropeptide) – are found everywhere in our body. It’s now understood what wisdom traditions have told us for thousands of years—that emotion is actually distributed body-wide. For example, consciousness, when it becomes incoherent and disordered, contributes to the formation of disease or that when it is coherent and ordered it contributes to health.

Scientist thought that the sixteen Elemental Fields might play a role in consciousness. The lowest frequency area contains certain elements, and moving up the frequency ranges, they contain compounds, followed by simple things in biology like amino acids, followed by proteins, tissues, organs, and so on. As complexity increases, so does the frequency of the compartment. They match in space in a certain order.

The only match found was to the cells and structures of the heart. For example, it strongly matched to myocardial tissue, which is the tissue that plays the most important role in imprinting memory into a certain type of fat cell. Since you have fat cells all over your body, so the implication is that the heart as imprinter affects the whole body via the blood. So, you have both memory and consciousness over all your body. Your body is a holograph of memory, and when a bit of that memory goes missing, it is simply no longer available to awareness because it is not moving through the fields.

## **25. VIBRATION of the Elemental Fields**

This overview can provide you with a wondrous sense of how energy and information work in concert to direct life processes.

### **25.1 Elemental Field 1: Brain and Nervous System**

#### Brain and Nervous System

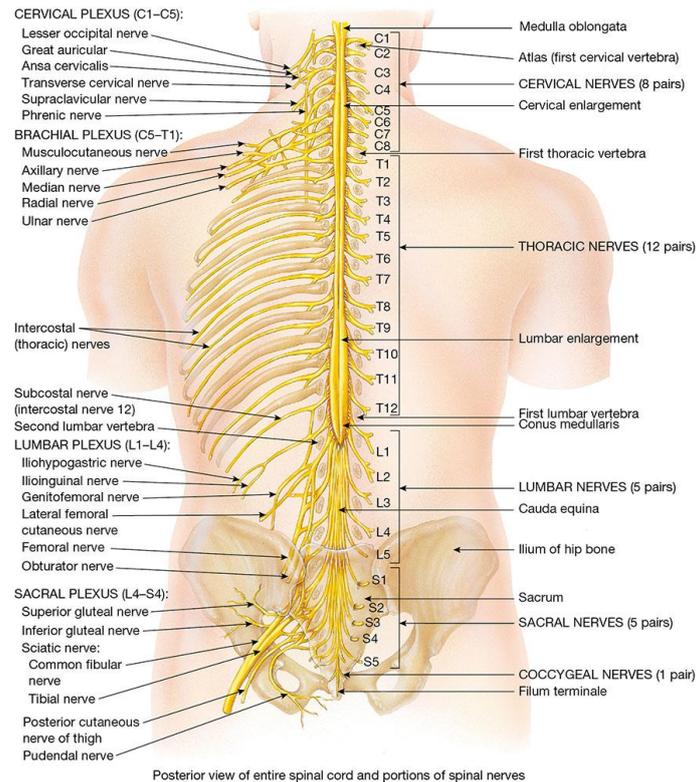
- Frontal lobes (also Elemental Field 11)
- Sensory cortex, organs, and processes
- Autonomic nervous system
- Cranial nerves
- Spinal nerves: nerve plexuses, nerves to organs, and vasomotor nerves
- Motor neuron (also Elemental Field 10)

#### Other Bioenergetic Connections

- Large intestine: ascending colon, hepatic flexure, transverse colon, and descending colon mesentery (but rectum, anus, and sigmoid colon are in Elemental Field 6; also see Elemental Fields 7 and 11)
- Skin: dermis layer (also Elemental Field 3)
- Bronchi: smooth muscles, mucosae (also Elemental Fields 4, 5, and 11)
- Bone marrow in general
- Paranasal sinus
- Lymph vessels (also Elemental Field 5)

#### Minerals and Elements

- Boron
- Cobalt (also Elemental Field 6)
- Iodine (also Elemental Field 9)
- Molybdenum
- Sulfur



Elemental Field 2 contains estradiol, estrone, and pregnenolone, this fact offers tantalizing clues that disturbances in the levels of these hormones may bioenergetically affect heart function or, conversely, that the heart as imprinter of information may affect these hormones levels. This link may be especially important for the health of postmenopausal women, but much more research is needed for conclusion.

## 25.2 Elemental Field 2: Heart and Cardiovascular System

### Heart and Cardiovascular System

- Right ventricle (also Elemental Fields 3, 9, and 10)
- Pericardium
- Myocardium (also Elemental Field 8)
- Endocardium
- Pulmonary valve
- Coronary sinus
- Coronary arteries
- AV and SA nodes
- Circulation in chest area
- Hemoglobin (also Elemental Fields 4 and 7)

### Respiratory System

- Mediastinum (also Elemental Field 8)
- All lobes of the lungs
- Pulmonary tissue
- Trachea (but not bronchi or apex)

## Germinal Layers of Fetus

- Ectoderm
- Endoderm
- Mesoderm

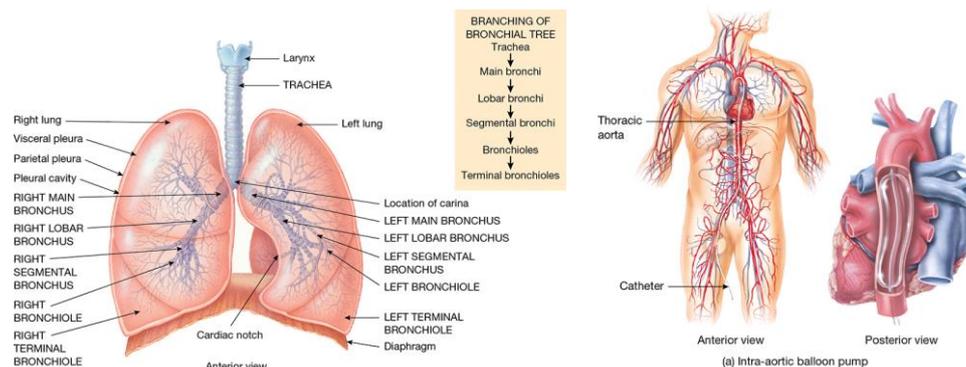
## Hormones

- Estradiol (also Elemental Field 10)
- Estrone (also Elemental Field 8)
- Pregnenolone (also Elemental Field 10)

## Minerals and Elements

- Osmium
- Rubidium (also Elemental Field 11)

Distortions in Elemental Field 2 could reveal themselves as bioenergetic correlations to problems such as angina, congestive heart failure, hormonal imbalances, congestive-obstructive pulmonary disease, emphysema, bronchiectasis, parasitic infections, embryonic malformations, and developmental disorders such as autism. Grief, in all its varied expressions, is the emotion most strongly correlated to Elemental Field 2.



## 25.3 Elemental Field 3: Skeletal System

### Skeletal System

- Bone metabolism, especially calcium metabolism
- Vertebrae: atlas, cervical, dorsal, lumbar, and sacrum (also in Elemental Field 5)

### Heart and Cardiovascular System

- Left ventricle (also Elemental Field 2, 9, and 10)

### Endocrine System

- Parathyroid gland
- Parathyroid hormone

### Lining Tissues

- Skin: epithelium (also Elemental Field 1)
- All mucosae of nose, throat, bronchi, and gut

## Sensory System

- Ear canal (external auditory meatus)

## Digestive System

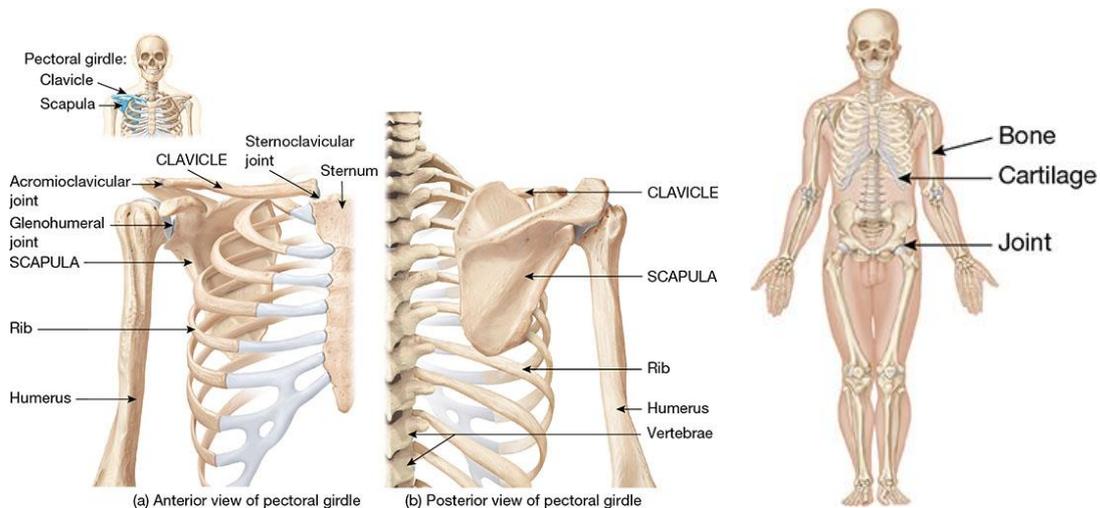
- Ileum: serous and muscular coats
- Intestinal villi
- Ileocecal villi (also Elemental Field 5)
- Ileocecal valve
- Appendix (also Elemental Field 5)

## Other Bioenergetic Connections

- Muscle fascia (also Elemental Field 12)
- Penis: glans (also Elemental Field 5 and 11)

## Minerals and Elements

- Calcium (also Elemental Field 4)
- Carbon
- Hydrogen (also Elemental Field 4 and 6)
- Strontium
- Vanadium



## 25.4 Elemental Field 4: Brain and Nervous System

### Brain and Nervous System

- All neurotransmitters, including dopamine, serotonin, and L-dopa
- Midbrain (also Elemental Field 10)
- Substantia nigra
- Cerebral ventricles: all four
- Cerebrospinal fluid (also Elemental Field 6)
- Speech center of cortex
- Auditory area of cortex
- Nerve cell nuclei (but not axon or dendrites; motor neurons are in Elemental Fields 1 and 10)

## Respiratory System

- Bronchi, bronchioles (also Elemental Field 1, 5, and 11)
- Alveoli
- Vagal bronchoconstrictor
- Sphenoid sinus

## Reproductive and Genito-urinary Systems

- Uterus: myometrium, cervix (but not vagina)
- Ovaries: left, right, inner, and outer parts, corpus luteum (but not fallopian tubes); (also Elemental Fields 8 and 10)
- Nerves to bladder: both sympathetic and parasympathetic (also Elemental Field 5)
- Muscle sphincters (also Elemental Field 12)

## Cardiovascular System

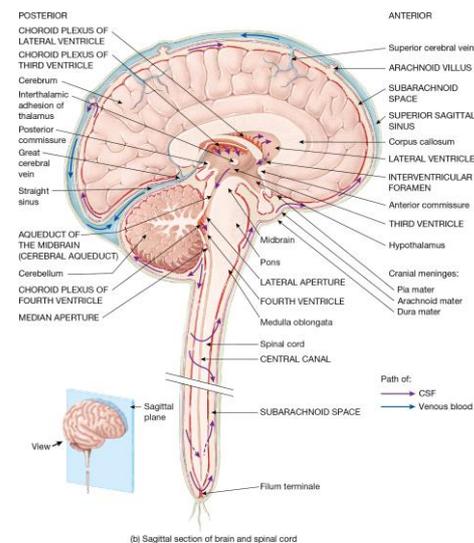
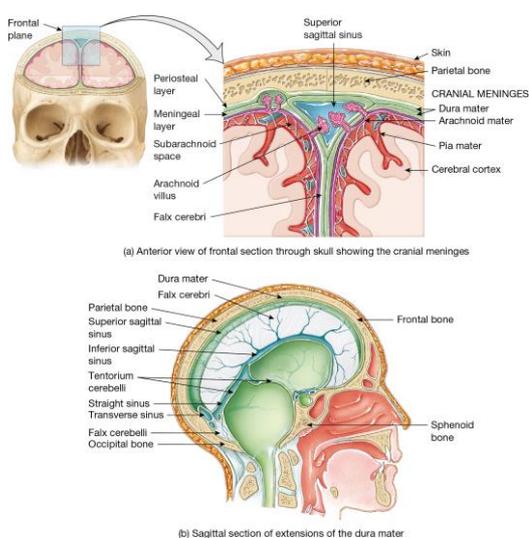
- Blood plasma
- Hemoglobin (also Elemental Fields 2 and 7)

## Other Bioenergetic Connections

- Sphincter muscles (also Elemental Field 12)

## Minerals and Elements

- Calcium (also Elemental Field 3)
- Fluorine
- Hydrogen (also Elemental Field 3 and 6)
- Iron (also Elemental Field 11)
- Magnesium
- Manganese
- Oxygen
- Potassium (also Elemental Field 10)



## 25.5 Elemental Field 5: Brain and Nervous System

### Brain and Nervous System

- Gray matter of the brain (also Elemental Field 7)
- White matter of the spine: cervical, dorsal, lumbar, and sacral nerves; spinal cord
- Cerebellum
- Medulla oblongata (also Elemental Field 6)
- Pons
- Cochlear nerve

### Immune System

- Lymph vessels and fluids (also Elemental Field 1)
- Lymph nodes
- Lymphatic tissue of the pharynx
- Tonsils
- T-lymphocytes (also in Elemental Field 7)
- B-lymphocytes

### Hepatic System

- Gallbladder (also Elemental Field 7)

### Skeletal System

- Vertebral motor unit and vertebrae: atlas, cervical, dorsal, lumbar, and sacral (also Elemental Field 3); coccyx
- Spinal discs (also Elemental Fields 6 and 12)

### Respiratory System

- Bronchi: smooth muscles, mucosae (also Elemental Fields 1, 4, and 11)

### Genito-urinary System

- Bladder: mucosae, muscular coats, sphincter, and autonomic nerves (also Elemental Field 4)
- Urethra
- Penis and nerves to penis (also Elemental Field 3 and 11)
- Corpora cavernosa
- Prostate: tissue, veins, nerves, isthmus, and muscles

### Digestive System

- Ileocecal valve (also Elemental Field 3)
- Appendix (also Elemental Field 3)

### Endocrine System

- Anterior pituitary (also Elemental Field 9)
- Thyroid capsule (also Elemental Field 9)
- 5-Hydroxytryptophan
- Adrenocorticotrophic hormone (ACTH)
- Cortisol
- Noradrenaline

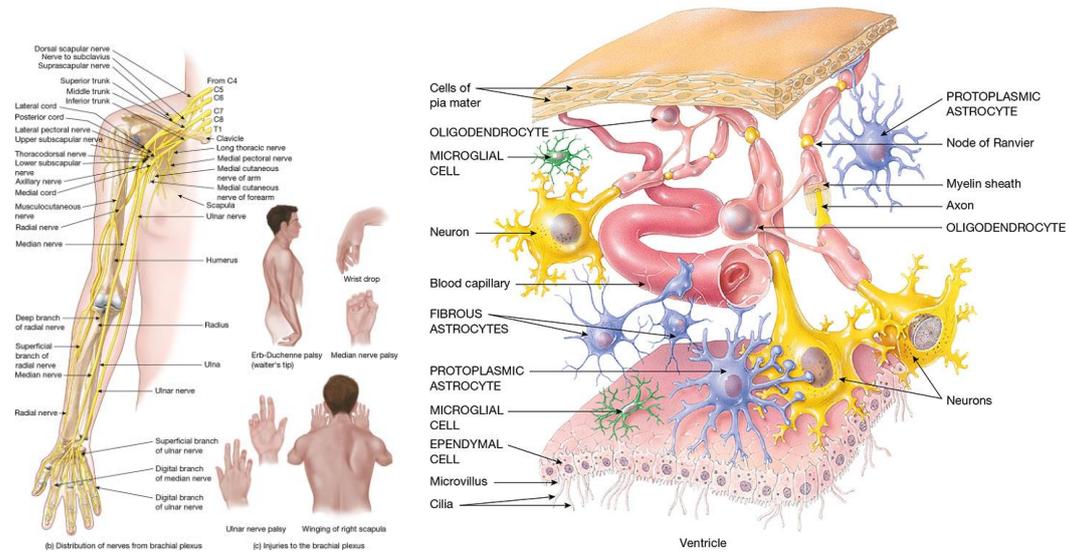
- Diiodotyrosine
- Aldosterone

### Other Bioenergetic Connections

- Frontal sinuses
- Teeth

### Minerals and Elements

- Tantalum



## 25.6 Elemental Field 6: Hepatic System

### Hepatic System

- Kidneys and fibrous capsules
- Glomerulus
- Renal calyx
- Renal tubules
- Ureter
- Blood plasma salts

### Brain and Nervous System

- White matter
- Thalamus
- Hindbrain
- Cranial cavity
- Medulla oblongata (also Elemental Field 5)
- Cerebrospinal fluid (also Elemental Field 4)

### Digestive System

- Sigmoid colon
- Rectum
- Anus

## Endocrine System

- Pineal gland
- Androstenedione
- DHEA
- Thymus and serum thymic factor

## Skeletal System

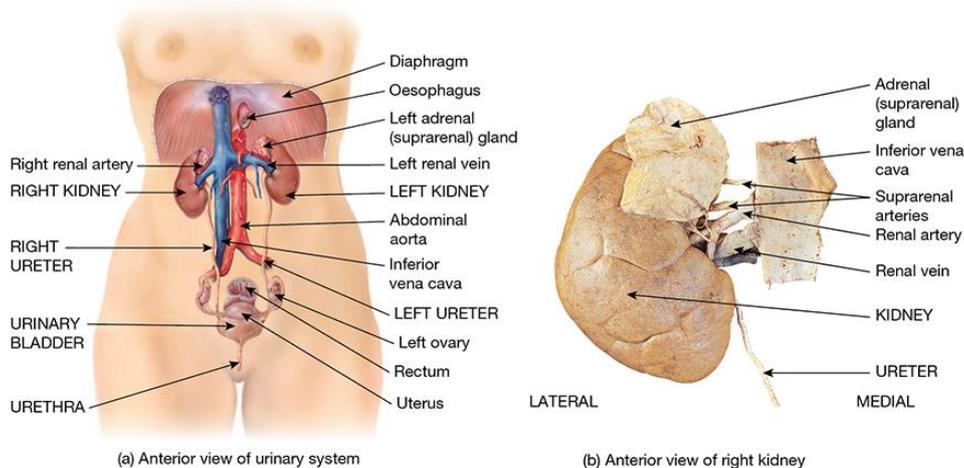
- Bones in general (also Elemental Field 10)
- Spinal discs (also Elemental Field 5 and 12)

## Minerals and Elements

- Cobalt (also Elemental Field 1)
- Copper
- Germanium
- Hydrogen (also Elemental Fields 3 and 4)
- Lithium
- Phosphorus
- Zinc (also Elemental Field 11)

### **FUNCTIONS OF THE URINARY SYSTEM**

1. Kidneys regulate blood volume and composition; help regulate blood pressure, pH, and glucose levels; produce two hormones (calcitriol and erythropoietin); and excrete wastes in urine.
2. Ureters transport urine from kidneys to urinary bladder.
3. Urinary bladder stores urine and expels it into urethra.
4. Urethra discharges urine from body.



