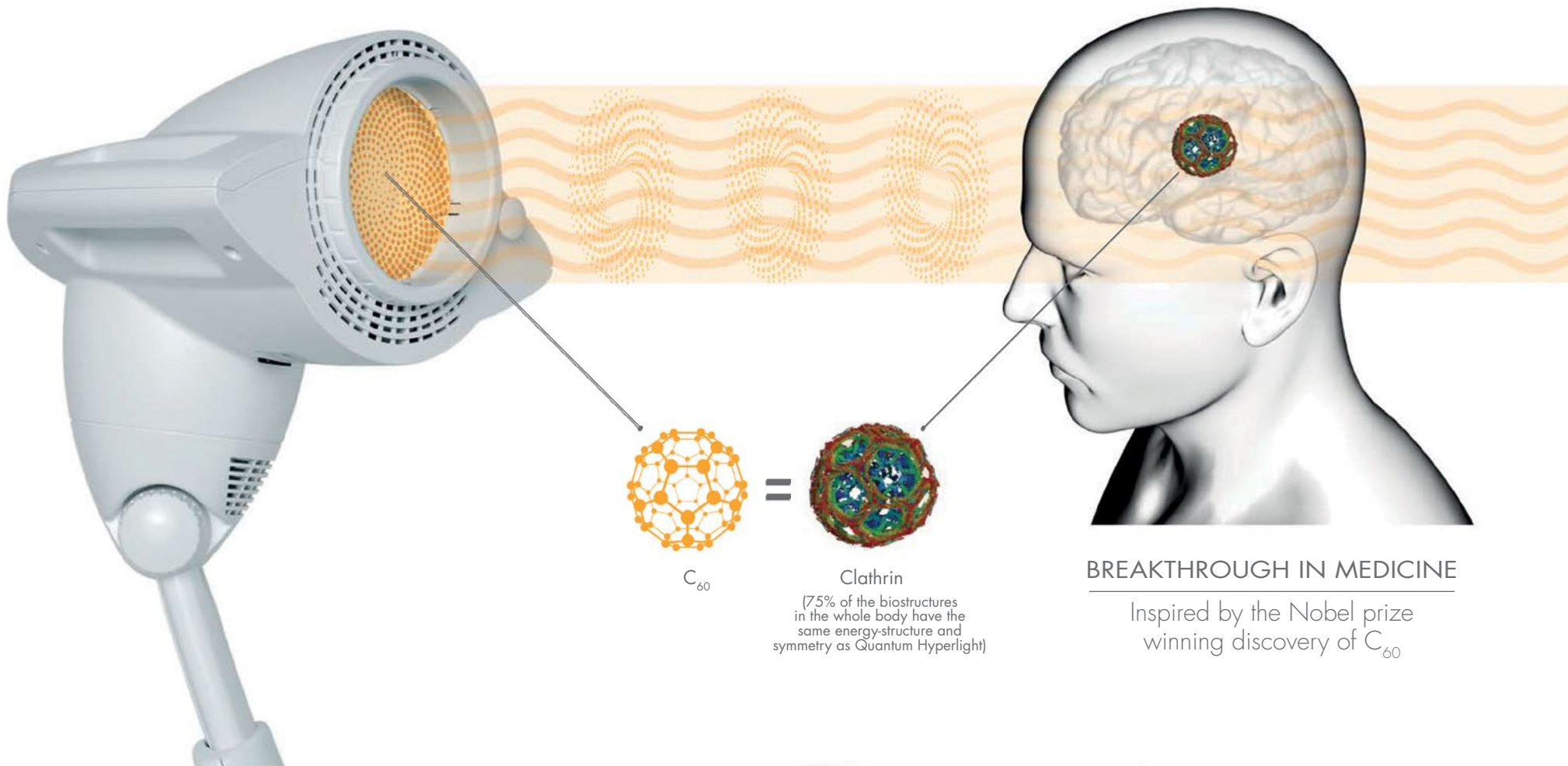


BIOPTRON® QUANTUM HYPERLIGHT®

(hyperpolarized light)



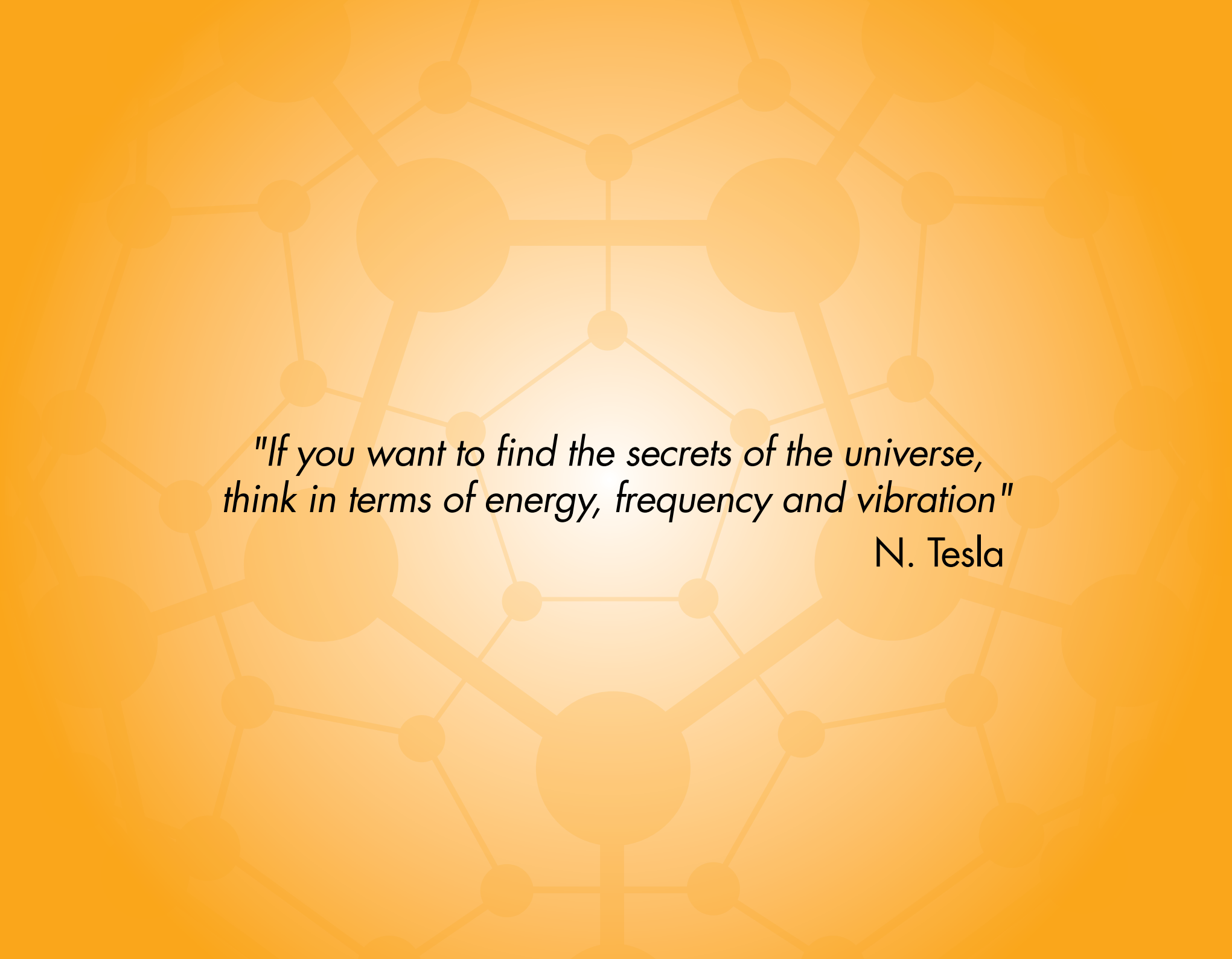
C₆₀

Clathrin

(75% of the biostructures
in the whole body have the
same energy-structure and
symmetry as Quantum Hyperlight)

BREAKTHROUGH IN MEDICINE

Inspired by the Nobel prize
winning discovery of C₆₀



*"If you want to find the secrets of the universe,
think in terms of energy, frequency and vibration"*

N. Tesla

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BIOPTRON® QUANTUM HYPERLIGHT AS QUANTUM MEDICINE

Natural prevention and natural healing without side effects!
Prolonging the life-span and improving the good quality of life!