## 25.7 Elemental Field 7: Digestive System

### Digestive System

- Stomach: peritoneal cavity in general and muscular coat of stomach
- Duodenum and jejunum
- Colon: muscular coat (also Elemental Fields 1 and 11)
- Bile ducts
- Gallbladder and arteries (also Elemental Field 5)
- Peritoneum
- Epigastrium

## Brain and Nervous System

- Motor Cortex
- Gray matter of brain and spinal cord (also Elemental Field 5)
- Sympathetic control of blood pressure

## Hematopoietic System

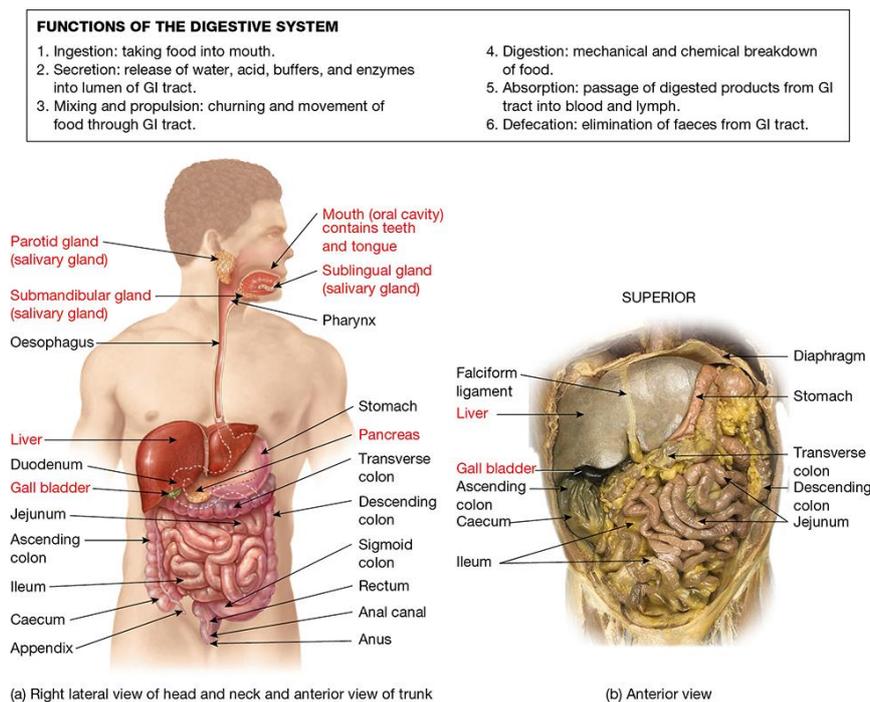
- Hemoglobin (also Elemental Fields 2 and 4)
- Blastic cells
- Natural killer cells
- T-cells (also Elemental Field 5)

## Other Bioenergetic Connections

- Ligaments (also Elemental Field 9)
- Cellular cartilage (also Elemental Field 12)

## Minerals and Elements

- Antimony
- Nickel (also Elemental Field 10)



## 25.8 Elemental Field 8: Brain and Nervous System

### Brain and Nervous System

- Hypothalamus (also Elemental Field 10)
- Supraoptic nucleus

## Visual System

- Iris
- Retina
- Center of the optic nerve
- Visual cortex

## Hepatic System

- General function and nerves to lobes in liver (liver cells are in Liver Field)

## Cardiovascular and Respiratory System

- Myocardium (also Elemental Field 2)
- Diaphragm
- Mediastinum of lungs (also Elemental Field 2)
- Maxillary sinus

## Female Reproductive System

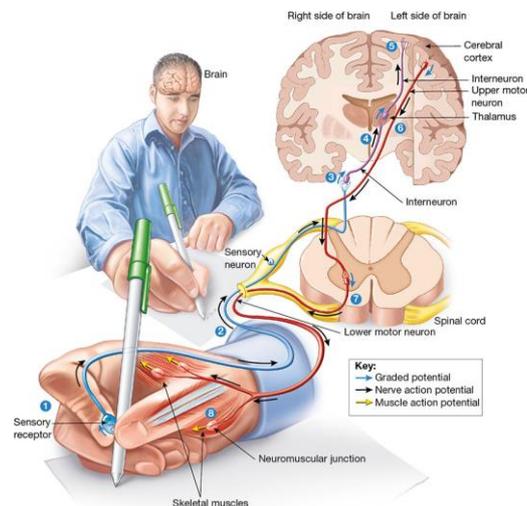
- Ovaries: corpus luteum (also Elemental Fields 4 and 10)

## Endocrine System

- Calcitonin
- Adrenaline
- Prolactin
- Estrogen
- Estrone (also Elemental Field 2)

## Minerals and Elements

- Chromium



## 25.9 Elemental Field 9: Endocrine System (Thyroid)

Elemental Field 9 is especially noteworthy in the Elemental field system because, like Elemental Field 4, it bioenergetically affects all of the major cavities—the cranial, thoracic, and abdominal—as well as the myriad smaller cavities distributed throughout the body, such as the capsules around each organ and the spaces around the joints.

In the ERIC system, energy is produced by a fetus as it develops, as brain waves begin to course through the nervous system, but also through phonons, pressure waves, and electrical frequencies produced by the heart as it beats, the lungs and other bioenergetic mechanisms. It is only after birth that food metabolism and molecular biology (i.e., through adenosine triphosphate [ATP] and adenosine diphosphate [ADP] processes) become important in terms of cell energy production.

#### Endocrine System

- Thyroid gland (also Elemental Field 5)
- Pituitary gland: posterior and medial (also Elemental Field 5)
- Adrenal medulla (also Elemental Field 10)

#### Brain and Nervous System

- Lateral ventricles
- Trigeminal nerve

#### Other Bioenergetic Connections

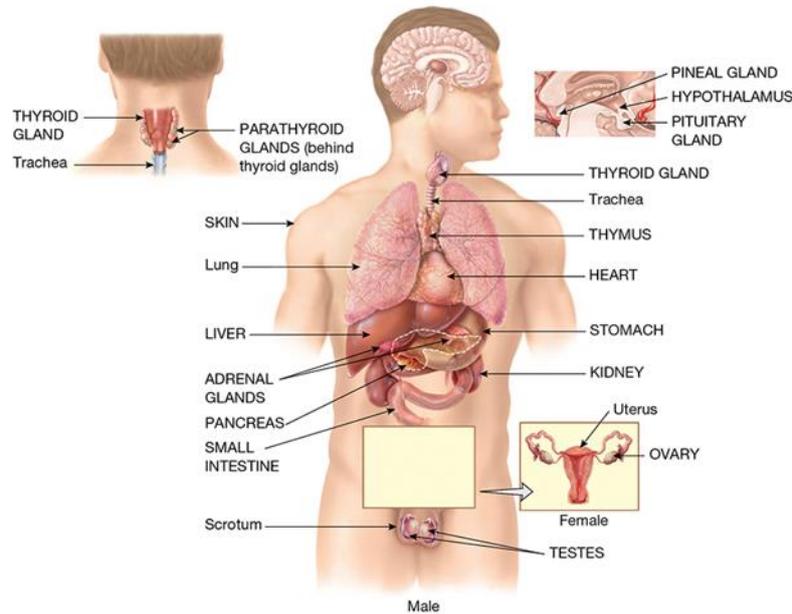
- Heart: mitral valve and right atrium (also Elemental Field 2, 3, and 10)
- Vagina (also Elemental Field 10)
- All mucosae
- Ligaments (also Elemental Field 7)
- Links cranial, thoracic, and abdominal cavities

#### Minerals and Elements

- Calcium-sodium relationship
- Iodine (also Elemental Field 1)
- Ionic chlorine
- Selenium

**FUNCTIONS OF HORMONES**

<p>1. Help regulate:</p> <ul style="list-style-type: none"> <li>• chemical composition and volume of internal environment (interstitial fluid)</li> <li>• metabolism and energy balance</li> <li>• contraction of smooth and cardiac muscle fibres</li> </ul>	<ul style="list-style-type: none"> <li>• glandular secretions</li> <li>• some immune system activities.</li> </ul> <p>2. Control growth and development.</p> <p>3. Regulate operation of reproductive systems.</p> <p>4. Help establish circadian rhythms.</p>
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## 25.10 Elemental Field 10: Neuroendocrine System

### Neuroendocrine System

- Hypothalamus (also Elemental Field 8)
- Midbrain (also Elemental Field 4)
- Motor neurons (also Elemental Field 1)
- Adrenal cortex: corticosterone, 11-deoxycorticosterone, and melanocyte-releasing hormone
- Adrenal medulla
- Ovaries: 2-hydroxy estradiol and 16-hydroxy estrone
- Estradiol (also Elemental Field 2)
- Pregnenolone (also Elemental Field 2)
- Growth hormone

### Cardiovascular System

- Venous and arterial circulation
- Heart: left atrium (also Elemental Fields 2, 3, and 9)

### Digestive System

- Pylorus
- Mucous coat of stomach (also Elemental Field 11)

### Respiratory System

- Larynx
- Pharynx

## Female Reproductive System

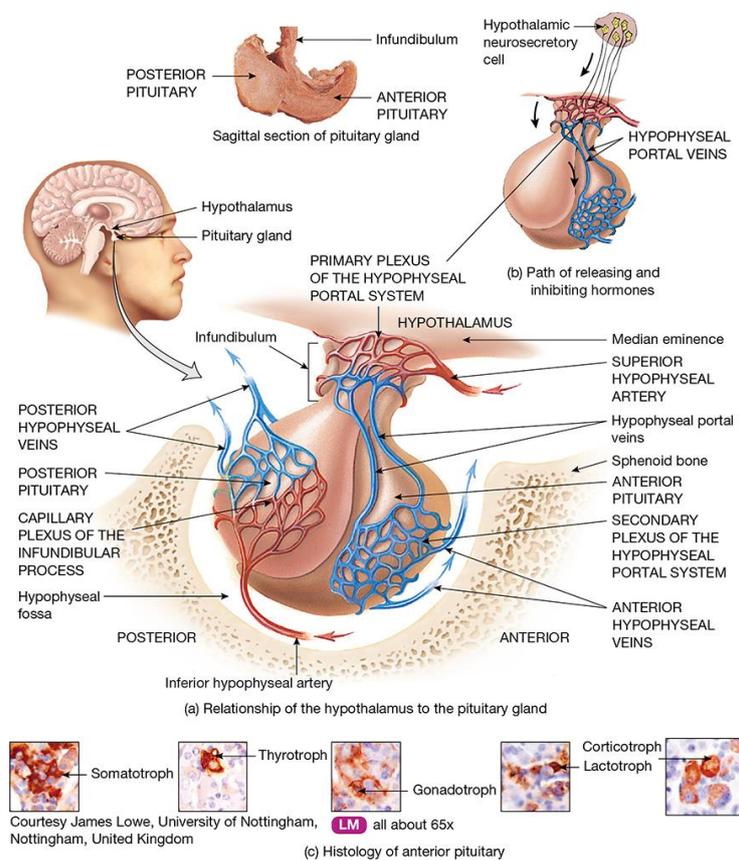
- Vagina (also Elemental Field 9)
- Ovaries (also Elemental Field 4 and 8)
- Clitoris

## Other Bioenergetic Connections

- Lens of the eyes (but most of the eye is Elemental Field 8)
- Tail of the pancreas
- Bones (also Elemental Field 6)

## Minerals and Elements

- Nickel (also Elemental Field 7)
- Potassium (also Elemental Field 4)
- Silicon
- Sodium



## 25.11 Elemental Field 11: Digestive System

### Digestive System

- Abdominal cavity in general
- Stomach: mucous (also Elemental Field 10) and muscular coats
- Fundus: gastric acid production
- Pyloric glands: pepsin
- Duodenum: mucosae and muscles
- Colon: muscular coat (also Elemental Field 1 and 7)

- Esophagus

#### Ears, Nose, Throat, and Respiratory System

- Lungs: bronchi, bronchioles, smooth muscles, and mucosae (also Elemental Fields 1, 4, and 5)
- Maxillary sinuses
- Diaphragm
- Epiglottis

#### Male Reproductive System

- Head of penis (also Elemental Fields 3 and 5)
- Testicles and lymph vessels to testicles
- Vas deferens
- Seminal vesicles and epididymis
- Spermatic cord
- Scrotum
- Testosterone and dihydrotestosterone

#### Brain and Nervous System

- Frontal lobes of brain (also Elemental Field 1)
- Sympathetic and parasympathetic nerves

#### Hematopoietic System

- Red bone marrow
- Yellow bone marrow

#### Other Bioenergetic Connections

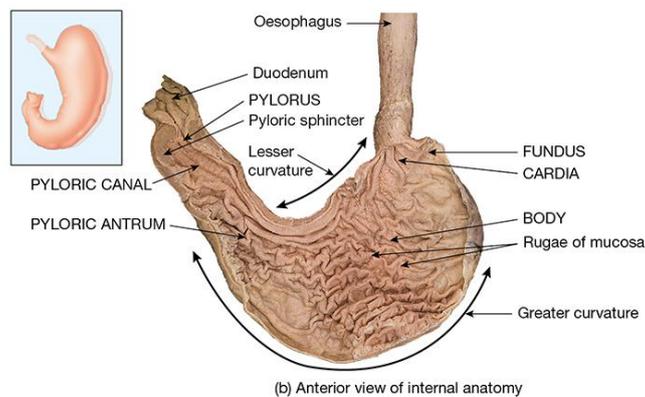
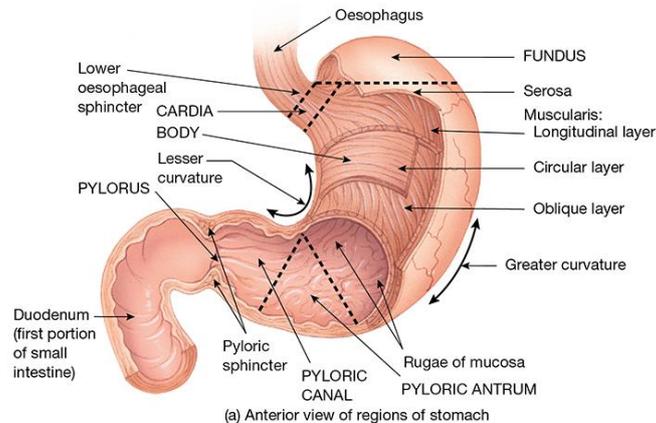
- Groin
- Muscles to front of legs
- Teeth and gums of lower jaw

#### Minerals and Elements

- Iron (also Elemental Field 4)
- Rubidium (also Elemental Field 2)
- Silver (also Elemental Field 12)
- Tin
- Zinc (also Elemental Field 6)

#### FUNCTIONS OF THE STOMACH

1. Mixes saliva, food, and gastric juice to form chyme.
2. Serves as reservoir for food before release into small intestine.
3. Secretes gastric juice, which contains HCl (kills bacteria and denatures proteins), pepsin (begins the digestion of proteins), intrinsic factor (aids absorption of vitamin B<sub>12</sub>), and gastric lipase (aids digestion of triglycerides).
4. Secretes gastrin into blood.



## 25.12 Elemental Field 12: Pancreatic System and Spleen

### Pancreatic System and Spleen

- Head and tail of pancreas
- Pancreatic duct
- Islets of Langerhans
- Alveoli and centroacinar cells
- Spleen

### Brain and Nervous System

- Corpus callosum
- Fourth cerebral ventricle

### Immune System

- Lymphatic fluid

### Female Reproductive System

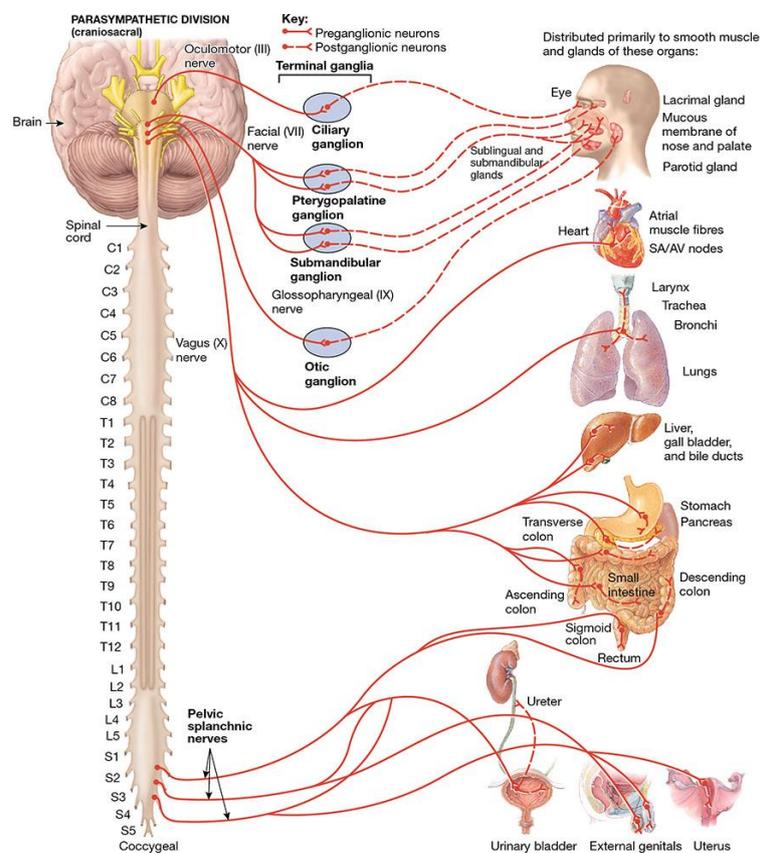
- Uterus (also in Elemental Field 4)
- Cervix, including its lymph, veins, and arteries (also see Elemental Field 4)
- Fetus

## Other Bioenergetic Connections

- Muscle sphincters (also Elemental Field 4)
- Cellular cartilage (also Elemental Field 7)
- Muscle fascia (also Elemental Field 3)
- Spinal discs (also Elemental Fields 5 and 6)

## Minerals and Elements

- Cesium
- Gold
- Nitrogen
- Silver (also Elemental Field 11)
- All twelve Schussler tissue salts in homeopathy



## 26. Biofield Resonance (understanding)

If something is not understood it is not valued, being aware of our situation can prevent us from suffering from disease, emotion, mental or physical.

The transmission of the infection is always via a physical route. In contrast, in the ERIC bioenergetic model, microbes have their own energy and information fields, and these fields can be transmitted and can affect the body-field and, thus, the body. Biologist Rupert Sheldrake has hypothesized that every life form has a morphogenetic field that shapes it and drives its evolution.

In a similar vein, ERIC proposes that every family of virus—or other type of microbe—creates a field, and that field, as the bioenergetic template for that life form, transmits information that may be as real as the physical microbe. The organism's field—its information template—may be all that is necessary for the spread of viruses and other infectious microbes or for the appearance of symptoms associated with the real microbe.

However, to be susceptible to that field, your body-field has to be compromised in some way. There has to be an environment—a Biofield Resonance—in which that information has meaning and, consequently, can affect the physical body.

## **26.0 Biofield Resonance 0**

This Biofield Resonance is generally bioenergetically correlated to tissues of the central nervous system and myocardium. It can occur specifically in the sphincter muscles, midbrain tegmentum, auditory nerve, vestibular nerve, thalamus, optic thalamus, medulla oblongata, inner testes, and renal tubules. Biofield Resonance 0 is linked bioenergetically to specific viruses and multiple vaccines, particularly live-virus vaccines such as the polio and measles-mumps-rubella vaccines.