EVERY YEAR, MILLIONS OF PEOPLE WORLDWIDE SUFFER FROM INJURIES AND ILLNESSES IN EUROPE ALONE:

- 60 million people suffer from injuries
- 1 in 5 adults suffer from chronic pain
- 100 million people suffer from muscle and joint pain
- 100 million people in Europe are affected by arthritis/rheumatism
- 67 million people suffer from lower or upper back pain
- 4 million people suffer from wounds
- 12 million people in Northern Europe suffer from SAD (seasonal affective disorder)



EVERYDAY LIFE CAN TAKE A TOLL ON OUR BODY DUE TO:

- Accidents and falls
- Fractures and breaks
- Strains and sprains
- Minor cuts or injuries
- Burns and scalds
- Bruises and hematomas

All these painful and life-threatening conditions have to be medically treated. Every year, worldwide 600 billion US dollars are spent on pharmaceuticals (chemical drugs). Despite the efficacy, the risk of serious side effects and the costs involved treatment with medicaments is both dangerous and expensive. It makes no sense.



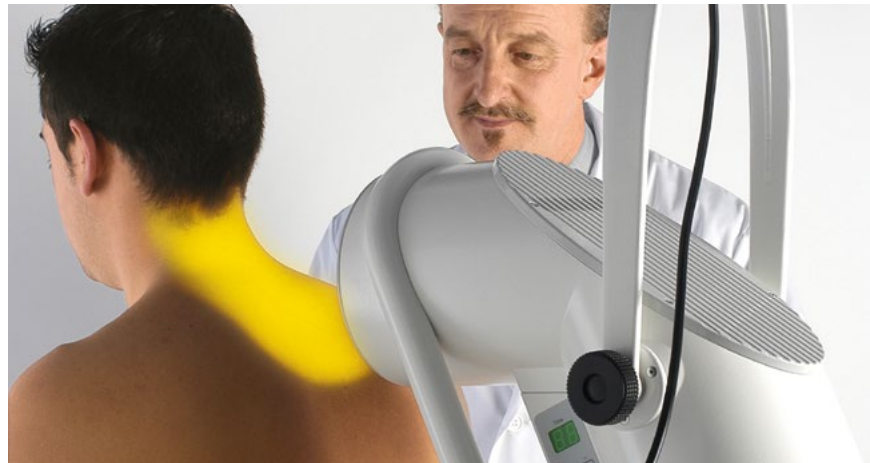
Chemical Drugs - Common Side Effects

NSAIDS	Opioids	Hypertensive Drugs
<ul style="list-style-type: none"> • Liver damage • Allergic reactions • Clotting disorders • Potential influence on brain development during pregnancy and infancy • Addiction • Stomach ulcers 	<ul style="list-style-type: none"> • Addiction • Stomach ulcers • Clotting disorders • Liver problems • Kidney problems • Changes in bowel habits 	<ul style="list-style-type: none"> • Dizziness • Skin rashes • Changes in taste perception • Swelling of the face • Muscle weakness • Changes in bowel habits

The challenge is to provide **a medical treatment WITH EXCELLENT RESULTS and WITHOUT SIDE EFFECTS** that is at the same time **economical!**

BIOPTRON® Light Therapy System is the solution. **Clinically tested and certified as a medical device, for successful treatment of various health issues.** A user-friendly, painless, safe, effective and economical treatment!

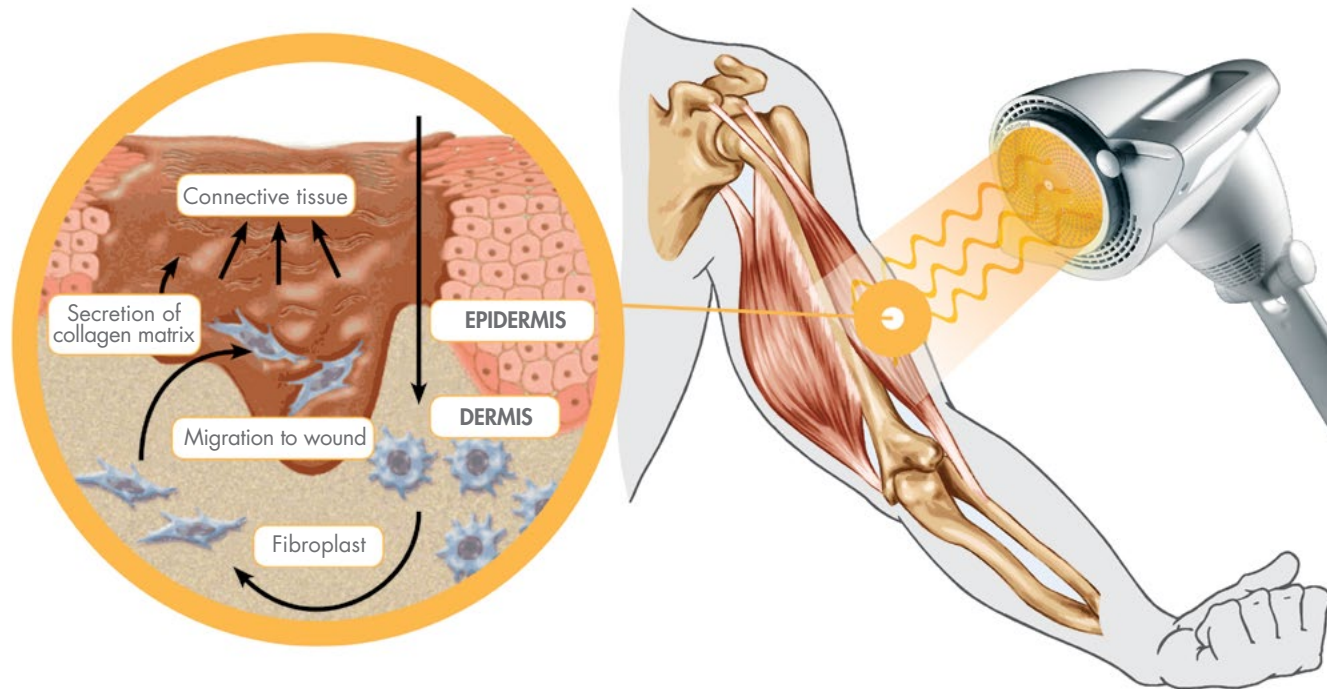
BIOPTRON® Quantum Hyperlight restores and heals the body with **positive local and systemic effects, thus healing the whole body system at the QUANTUM LEVEL! NO SIDE EFFECTS!**



BIOPTRON® Quantum Hyperlight has been accepted as a unique form of treatment, **DISEASE PREVENTION, THERAPY and RECOVERY for various medical indications and health issues:**

- Wound healing
- Pain relief
- Skin diseases - dermatological disorders
- Mental disorders, depression and seasonal affective disorders (SAD)
- Pediatrics
- Dentistry
- Anti-ageing
- Veterinary care





All over the world, in reputable hospitals and institutions, wellness and sports centers, health professionals are using BIOPTRON® Quantum Hyperlight and are reporting the following significant improvements while treating patients who suffer from various medical conditions:

- Faster and painless healing of (chronic) wounds
- Dilatation of blood vessels and improved local blood circulation, thus improving healing processes
- Increased delivery of oxygen and nutrients and reduced edema in affected areas
- Improved regeneration
- Decreased pain and improved recovery from trauma and injuries
- Significant pain reduction in arthritis and neuropathy
- Gibbs free energy regulation.

By way of introduction, **BIOPTRON AG** was founded in 1988 in Switzerland. In 1996, the company became a part of the Zepter Group. BIOPTRON® has since become a brand that stands for **innovative medical healthcare products**, unrivalled in both **prevention and recovery for a number of medical conditions**.

BIOPTRON® QUANTUM HYPERLIGHT already helped millions of people to improve their body's ability to **repair itself and maintain optimal health**. It speeds up the healing process, restores impaired body functions and one's metabolic balance, **increases resistance to external stressors and increases immunity by accelerating the body's natural healing processes for both acute and chronic conditions**.



BIOPTRON® headquarters and production facilities in Switzerland



Certificates: BIOPTRON® is in full compliance with high quality standards and medical device requirements in accordance with the EU Medical Devices Directive, 93/42/EEC. It is also approved by the FDA (510 (k) clearance for pain, No.: K032216) for the US market and is registered as a medical device in Australia (TGA certificate) and Canada (Health Canada certificate).

INTERNATIONAL AWARDS AND GOLD MEDALS FOR THE INVENTION OF BIOPTRON® QUANTUM HYPERLIGHT (HYPERPOLARIZED LIGHT) AND BIOPTRON HYPERLIGHT OPTICS



Gold Medal,
China Association
of Inventions,
Foshan, 2018



Gold Medal,
Invent Arena,
Trinec, 2018



Gold Medal,
International Federation
of Inventors' Association,
Geneva, 2018



Gold Plaque and
Gold Medal,
Inventions
Belgrade, 2018



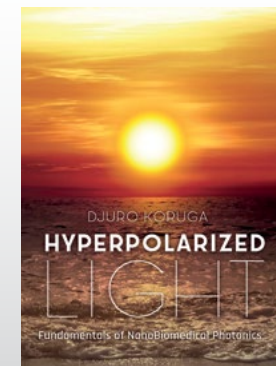
WIPO Medal
for inventors,
Belgrade, 2018



Prof. in Nanotechnology
Dr. Djuro Koruga

Recipient of several prestigious awards from
the International Federation of Inventors' Association.

Author of the book
"Hyperpolarized light".



BIOPTRON® QUANTUM HYPERLIGHT FOR A QUANTUM BODY

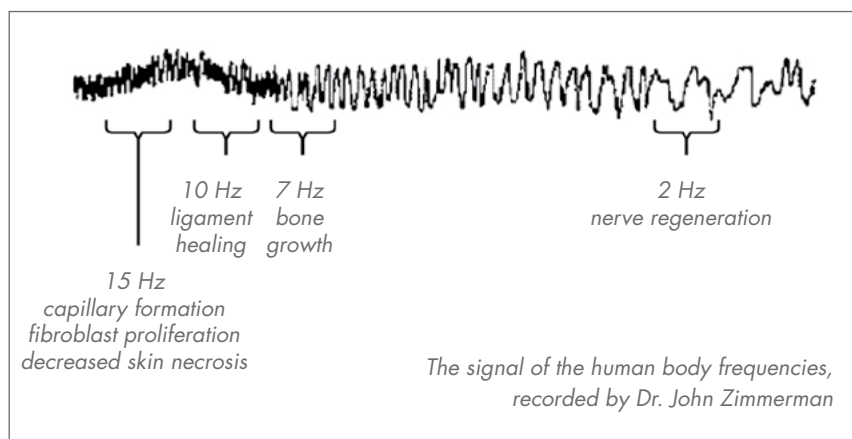


BIOPTRON AG works at the highest scientific level, taking reference and developments from physics, chemistry, quantum mechanics and medical science. The company develops and produces **clinically tested and certified high-tech medical devices** that generate Hyperpolarized Light and/or Quantum Hyperlight that **acts at the quantum level, restoring the whole body system.**

In 1989 in Brussels, on the Chair of Experimental Medicine, the **quantum medicine** (resonance therapy) was proclaimed as the **medicine of the third millennium**, when a team of quantum physicists presented a radically new approach to comprehending live systems.

The word **quantum** is derived from the Latin word *quanta*, which denotes the **smallest amount of energy information influencing body molecules and atoms responsible for healthy elementary processes.**

The main principle of quantum physics indicates that absolutely everything that exists has a certain frequency. So, every **healthy cell in the body must have its own ideal frequency.** Due to different stress factors, the body frequencies change, which radically disrupts the biophoton communication (electromagnetic radiation); in the long run, it results in illnesses. Quantum medicine observes an illness as “disrupted frequencies in energy body”. Instead of suppressing the symptoms in physical body with synthetic drugs (migraine, PMS, etc.), **Quantum Hyperlight with its quantum energetic properties restores the energy and frequency in stagnation in the disturbed areas** (biophotons communication, energy centers, cells and the vital organs).



The signal of the human body frequencies, recorded by Dr. John Zimmerman

STRUCTURED HYPERLIGHT RESTORES SELF-SIMILAR STRUCTURED BODY-MATTER

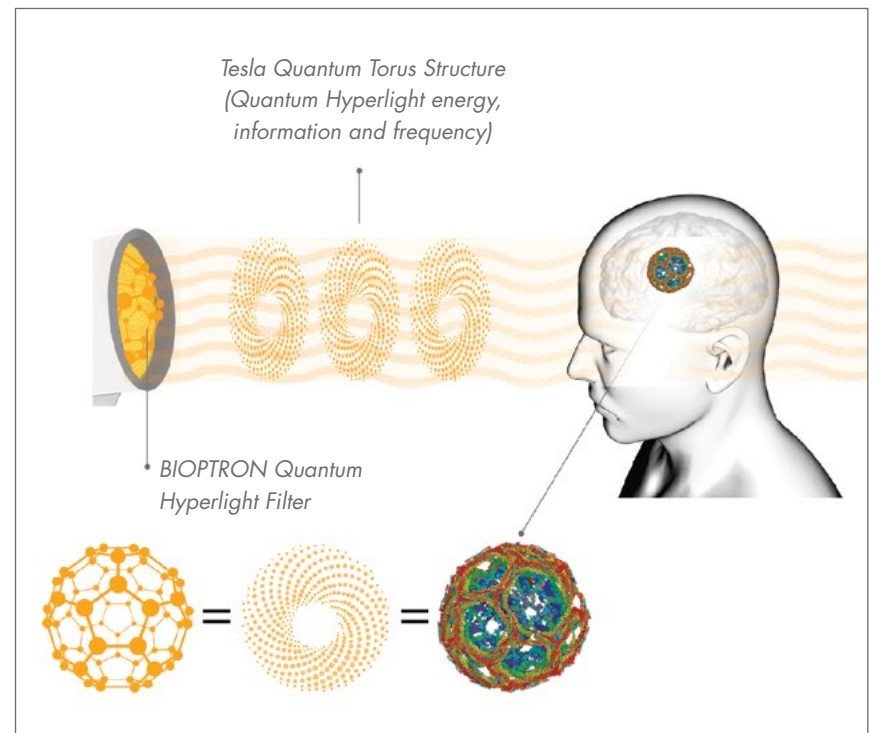
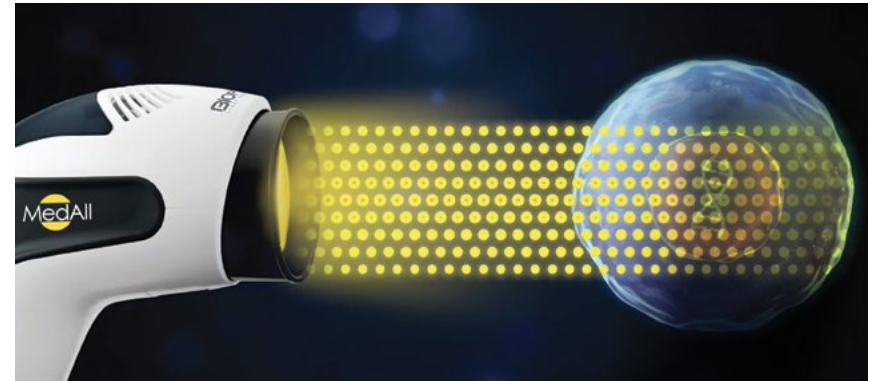
Due to a number of diseases or even the body's natural ageing process, the natural healthy state in biological structures becomes unordered, causing continued illnesses and accelerated ageing.

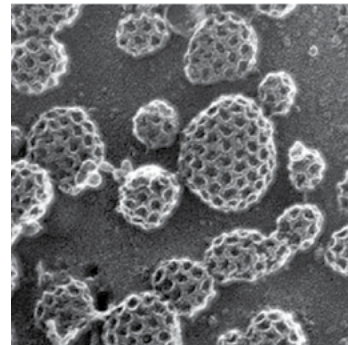
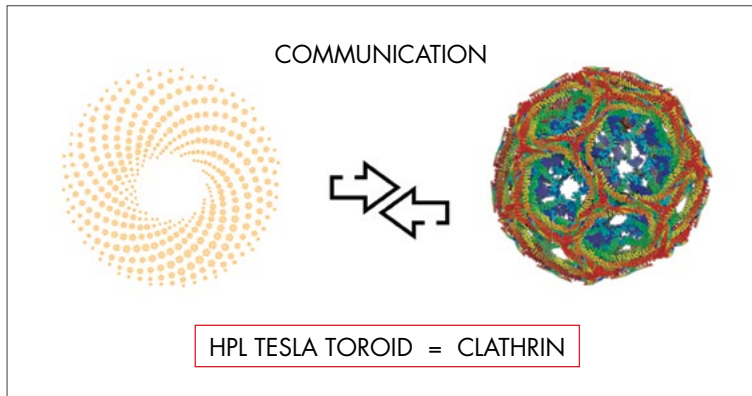
Quantum Hyperlight (structured light) maintains and restores the disturbed biological structures (structured matter), bringing them into a natural healthy state through the resonance principles of biomimicry, where pattern seeks identical pattern. According to the resonance principles, if two entities (as Quantum Hyperlight and biostructures) possess the same type of symmetry, Quantum Hyperlight as constantly perfect structure will prevail and impose its energetic properties on the disturbed entity - biostructures, **bringing it into homeostasis (natural healthy state).**

The serendipitous discovery of **Fullerene C₆₀**, which resulted in the **1996 Nobel Prize** in chemistry, triggered a new field of research, introducing the world to a new kind of symmetric quantum nanomaterials, thus opening an entirely new chapter of nanotechnology and nanomedicine: these studies led scientists and engineers to think of the multiple applications that the **C₆₀** could contribute, e.g. new medical treatments even to prolong life.