## **26.1 Biofield Resonance 1**

This Biofield Resonance correlates bioenergetically to blood and bone marrow, and it is generally associated with people who have chronically weak immune function. It is bioenergetically associated with viral particles and the entire retrovirus family, with an especially strong bioenergetic correlation to lentivirus. Generally, this Resonance masks slow-onset viruses, which take a long time to grow and may persist for decades in the body.

## **26.2 Biofield Resonance 2**

Biofield Resonance 2 bioenergetically may affect the bone marrow, and it is bioenergetically associated with viral particles and the entire retrovirus family.

## **26.3 Biofield Resonance 3**

This Biofield Resonance is the third one that bioenergetically affects the bone marrow specifically, and it is associated with viral particles and the entire retrovirus family. Biofield Resonance 3 can be thought of as a distinct resonance that forms from the combination of Resonance 1 and 2 when both exist simultaneously in the body. When Resonances 1, 2, and 3 all show on a scan, it is the body-field's way of bioenergetically indicating a deep problem that should be addressed as soon as possible in the ERIC protocol sequence.

## **26.4 Biofield Resonance 4**

Host tissues that bioenergetically correlate to this resonance include that brain and the central and peripheral nervous systems. It is linked with the energetic imprint of viruses and prions, which are aberrant proteins that fold bizarrely and turn into disease-causing agents. Prions are

most familiar to the public as the cause of bovine spongiform encephalopathy, or mad cow disease.

### **26.5 Biofield Resonance 5**

Biofield Resonance 5 is associated bioenergetically with the skin and lungs and links to the energetic template of a broad spectrum of viruses, including the many strains of human papilloma virus and the Bunyavirus family, particularly herpes-related and wart-related viruses.

### **26.6 Biofield Resonance 6**

The nose, throat, lungs, and bronchi are all host sites bioenergetically for Biofield Resonance 6. The real or virtual microbes correlated to this resonance include those in the wide variety of families of viruses that cause the common cold and flu, so most people will at one time or another show this resonance in their ERIC scan. Correcting this resonance can bring on flulike episodes, lasting on average from a few hours to about three days, as the virtual imprint of these ubiquitous viruses tend to persist in the body-field. This resonance also is bioenergetically linked to more virulent viral families that cause such illnesses as severe acute respiratory syndrome (SARS).

### **26.7 Biofield Resonance 7**

Biofield Resonance 7 has a wide bioenergetic reach, encompassing the encephalon of the brain, the central nervous system, pituitary gland, thyroid, pancreas, small intestine, and liver. The Flaviviridae viral family bioenergetically links to this Resonance, which means it may be implicated in CFS (Chronic Fatigue Syndrome). It is a particularly difficult Resonance to correct, so it may take time, and your immune system may have to be bolstered by first using other ERIC Bio-Info-fields.

### **26.8 Biofield Resonance 8**

This Biofield Resonance bioenergetically affects the coating of axons, the bladder, and most organs and tissues found in Elemental field 5, including the appendix, ileocecal valve, parts of the endocrine system, tonsils, some of the lymphatic tissues, many vertebrae, cerebellum, medulla oblongata, gray matter of the brain and spine, spinal nerves, and parts of the male genitalia.

### **26.9 Biofield Resonance 9**

The stomach and duodenum bioenergetically host this Biofield Resonance, which is correlated to bacteria such as *Helicobacter pylori*, *Escherichia coli* (E. coli), and *Salmonella*. It also may be associated bioenergetically with gastric reflux and acid stomach in general.

### **26.10 Biofield Resonance 10**

This Biofield Resonance corresponds bioenergetically to the liver, chest, and gastrointestinal tract. It is correlated to the Picornaviridae virus family, which includes those that cause hepatitis A. It also bioenergetically links to some rhinoviruses, coxsackie viruses, and adenoviruses.

### **26.11 Biofield Resonance 11**

The liver and large bowel are both bioenergetically affected by Biofield Resonance 11. It is correlated to the Hepadnaviridae virus family, which includes those that cause hepatitis B.

### **26.12 Biofield Resonance 12**

This Biofield Resonance bioenergetically hosts the Flaviviridae virus family, including those that cause hepatitis C, and like Biofield Resonance 11 correlates to the liver and large bowel. It is implicated bioenergetically in CFS and related types of illnesses.

### **26.13 Biofield Resonance 13**

Biofield Resonance 13 is linked bioenergetically to a wide array of cells, tissues, organs, and other aspects of the body, including the bold, large bowel, chest cavity, skin, lungs, nasal cavity, pancreas, bones, and various kinds of neurons. It bioenergetically correlates to microbes including yeast, molds, fungi, and protozoa, including amoebas. Because this is a particularly robust Resonance in terms of its web of bioenergetic connections., dealing with more families of microorganisms than any other resonance, the related Bio-Info-fields can have a strong effect when you take it, so it always should be taken in minimum dosages to start.

### **26.14 Biofield Resonance 14**

The skin and lungs tend to host this Biofield Resonance, so bioenergetically it is associated particularly strongly with low Source energy. It tends to show up most in people who work indoors for extended periods, especially in air-conditioned rooms, or those who are not exposed to enough natural sunlight and fresh air. In terms of microbes, it correlates bioenergetically to many bacteria strains, including Staphylococcus, Streptococcus, and Legionella, so it is implicated in ulcers of the ears, nose, skin, tonsils, and bladder, and in dental root canal infections, gastrointestinal catarrh, and other associated conditions.

### **26.15 Biofield Resonance 15**

As the last Biofield Resonance in the sequence, this is a General Biofield Resonance, called a GBR in ERIC. When it comes up on the ERIC scan it indicates a need for a specially designed Bio-Info-field rather than identifying a distortion correlated to a particular tissue or correlated to a specific family of microorganism. The Biofield Resonance 15 Bio-Info-field is used mostly as an adjunct Bio-Info-field when the other Resonance Bio-Info-fields do not seem to be having an effect.

Bioenergetically, this Bio-Info-field helps to correct biofield as a whole and tends to have a generalized correcting effect on all Biofield Resonance that may be present in a body-field. It tends to stimulate the thymus and the secretion functions of the kidneys and bladder, so it is important to drink extra fluids when taking this Bio-Info-field. In addition, ERIC research has shown that all resonances tend to distort the functioning of the nuclei of cells everywhere in the body, and Biofield Resonance 15 addresses this damage, bioenergetically assisting the nuclei to return to full functioning.

## **27 THE ENERGETIC NODES (actions)**

The Energetic Nodes represent the field equivalent of metabolic pathways that govern energy and information usage in the body. They are arranged in a sequence—in this case from Nodes 1 through 15—and they roughly follow a “survival” hierarchy in the body, with the lowest number representing the most important energetic and informational mechanism for the body’s proper functioning.

### **27.1 Energetic Node 1: Lymphatic Immunity and General Radiation**

Without a strong immune system, you cannot survive. Your immune system is your alert and warning system as well as your defense against anything from the environment that threatens your health or survival. Even your emotions affect the strength of your immune system because depression, negativity, worry, and stress dampen it. Energetic Node 1, therefore, takes priority in the Node series.

There are many components to a versatile, well-functioning immune system, and the Energetic Node 1 Bio-Info-field addresses most of them on an energetic level, helping to catalyze the immune system to full function and power. However, it is robustly linked specifically to the lymphatic immune system.

This Bio-Info-field also is designed to address the bioenergetic consequences of overexposure to electromagnetic radiation, or e-smog, from both man-made sources such as computers, mobile phones, and radio waves—and natural ones, such as solar radiation.

It also has a bioenergetic impact on the nervous system, specifically addressing issues correlated to many of the bacteria, fungi, parasites, viruses, and viral particles—both real and virtual—that may disrupt the nervous system and affect other tissues. Therefore, this Energetic Node has a robust connection to Biofield Resonance. It specifically correlates energetically to those viruses or viral particles that are implicated in slow-moving, chronic diseases such as CFS and perhaps even HIV.

The field associated with this Node also appears energetically correlated to a range of diverse physical and emotional conditions that include manic depression, bipolar disorder, hypersensitivity to light and sound, glaucoma, hernia, and migraines.

## 27.2 Energetic Node 2: Memory Imprinter

According to conventional biology, you wouldn't think of memory as either a metabolic pathway or a survival mechanism for the body, but in bioenergetics memory means patterns of information, and the body depends on this systemic, body wide memory to perform at all levels of functioning.

Memory is not only a function of your brain/mind but also of every aspect of your body, of those processes taking place at the cellular and even the DNA levels as well as those at the larger systems level, such as in your nervous system or immune system.

For example, if you experience an emotional or physical shock or trauma, that experience and its related emotions may be bioenergetically stored in your muscles, forming a memory that can affect your biology. If many years later you have a deep-tissue massage, you may experience the spontaneous release of that long dormant memory and the accompanying emotions.

As another example, when you are exposed to virus, your immune system makes antibodies against it, protecting you from that virus should you be exposed to it again, even decades later. The various antibodies in your system form what amounts to a storehouse of information—a reservoir of memories—of past infections and responses.

It is not too far-reaching to say that health and illness are processes that reveal memory at work. Our bodies remember how to carry out millions, even trillions, of processes every minute of every day, usually without a glitch, but when a glitch does occur, we begin to experience the loss of homeostasis or the advent of the symptoms of illness. You could say that illness occurs when the body forgets.

You will recall that Biofield Resonance tend to hide microorganisms and even other resonances in the body. You might say resonances are expert at making the body forget. Shingles is a good example. It is a painful skin condition caused by the virus that initially gives you chicken pox. After you recover from chicken pox, that virus remains hidden away in your nerves, dormant until something triggers your body's response to it.

That “remembering” manifests as painful skin lesions when the virus becomes active again. So, even though you overcome your initial illness, the physical or bioenergetic imprint of that breakdown can linger for decades and manifest later in wholly different ways. When we say that certain illnesses have triggers—whether they are environmental, biological, or emotional—we are really saying that the body stores patterns. It remembers both the trigger and the response to the trigger.

So, Energetic Node 2 represents both personal memory (what amounts to your personal identity) and this kind of functional bioenergetic and body-oriented memory system. The Energetic Node 2 Bio-Info-field is designed to help correct distortions in your overall body-field memory network.

Specifically, Energetic Node 2 has a strong bioenergetic correlation to triglycerides and other lipids or fats. The testing shows that emotions and experiences are imprinted via the heart onto certain types of fats, which then circulate in the blood, reaching every part of the body.

Energetic Node 2 Bio-Info-field is a mixture of Bio-Info-field, mostly Fields, that link to all the major memory systems of the body, including those for Emotional Stress Release, Nervous System Field, Imprinter Field, Triglycerides (a Bio-Info-field that was once used by itself but is no longer offered as a stand-alone Bio-Info-field), and other.

The Energetic Node 2 Bio-Info-field in general is designed to energize and reestablish processes of energetic recording of data for later recall by the body. Because learning is dependent on memory, it is no surprise that they bioenergetic correlations between Energetic Node 2 and conditions such as mental lethargy, slow language skills development, and learning difficulties in general, both for children and adults. However, it also affects at a bioenergetic level our ability to express ourselves, to be clear in our identity, and to be the unique individuals that we are.

### **27.3 Energetic Node 3: Nerve Function**

Bioenergetically, this Node links robustly to the central nervous system, to neurotransmitters of all kinds, and to specific aspects of the nerves such as axons, neurons, and dendrites. Because many types of toxins, but especially environmental toxins, may adversely affect nerve function, this Node has a strong bioenergetic correlation to heavy metals, such as lead, cadmium, and mercury. Heavy metals can have drastically deleterious effects on nerve function, so they may be implicated, at least on a bioenergetic level, in such nervous system conditions as Parkinson disease, neuritis, and narcolepsy, although there does not appear to be a bioenergetic correlation between this Node and multiple sclerosis. It also bioenergetically affects ear function, so it may be related to auditory acuity.

Although Energetic Node 3 Bio-Info-field generally may help address bioenergetic distortions in neural-cell-generation processes, particularly the excretion of heavy metals, it also plays a protective energetic role in how the nerve field deals with molds, fungi, protozoa, and yeast. Energetic Node 3 also connects bioenergetically to triglycerides, bioenergetically correlating to the detoxification of these fats and aiding their metabolism in the body.

Because nerve endings assist in the body's production of enzymes and hormones, this Node also may be involved to some degree in hormone regulation, although a lot more research needs to be done. The hormonal system is vastly complex, so it is not well understood by either conventional or bioenergetic researchers.

### **27.4 Energetic Node 4: Triple Cavity**

Although the physical body and its biochemistry are powered directly by the breakdown of hydrogen bonds in sugars, the body-field relies on Source energy (also called zero-point energy), which is collected in your body's cavities. The concept of the Triple Cavity, or Triple Burner, comes from TCM, and ERIC concurs with this ancient healing tradition that the three major body cavities (the cranial, thoracic, and abdominal) play a critical role in how the body stores and uses energy. Energetic Node 4 is concerned with the network of energy and information dependent on the dynamics of this triple energy field system.

The Triple Energy Field system has a particularly strong link to the hormonal system, but we don't try to influence the hormonal system directly because it is simply too complex. However, the research shows that Source energy has a bioenergetic influence on enzyme and hormone molecules, and the Energetic Nodes 3 and 4 Bio-Info-fields are designed to have

indirect bioenergetic effects on our hormonal system, providing energy to the most basic mechanisms that contribute to proper hormone production and regulation. Specifically, the Energetic Node 4 Bio-Info-field is designed to influence the dynamics of the three cavities and their integration and to reestablish their integrity as repositories of Source energy and dynamos for the body's use of this energy.

By increasing the efficiency of how Source energy is stored and used, the Energetic Node 4 Bio-Info-field may bioenergetically address issues of fatigue and energy depletion. It also correlates bioenergetically with detoxification of the organs within the three cavities and the restoration of proper function, especially to the pituitary, thalamus, thymus, heart, suprarenal glands, digestive glands, and gonads. The thyroid and parathyroid, which lie at the border of the cranial and thoracic cavities, also benefit from the restoration of the proper functioning of these two cavities.

As you might imagine, mental function is deeply connected to how efficiently your body stores and uses Source energy. Therefore, the Energetic Node 4 Bio-Info-field correlates bioenergetically with increasing mental agility and clarity of thought as well as aiding with better sleep. It also appears to correlate bioenergetically with the lifting of depression.

If you remember back to the Elemental Field information, mental and emotional function, and even consciousness itself, may be dependent on the unobstructed movement of energy and information along the Field structures. Bioenergetically, depression may be viewed as stuck energy and/or information, and the Energetic Node 4 Bio-Info-field appears to aid in getting them moving again. This Node also bioenergetically correlates to conditions ranging from obesity (not linked to overeating), vessel-specific blood pressure problems, and sluggish mental processing.

Interestingly, we can do a lot ourselves to aid our body's absorption and use of Source energy. It's as easy as breathing deeply. Most of us tend to be shallow breathers, not often fully expanding our lungs and diaphragm as we breathe. If you practice yoga or the martial arts, you know how important proper breathing is to overall physical strength and agility. It may be just as important to your health at a bioenergetic level. On the negative side, one interesting hint from ERIC research is that spending a lot of time in air-conditioning may deplete your Source energy.

### **27.5 Energetic Node 5: Autoimmune**

Contrary to its name, this Node is not correlated only to autoimmune disorders, for it also has a bioenergetic antiallergy effect, especially when used with Thymus (neck) Field in the same protocol. Energetic Node 5, as a bioenergetic pathway, generally correlates to the cell-destroying mechanisms of your immune system, mechanisms that when they go awry—mistakenly attacking healthy cells—can have wide-ranging negative effects on the body, particularly in your joints.

ERIC matching tests show that this Node is correlated bioenergetically to allergic conditions of all types, including lupus (which is normally thought of as only an autoimmune disease), urticaria (hives), colitis, soft-tissue rheumatism, and asthma, among other things. However, the Energetic Node 5 Bio-Info-field does not appear to have a clear bioenergetic link to arthritis. Although arthritis may have an autoimmune component to it, ERIC research shows that is far from the whole bioenergetic story.

We have hints that an important contributory factor may be a malfunction in how the body uses calcium and regulates carbohydrates. Simply put, cells are not using energy correctly, particularly in the joint capsules. Inflammation results, and over time cartilage and tissue begin to break down. Hence, the Cell Field Bio-Info-field and to some extent also the Source field Bio-Info-fields are primary correctors for the bioenergetic links to arthritic conditions, although the Energetic Node 6 Bio-Info-field, described in the following section, may prove beneficial as well.

Additional ERIC research suggests that many childhood disorders may have bioenergetic ties to inflammatory responses provoked by viral infections or even live inoculations. There are several Field Bio-Info-fields that bioenergetically correlated to these types of problems more directly, provided the ERIC scan shows them as distorted, so the Energy Node 5 Bio-Info-field, in almost all cases, is better used as a fallback if relief is not achieved using other Bio-Info-fields.

### **27.6 Energetic Node 6: Circulation/Lipids**

Energetic Node 6 correlates to specific arteries that are prone to narrowing from fat deposits or the buildup of calcium plaque. These include many of the major coronary arteries (especially the left pulmonary artery), neural and cerebral arteries, and the penile artery. ERIC research suggests that not all arteries are the same bioenergetically, and this Node links to those that develop in the early stages of embryological development.

It is interesting to note that ERIC matching tests reveal that Energetic Node 6 does not link to cholesterol in terms of the “good” and “bad” fats in the bloodstream. Further research needs to be conducted, but in this regard ERIC’s understanding of bioenergetic physiology is at odds with the widely accepted conventional view that cholesterol levels play a major contributory role in narrowing of the arteries.

Bioenergetically, Energetic Node 6 correlates to blood flow, and the related Bio-Info-field may help in this regard. In addition, this Node, as a communication pathway, links to the tissue of ligaments, tendons, and cartilage, so it might be implicated bioenergetically in arthritis and other diseases of these tissues. It also correlates to a host of anti-inflammatory hormones. For these reasons (increased blood flow and ant-inflammation) Energetic Node 6 might correlated to the alleviation of the pain associated with arthritis, but it is not considered a bioenergetic corrector in its own right for this condition.

### **27.7 Energetic Node 7: Muscles/Enzymes**

Energetic Node 7 correlates primarily to striated muscles, fascia, and triglycerides. The bulk of body tissue is in the musculoskeletal system, which is a major repository for environmental toxins. We have already mentioned that muscles, from a bioenergetic perspective, can store memories such as physical or emotional shocks and traumas. So, this Node serves bioenergetically as a major unblocker on many levels for the entire musculoskeletal system, especially concerning muscle metabolism and excretion capabilities.

Metabolic errors also can affect muscles, and ERIC matching tests show that some hormones and neurotransmitters—including but not limited to gamma-aminobutyric acid (GABA), serotonin, dopamine, norepinephrine, and melatonin—have strong bioenergetic connections to muscles. Triglycerides have a bioenergetic link through the heart’s ability to imprint

information via the lipids into the blood. Our research also has indicated that Energetic Node 7 correlates to enzyme production and use, which bioenergetically may play a role in Alzheimer disease and conditions related to premature aging.

This Node bioenergetically links to particular types of physical symptoms and conditions such as myasthenia gravis, muscular dystrophy, and other muscle-wasting diseases as well as muscular fibrosis. Many of the Bio-Info-fields that are combined to make the Energetic Node 7 Bio-Info-field have influences on the central nervous system and so this Bio-Info-field may help bioenergetically address problems with sleep or depression, lessen pain sensitivity, and increase feelings of relaxation and calm.