In 2017, inspired by the properties of the Nobel Prize winning discovery of fullerene molecule and understanding the biology of life, **our scientists have developed and patented the unique Biopton Hyperlight Optics®**, act as nanophotonic generators that transform Linearly Polarized Light (VLPL) into **Hyperpolarized Light with quantum properties.**

BIOPTRON® Quantum Hyperlight provides: 1. information, 2. energy and 3. vibrations deep into the body, biostructures and organs, **bringing the whole body system into homeostasis (internal natural stability).**



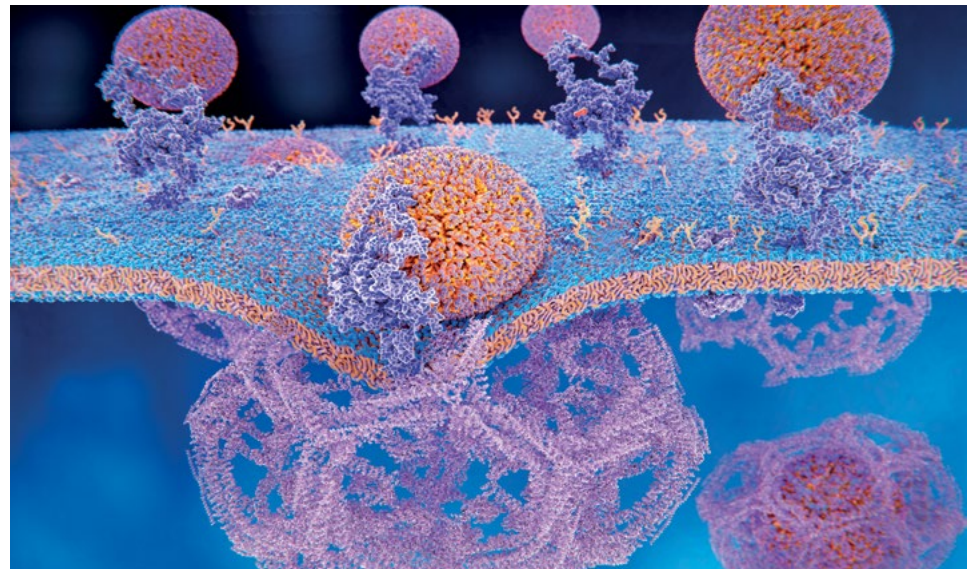


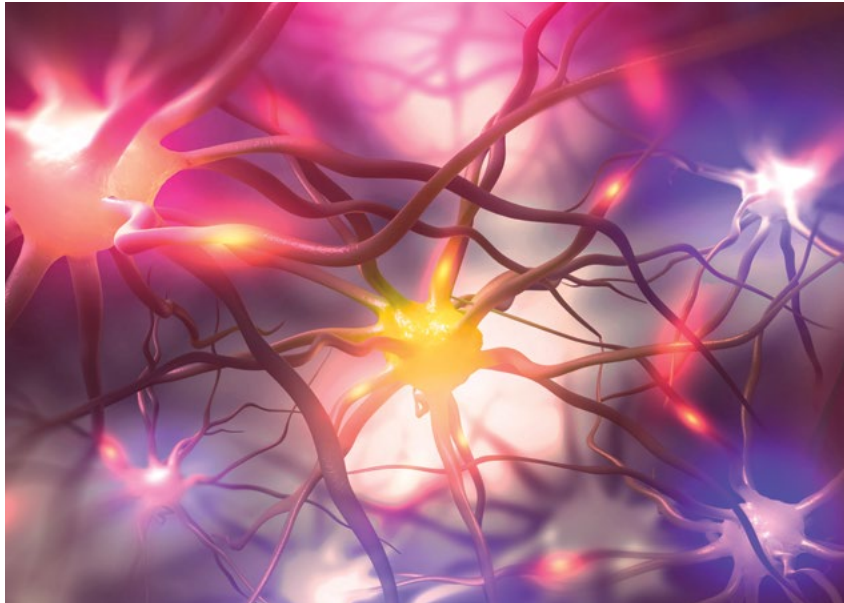
A microscopic view of a clathrin

85% of the human body has the same ideal type of symmetry as HLPL: biomolecules, water-chains, clusters, clathrin, microtubules, collagen, centrioles, targets, flagella and processes based on Gibbs free energy/negative ions, water 65%, proteins 15% and lipids 5%.

Due to its Tesla Quantum toroidal properties, based on **Fibonacci Sequence**, this light emission penetrates deep through the tissue, reaching the very important protein – clathrin, and harmonizing it. Clathrin recognizes a self-similar Quantum Hyperlight symmetry pattern and through the energy resonance principles **conveys the proper necessary energy information, at the quantum level, into the cell**. The endocytic pathways are thereby **ideally energized directly with Quantum Hyperlight as the source of proper energy** (even without “classic” food as the main energy-mediator)!

Clathrin is the main protein responsible for the two crucial processes: endocytosis and exocytosis. Endocytosis is the process where clathrin transmits the necessary energy (metabolites, hormones, other proteins, etc.) into the cells for their optimal intracellular communication and functioning. Exocytosis is the process where the cell debris is eliminated by the tissue inflammation.





*“If all the information required to control the body’s biochemical processes is in the light that the body emits, and if disturbances in that light disrupt biochemical processes and cause disease, then it must be possible to **“examine” the light and remove the disease.**” - Dr Fritz Albert Popp.*

Everything is built and maintained by **light as the main source of energy**, information and frequency.

The thought processes of the human brain are also fed from light as the main energy source. An improper "light diet" (not enough light) causes malillumination, which implies serious illnesses: light is the basic nutrient of all life.



Light is a fundamental part of our being: through evolution, we have become light bodies, living photoreceptors, **we consume light** (through food and photosynthesis processes), **our thoughts consist of light**; the nervous system, as well as our DNA, produce light: every cell in our body emits more than 100,000 light photon impulses per second, called biophotons, responsible for maintaining good health. This light emission is responsible for information and energy exchange and for the proper communication between adjacent cells, which is a crucial steering mechanism behind all biochemical reactions (Ref.: 16.1-16.5).

Biolight is made up of biophotons (from the Greek word “βίος” meaning “life” and “φως” meaning “light”). Biophotons must be distinguished from the more commonly discussed physical photons. **Biophotons are defined as the electromagnetic radiation of biomolecules.** Dr. Popp, F.A. demonstrated that cells emit either a structured healthy light responsible for good health, or a chaotic light which indicates disease. The explanation here is simple: if biophotons manage the body’s biochemical processes in a chaotic manner, the symmetry will be disrupted.

The healthy human body possesses the highest level of harmony. Sick individuals with weak immune systems have a poor and chaotic level of harmony, disturbed coherence and disturbed biophoton cellular communication.

Once the cellular metabolism is compromised, the cell becomes isolated from the regulated process of natural growth control. **BIOPTRON® Quantum Hyperlight** - as structured light could **establish the natural healthy state in the biophoton cellular communication.** (Influence of light on biophotons, Dr. Johan Boswinkel, Institute for Applied Biophoton Science IABS).