### **27.8 Energetic Node 8: Chill**

This Node's name says it all—not in relation to temperature but to emotions. Energetic Node 8 deals with what is called “emotional tangles.” Emotions form a powerful communication network that reaches throughout your physical body, imprinting either helpful or harmful information and energies into your body.

Just as a positive attitude and a sense of hopefulness can aid your recovery from illness, a pessimistic attitude can hinder it. However, the connections go much deeper than that, for all your emotions, both conscious and unconscious, have an effect on your body.

Energetic Node 8 bioenergetically connects with the ways that your emotions block information and energy flow in your body. The related Bio-Info-field is designed to aid, on a bioenergetic level, the way in which your cerebral cortex processes thoughts and emotions, and it bioenergetically assists in clearing blockages of energy and information that result from a sensory or mental overload.

It has a particularly noticeable effect on aiding sleep because one of the most common cause of insomnia is excessive thought—the endless review of past problems, the ceaseless parade of concerns, and the projecting forward to the future.

The ERIC Bio-Info-fields are not chemical in nature, so the Energetic Node 8 Bio-Info-field's relaxing effect occurs at the bioenergetic level only. This Bio-Info-field also is not used to relieve physical stress. Its focus is almost entirely on your emotional state, helping to settle out-of-control emotions. Interestingly, this Bio-Info-field appears to have the ancillary bioenergetic effect of helping with learning difficulties. Because of its calming effect, it is best taken in the evening, and many people have reported having meaningful dreams or clear insights while using it.

These reports make sense in ERIC research that suggest this Bio-Info-field can bioenergetically stimulate the recovery of conscious awareness of emotional problems and concerns, bringing them into the light of knowing if you are ready, so it may stimulate self-knowledge and awareness. Overall, it has been called the “feel-good” Bio-Info-field.

### **27.9 Energetic Node 9: Shock—Audio Processing**

This Node correlates with clearing bioenergetic blocks primarily caused by shock and trauma, which get imprinted into your body via the energetic memory systems that affect your cells, muscles, and nerves. Such shock can upset low-frequency waves, which power the

Quantum Fields. When the Fields are distorted, overall function decrease as your ability to store and use Source energy lessens.

Bioenergetics, at least in the way ERIC is able to explore it using the matching tests, reveals that shocks that are perceived primarily through auditory perceptual routed have specific ramifications for the body, so they were able to develop the Energetic Node 9 Bio-Info-field to help address these auditory shock issues. However, this Bio-Info-field does not address functional or structural auditory difficulties.

Sometimes the only aspect of a shock or trauma that you may register is the sound associated with it. For example, soldiers suffering from post-traumatic stress syndrome may dive for cover at the sound of a backfiring truck even decades after they have left the war zone. Bioenergetically and emotionally, they still fear for their life, and a specific type of sound is a trigger for that fear response.

The same type of reaction can be seen in adults who were subject to protracted and severe verbal abuse as children. The sound of a raised voice from an authority figure can set them on edge. All that many of us can remember from a bad car accident is the crashing sound. Each of these examples explains what we mean by auditory shock.

The Energetic Node 9 Bio-Info-field is designed to address bioenergetic distortions at the level of the temporal lobe, which is the primary area of the brain that processes sound, and specific sound and speech recognition centers of the brain, such as Broca's area.

### **27.10 Energetic Node 10: Stress—Video Processing**

This Node deals with shock and trauma generally associated with sight and the visual processing of information. Just as you might retain only the sounds associated with an extremely stressful event, such as a car accident, you also might focus on its visual aspects—the shock of the car veering into your path or your body being flung forward toward the windshield or dashboard.

The Energetic Node 10 Bio-Info-field is designed to deal with shock-induced bioenergetic problems that may result from visual trauma and with the often unconscious emotions that accompany the event. It does not deal with anatomical visual problems, but with the bioenergetic function of shock as related to the visual cortex, thalamus, and motor neurons (but not the motor cortex). It also correlates with the optical interpretation center of the cortex. Both auditory and visual shock can, if severe enough, badly disrupt the big body-wave, eventually leading to field collapse in the most extreme cases.

### **27.11 Energetic Node 11: Male Energy**

Despite its name, this Node is not about male sexual potency in the functional sense. Instead, it addresses the emotional issues that surround being male and all the cultural, emotional, and psychological baggage you may carry because of it. It is directed toward maleness not only in terms of gender but also as a foundation for identity.

The Energetic Node 11 Bio-Info-field's effect is positive in nature, bioenergetically reinforcing what the researcher calls "male charisma." It works bioenergetically at a mostly

emotional lever, helping to clear blocks to such feelings as confidence, willpower, social warmth, and well-being.

This Bio-Info-field does not directly affect the physical aspects of the endocrine glands but instead helps strengthen the communication link between these glands and Source Field. It also may bioenergetically stimulate circulation to the endocrine glands, but hormones are only part of the bioenergetic story of gender and identity.

### **27.12 Energetic Node 12: Female Energy**

This Node is the female counterpart to Energetic Node 11, Male Energy. Everything we have said about Energetic Node 11 Bio-Info-field's bioenergetic effects applies to this Bio-Info-field as well, only in terms of the female gender and social identity. However, the female field is more difficult to influence bioenergetically because it is made more complicated by the menstrual cycle and the complex hormonal cascade of events, at both the physical and bioenergetic levels, that females experience every month.

The Energetic Node 12 Bio-Info-field can have a regulating effect, at the bioenergetic level, on irregular or dysfunctional menstrual cycles but is not intended as a correction for those kinds of problems. Its bioenergetic correlation is not so much to the endocrine system as it is to increasing blood supply, and its focus is less about function than it is about facilitating the integration of mind and body.

Use of either the Male or Female Energetic Node Bio-Info-fields may stimulate physical and bioenergetic detoxification because the endocrine glands can store toxins and when these glands begin to work more effectively, they can more easily excrete those toxins. Tin and lead both are particularly deleterious to sexual function.

### **27.13 Energetic Node 13: C-O-H Related to Physical, Mental, and Emotional**

Carbon, oxygen, and hydrogen are staple elements related to aspects of your body's chemical physiology, so they are the focus of Energetic Node 13. Their respective roles in carbohydrate and sugar metabolism, which regulate your body's energy use, are among their most important functions to the relative state of your health. They also affect the way the body uses fats, so Energetic Node 13 correlates bioenergetically with the production of energy generally and is intimately tied to the citric acid cycle (Krebs cycle), which plays a role in many diseases.

This Node correlates to many crucial elements and compounds related to the body's energy-production process. For example, it talks to lipotropin, a hormone that promotes the body's use of fats; ATP, a nucleotide that is a major player in how cells get and use chemical energy; thyroxin, an essential mineral in thyroid hormones; and pyruvic acid, a compound important in the metabolism of carbohydrates, proteins, and fats.

Energetic Node 13 also affects the body's ability, on a bioenergetic level, to excrete toxins, which aids cellular metabolism. For this reason, it correlates to the liver and pancreas, which play dominant roles not only in the elimination of toxins but also in sugar and fat metabolism. Additionally, it connects via the body-field to lactic acid production in muscles and calcium metabolism, especially in relation to the creation of stones, such as kidney stones.

ERIC matching tests have revealed that osteoarthritis may be a consequence of impaired carbohydrate metabolism at the bioenergetic level. Practitioners of allopathic medicine admit that the causes of arthritis are unknown and speculate that it may have a hereditary genetic factor or be the result of an injury or disease processes that eventually cause the cartilage in joints to deteriorate. They identify aging as a major factor because the joints wear over time, especially in people who are obese.

However, ERIC has gleaned clues from our own testing procedures that arthritis may occur as a bioenergetic consequence of compromised carbohydrate metabolism. Although ERIC recognizes that the body-field is a complex, interconnected web of energy and information and that chronic diseases such as arthritis are bound to involve multiple processes, our research provides a clue that is worth exploring on many fronts because arthritis is so ubiquitous a problem among the general population.

Because of its bioenergetic effect on sugar metabolism, the Energetic Node 13 Bio-Info-field should be used cautiously by anyone with blood sugar instability or known pancreas or liver disease. As we have explained previously, even though we are dealing only with the energy and information of the body-field, ERIC practitioners rarely if ever seek to stimulate a diseased organ directly.

The ERIC protocol calls for following the sequence of the body-field according to the scan results but allows deviations in the case of stressed organs (as identified by an allopathic or other diagnosis), which should not be further stimulated even at a bioenergetic level. The advantage of the bioenergetic approach to health is that your ERIC practitioner can support related organs, which through their interconnections with the stressed organ can help restore proper function to that organ. When used appropriately, the Energetic Node 13 Bio-Info-field can influence proper cell metabolism throughout the body, and many types of problems can be alleviated naturally as a consequence.

#### **27.14 Energetic Node 14: Cell Metabolism**

Although this Node is called Cell Metabolism, its primary bioenergetic effect is on general cell detoxification. From a bioenergetic perspective, and from an allopathic one as well, most disease results from cell function gone wrong. Almost every pharmaceutical is directed at the cell. Because cell function is so complex, it is difficult, if not impossible, to target only one aspect of cells, which is why many drugs have a plethora of side effects. The Energetic Node 14 Bio-Info-field is designed to help cells excrete or resist the effects of environmental toxins bioenergetically so that they work more effectively and efficiently.

This Node, then, is energetically connected to a wide range of detrimental effects from a variety of environmental toxins, including but not limited to those commonly found in dyes, car exhaust, fungicides, some pesticides, and the like. Specific compounds it bioenergetically correlates to include PCPs and PCBs (polychlorinated biphenyls), vinyl acetates and chlorides, dioxins, methyl mercury and methyl tin, and nitrates. It also may address field damage caused by chronic exposure to artificially created electromagnetic fields (e-smog).

Any detoxification process is going to be long term because as creatures of technologically advanced societies we have extreme difficulty controlling our exposure to environmental toxins and electromagnetic pollution.

### **27.15 Energetic Node 15: Heavy Metals**

As with Energetic Node 14, this Node correlates bioenergetically to detoxification. Heavy metals present a special problem for most of us because we live in highly industrialized areas, where the toxin load is high. The Energetic Node 15 Bio-Info-field provides body-field correction for cellular metabolism, and your entire physiology in general, from the bioenergetic effects of heavy metals, especially the residue of lead, mercury, and cadmium salts in your circulatory system, nervous system, and body organs.

As with any detoxification involving environmental toxins, the process can take many months and will likely have to be periodically addressed over the long term because it is next to impossible to limit your exposure.

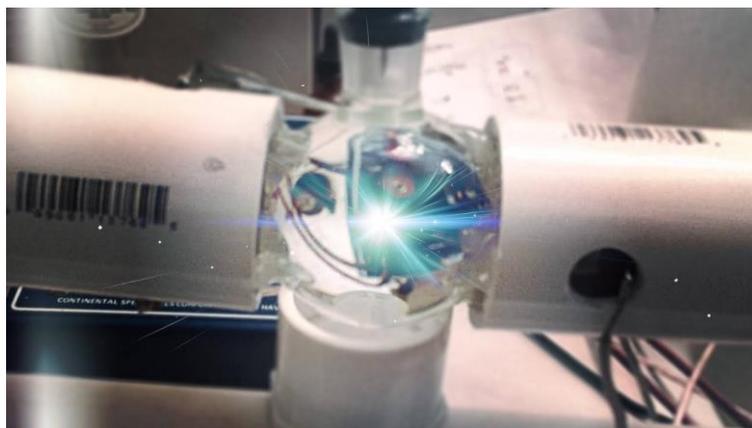
Therefore, we can begin to seek an even deeper understanding of our bodies and our health. We are motivated to find the mechanisms, processes, rules, and relationships that define and determine our state of being.

As molecules give way to atoms that dissolve into subatomic particles, so that our bodies are governed not only by the laws of everyday chemistry but also by the paradoxical principles of quantum electrodynamics.

When a Photon escapes the magnetic field of the living cell it carries with it its source of electromagnetic radiation revealing its power, color and density.

### **28. Sonoluminescence**

Sonoluminescence is a phenomenon that occurs when a small gas bubble is acoustically suspended and periodically driven in a liquid solution at ultrasonic frequencies, resulting in bubble collapse, cavitation, and light emission.



### **29. Developmental Bio-photonics**

During the developmental stages of the fetus it gives off weak sources of light revealing the coherent states of matter. Any error in development will show up as a change in the frequencies of light.

### 30. Quantized Electromagnetic Field

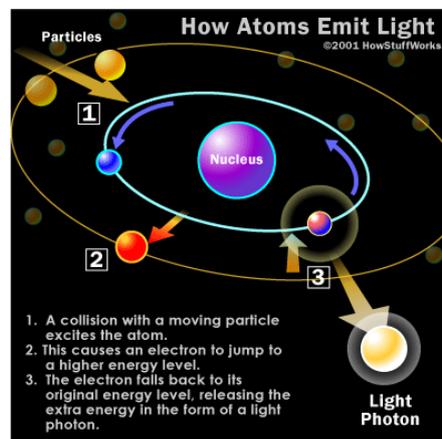
A quick review of classical electromagnetism reveals the photon as the quantum of the electromagnetic field.

### 31. Photon Emissions from biological systems

Since photon emissions from living organisms is extremely weak (the photon flux is the order of less than  $10^{-15}$  in comparison with a normal light source) it is therefore the need for special measuring equipment and software to perform detection and spectral analysis to create a two-dimensional image.

Light from cells is coherent, in differing from living and non-living systems.

Dying organisms lose coherence in their light patterns due to the malfunction of their bio-transmitters.



### 32. Thermodynamics of the living State

All living things radiate heat, the functions of the cell act as miniature fusion reactors that are self-regulating due to intercellular communications. Cellular movement produces heat and light, oxidative process radiate light at the frequencies of that reaction.

Thermodynamic equilibrium and its photon emission response under a steady state, when perturbed by stress these states change.

### 33. Photobiology and Bio-photonics

#### Interacting with the source

An alternative but effective method of research in biophoton is based on the use of a highly sensitive, low-noise, CCD camera, normally used in astrophysics.

Photobiology and bioluminescence (also low-level biological luminescence) may be considered as the photon's involvement in life, photoreaction, chemiexcitation and emission processes, respectively. The radiation of photons as conveyers or messengers of information

as to how the body is functioning, biophotons their possible information/triggering role in the regulation in real time of the life of the body as displayed in bio-photonics.

Photon comes from the Greek word "ph s", meaning light. In quantum physics it is the term used to designate a quantum of electromagnetic radiation. In turn, biophoton refers to photons emitted by biological systems. Though in order to understand biophotonic research clearly, certain concepts must be defined.

The emission of photons by living systems is very well established in the scientific community. It can be observed, for instance, in the area of bioluminescence research based on luciferin-luciferase reactions.

However, researchers of biophotons claim that "low intensity photon emission between 200nm and 800nm detected with a photon counting device, has been found in almost every species of biological tissues examined" (Ibid., 1994). The light given off by the organism, in the sense of biophoton emission, is not caused by "chlorophyll, thermal influence, 'spontaneous chemiluminescence', or some other 'contamination effect' (Bischof, 2005) as it was once thought.

### **34. Photon Cycling in biosystems**

Light since the time of genesis has been always intrinsically related to the creative power that gives birth to life. Indeed, the cell division, fertilization of the egg and the death of the cell. Light is considered as the unitary purposive principle which engenders the universe and that has the nature of first cause.

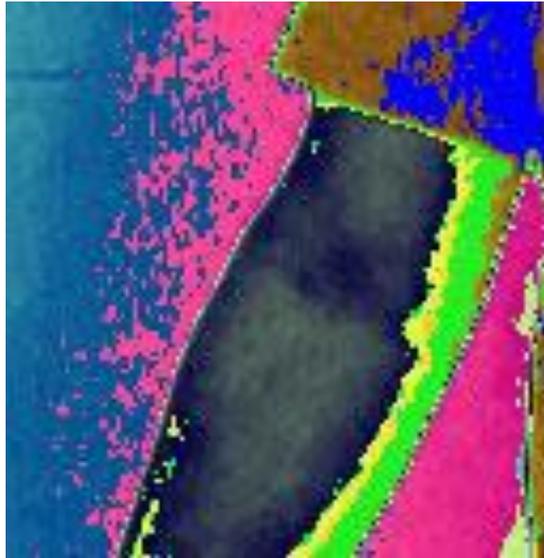
It is an ultimate source of energy.

### **35. Mitogenic Radiation**

Mitogenetic radiation (MGR), discovered by A. G. Gurwitsch, gave birth to the field of biophotonics that is now energetically developing.

MGR emissions from aqueous solutions of simple amino acids is correlated with spontaneous polypeptide synthesis, that substances possessing specific enzymatic activities may self-produce in such solutions.

All these processes depend on oxygen (and in some cases on illumination with visible light), spectral analysis helped to show that branched chain reactions with the participation of reactive oxygen species and other free radicals serve as energy sources for the emergence of high energy mitogenetic photons.



(Scan showing bleeding and blood clots under the skin from a damaged vein.)

### **36. Cell Communication**

Photons participate in many atomic and molecular interactions and changes. Photons in the visible range are coupled with radical reactions while photons in the UV are linked with the DNA as the source.

Bio-photons originate from coherent fields, their emissions display a rather reliable and sensitive fingerprint of a living system, the non-invasive measurements of the spectral intensities provide a powerful tool for identifying biological systems as well as for characterizing their response to external influences.

Basic biological phenomenon concerns cell communications by biophotons. The fundamental experiment in general demonstrates the communication between cells and cell populations by coherent photons.

Photon signals needed for fulfilling thermodynamic requirements of energy conversation and information degradation in biological processes. Photon signals associated with the quantum aspects of living systems.

### **37. The Invisible Vitamins & Minerals**

Today we know a lot about the physical vitamins and minerals, but we know nothing about the invisible vitamins and minerals.

What are the invisible vitamins and minerals?

The invisible vitamins and minerals are precursors to the physical, they are the catalyst or archetypes to the formation of the physical that are driven by thoughts, emotions, our environment, or physical events (natural and manmade disasters, earthquakes, floods, fires, famines, wars etc.).

The invisible vitamins and minerals can be agonists or antagonist that change the function of our food and water that we eat and drink. We know emotional factors can affect our health, but until now we did not know how they influenced changes to our nutritional requirements.

All things need a design or concept before they are created, this first must complete a vision of its reality, use and lifespan. Everything that was created was first imagined, but what holds that imagination together?

Our body is like all these created things, we can think ourselves sick, or heal ourselves, of it is our desire for one thing or another that drives the chemical changes taking place in our body, when these changes get out of order disease starts to appear.

All food will be of no good if the mind is first stressed by our thoughts and feeling either internal or external. Fixing our situations is a precursor to altering our health, we can do this by becoming consciously aware of ourselves.

The Aromatic Amino Acids like tryptophan, tyrosine, and phenylalanine are responsible for the ultraviolet absorption of most proteins which have absorption maxima ~ 280 nm. Tryptophan has a greater absorption in this region than the other two aromatic amino acids.

## CHAPTER 4

### A National System of ERIC Energy Device

#### 1. Innovation and National Systems of Innovation

Innovation is the application in practice of creative new ideas, which in many cases involves the introduction of inventions into the marketplace. In contrast, creativity is the generating and articulating of new ideas.

It follows that people can be creative without being innovative. They may have ideas or produce inventions but may not try to win broad acceptance for them, put them to use, or exploit them by turning their ideas into products and services that other people will buy or use.