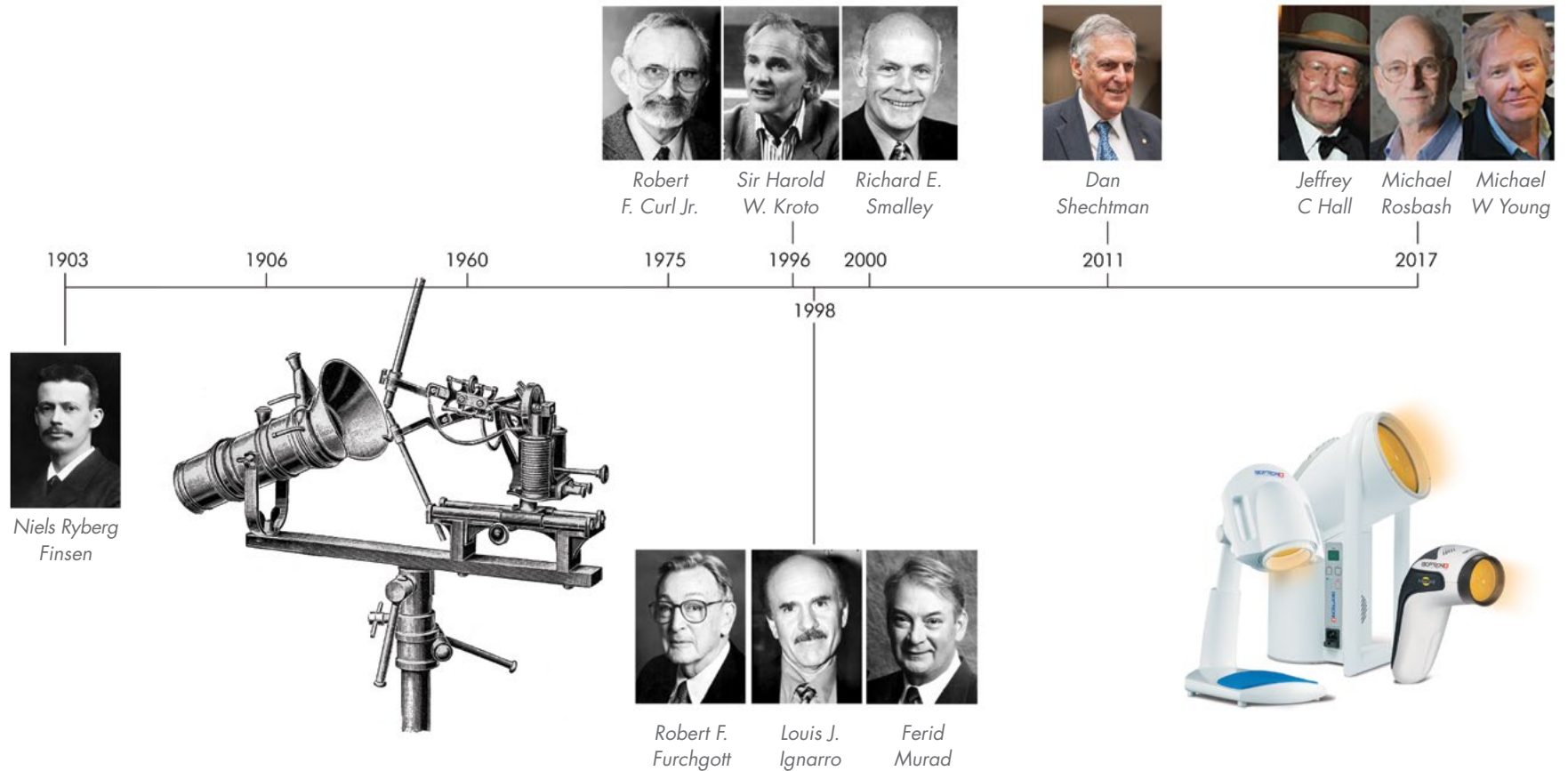
BIOPTRON® Quantum Hyperlight is identically hexagonally energy-structured as biophotons.

QUANTUM HYPERLIGHT (perfectly ordered photon stream) = BIOPHOTONS (perfectly ordered electromagnetic radiation of biomolecules).

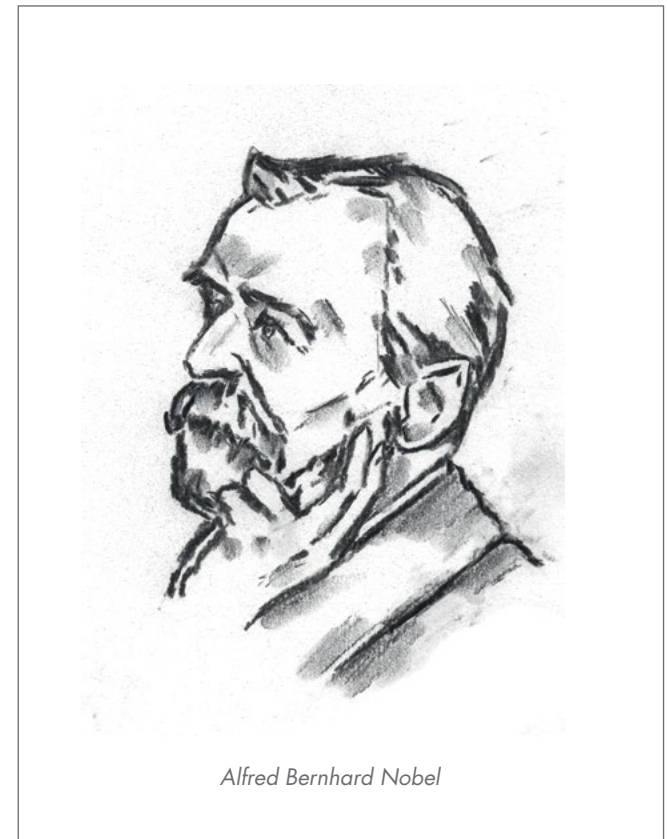
When Quantum Hyperlight is applied, “the pattern seeks the identical pattern” and a resonant energy interaction occurs: the biological structures are supplied with additional electrons (energy) and information, which is transmitted through the hydrogen water-bond chain.

A perfect match between BIOPTRON® Quantum Hyperlight and biophotons is achieved through the identical symmetry at the quantum level. By symmetry, BIOPTRON® Quantum Hyperlight maintains and restores structured biophotons and reestablishes their communication.

BIOPTRON® TECHNOLOGY INSPIRED BY THE NOBEL PRIZE WINNING DISCOVERY OF C₆₀



- The Nobel Prize in physiology or medicine in 1903 was awarded to **Dr. Niels Ryberg Finsen**. He demonstrated the **efficacy of ordered light for medical treatment of various diseases**, such as Lupus Vulgaris, also known as tuberculosis of the skin (cutaneous tuberculosis). He is therefore considered the founder of modern light therapy.
- The Nobel Prize in chemistry was awarded in 1996 to Sir Harold W. Kroto, Robert F. Curl and Richard E. Smalley **for discovering C_{60}** as a Fibonacci structure – icosahedral entity. These three researchers together with a British-American team from the Rice University in the U.S. managed to obtain the nano-molecule fullerene C_{60} during experiments with graphite. Based on the discovery of C_{60} , **BIOPTRON® scientists invented the C_{60} Biopton Hyperlight Optics®** which acts as a nanophotonic generator of Quantum Hyperlight. The influence of **BIOPTRON® Quantum Hyperlight on matter (biostructures) is at its most efficient. This is the quantum phenomenon whereby the information is able to modify the matter, bringing the whole body into homeostasis.**
- The Nobel Prize in physiology or medicine in 1998 was awarded to Robert F. Furchgott, Louis J. Ignarro and Ferid Murad “for their discoveries of nitric oxide as a signaling molecule in the cardiovascular system”. (The **near infrared part of the BIOPTRON® Quantum Hyperlight spectrum** stimulates the local production of nitric oxide, which **improves vasodilatation in blood vessels, playing an important role in the protection of cardiovascular diseases**).
- The Nobel Prize in chemistry in 2011 was awarded to Dan Shechtman for discovering a periodic icosahedral phase transition process and structures (quasicrystals) by Fibonacci’s Law (quasicrystals are also known as **Fibonacci crystals**, since they naturally arrange according to the Golden Ratio, **the same spatial arrangement present in photons of Hyperpolarized Light**).
- The Nobel Prize in physiology in 2017 was awarded to Jeffrey C. Hall, Michael Rosbash and Michael W. Young for their discoveries of molecular mechanisms that control the circadian rhythm. **BIOPTRON® Quantum Hyperlight is medically certified for Seasonal Affective Disorder (SAD), as it regulates the circadian rhythm** (see section for SAD, page No.: 38).



Alfred Bernhard Nobel

MOLECULE C₆₀ - Bucky ball

C₆₀ belongs to the fullerene family (C₆₀, C₇₀, C₇₆, C₈₂ and C₈₄ molecules).
It is one of the eight **allotropic forms of carbon** in nature (the well-known forms are graphite and diamond).

Carbon, along with hydrogen, oxygen, nitrogen, phosphorus and sulfur is the basis of biological life and a building block of genes, proteins, lipids and other important biomolecules.



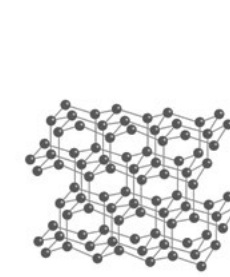
In a natural state it is so rare that it may be found in the most hidden places and only in trace amounts. It was found in a meteorite in Canada and it has been established that it was older than the solar system.



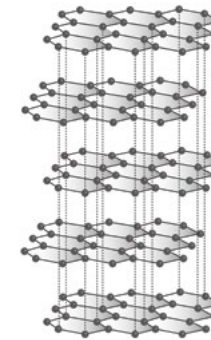
It is believed that it came from cosmic realms from red giant stars, where it was synthesized and ejected into space.



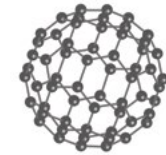
On earth, C₆₀ can be found in trace amounts in a burning candle, as activated carbon, and in Russia in a mineral called shungite.



diamond face-centered cubic crystal



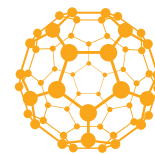
graphite hexagonal crystal layer distance: 335 pm



fullerene diameter of C₆₀: 700 pm

C₆₀ is a molecule composed of 60 carbon atoms arranged in a geometric shape called a truncated icosahedron with the Fibonacci structure. It is the only molecule of a single element to form a spherical cage: C₆₀ has 12 regular pentagonal and 20 regular hexagonal faces. No two pentagons share an edge, which could destabilize the structure.