Similarly, people can be innovative without being creative. For example, if they apply or implement ideas or inventions that were made elsewhere, they are being innovative, even though the inventions or creative ideas were not their own.

Some innovations are truly revolutionary, while most represent modest improvements in the way we do things. Competitive companies, for example, are continually introducing incremental innovations to improve the products they sell or the processes they use in production. Only rarely will they introduce something radically new into the market place.

The aim of this White Paper is to try to create the conditions that will support both creativity and innovativeness throughout our society. For the purpose of this Paper, such an environment would consist of all individuals and organizations involved in creating and using a knowledge base in order to build a better ERIC Energy Device and would thus constitute a national system of innovation.

Such a system, in its broadest conception, is the means through which a person seeks to create, acquire, diffuse and put into practice new knowledge that will help that other people achieve their individual and collective goals.

#### 2. Research for Innovation

With the realization that the ancient languages in their use of personification of healing frequencies represented in archetypal forms, symbols and myths and legends, have left a very rich history to research to compile their true meanings. With the current understanding many of the ancient secrets are being made known to the benefit of society.

It is vital that continuous research is carried out in other ancient languages to see if they contain the same secrets as the ancient Egyptian hieroglyphs.

## **CHAPTER 5**

### **What We Propose**

#### **Specific Requested Action**

ERIC Energy Device proposes to introduce into the healing society with the lost arts of the Egyptians as understood through the studies of Dr Scott Peterson, this information has successfully passed clinical trials and has gained acceptance by government and educational institutions.

ERIC Energy Device is proposing to undertake further research, in the ancient languages in light of the current evidence that they may contain a greater knowledge than first thought.

ERIC Energy Device is intending to raise funds to further this research through sale of Biomedical equipment, software and complimentary medicines as developed from Dr Scott Peterson studies.

ERIC Energy Device proposes to link with current medical practices to form a complimentary medicine service when current practices fall short of diagnosing and healing.

## CHAPTER 6

### Initiatives in the White Paper

A Guide to the Initiatives in this White Paper

This chapter deals with the functions of ERIC Energy Device system of innovation as listed:

1. Regulatory Policy
2. Shared Functions
3. Performance Level Financing
4. Performance
5. Human Resource Development and Capacity Building
6. Science and Technology Infrastructure

#### 1. Regulatory Policy

ERIC Energy Device will maintain a strict regulatory policy when issuing certificates to ERIC Energy Device practitioners to make sure they are aware of their responsibilities and duties as a practitioner.

#### 2. Shared Functions

ERIC Energy Device realizes that some of its functions can be shared across other industries, with its ability to diagnose living disease it will also function as a forensic tool, search and rescue tool, and resource tool.

#### 3. Performance Level Financing

ERIC Energy Device will finance the operations of its practitioners to a certain level of their performance where they can become financially independent while maintain their current compliances.

#### 4. Performance

ERIC Energy Device performance is based on how well a practitioner can understand and reproduce the recommended diagnostic and healing functions contained within its operational procedures and manuals.

#### 5. Human Resource Development and Capacity Building

ERIC Energy Device requires that its practitioners acquire a thorough and comprehensive understanding in its principles and practices. ERIC Energy Device will conduct training events and seminars to keep it practitioners compliant with changes in government policy and procedures.

## 6. Science and Technology Infrastructure

ERIC Energy Device is based on the latest technology discovered through scientific research into ancient languages and technologies, with the understanding that a more advanced society lived before and was lost due to unknown reasons. There is still more technology and methods of its use to be revealed.

## **CHAPTER 7**

### **Institutional Uniqueness**

ERIC Energy Device being unique in its operation, since nothing in the world has any resemblance to this because it makes known the lost art of the Egyptians as revealed in their hieroglyphics.

ERIC Energy Device makes no claim on any modern method of healing, its origin comes from its comprehensive understanding of ancient myths and legends when they are understood as personifications of healing frequencies and how they are applied to diseases.

Current studies show that although a great deal of information is known of ancient cultures, languages and religions no key has been found until now to reveal their hidden secrets, ERIC Energy Device is the key.

### **Image Sensor Programming**

The sensor vendor should provide a programming interface and they generally provide a I2C or SPI (Serial Peripheral Interface) for this purpose. Thus, you can program it via one of these interfaces. This can be done by using both microcontroller or a FPGA (Field-Programmable Gate Array).

## CHAPTER 8

### The Significance of Emotion on Health

To appreciate the significance of emotions, just imagine life without them. Instead of daily highs and lows we all experience, life would be a great empty plain of existence with no significance.

Without question, the expression of emotions is a large part of being human.

We will describe the neural basis of emotions and the elements that make up each emotion.

#### 8.1 Serotonin

You probably already know that serotonin plays a role in sleep and in depression, but this inhibitory chemical also plays a major role in many of your body's essential functions, including appetite, arousal, and mood. Many antidepressants target serotonin receptors to improve your mood and lessen depressive symptoms.

Interestingly, most of your serotonin is stored in the intestine, and this chemical may play a role in digestive functioning as well.

#### 8.2 Dopamine

Dopamine controls many functions, including behavior, emotion, and cognition. This chemical also communicates with the front part of your brain, which is associated with pleasure and reward. On the positive side, it helps motivate you to work toward achieving a reward. However, many illegal drugs also target dopamine receptors, contributing to drug and alcohol addiction. Because dopamine is related to movement, low levels have also been linked to Parkinson's disease.

#### 8.3 Glutamate

This is the most common excitatory neurotransmitter, found throughout your brain and spinal cord. Glutamate has many essential functions, including early brain development, cognition, learning, and memory.

#### 8.4 Norepinephrine

This chemical, also called noradrenaline, can sometimes act as a hormone as well. Its primary role is part of your body's stress response. It works with the hormone adrenaline to create the "fight-or-flight" feeling. Norepinephrine may also be used as a drug to raise or maintain blood pressure in certain illnesses.

Some of these neurotransmitters, such as norepinephrine, are also hormones or have some effect in releasing hormones in the body. Adrenaline, cortisol, melatonin, oxytocin and other hormones can affect your mood or even influence the health of your brain.

Cortisol is a hormone released when you're stressed. It's helpful at times, but too much of it for too long can cause memory loss as you age.

Imbalances in neurotransmitters are present in many conditions, including schizophrenia, depression, bipolar disorder, autism, and Parkinson's disease. Some medications target these receptors to allow your body to receive more or less of certain chemicals, while some drugs act similar to these chemicals to invoke similar responses in your body.

Maintaining a balance in these brain chemicals and hormones is key to feeling a balanced mood. You can help maintain this health to some extent through a balanced diet, limited stress, and exercise.

The 27 different emotions include:

- |                           |                     |                   |
|---------------------------|---------------------|-------------------|
| 1. Admiration             | 10. Confusion       | 20. Joy           |
| 2. Adoration              | 11. Craving         | 21. Nostalgia     |
| 3. Aesthetic appreciation | 12. Disgust         | 22. Romance       |
| 4. Amusement              | 13. Empathetic pain | 23. Sadness       |
| 5. Anxiety                | 14. Entrancement    | 24. Satisfaction  |
| 6. Awe                    | 15. Envy            | 25. Sexual desire |
| 7. Awkwardness            | 16. Excitement      | 26. Sympathy      |
| 8. Boredom                | 17. Fear            | 27. Triumph       |
| 9. Calmness               | 18. Horror          |                   |
|                           | 19. Interest        |                   |

## What are the other theories of emotion?

### 8.5 Discrete emotion theory

This theory states that certain specific core emotions are biologically determined. These emotional responses are fundamentally the same for all individuals irrespective of ethnicity or cultural differences. Various parts of the brain can trigger different emotions. For example, the amygdala is the centre of fear and maternal bonding. The amygdala senses fear resulting in certain physical actions and emotions. Research has shown that deaf and blind individuals also show the typical facial expressions for these same core emotions.

The 12 emotions according to the discrete emotion theory include:

- |             |            |
|-------------|------------|
| 1. Interest | 4. Sadness |
| 2. Joy      | 5. Anger   |
| 3. Surprise | 6. Disgust |

- |                   |             |
|-------------------|-------------|
| 7. Contempt       | 10. Shame   |
| 8. Self-hostility | 11. Shyness |
| 9. Fear           | 12. Guilt   |

### **Plutchik's theory**

This theory claims that there are eight basic emotions:

- |            |                 |
|------------|-----------------|
| 1. Fear    | 5. Surprise     |
| 2. Sadness | 6. Disgust      |
| 3. Anger   | 7. Anticipation |
| 4. Joy     | 8. Trust        |

### **Aristotle's theory**

According to this theory, there are 9 emotions, which include:

- |               |  |
|---------------|--|
| 1. Anger      | 6. Pity  |
| 2. Friendship | 7. Indignation (feeling of anger when something is unfair) |
| 3. Fear       | 8. Envy  |
| 4. Shame      | 9. Love  |
| 5. Kindness   |  |

### **Charles Darwin theory**

The Expressions of the Emotions in Man and Animals by Charles Darwin claims there are around 34 emotions, which are still used as a source.

- |                    |                 |              |
|--------------------|-----------------|--------------|
| 1. Joy             | 7. High spirits | 13. Anger    |
| 2. Love            | 8. Low spirits  | 14. Hatred   |
| 3. Devotion        | 9. Anxiety      | 15. Disdain  |
| 4. Tender feelings | 10. Grief       | 16. Contempt |
| 5. Suffering       | 11. Dejection   | 17. Disgust  |
| 6. Weeping         | 12. Despair     | 18. Guilt    |

- |                  |                    |                   |
|------------------|--------------------|-------------------|
| 19. Pride        | 25. Fear           | 31. Mediation     |
| 20. Helplessness | 26. Self-attention | 32. Ill-temper    |
| 21. Patience     | 27. Shyness        | 33. Sulkiness     |
| 22. Affirmation  | 28. Modesty        | 34. Determination |
| 23. Negation     | 29. Blushing       |                   |
| 24. Surprise     | 30. Reflection     |                   |

Emotions are very complex and have different meanings to different people, but essentially, emotions are a conscious experience that are categorized by states of mind, external and internal reactions, and expressions.

There are many different emotions, including affection, anger, angst, anguish, annoyance, anxiety, apathy, arousal, awe, boredom, confidence, contempt, contentment, courage, curiosity, depression, desire, despair, disappointment, disgust, distrust, dread, ecstasy, embarrassment, envy, euphoria, excitement, fear, frustration, gratitude, grief, guilt, happiness, hatred, hope, horror, hostility, hurt, hysteria, indifference, interest, jealousy, joy, loathing, loneliness, love, lust, outrage, panic, passion, pity, pleasure, pride, rage, regret, relief, remorse, sadness, satisfaction, self-confidence, shame, shock, shyness, sorrow, suffering, surprise, terror, trust, wonder, worry, zeal, and zest.

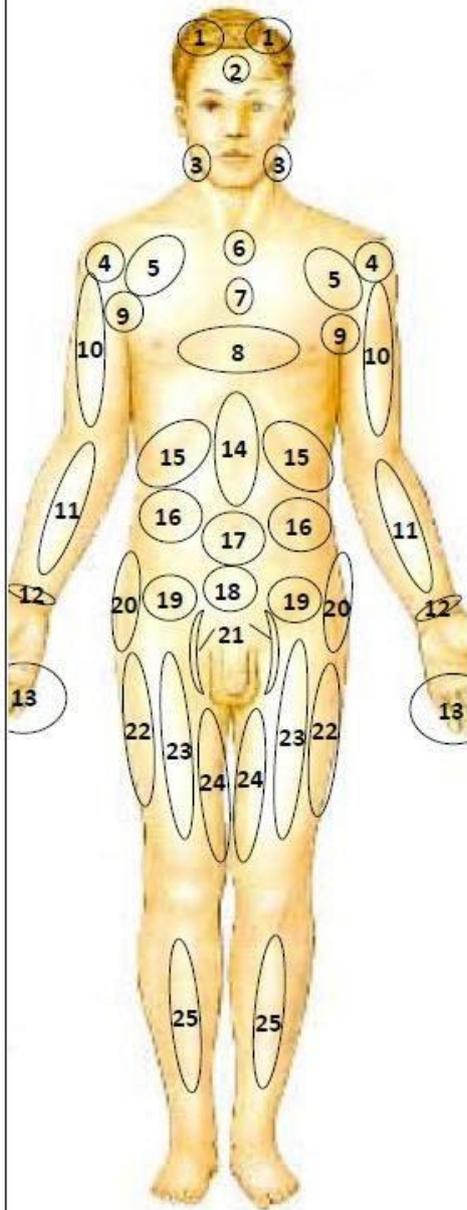
Emotions are not really made out of anything, but how we feel emotions can be described. Emotions come from the arousal of the nervous system. Millions of chemical reactions take place in the brain at any given time. Chemical reactions occur because of synapses. Synapses are parts of the nervous system, and it is through these that neurons are able to transmit messages using neurotransmitters.

Emotions are typically measured in physiological responses, such as a pounding heart, sweating, blood rushing to the face, and the release of adrenaline. Expression is also a major part of emotions. Expression is associated with parts of the nervous system such as the motor cortex, limbic system, and the brain stem. The parts of the nervous system that affect emotion the most are the frontal lobes and the amygdala. The frontal cortex is usually associated with feelings of happiness and pleasure. The amygdala is usually associated with feelings of anger, fear, and sadness.

We experience a variety of emotions throughout the day. Mostly, these emotions are transient in nature. But, when these emotions become intensely negative or are unremitting they can dramatically affect our biochemistry and behavior. Certain brain areas and the presence of levels of different chemicals in your brain controls emotions. For example, if we are in danger, our brain releases stress hormones that can initiate fight or flight reactions by flooding certain regions with the neurotransmitter epinephrine (adrenaline). When the danger subsides, our brain inhibits the stress response by sending out a calming signal in the form of chemicals.

**Right Side**

- 1 Busy mind focused on thoughts**
- 2 Opening to all perceptions**
- 3 Judgements held rigidly**
- 4 Defensive when given advice**
- 5 Wanting or undeserving of nurture by Dad/men**
- 6 Holding self back/can't express your love**
- 7 Hopelessness**
- 8 Heart shielded from Love/Love is painful**
- 9 Pick people who can't nurture**
- 10 Controlling others**
- 11 Over extending with thoughts/concerns**
- 12 Early childhood trauma with males**
- 13 Holding on to the past**
- 14 Letting go of control**
- 15 Anxiety**
- 16 Suppressed rage**
- 17 Can't process negative emotions/ shutting down**
- 18 Detached/undigested emotions/ shutting down**
- 19 Ideas about being a man/woman**
- 20 Envy and feelings of violation**
- 21 Pleasure is sinful /Sexual Trauma**
- 22 Impatience**
- 23 Fear of going forward with new ideas**
- 24 Fear of intimacy**
- 25 Fear of stepping into your path of power**



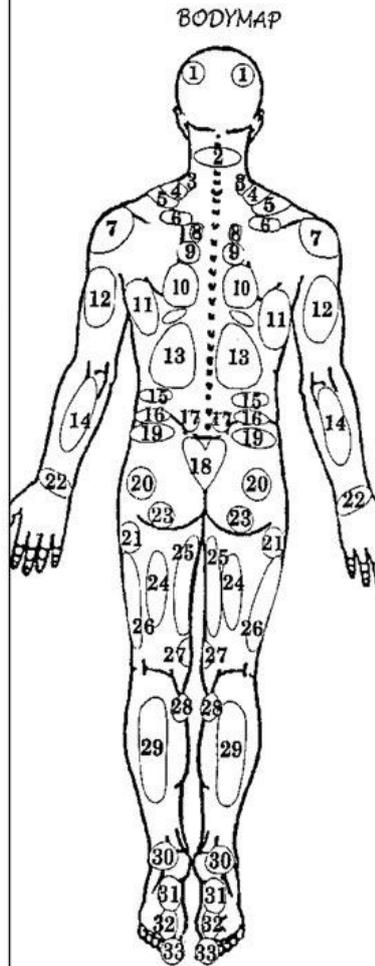
**Left Side**

- 1 Busy mind focused on feelings**
- 2 Opening to all perceptions**
- 3 Denial of self**
- 4 Undeserving, not acknowledged**
- 5 Wanting or undeserving of nurture by mom/women**
- 6 Holding self back/can't express your love**
- 7 Hopelessness**
- 8 Heart shielded from Love/Love is painful**
- 9 Betrayed by love or life**
- 10 Fear of receiving from others**
- 11 Overextending emotionally**
- 12 Early childhood trauma with females**
- 13 Holding on to the past**
- 14 Letting go of control**
- 15 Anxiety**
- 16 Sadness & bitterness**
- 17 Can't process negative emotions/ shutting down**
- 18 Detached/undigested emotions/ shutting down**
- 19 Feelings about being a man/woman**
- 20 Resentment and painful relationships**
- 21 Pubic bone -Pleasure is sinful /sexual trauma**
- 22 Frustration**
- 23 Fear of going forward with feelings**
- 24 Vulnerability**
- 25 Fear of others not accepting your power**

### LEFT SIDE

1. Negative thoughts about self
2. Separation from higher self.
- 3-5. Blame self, blamed by others, blaming others
6. Responding to blame
7. Controlled by others / pleasing others
8. Passive aggressive / judgemental towards self
9. Heart break
10. Everyone's a victim
11. Shame
12. Defenceless, helpless, fear of receiving
13. Want to be someone else
14. Overextending to prove good enough
15. Self-sabotage
16. Pissed off at self
17. I don't deserve to be happy
18. I'm not worthy of connecting to my Higher Self
19. Jealousy & envy
20. Anger at women, mother
21. Sadness & disappointment
22. Childhood trauma with women
23. Deep seated inner rage
24. Taking life too seriously
25. Vulnerability
26. Frustration
27. Fear of being persecuted for being who you are
28. Not liked by females
29. Women don't support you
30. Rigid
31. Think power is from controlling
32. Heart closed to love
33. Bitterness

### BACK OF BODY



### RIGHT SIDE

1. Negative thoughts about others
2. Separation from higher self.
- 3-5. Self guilt, made to feel guilty, see others as guilty
6. Responsible for everything that happens
7. Controlling others and self
8. Passive aggressive/ judgemental towards others
9. Fear the abuse of love
10. Fear of doing
11. Not good enough
12. Life is a struggle
13. Worry about everything
14. Overextending to prove you're good enough
15. Not enough abundance
16. Pissed off at Life
17. Can't be myself, must please others
18. I'm not worthy of connecting to my Higher Self
19. Resentment and vengeance
20. Anger at men
21. Compulsions and co-dependency
22. Childhood trauma with father
23. Deep seated outward rage
24. Powerless
25. Fear of intimacy
26. Impatience, not enough time to do it all
27. Fear of being persecuted by others
28. Not liked by men
29. Men don't support you
30. Rigidly holding on to old ideas
31. Think power comes from controlling things
32. Lost sweetness and joy of life
33. Bitterness

Hormones and chemicals keep the body working normally. Listed are a few of them and how their balance affects the way our moods, emotions and stresses are triggered.

Oestrogen – Female Reproduction and Positive Mood Hormone

## **8.6 Estradiol**

Oestrogen, the primary sex hormone of women is released from Ovaries. Effect of oestrogen on emotions is due to its ability to increase serotonin and endorphins; chemicals associated with positive mood states. There are three major endogenous oestrogens in females that have estrogenic hormonal activity: oestrone, estradiol and estriol. The oestrone steroid is the most potent and prevalent of these.