The C₆₀ colour is originally black in nature. The patented technology process of fullerene application changes it into the unique BIOPTRON® Quantum Hyperlight colour.



**Quantum Medicine
for a quantum body**



C₆₀ and its healing properties date back to the 18th century.

In the early 1700's, Tzar Peter the Great had a palace in Karelia, near a magic spa center named "Martial Waters". The water at the Martial spa went through the thick layers of shungite (C₆₀) **in order to cure weak stomach, vomiting, diarrhea, hypochondria, kidney problems, different skin conditions and many other ailments.**

Peter the Great instigated its use in providing for a purified structured drinking water for the Russian army and required every soldier to carry a piece of this energy-potent stone in his backpack. Many believed that the reason the **Russians prevailed in the battle of Poltava was due to shungite C₆₀ that they carried with them.**



THE EMOTO EXPERIMENT REVEALED THAT QUANTUM HYPERLIGHT RESTORES WATER STRUCTURES TO THEIR HEXAGONAL SHAPE, LIKE THE SHAPE OF HEALTHY BODY-WATER



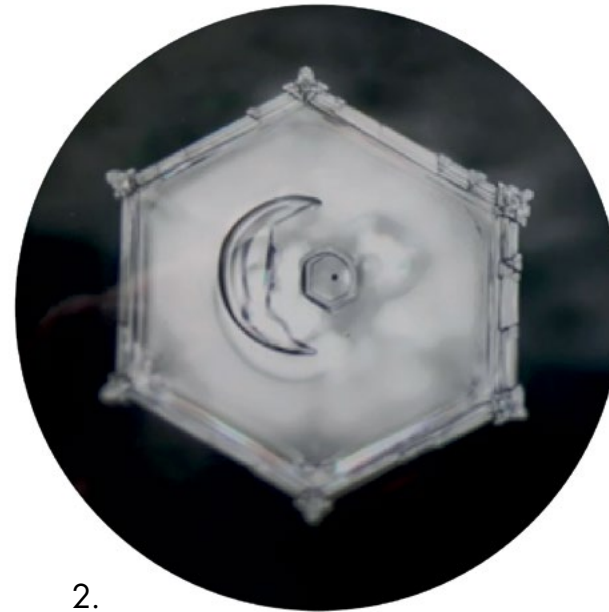
Since 1994, the **Emoto Institute** has been providing evidence that different emitted energy, information and frequencies (music, sound or light) change the water structure by assembling various coherent or non-coherent water crystals. Under the influence of diverse contents (energy, information and frequency) from transmission sources (like BIOPTRON® Quantum Hyperlight), the treated tap **water (as matter) is modified** into the new pattern that is equal to the Quantum Hyperlight pattern - **carrying the same energy structure as its informational Quantum Hyperlight source.** This is the quantum phenomenon whereby the **information is able to modify the matter**, which is confirmed in the Masaru Emoto experiment. When tap water is exposed to BIOPTRON® Quantum Hyperlight, it affects the water structure, modifying it into the same **hexagonal water shape** (like Quantum Hyperlight) that represents the ultimate state of 'molecular coherence'. Analogously to this, Hyperpolarized Light has the same **harmonizing effect on water in the human body.** Since the human body consists of +/- 70 percent of body water, **Quantum Hyperlight could ideally restore and maintain the body water structure to its optimal hexagonal energetic state of coherence, enhancing the healing processes, that leads to homeostasis.**

Emoto's Quantum Hyperlight Experiment



1.

1. Tap-water crystal (molecule) is irregular, incoherent – unstructured, representing 'molecular incoherence', meaning that it is not symmetric to the body water.



2.

2. Emoto's experiment reveals that when tap-water is exposed to BIOPTRON® Quantum Hyperlight, it affects the water structure, modifying it into a hexagonal water shape crystal that represents the ultimate state of 'molecular coherence'.

An Observation Report

Method: 10 minutes of HLPL exposure at a distance of 8 cm

The number of observed ice drops: 50

Observation apparatus: Olympus optical microscope (magnification: x 200)

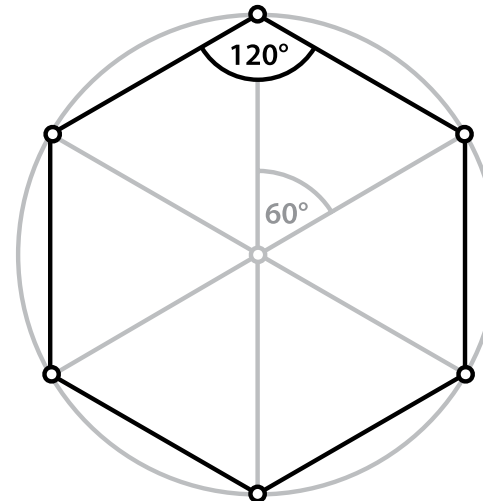
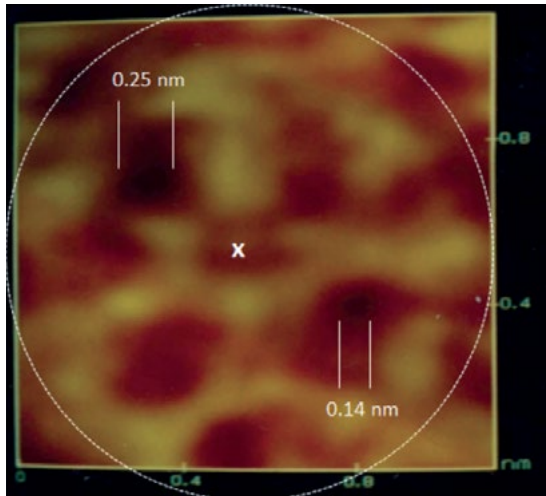
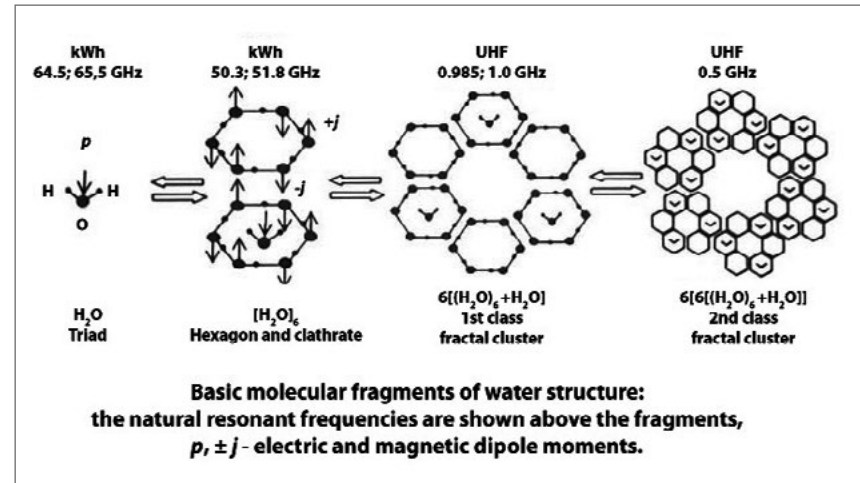
Photographing conditions: freezing temperature: - 25 degrees, freezing time: 4 hours, observation temperature: - 3 degrees

Place & date: Emoto Institute, Japan, March 2018

Graphic represents the healthy body water as structured. Dr. Brill G.E., Saratov – State Medical University, Russia.

Scientific evidence assumes that the hexagonal body water structure is preferred by all biological organisms.

Structured water is involved in the healthy functioning of the DNA, enzyme reactions and numerous metabolic functions. (Ref.: Dr. Mu Shik Jhon, Dr. G. Pollack, Dr. Yang Oh and Gil Ho Kim). Therefore, **Quantum Hyperlight as perfectly harmonized energy-structured light could arrange body water into a healthy structured state of coherence.**



A photograph of fullerene C_{60} , taken by Professor Dr. Djuro Koruga and his team of researchers with a scanning tunneling microscope (STM) at the Nano Laboratory of the University of Belgrade (1992). This photograph confirms quantum mechanical equations governing the hexagonal "openings" of the C_{60} molecule.

BIOPTRON® QUANTUM HYPERLIGHT EXPOSURE: LIVE BLOOD CELL ANALYSIS

Live blood cell analysis (dark-field microscopy) after 10 minutes of BIOPTRON® Quantum Hyperlight exposure

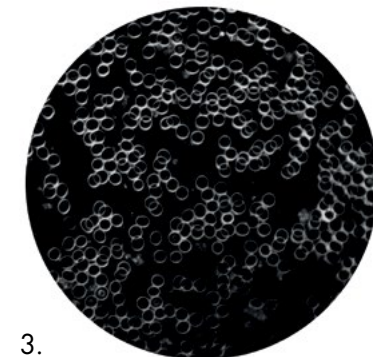
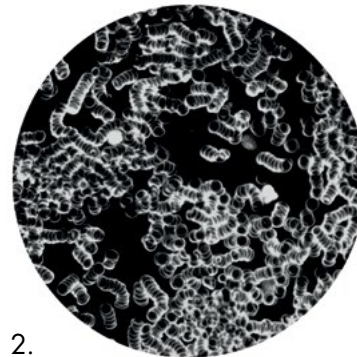
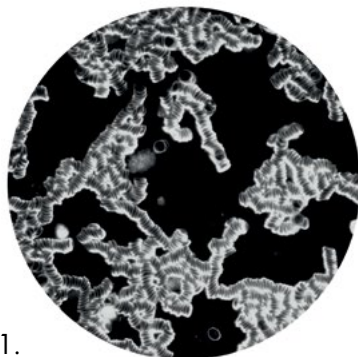
Comparison and evaluation

(Picture 1) Red blood cells are clotted, unordered and inactive (clustered structures), which could reveal or lead to cardiovascular diseases, inflammations and oxygen deficiency at the tissue level (hypoxia).

(Picture 2) After only 10 minutes of LPL exposure, the previous blood formation (clotted, unordered and inactive blood cells), converts (from clustered structures) into separated groups or isolated red-blood cells with significantly improved blood cell condition: better blood flow and increased oxygenation - better regeneration.

(Picture 3) After 10 minutes of Quantum Hyperlight (Hyperpolarized Light) exposure, previous clustered structures change into entirely separated blood cells which embody the entire blood revitalization: from the unhealthy state, microtubules are modified into a torus shape, obtaining the same energy structure as Quantum Hyperlight, the initial natural healthy state, according to the Golden Ratio (see page No. 24). Empowered with such inconceivable light energy (energy, information and frequency), cells move faster (remarkable anti-coagulating effect). **The red cells revive from inactivity into healthy live active cells, proving that HPL has quantum properties – it heals at the quantum level.** The energized blood flows unrestrictedly through the veins, effortlessly conveying oxygen into the vital organs, improving the processes of nutrient transport into the cells, facilitating removal of debris and possibly preventing hypertension, thrombosis (hazardous blood coagulation), stroke, heart attack, inflammation, etc.

BIOPTRON® Quantum Hyperlight can rejuvenate unhealthy cells and recreate vigorous, healthy blood cells (an ideal healthy cell condition and cell formation), all of which are critical to maintain a healthy body.



GENERAL BIOPTRON® HYPERLIGHT FEATURES

1. Brewster's optical unit
2. BIOPTRON® Filters/Optics
3. Low energy light
4. Incoherent light
5. Vertically Linearly Polarized Light
6. Hyperpolarized light

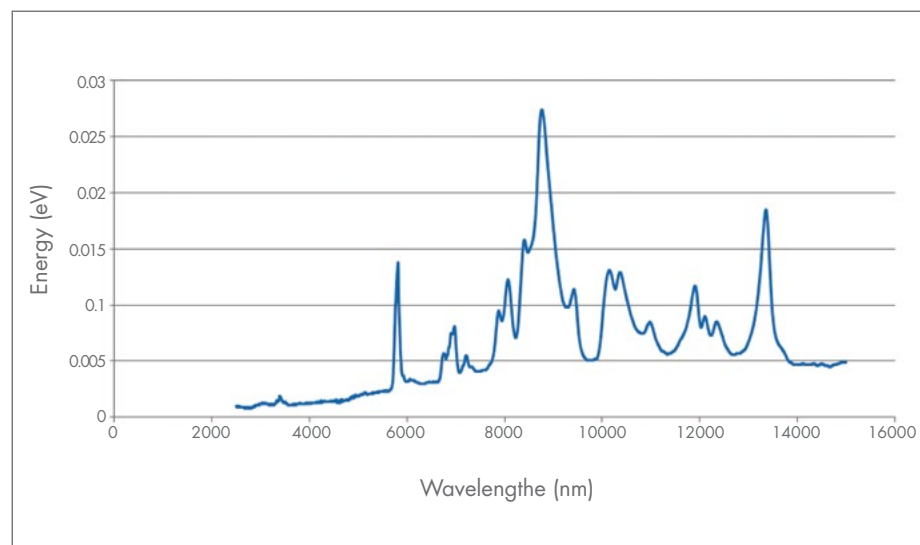
1. BREWSTER'S OPTICAL UNIT

The high-quality Brewster's optical unit is positioned at a specific angle in the BIOPTRON® device. When the diffuse unordered light from the light source collides-interacts with the Brewster's optical unit, it reflects with minimal intensity loss and becomes a perfectly Vertically Linearly Polarized Light (VLPL).

2. BIOPTRON® Medical Filters (filters designed for specific medical conditions)

BIOPTRON® can be equipped with four filters/optics, designed for specific medical conditions.

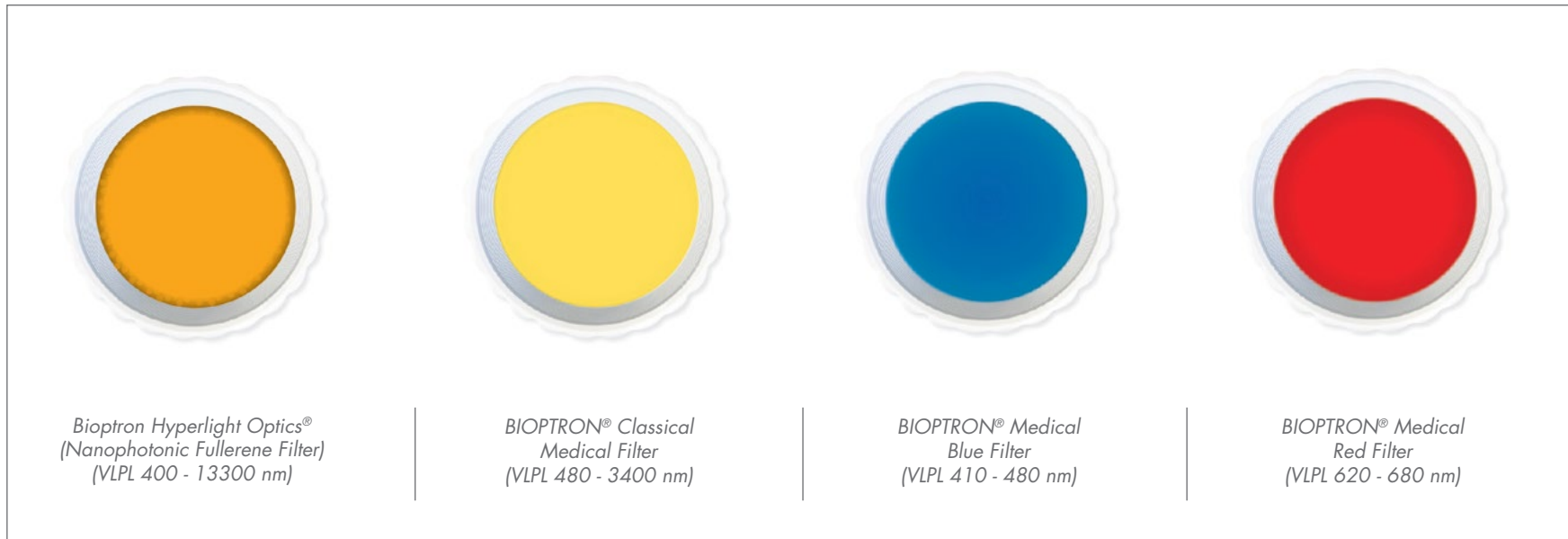
2.1. Biopton Hyperlight Optics® (Nanophotonic Fullerene Filter) - It generates Hyperpolarized light from 400 nm and 10% energy, slowly increases up to 459 nm and 40% energy, further raising up to 480 nm and increasing its energy to 80%, thus reaching the maximum of +/- 550 nm; it has rotation/vibration energy of nanophotonic material with 16 peaks in the range of 3000 nm to 15000 nm. There are three characteristic peaks: 5811 nm (0.0133 eV), 8732 nm (0.0268 eV) and 13300 nm (0.0181 eV) which have significant influence on the quantum state of biological structures (conformational state of biomolecules).



2.2. **BIOPTRON® Classical Medical Filter** (480 nm to 3400 nm, that is 1.15 - 2.90 eV — with a pronounced peak at 720 nm, 1.70 eV). The VLPL penetrates deep into the tissue, activating various cellular and biological processes that **accelerate regenerative and reparative healing processes, maintaining and restoring cells, tissues and organs to their healthy state (30 years of excellent medical results).**

2.3. **BIOPTRON® Medical Blue Filter** (410 - 480 nm) - Vertically Linearly Polarized BLUE Light is used in **dentistry** (to **fight against bacteria/** periodontitis) and in cosmetic branches of aesthetic medicine (to **treat acne vulgaris** or rosacea).