Oestrogen is also the hormone linked to mood disruptions in women, as seen in premenstrual syndrome, premenstrual dysphoric disorder and postpartum depression. Low oestrogen levels are associated with depression, anxiety and mood swings. However, high oestrogen levels can also wreak havoc with our system. So, a right biochemical balance is essential for the well-functioning steroid hormones system. Oestrogen helps in maintaining levels of serotonin, dopamine and norepinephrine by decreasing level of monoamine oxidase- the enzyme responsible for their deactivation.

## **8.7 Progesterone – Female Ovulation and Calming Hormone**

Progesterone is a female sex hormone produced by a temporary gland within the ovaries called corpus luteum and plays a key role in reproduction. Our brain is highly responsive to progesterone concentrations. Insomnia, anxiety and migraine are commonly seen with imbalance of oestrogen and progesterone. Progesterone counterbalances the action of oestrogen.

While oestrogen has an excitatory effect on brain, progesterone has calming effect. Studies have shown that progesterone shows anxiolytic (anti-anxiety) effects by activating gamma-aminobutyric acid (GABA) receptors in the brain. GABA is an inhibitory neurotransmitter that assists in relaxation and sleep.

## **Dopamine – Motivation and Reward Chemical**

Dopamine is a neurotransmitter, released by hypothalamus and is involved in focus, attention, memory, drive, muscle control and ovulation. It is associated with alertness, memory, cognition, happiness, and vigilance. Low levels of dopamine in the body can result in depression, impulsivity, mood swings, attention deficit, cognitive issues, compulsive behavior, cravings, apathy, and loss of satisfaction in life activities. It inhibits rational thinking as seen in schizophrenia.

Dopamine is important in brain's reward system and elevations in its level can lead to addictive behavior, suspicious personality, and possible paranoia.

There are no food sources that can provide dopamine directly, but consider taking foods rich in tyrosine and phenylalanine: the amino acids required to manufacture dopamine. Both of these amino acids are seen in protein rich foods like turkey, chicken, milk, cheese and eggs.

## **Serotonin - Happiness Hormone**

It regulates wide range of physiological and biological functions including mood, arousal, aggression, thinking abilities and memory. Right levels of serotonin are related to relaxation, mood upliftment. Excess of serotonin causes sedation and apathy, whereas deficiency of serotonin is associated with low mood, lack of will, poor appetite control, anxiety disorders, depression, social behavior, and sexual problems.

Conditions like anxiety disorders, depression, impulsivity, mood disorders, and disturbance in the sleep-wake cycle, obesity, eating disorders, and chronic pain are associated with disruptions in serotonin level. Meditation enhances serotonin production by inhibiting activity in the stress producing regions of the brain.

### **Acetylcholine – Information Processor Neurotransmitter**

Acetylcholine is the primary neurotransmitter released from nerve endings in both central and peripheral nervous system. It is in charge of muscle movement, alertness, concentration and memory. When levels are optimal, mood is elevated, mind is focused and intelligence increased. But with the low levels learning, recall, ability to think clearly can plummet. It also controls primitive drives and emotions like anger, fear, rage and aggression. With the imbalance in these neurotransmitters these emotions can affect both the individual and people around them.

Note that there is an inverse relationship between acetylcholine and serotonin (if one increases the quantity of other decreases). In lower amounts, Ach act as a stimulant for brain as it stimulates release of dopamine and serotonin. But too much of Ach inhibits brain and causes depression.

Foods rich in proteins like eggs, fish, dairy, soy products, poultry and foods containing lecithin significantly increase Ach. Supplements that significantly increase Ach concentration are- choline, lecithin, fish oil, flaxseed oil. Certain medications, chemicals, physical activity also increases Ach concentration.

### **8.8 Oxytocin – The Bonding Hormone**

Oxytocin is a hormone that is made in hypothalamus and released into the blood by pituitary gland. It plays a role in pro-social behavior, sexual reproduction, and during and after child birth. It evokes feelings of contentment, calmness, security and reductions in anxiety level. Oxytocin inhibits brain areas associated with behavioral control of fear and anxiety and protect against stress.

Nasally administered oxytocin has been reported to reduce fear, by inhibiting amygdala (brain area responsible for fear responses). It increases trust, empathy, and social interaction and is responsible for romantic attraction and subsequent monogamous pair bonding.

MDMA(3,4-Methylenedioxymethamphetamine), an addictive drug commonly called as ‘ecstasy’, increases feeling of love, empathy and connection by stimulating oxytocin activity in the brain.

Deficiency of oxytocin is involved in pathophysiology of depression and is related to poor communication, more anxiety and fear, disturbed sleep, sugar cravings and irritability.

### **8.9 GABA (gamma-aminobutyric acid) – Brain Activity Regulator**

GABA is an inhibitory neurotransmitter that is produced from glutamic acid (an amino acid) in the body. It slows down the activity of limbic system (the emotional alarm bell) reducing fear, anxiety and panic.

It acts like a natural tranquilizer and suppresses the hormone prolactin that stimulates night time incontinence.

Glutamic acid and vitamin B6 helps in manufacture of GABA. Zinc also enhances GABA release and inhibits glutamate release- an excitatory neurotransmitter.

Most of the patients with bipolar disorder have lower GABA level and this accounts for their restlessness and anxiety.

### **8.10 Testosterone – Primary Male Hormone**

Testosterone, a hormone produced by testes in men and to smaller extent by ovaries in women. It helps in muscle building, increasing libido, bone mass, muscle strength and energy level.

Testosterone also influences the parts of the brain responsible for regulating emotions. People with high endogenous testosterone levels, have significantly less activity in prefrontal brain regions and less communication between the prefrontal brain and the amygdala (the emotion control regions of the brain), ultimately increasing chances of aggressiveness, depression, impulsivity, anger, mood swings and lowering levels of empathy.

Too little testosterone can also have deleterious effect on male emotional vitality, leading to more passivity, depression, anger, irritability, feelings of insecurity, anxiety.

Norepinephrine and epinephrine – The Stress fighter Hormones

Norepinephrine is a catecholamine that acts as a neurotransmitter as well as a hormone. It is involved in arousal system of the brain and the sympathetic nervous system, where it is responsible for increase in blood pressure, breathing and respiratory rate. As a hormone, it is released by adrenal glands and is involved in the fight or flight response of the body to stress.

Epinephrine or adrenalin released by medulla of the adrenal glands, surges at the time of panic and emergency. It provokes stress response and brings out the arousal of extreme emotions like fear, anger or amusement.

Too little norepinephrine and epinephrine have been found to be associated with depression, while an excess has been seen in mood disorders like schizophrenia

### **8.11 Endorphins – Pain reliever**

#### **β– Endorphin**

Endorphins are neurotransmitters, chemicals that pass along signals from one neuron to the next. Neurotransmitters play a key role in the function of the central nervous system and can either prompt or suppress the further signaling of nearby neurons. The class of endorphins include three compounds –  $\alpha$  – endorphin,  $\beta$  – endorphin and  $\gamma$  – endorphin.

Endorphins are produced as a response to certain stimuli, especially stress, fear or pain. They originate in various parts of the body -- the pituitary gland, spinal cord and throughout other parts of brain and nervous system -- and interact mainly with receptors in cells found in regions of the brain responsible for blocking pain and controlling emotion.

Endorphins block pain, but there are also responsible for our feelings of pleasure. It's widely believed that these feelings of pleasure exist to let us know when we've had enough of a good thing and also to encourage us to go after that good thing in order to feel the associated pleasure. Maintaining a balance in these brain chemicals is a key for balanced emotions. One can help maintain emotional health to some extent by altering levels of these key chemicals through a balanced diet, limiting stress, constructive thoughts, yoga, pranayama and meditation.

The four major hormones which determine human's happiness, viz. Endorphins, Dopamine, Serotonin, and Oxytocin. Let us see what causes increase in the production of these hormones in the body.

When we exercise, the body releases Endorphins. This hormone helps the body cope with the pain of exercising. We then enjoy exercising because these Endorphins will make us happy. Laughter is another good way of generating Endorphins. We need to spend 30 minutes exercising every day, read or watch funny stuff to get our day's dose of Endorphins.

The second hormone Dopamine is released when we accomplish many little and big tasks. When we get appreciated for our work at the office or at home, we feel accomplished and good, that is because it releases Dopamine. This also explains why most housewives are unhappy since they rarely get acknowledged or appreciated for their work. Once, we join work, we buy a car, a house, the latest gadgets, a new house so forth. In each instance, it releases Dopamine and we become happy. This is another reason why we become happy when we shop?

The third hormone Serotonin is released when we act in a way that benefits others. When we transcend ourselves and give back to others or to nature or to the society, it releases Serotonin. Even, providing useful information on the internet like writing information blogs, answering people's questions on Quora or Facebook groups will generate Serotonin. That is because we will use our precious time to help other people via our answers or articles.

The final hormone Oxytocin, is released when we become close to other human beings. When we hug our friends or family Oxytocin is released. Similarly, when we shake hands or put our arms around someone's shoulders, various amounts of Oxytocin is released.

Now, we can understand why we need to hug a child who has a bad mood. So, it is simple, we have to exercise every day to get Endorphins, we have to accomplish little goals and get Dopamine, we need to be nice to others to get Serotonin and finally hug our kids, friends, and families to get Oxytocin and we will be happy. When we are happy, we can deal with our challenges and problems better.



Colors associated with emotion in combination with elemental equivalents

## CHAPTER 9

### Colours of the Elements

The following table shows colors assigned to each element by some popular software products.

Column **C** is the original assignment by Corey and Pauling, and

Column **K** is that of Koltun's patent.

Column **J** is the color scheme used by the molecular visualizer Jmol.

Column **R** is the scheme used by Rasmol; when two colors are shown, the second one is valid for versions 2.7.3 and later.

Column **P** consists of the colors in the PubChem database managed by the United States National Institute of Health.

All colors are approximate and may depend on the display hardware and viewing conditions.

A#	Sy	Element	Colors				
			C	K	J	R	P
1	H	hydrogen	□	□	□	□	■
1	<sup>2</sup> H (D)	deuterium			■		■
1	<sup>3</sup> H (T)	tritium			■		■
2	He	helium			■	■	■
3	Li	lithium			■	■	■
4	Be	beryllium			■	■	■
5	B	boron			■	■	■
6	C	carbon	■	■	■	■	■
6	<sup>13</sup> C	carbon-13			■		■
6	<sup>14</sup> C	carbon-14			■		■
7	N	nitrogen	■	■	■	■	■
7	<sup>15</sup> N	nitrogen-15			■		■
8	O	oxygen	■	■	■	■	■
9	F	fluorine		■	■	■	■
10	Ne	neon			■	■	■
11	Na	sodium			■	■	■
12	Mg	magnesium			■	■	■
13	Al	aluminium			■	■	■
14	Si	silicon			■	■	■

15	P	phosphorus					
16	S	sulfur					
17	Cl	chlorine					
18	Ar	argon					
19	K	potassium					
20	Ca	calcium					
21	Sc	scandium					
22	Ti	titanium					
23	V	vanadium					
24	Cr	chromium					
25	Mn	manganese					
26	Fe	iron					
27	Co	cobalt					
28	Ni	nickel					
29	Cu	copper					
30	Zn	zinc					
31	Ga	gallium					
32	Ge	germanium					
33	As	arsenic					
34	Se	selenium					
35	Br	bromine					
36	Kr	krypton					
37	Rb	rubidium					
38	Sr	strontium					
39	Y	yttrium					
40	Zr	zirconium					
41	Nb	niobium					
42	Mo	molybdenum					
43	Tc	technetium					
44	Ru	ruthenium					
45	Rh	rhodium					
46	Pd	palladium					
47	Ag	silver					
48	Cd	cadmium					
49	In	indium					
50	Sn	tin					
51	Sb	antimony					
52	Te	tellurium					
53	I	iodine					

54	Xe	xenon			
55	Cs	caesium			
56	Ba	barium			
57	La	lanthanum			
58	Ce	cerium			
59	Pr	praseodymium			
60	Nd	neodymium			
61	Pm	promethium			
62	Sm	samarium			
63	Eu	europium			
64	Gd	gadolinium			
65	Tb	terbium			
66	Dy	dysprosium			
67	Ho	holmium			
68	Er	erbium			
69	Tm	thulium			
70	Yb	ytterbium			
71	Lu	lutetium			
72	Hf	hafnium			
73	Ta	tantalum			
74	W	tungsten			
75	Re	rhenium			
76	Os	osmium			
77	Ir	iridium			
78	Pt	platinum			
79	Au	gold			
80	Hg	mercury			
81	Tl	thallium			
82	Pb	lead			
83	Bi	bismuth			
84	Po	polonium			
85	At	astatine			
86	Rn	radon			
87	Fr	francium			
88	Ra	radium			
89	Ac	actinium			
90	Th	thorium			
91	Pa	protactinium			
92	U	uranium			

93	Np	neptunium				■	■	■
94	Pu	plutonium				■	■	■
95	Am	americium				■	■	■
96	Cm	curium				■	■	■
97	Bk	berkelium				■	■	■
98	Cf	californium				■	■	■
99	Es	einsteinium				■	■	■
100	Fm	fermium				■	■	■
101	Md	mendelevium				■	■	■
102	No	nobelium				■	■	■
103	Lr	lawrencium				■	■	■
104	Rf	rutherfordium				■	■	■
105	Db	dubnium				■	■	■
106	Sg	seaborgium				■	■	■
107	Bh	bohrium				■	■	■
108	Hs	hassium				■	■	■
109	Mt	meitnerium				■	■	■
110	Ds	darmstadtium					■	■
111	Rg	roentgenium					■	■
112	Cn	copernicium					■	■
113	Nh	<u>nihonium</u>					■	
114	Fl	flerovium					■	
115	Mc	moscovium					■	
116	Lv	livermorium					■	
117	Ts	tennessine					■	
118	Og	oganesson					■	

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Lr	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og
Uue																	
	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr		

**Table shows elements represented by their colors.**

## CHAPTER 10

### Electron Values of Light Emitted by Elements

#### 1. Characteristic Atomic Frequency

Dr Scotts theory  $E=MR^c$  this means that the energy produced is equal to the mass of the object times its rate of change squared to the constant of time.

This formula contributes to the human bodies metabolism that maintains a constant temperature of 36.5 degrees celcius.

Recent work on the specific heat of chemical elements in the solid state has led to important conclusions regarding the values of the atomic heat at constant volume. The curves showing the variation of atomic heat with temperature are all of the same form, and any given curve can be transformed into any other merely by altering the scale on which the temperature is plotted. This implies that the atomic heat  $C_v$  is a function of the temperature  $T$ , dependent on a single parameter, the function being the same for different elements. Thus

$$C_v = F (\Theta /T),$$

where  $\Theta$  is a certain temperature characteristic of the element in question?

According to the quantum theory  $\Theta = \beta v = hv/k$ , where

$$\begin{aligned} v &= \text{is the characteristic atomic frequency,} \\ h &= \text{is Planck's constant, } 6.558 \times 10^{-27}, \\ k &= \text{is the gas constant for a single molecule, } 1.372 \times 10^{-16}. \end{aligned}$$

The work of Moseley\* has shown that the frequency of the X-radiation from an element depends upon the atomic number, that is the number which determines the position of the element in the periodic classification, and is probably equal to the number of positive unit charges in the core of the atom. Isotopic elements, which occupy the same place in the periodic table, have the same atomic number, and chemically are inseparable.

They must therefore have the same chemical constant or chemical affinity. But the affinity may be expressed in terms of the atomic heat at constant pressure  $C_p$ .- Hence  $C_p$  must be the same for isotopes. But  $C_v$  is a function of the frequency. It is, then, probably fair to assume with Lindemann † that the atomic frequencies are identical for isotopic elements.

This leads to the conclusion that the characteristic frequency is a function of the atomic number, and is independent of the atomic weight. It is the object of the present paper to show from the observed values that a simple relation holds between the atomic frequency  $v$  and the atomic number  $N$ .

#### 2. The Relation between $N$ and $v$ .

Determinations of the characteristic temperature, or of the atomic frequency, from the observed values of the specific heats, have been made by Nernst and Lindemann, E. H.

Griffiths\* and E. Griffiths,\*!\* and at very low temperatures by Keesom and Onnes.J Some further results have been collected for a number of elements in a paper by C. E. Blom,§ but to these smaller value must be attached.

Examination of the graph obtained by plotting  $\log v$  against  $\log N$  suggested that, for certain sets of elements, the product  $Nv$  had a constant value. Further investigation showed that the value of the product in some cases was a simple multiple of the value in other cases. Thus, the value of  $Nv \times 10^{-12}$  for Ag is 211.0, for Fe 209.0.

For Al the value is 107.5, which is nearly one-half the former number. For Pt we find 413.4, and for Ir 415.8, numbers which are nearly double those for Ag or Fe. Finally it was found that, in almost every case examined, the value of  $Nv$  could be expressed with an accuracy of 4 or 5 per cent, as a simple multiple of a certain definite frequency.

This is illustrated in Table I, which contains the results for those metals for which the atomic frequency has been determined with the greatest accuracy. All metals are included for which low temperature measurements are available, with the exception of sodium.

The product of the atomic number and the atomic frequency can be expressed in the form  $Nv = n\nu_A$ , where  $n$  is an integer, which may be termed the frequency number, and  $\nu_A$  is a definite frequency, for which the weighted mean value is  $21.3 \times 10^{12}$  sec.<sup>-1</sup>. The variations in the values of  $rA$  recorded in the Table are not greater than can be accounted for by experimental errors in the determination of the frequency  $v$ .

Commenting on the want of concordance in the values found by Nernst for the atomic heat of lead, Messrs. Griffiths remark: "Lead, from our own experience, appears to be a metal with which it is difficult to obtain concordant results."

Table 1.

Element	N	$Nv \times 10^{-12}$ .			
		Nernst	Griffiths	Keesom-Onnes	Mean
Al	13	5 x 21 .6	5 x 21 -4		5 x 21 .5
Fe	26		10 x 20 .9		10 x 20 .9
Cu	29	9 x 21 .3	9 x 21 .9	9 x 21 .2	9 x 21 .3
Zn	30	7 x 20 .6	7 x 20 .6		7 x 20 .6
Ag	47	10 x 21 .2	10 x 21 .1		10 x 21 .1
Cd	48		8 x 21 .1		8 x 21 .1
Hg	80	8 x 20 .2			8 x 20 .2
Pb	82	7 x 22 .2	7 x 22 .5	7 x 21 .6	7 x 22 .0
Weighted Mean		21 .1	21 .3	21 .4	21 .3

In discussing the experimental values recorded in the Table, attention must be directed to the temperature at which the observations have been made. There are several reasons why determinations at low temperatures are to be preferred. In the first place, the difference between  $C_p$  and  $C_r$  becomes negligible at such temperatures.

Again: "It is at very low temperatures that the assumption made by Debye, namely, that the vibrations whose frequency is greater than  $\nu$  are negligible, can best be justified, since at such temperatures the slow heat vibrations would be the most important".

Thirdly, at such temperatures the formula of Debye simplifies to the form  $C_v = \text{const. } (T/\Theta)^3$ , which is probably the correct type at low temperatures, and must be approximated to by any formula that is to give an accurate representation of the variation of specific heat with temperature.

Accordingly greater weight has been attached to the determinations of Keesom and Onnes, who determined the specific heat of copper between  $14^\circ$  and  $90^\circ$  K, and that of lead between  $14^\circ$  and  $80^\circ$  K, taking special precautions as to the temperature measurements and the purity of the material employed.

It is to be noticed that the value of  $\nu$  for lead from these observations is much nearer to the mean value than the results obtained by the earlier investigators.\*

Messrs, Griffiths give two sets of values for  $\Theta$  or  $\beta\nu$ . In the first set the values are chosen so as to give agreement with Debye's formula over the lowest portion of the temperature range considered. In the second set  $\beta\nu$  is chosen ' The results of Keesom and Onnes for lead have been confirmed by Eucken and Schwers in a series of experiments for which great accuracy is claimed. The latest determinations in Nernst's laboratory give for aluminium  $N\nu = 5 \times 21.0 \times 10^{12}$ , and for copper  $9 \times 21.1 \times 10^{12}$ , showing even better agreement than the earlier figures.

So as to give coincidence at about  $125^\circ$  K, with the result that, in general, a slightly smaller value of  $\nu$  is obtained. In Table I the values for  $\nu$  are those belonging to the first set.

These experimenters also investigated  $\nu$  for sodium, which appears to be somewhat exceptional in its thermal behavior, and for that reason has not been included in the Table. At low temperatures they found  $\beta\nu = 180$ , whilst at  $125^\circ$  K the value is considerably lower,  $\beta\nu = 152$ . Taking the low temperature value,  $\nu = 3.77 \times 10^{12}$ , and  $N\nu = 2 \times 20.71 \times 10^{12}$ , a result which is in good agreement with those recorded in the Table.

Nernst has published determinations of the atomic frequency for two nonmetals, carbon (in the form of diamond) and iodine, and it is interesting to find that they fall into line with the metallic elements. For C we find  $N\nu = 12 \times 20 \times 10^{12}$ , and for I,  $N\nu = 5 \times 21.6 \times 10^{12}$ .

Similar results were obtained for nearly all the elements contained in the list given by Blom. Table II gives the figures for these elements with the exception of Li\* and P†. The value of  $N\nu \times 10^{-12}$  is in brackets in those cases in which the atomic frequency is stated by Blom to be less reliable.

Even in these cases it will be noticed that  $\nu_A$  has practically the same value as was found to hold when accurate determinations of  $\nu$  were available.

Table II.

Element	N	$Nv \times 10^{-12}$	Element	N	$Nv \times 10^{-12}$
Be	4	4 x 20 .3	Ni	28	11 x 20 .4
B	5	6 x 20 .3	Mo	42	(12 x 21 .0)
Mg	12	4 x 20 .1	Pd	46	(11 x 20 .9)
Si	14	9 x 20 .2	Sn	50	(9 x 21 .1)
K	19	(2 x 20 .0)	Sb	51	12 x 21 .2
Ti	22	11 x 21 .0	Ir	77	20 x 20 .8
Ce	24	11 x 21 .4	Pt	78	(20 x 20 .7)
Mn	25	8 x 21 .6	Au	79	(16 x 20 .7)
Fe	26	10 x 21 .8	Bi	83	(12 x 22 .1)
Co	27	10 x 20 .8			

The weighted mean value found from the results of Table II is  $v_A = 20.85 \times 10^{12}$ .

It will be noticed that the mean value for  $v_A$  found from Table II,  $20.85 \times 10^{12}$ , is somewhat smaller than the mean value found from Table I,  $21.3 \times 10^{12}$ .

This may arise from the fact that the values of  $v$  given by Blom

\* For Li Blom gives  $v = 8.3 \times 10^{12}$ , which would make  $Nv = 24.9 \times 10^{12}$ . This suggests that  $n = 1$  in this case. Determinations of the specific heat at low temperatures are much to be desired.

† For red phosphorus Blom's value is  $v = 6.3 \times 10^{12}$ . This non-metallic element is exceptional; we may write  $Nv$  in the form  $4\frac{1}{2} \times 21.0 \times 10^{12}$ .

are derived from observations of the specific heat at higher temperatures, a procedure which, as we have noticed already, usually gives a smaller value for the frequency.

### 3. Application of the Theory of Probability

In view of the unexpected character of these results it is desirable to have some check upon them in order to be reasonably sure that the agreement between the values of  $v_A$  is not accidental.

Such a check is provided by the theory of probability. The case is similar to that discussed by Strutt\* in a paper on the tendency of the atomic weights to approximate to whole numbers.

Individual values of  $Nv$  cannot deviate by more than a fixed amount  $y (= \frac{1}{2}v_A)$  from the nearest integral multiple of  $v_A$ . "What we require is the probability that after a given number ( $i$ ) of 'trials' the sum of the results should not exceed a certain given amount  $x$ ; the result of each trial lying between 0 and  $y$ , and any value between these limits being equally likely."

A formula for the probability has been given by Laplace.†

$$\frac{1}{i!} \left\{ \left(\frac{x}{y}\right)^i - i \left(\frac{x}{y} - 1\right)^{i-1} + \frac{i(i-1)}{1.2} \left(\frac{x}{y} - 2\right)^{i-2} - \dots \right\}$$

The series is to be continued only so long as the quantities raised to the power  $i$  are positive.

Applying this formula to the results of Table I, taking  $y = \frac{1}{2} \times 21.3$  and for  $x$  the sum of the differences between the observed and the calculated values of  $Nv \times 10^{-12}$ , the approximate value of the probability is found to be:

$$\begin{aligned} \text{Results of Nernst, } & \frac{1}{9} \\ \text{Results of Griffiths, } & \frac{1}{11} \\ \text{Mean results, } & \frac{1}{26} \end{aligned}$$

That is, there is one chance in 26 that the mean values of  $Nv \times 10^{-12}$  should approximate so closely to integral multiples of the number 21.3 by accident.

The application of the formula to the results of Table II gives for the probability approximately  $\frac{1}{31}$ . Consequently, when the results of both Tables are taken into consideration there is but a small chance that the assumed regularity may be accidental.

#### 4. The Formula of Debye

In the theory of Debye\* the characteristic frequency is a maximum frequency which limits abruptly the range of vibrations forming the "spectrum" of the solid, by the formula its value in terms of the elastic constants is given

$$v = \left( \frac{3N'}{VF} \right)^{1/3}$$

where  $N'$  is the number of atoms in volume  $V'$ , and

$$F = \frac{4\pi}{3} p^{3/2} K^{3/2} \left[ 2 \left( \frac{2(1+\delta)}{3(1-2\delta)} \right)^{3/2} + \left( \frac{1+\delta}{3(1-\delta)} \right)^{3/2} \right]$$

$p$  being the density,  $K$  the compressibility, and  $\delta$  Poisson's ratio. When the mass of the solid considered is equal to the atomic weight,  $Y$  becomes the atomic volume, and  $N'$  Avogadro's constant.

\* It should be noticed that this formula for the frequency contains no undetermined constant ; all the quantities involved can be measured experimentally. Table IX of Debye's paper gives the value of the characteristic temperature found from the elastic constants for 12 metals, and these results have been employed in the calculation of  $v$  and of  $Nv$  in the following Table (III). It will be seen that in each case the product  $Nv$  can be expressed in the form  $nV_A$  :—

Table III.—Atomic Frequency by Debye's Formula.

Element	N	$\nu \times 10^{-12}$	$N\nu \times 10^{-12}$
Al	13	8.26	5 x 21 .5
Fe	26	9.67	12 x 20 .9
Ni	28	9.01	12 x 21 .0
Cu	29	6.81	9 x 21 .7
Pd	46	4.22	9 x 21 .6
Ag	47	4.39	10 x 20 .6
Cd	48	3.48	8 x 20 .9
Sn	50	3.83	9 x 21 .3
Pb	78	4.68	18 x 20 .3
Au	79	3.44	13 x 20 .9
Ph	82	1.49	6 x 20 .4
Bi	83	2.30	9 x 21 .2

$$\text{Mean value of } N\nu = 21.02 \times 10^{-12}$$

Calculation of the probability in this case shows that there is only one chance in 45 that the product  $N\nu$  should by accident approach so nearly to integral multiples of a single fundamental frequency,  $\nu_A$ . Considering the difficulties in the determination of the elastic constants, and the uncertainty attaching to the temperature at which the measurements should be made, this is a striking result.

\* Debye assumes  $N' = 5.66 \times 10^{23}$ ; Millikan's value,  $N' = 6.062 \times 10^{13}$ , would increase the values of  $\nu$  by rather more than 2 percent.

A comparison of the values of the frequency number,  $n$ , obtained by the use of Debye's formula, with those obtained from the specific heat, reveals the unexpected result that in several cases the integers are not the same. This difference in the values of  $n$  no doubt arises from variations in the physical conditions of the substance under examination. The temperature at which the determinations are made must be taken into consideration. It is well known that in the case of certain elements various physical modifications exist consequent upon structural changes in the solid.

### 5. Choice of the Atomic Numbers

In the foregoing work the atomic numbers employed have been those given by Moseley. It has been suggested by Rydberg that two unknown elements should be included in the Periodic Table between hydrogen and lithium, so that lithium would have an atomic number 5 instead of 3. For all the elements later in the Table, Rydberg's ordinals are greater by 2 units than Moseley's numbers. It is found that the relation  $N\nu = n\nu_A$  fits the results of observation more closely when Moseley's numbers are used for  $N$ . This is clearly shown by calculating the probability for the two sets of numbers.

Taking the observations of Nernst, the probability given by Rydberg's ordinals is 1/1.3 instead of 1/9. For the observations of Griffiths, the probability given by Rydberg's ordinals is 1/1.5 instead of 1/11. When Debye's formula for the characteristic frequency is employed,

the probability is 1/5.4 for Rydberg's ordinals, but 1/45 for Moseley's numbers. These results may be regarded as evidence strongly in favour of the atomic numbers proposed by Moseley.\*

## 6. The Physical Significance of the Relation $N\nu = n\nu_A$

The results so far obtained may be summarized in the equation  $N\nu = n\nu_A$ . Thus for each element the characteristic frequency (or frequencies) may be expressed in terms of a single fundamental frequency†  $\nu_A$ , by employing two integers  $N$  and  $n$ . The integer  $N$  denotes Moseley's atomic number; the physical significance of  $n$  is not as yet clear, but it may be suggested that it is related to the number of (valency) electrons which determine the crystalline structure of the solids. A possible interpretation may be given to the empirical relation by the Quantum Theory. Multiply each side of the equation by Planck's constant,  $h$ , which denotes the quantum of action. Then

$$Nh\nu = nh\nu_A.$$

\* The same conclusion was arrived at, in a different way, by van den Broek, 'Phil. Mag.,' vol. 28, p. 630 (1914).

† It is possible that, in some cases, instead of the value  $\nu_A = 21.3 \times 10^{12}$ , it may be necessary to take a simple submultiple, such as  $\frac{1}{2}$  of this quantity.

Considering an atom of any element,  $h\nu$  represents one quantum of energy corresponding to the critical temperature  $\Theta$ . The left-hand side of the equation accordingly represents the amount of energy for as many quanta as there are positive charges in the core of the atom. The right-hand side may be regarded as the energy corresponding to an integral multiple of a certain fundamental quantum,  $h\nu_A$ .

It is necessary to emphasise the fact that this does not imply the actual existence of "atoms of energy." We are here concerned with the characteristic frequency, that is, with a certain limiting condition affecting each element in the solid state, and the occurrence of the quantity  $h\nu_A$  implies only that there is a certain limiting amount of energy involved, which is the same for various elements.

According to the theories of Debye and of Born and Karman, the vibrations of the atoms in a solid form a continuous spectrum, limited by a definite boundary on the side of the shorter wave-lengths. It is this limiting frequency which is taken as the characteristic atomic frequency. It is not unreasonable to suppose that this frequency may be subject to a condition similar to that expressed by Einstein's relation,  $V_c = h(\nu - \nu_0)$ , which has been proved true by the experiments of Richardson and Compton, Hughes and Millikan, for the photoelectric effect.

It has, in fact, been proved by several investigators that the relation  $Ve = h\nu$  accurately defines the boundary on the side of the shorter wave-lengths of the spectrum of X-radiation.

In the equation  $Nh\nu = nh\nu_A$  we may substitute  $Ve$  for and for  $h\nu$ , and  $V_A e$  for  $h\nu_A$  where  $V$  and  $V_A$  denote potentials at present undefined, and  $e$  is the charge on an electron. Then  $NeV = neV_A$ , or  $NeV - neV_A = 0$ . But  $Ne$  is  $E$ , the charge on the nucleus of the atom, and  $-ne$  is the charge carried by  $n$  electrons.

If we may identify  $V$  with the potential of the nucleus, and  $V_A$  (equal to about  $\frac{1}{12}$  volt) with the potential of a ring of electrons (or of the valency electrons), the relation expresses the fact that the energy of the atomic system is zero, or perhaps a minimum, in the condition corresponding to the limiting frequency. This involves the supposition that in the limiting condition the potential of the electrons in question assumes a constant value (or perhaps a multiple of some constant value, since  $n$  may be  $p \times q$ , where  $p$  and  $q$  are integers).

The relation may also be written in the form  $EV = nA$ , where  $A$  is constant. This may be interpreted as expressing the fact that in the limiting condition the energy of the nucleus is an integral multiple of a certain quantity of energy  $A$ .

## 7. Electronic Frequencies

A relation similar to that already discussed appears to hold for certain electronic frequencies. When, however, the vibration of an electron is in question, it is necessary to replace the atomic constant  $v_A$  ( $21.3 \times 10^{12}$  sec.<sup>-1</sup>) by the fundamental electronic frequency,  $v_E = 3.289 \times 10^{15}$  sec.<sup>-1</sup>, which is Rydberg's constant in spectral series, usually expressed as the wave number 109679.22 (Curtis). The relation then takes the form

$$Nv = nv_E, \text{ or } Nv = (n + \frac{1}{2}) v_E$$

In these cases, as in dealing with the characteristic atomic frequency,  $v$  refers to some limiting frequency or to a frequency associated with a maximum value of some variable quantity.

## 8. The Maximum of the Photoelectric Effect

Pohl and Pringsheim\* have determined the value of the wave-length corresponding to the maximum of the "selective" photoelectric effect with an accuracy of about 2 or 3 per cent. Their results have been employed in the construction of Table IY, which gives the values of  $v$  and of  $Nv$  for the four alkali metals examined.

Table IV

Element	N	$\lambda$ in $\mu\mu$	$v \times 10^{-14}$	$Nv \times 10^{-15}$
Li	3	280	10 .71	1 x 3 .21
Na	11	340	8 .82	3 x 3 23 <sub>5</sub>
K	19	435	6 .90	4 x 3 .27 <sub>5</sub>
Rb	37	480	6 .25	7 x 3 .30

The figures in the last column of the Table show that  $Nv$  may be expressed in the form  $nv_E$ , where  $n$  is a simple integer and  $v_E$  is very nearly constant. The mean value of  $v_E$  for these four elements is  $3.255 \times 10^{15}$  sec.<sup>-1</sup>, which is so near the Rydberg value  $3.289 \times 10^{15}$  sec.<sup>-1</sup> that there can be little doubt as to the identity of the two numbers.

A maximum photoelectric activity has been recorded for the four elements, magnesium, aluminum, calcium, and barium, which do not show a true "selective" effect. It is possible

that the corresponding frequency and the atomic number are related in a similar way in these cases also, but the results are not decisive.

### 9. The Limiting Frequency of the Photoelectric Effect

The emission of electrons under the influence of light takes place only when the frequency of the exciting light exceeds a certain limiting frequency,  $\nu_0$ . Richardson and Compton\* have determined this limit both from the maximum energy of the electrons emitted, and also from their mean energy. The results have been employed in the construction of Table V.

Table V.

Element	N	$N\nu_0 \times 10^{-15}$	
		Maximum energy	Mean energy
Na	11	2 x 2 .83	2 x 2 .86
Al	13	3 x 2 .73	3 x 3 .16
Mg	12	3 x 3 .14	3 x 3 .20
Zn	30	8 x 3 .00	8 x 3 .15
Sn	50	13 x 3 .19	13 x 3 .42
Bi	83	23 x 3 .28	23 x 3 .21
Cu	29	9 x 3 .22	9 x 3 .13
Pt	78	25 x 3 .24	25 x 3 .21

With the exception of the values for sodium and one value for aluminium, the results are in fair agreement with the relation  $N\nu_0 = n\nu_E$ .

### 10. Ionisation Potentials

The minimum potential required for the ionisation of a gas is probably connected with  $\nu_0$ , the least frequency of radiation which can ionise the gas photoelectrically.†

Einstein's equation is,

$$eV_0 = h\nu_0,$$

where  $V_0$  denotes the ionisation potential. If then  $\nu_0$  is subject to the relation  $N\nu_0 = n\nu_E$ , we should expect to find  $NV_0 = nV_E$ , where  $V_E$  denotes a constant potential determined by  $eV_E = h\nu_E$ .

From this relation the value of  $V_E$  is found to be 13.5 volts. This is the value in Bohr's theory for the ionising potential in the case of (atomic) hydrogen. For, according to this theory, the work done in moving the electron from its orbit to a position of rest at infinity is  $W = 2\pi^2me^4/h^2$  and  $\nu_E = 2\pi^2me^4/h^2$ . Hence  $W$ , which is  $eV_E$ , is equal to  $h\nu_E$ .

The value of the ionisation potential for (molecular) hydrogen determined experimentally is of the right order of magnitude, but is only 11 volts instead of 13.5 volts.

The following Table (VI) gives the value of the ionisation potential,  $V_0$ , and of the product  $NV_0$ , in all cases where direct experimental determinations have been carried out.\* The results in the last column of the Table show that, with the exception of hydrogen and oxygen, there is remarkable agreement with the relation  $NV_0 = nV_E$ .

Table VI.

Element	N	$V_0$ (Volts)	$NV_0$
Hydrogen	1	11 .0	1 x 11 .0
Helium	2	20 .5	3 x 13 .7
Nitrogen	7	7 .5	4 x 13 .1
Oxygen	8	9 .0	5 x 14 .4
Neon	10	16 .0	12 x 13 .3
Argon	18	12 .0	16 x 13 .5
Mercury	80	4 .9	30 x 13 .1

In the case of mercury ionisation of a second type also occurs for a potential of 10 volts,† which is almost exactly double the value recorded in the Table, so that the corresponding frequency number, would be 60.

## 11. Thermionic Potentials

Intimately connected with the potentials here discussed are the potentials observed in dealing with the emission of electrons from glowing solids and the contact potentials between different metals. In these cases, the results obtained depend to such an extent on surface conditions and the presence of gaseous films, that as yet it is hardly possible to assign to the various elements reliable values that shall be characteristic of the elements themselves.

The work that an electron would have to do to escape from the substance may be measured by the equivalent potential difference,  $\phi$ . The values quoted in Table V II for  $\phi$ , the “electron affinity” of the elements in volts, are derived from thermionic measurements, † and for the reason stated must be received with some reserve. It is, however, interesting to find that the values of  $N\phi$  approximate fairly closely to multiples of 13'5 volts.

Table VII.

Element	N	$\phi$ (volts)	Authority	$N\phi$
Carbon	6	4 .14	Langmuir	2 x 12 .4
		4 .51	Deininger	2 x 13 .5
Calcium	20	3 .04	Horton	5 x 12 .2
Titanium	22	2 .4*	Langmuir	4 x 13 .2
Iron	26	3 .2*	Langmuir	6 x 13 .9
Nickel	28	2 .9	Schlichter	6 x 13 .5
Molybdenum	42	4 .31	Langmuir	14 x 13 .0
Tantalum	73	4 .31	Langmuir	23 x 13 .7
Tungsten	74	4 .52	Langmuir	25 x 13 .4
Platinum	78	5 .02	Deininger	30 x 13 .1
		5 .01	Horton	30 x 13 .3
Thorium	90	3 .36	Langmuir	22 x 13 .7

\* Preliminary measurements by Dr. Dusliman electron volts produced by each element.

## 12. Conclusion

The empirical relations discussed in Part II may be summarized in the formula

$$Nv = nv_E.$$

On multiplying each side of this equation by we obtain

$$Nhv = nhv_E$$

or, by using the quantum relation  $hv = eV$ ,

$$NeV = neV_E$$

But Ne is equal to the charge, E, on the atomic nucleus. Hence

$$EV - neV_E = 0.$$

This suggests that in the limiting conditions which arise in all the physical phenomena under discussion, we have to deal with a minimum value of the energy of a system comprising the nucleus and a certain number of electrons.

Researchers have studied the association between foods and the brain and identified 10 nutrients that can combat depression and boost mood: calcium, chromium, folate, iron, magnesium, omega-3 fatty acids, Vitamin B6, Vitamin B12, Vitamin D and zinc.

## **CONCLUSION**

ERIC Energy Device has proven from its clinical trials to diagnose and heal a limited range of diseases, with further studies in the translation of the names of the Egyptian gods, it will obtain a complete and comprehensive list of frequencies as used in ancient times.

ERIC Energy Device will continue to advance this form of healing as it gives a viable alternative to current medical practices.

ERIC Energy Device is a completely safe method of diagnosing and healing disease, it uses no needles or destructive investigation or healing methods (no pain or side effects), the body quickly comes into harmony with this method making a symbiotic relationship with it.

### **Closing Points**

With the advancement of technology, we are now able to reproduce the ancient concepts, coming to an understanding of how they were created and used should be the highest priority because as has been shown they contain new information that will aid our society grow into a healthier and longer age.

## **LIST OF ABBREVIATIONS**

RA	Ancient Egyptian Sun God, head of all the Gods.
RF	Radio Frequencies generated by oscillating crystals tuned to a certain output.
EU	ERIC University
S&T	Science and Technology

## **FOOTNOTES**

Bio-etheric energy is often referred to as the human aura, but in this case, it is the internal frequencies of each organ in the body giving it, its unique qualities, it is the energy by which stem cells are programmed to do a certain function.

## REFERENCE

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The Structure of Civilization ISBN 978-0-9805517-9-2

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### **Internet Reference**

Gods of Egypt <https://www.ancient.eu/article/885/egyptian-gods---the-complete-list/>

## Appendix A

### 1. Programming the CCD

```
/* Partial code for grabbing and saving an image as a bitmap */
#include <stdio.h>
#include <SynchronousGrab.h>
int main()
{
char*      pCameraID   = "DEV_000F31024586"; /* camera ID */
const char* pFileName  = "SGrab.bmp"; /* bitmap image filename */
/* grab and save an image as a bitmap */
return(SynchronousGrab( pCameraID, pFileName ));
}

/* Partial code for image threshold */
#include <string>
#include <cstring>
#include <iostream>
#include "CImg.h" /* CImg image processing library */
int main( int argc, char* argv[] ){
char* pCameraID   = "DEV_000F31024586"; /* camera ID */
const char* pFileName = "SGrab.bmp"; /* bitmap image filename */
const char* output = "ThreshGrab.bmp"; /* thresholded image*/
.....
cimg_library::CImg image(pFileName);
cimg_library::CImgDisplay main_disp(image);
while (!main_disp.is_closed())
{
main_disp.wait(); if (main_disp.button() && main_disp.mouse_y()>=0)
{
cimg_library::CImgDisplay main_disp2(image.get_threshold(128).normalize(0,255));
image=image.get_threshold(128).normalize(0,255);
image.save(output);
while (!main_disp2.is_closed()) {
main_disp2.wait();
if (main_disp2.button() && main_disp2.mouse_y()>=0) {exit(0);}}}}}
```

## 2. The Science of how ERIC Works

Living light is a combination of photons, phonons, RF, and radio waves.

Each cell is a living light reactor metabolizing nutrients that create different frequencies of light, sound, and radio frequencies in a Holistic communication between cells.

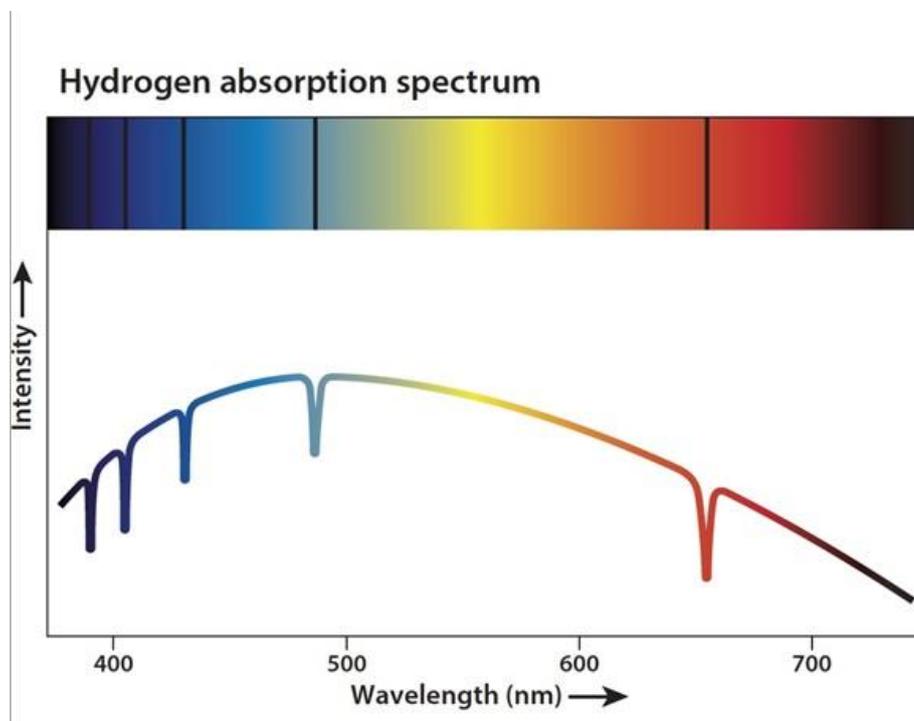
Eric is a living light interpreter slow scan TV, picture, and sound via radio.

When Dr. Peterson was working on the Australian space projects they were designing a camera that could detect the elemental nature of the stars by the frequencies of light being emitted from them, the idea came to me what if we treated the human body as the universe and taught the camera to read the nature of cells the same as it does looking at the stars, since the body is made of trillions of cells, just as the universe is made of trillions of stars.

Dr. Peterson repurposed the camera software to look into the human body the same as it could look at close or distant stars and determine their elemental nature. Each cell has a photon as its power source, these are acquired through the process of creating vitamin D.

These photons are assigned a task, they become living light. They are converted from sunlight (photonic) to living light (bioluminescence). Each cell communicates to its neighbor by light using a set of codes to determine its function. Each code has its own elemental nature that we call metalloproteins and metalloenzymes, each red blood cell has iron.

Cells have their own elemental equivalent of iron.



### 3. How a Space Camera Works

Each element absorbs light at specific wavelengths unique to that atom. When astronomers look at an object's spectrum, they can determine its composition based on these wavelengths.

Astronomy: Rick Johnson

The most common method astronomers use to determine the composition of stars, planets, and other objects is spectroscopy. Today, this process uses instruments with a grating that spreads out the light from an object by wavelength. This spread-out light is called a spectrum.

Every element — and combination of elements — has a unique fingerprint that astronomers can look for in the spectrum of a given object. Identifying those fingerprints allows researchers to determine what it is made of.

That fingerprint often appears as the absorption of light. Every atom has electrons, and these electrons like to stay in their lowest-energy configuration.

But when photons carrying energy hit an electron, they can boost it to higher energy levels. This is absorption, and each element's electrons absorb light at specific wavelengths (i.e., energies) related to the difference between energy levels in that atom.

But the electrons want to return to their original levels, so they don't hold onto the energy for long. When they emit the energy, they release photons with exactly the same wavelengths of light that were absorbed in the first place.

An electron can release this light in any direction, so most of the light is emitted in directions away from our line of sight.

Therefore, a dark line appears in the spectrum at that particular wavelength.

Because the wavelengths at which absorption lines occur are unique for each element, astronomers can measure the position of the lines to determine which elements are present in a target.

The amount of light that is absorbed can also provide information about how much of each element is present.

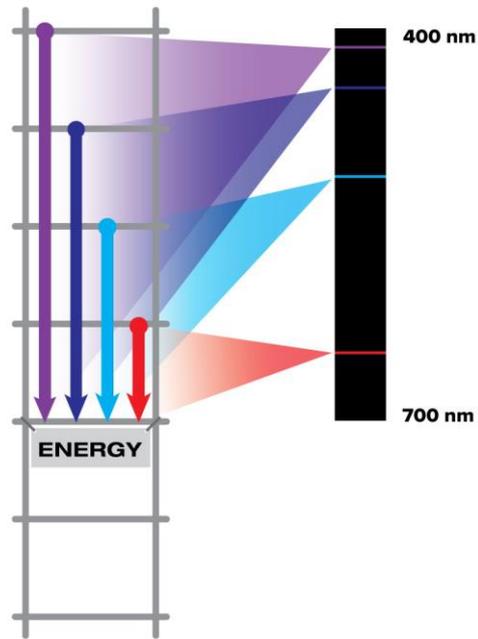
### 4. Using Space Age Technology to Image the Human Body

Plane polarized light consists of waves in which the direction of vibration is the same for all waves. Light may be polarized by reflection or by passing it through filters, such as certain crystals, that transmit vibration in one plane but not in others.

Sodium, for example, has two prominent yellow lines (the so-called D lines) at 589.0 and 589.6 nm — any sample that contains sodium (such as table salt) can be easily recognized using these pair of lines.

Designation	Element	Wavelength (nm)	Designation	Element	Wavelength (nm)
y	O <sub>2</sub>	898.765	c	Fe	495.761
Z	O <sub>2</sub>	822.696	F (Hβ)	H	486.134
A	O <sub>2</sub>	759.370	d	Fe	466.814
B	O <sub>2</sub>	686.719	e	Fe	438.355
C (Hα)	H	656.281	G' (Hγ)	H	434.047
a	O <sub>2</sub>	627.661	G	Fe	430.790
D <sub>1</sub>	Na	589.592	G	Ca	430.774
D <sub>2</sub>	Na	588.995	h (Hδ)	H	410.175
D <sub>3</sub> or d	He	587.5618	H	Ca <sup>+</sup>	396.847
e	Hg	546.073	K	Ca <sup>+</sup>	393.368
E <sub>2</sub>	Fe	527.039	L	Fe	382.044
b <sub>1</sub>	Mg	518.362	N	Fe	358.121
b <sub>2</sub>	Mg	517.270	P	Ti <sup>+</sup>	336.112
b <sub>3</sub>	Fe	516.891	T	Fe	302.108
b <sub>4</sub>	Mg	516.733	t	Ni	299.444

**Table showing the frequency of the elements in nanometers.**



## 5. Spectral lines

A spectral line is like a fingerprint that can be used to identify the atoms, elements or molecules present in a star, galaxy or cloud of interstellar gas. If we separate the incoming light from a celestial source using a prism, we will often see a spectrum of colours crossed with discrete lines. Note that spectral lines can also occur in other regions of the electromagnetic spectrum, although we can no longer use a prism to help identify them.

There are two types of spectral lines in the visible part of the electromagnetic spectrum:

- Emission lines – these appear as discrete coloured lines, often on a black background, and correspond to specific wavelengths of light emitted by an object.
- Absorption lines – these appear as dark bands, often superimposed on a coloured continuum, and are the result of specific wavelengths being absorbed along the line-of-sight.



Emission lines are seen as coloured lines on a black background



Absorption lines are seen as black lines on a coloured background

The presence of spectral lines is explained by quantum mechanics in terms of the energy levels of atoms, ions and molecules. These energy levels depend on the numbers of protons, electrons and neutrons in an atom, and the limited set of configurations in which these elemental particles can exist (the set of quantum numbers). Atoms prefer to be in their ground state, where all the electrons are located as close to the nucleus as possible.

Absorption lines occur when an atom, element or molecule absorbs a photon with an energy equal to the difference between two energy levels. This causes an electron to be promoted into a higher energy level, and the atom, element or molecule is said to be in an excited state. Emission lines occur when the electrons of an excited atom, element or molecule move between energy levels, returning towards the ground state.

## **6. Frequency Radiation Characteristic Around the Human Body**

Human radiation frequency and classify the characteristic of human body radiation based on gender. The data is analysed separately of raw dataset and postprocessing dataset to compare the classification results. At first, the data was classified using raw dataset and followed by the postprocessing data to the classifier.

Eric uses scientific investigations of the endogenous electromagnetic field (EM) generated by the human body to determine the health of the person whether it is emotional, mental, biological or physical. It takes 4 pillars to hold up the roof of a house, this being our body which can be affected by damage to one of these 4, the emotional and mental are not always immediately obvious as it can take years for the body to be damaged by them.

The human body is believed to having their own radiation which emits into space on their surrounding body. ERIC can detect the presence of this electromagnetic radiation, and identify the existence of the electromagnetic field generated by and contained within the biological system of body. The vibration of electromagnetic field generated by human body is referred as frequency radiation of human body, which emits their radiation around the body due to electromagnetic activities of the human body.

The radiation of the human body encircles the physical body as a sphere of radiation and vibrates at their own characteristic of frequencies. ERIC studies and classifies the characteristic of the frequency of radiation, particularly in gender. Eric uses pattern recognition, to establish rules to be used for diagnosis.

The electromagnetic radiation is described as self-propagating wave consisted of optic, electric and magnetic components. The wave oscillates in a periodic fashion exhibiting a characteristic amplitude, wavelength, and frequency of each of the main body systems.

The EM radiation of the human body is generated associated with electrical properties in the human body. The human body is a biological system that consists of solid properties such as bones, muscles and organs, where they are all linked together by blood vessels, nervous tissue, connective tissue and muscle tissue, each containing their own methods of communication specific to their own personal requirements.

Every activity of living tissue is correlated with an optic, electrical, frequency change. As the flow of electrical current in a magnetic field create light in the surrounding space, the electrical current within the human body also creates electromagnetic fields that emit light that surrounds the body. Since the human body is a biological system, the electromagnetic field will vary with activity and health of the body.

Therefore, the human radiation wave is a collection of optical and electromagnetic waves of varying intensities flowing in and around the body, which vibrates a on their own characteristic's radiation of frequency driven by our DNA. This radiation namely aura, emits their radiation around the body into surrounding space.

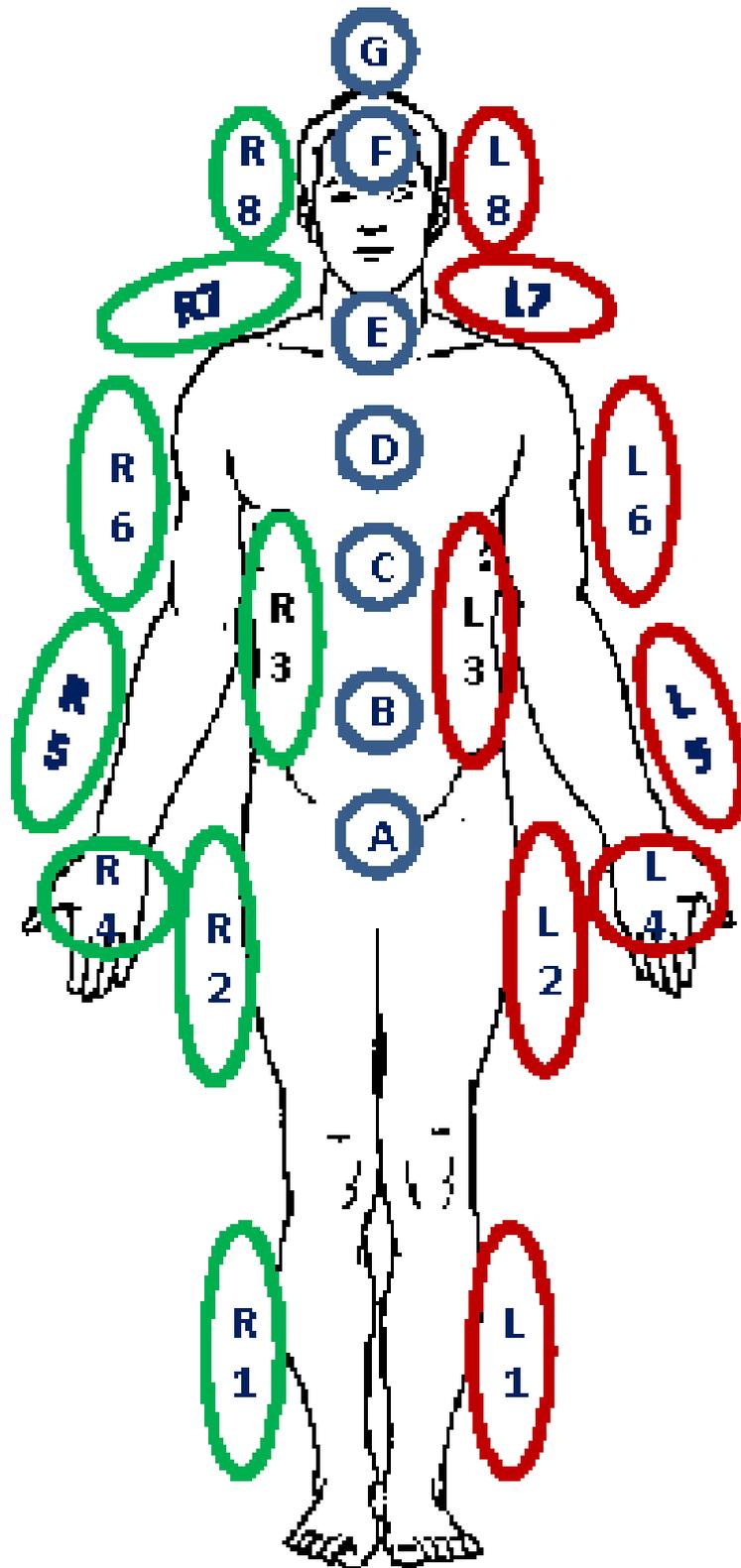
These characteristics of our body field are represented in our fingerprints, each being a unique frequency, no two people have the same body field, but each person is differently affected by changes to our mental, emotional, physical and biological environment in different ways.

The unique characteristics of body radiation frequency are detected at a distance, as non-invasive technique using ERIC as a body radiation wave detector. The frequency of human radiation wave is captured on sixteen points radiation in the human body included, and layer encloses the body, namely left-side and right-side.

The word energy point is derived from the sixteen different systems in the body each as a unique part of our body. An energy point is described as energy centre in human being and it also defined as focal points for the reception, absorption and transmission of radiation wave to and from the human body.

An energy point exists in the emotional body, a nonphysical body that is superimposed on the physical body and does a similar function within the human body. In general, there are sixteen major energy points points in the human body that are located from the feet to the top of the head.

Each energy point is believed to operate at a specific frequency, each having a specific function related to certain organs and glands that are usually associated with their position as shown in the Human Body Radiation Map:



Human Body  
Radiation