2.4. **BIOPTRON® Medical Red Filter** (620 - 680 nm) - Vertically Linearly Polarized RED Light penetrates deep into the body, greatly reducing pain. Exposure to such light activates the analgesic systems of the brain. Sensitivity to pain and painful edema decrease, while microcirculation improves. **It treats muscle pain and rheumatoid arthritis and it is effective for use in physiotherapy.**



In addition to medical filters, BIOPTRON® can be equipped with orange, yellow, indigo and violet filters

3. Low Energy Light

BIOPTRON® delivers a consistent stream of light with a steady intensity (also known as power density) of abt. 40 mW/cm² at a distance of 10 cm from the treated area. The dosage of BIOPTRON® Quantum Hyperlight can be precisely determined. It has two components, power and time: Energy (J) = Power (W) × Time (s) (the Bunsen-Roscoe rule of reciprocity in photobiology). This light emission delivers a dose of light equivalent to an average energy density of 2.4 J/cm² per minute. This represents a **low and safe dosage of light energy** with a great response in the living matter that **stimulates natural healing with no side effects**.

Quantum Hyperlight lux with an optimal specific power density of 40 mW/cm² and an energy density of 2.4 J/cm², predominantly covers the electronic energy states of biomolecules from 1.4 to 3.4 eV.

4. Incoherent Light

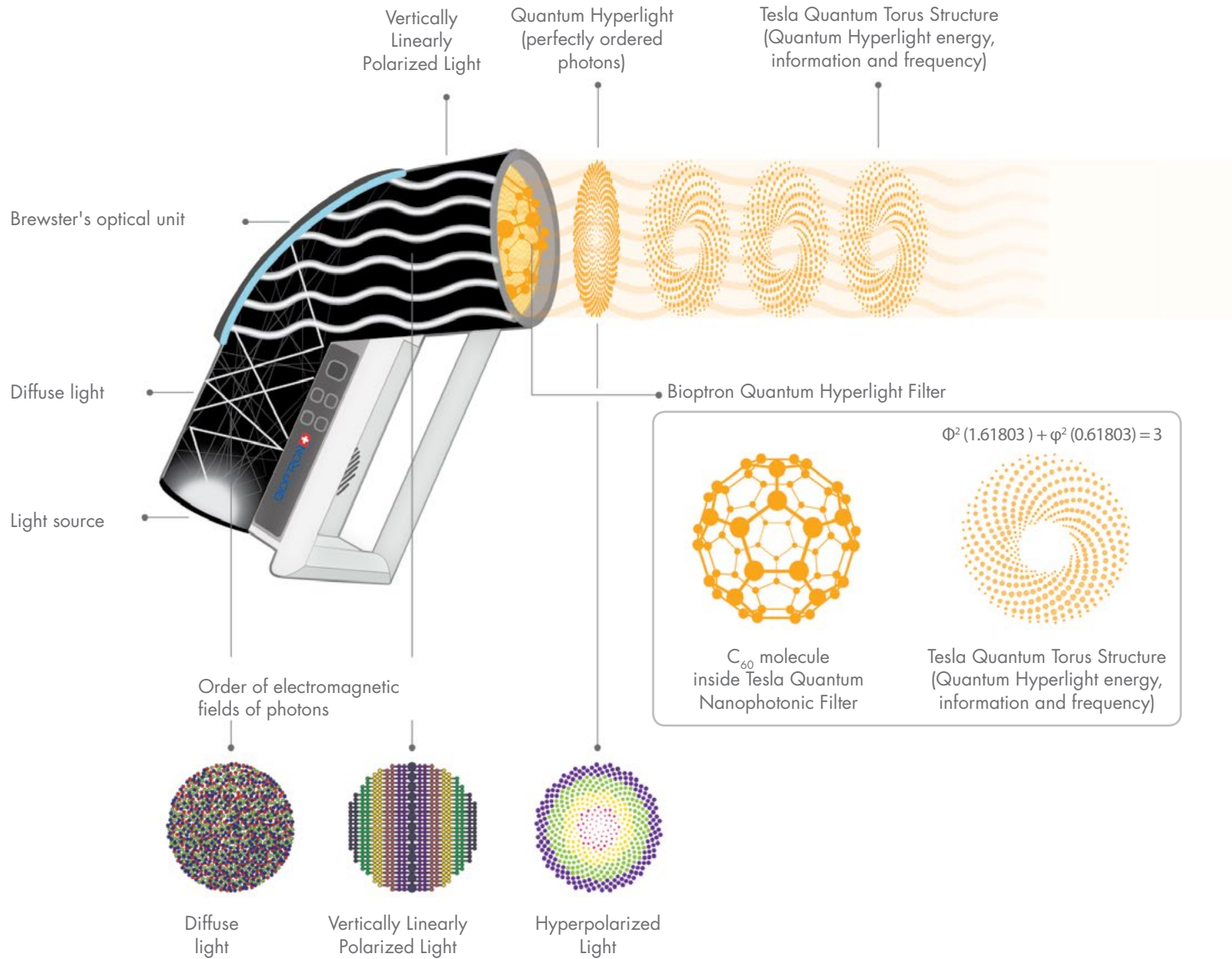
Quantum Hyperlight is an Incoherent Light (out-of-phase or unsynchronized light), characterized by light waves that are not temporally or spatially synchronized. Frequent and random changes of phases between light photons of different wave frequencies and wavelengths make this a low-intensity light. BIOPTRON® incoherent light promotes **safe, non-invasive and effective healing processes** without the risk of developing resistance to the therapy. In contrast to this, most laser lights have a high intensity, coherent light which has a high potential for tissue damage.

5. Linearly Polarized Light

Vertically Linearly Polarized Light (see page number 23).

6. Hyperpolarized light

BIOPTRON® Quantum Hyperlight

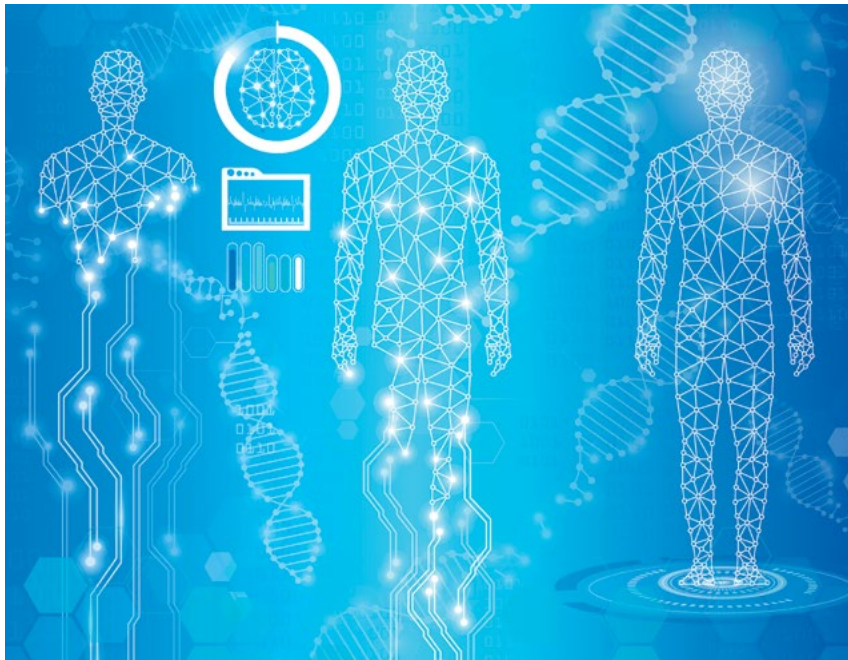


Generating Quantum Hyperlight with Quantum Nano Properties

1. When diffuse light (emitted by a halogen bulb), collides/ interacts with the Brewster's optical unit, it reflects and becomes a **Vertically Linearly Polarized Light (VLPL)**.
2. When such VLPL passes through the Bioptron Hyperlight Optics®, it becomes **unprecedented**, perfectly-ordered **Hyperpolarized Light**, called Quantum Hyperlight.

VLPL interacts with C_{60} (integrated in the optics), which twists at a near-inconceivable 18 billion times per second. C_{60} reflects from each other without friction (paramagnetic and diamagnetic properties). As a result of VLPL interactions with twisting C_{60} , VLPL photons change their orientation:

- a. the 20 hexagons in C_{60} obtain the Faraday's effect (the plane of photon polarization rotate in hexagons), and
- b. the 12 pentagons in C_{60} obtain the Fibonacci-sequential effect (the plane of photon polarization rotates and twists in all directions in pentagons).



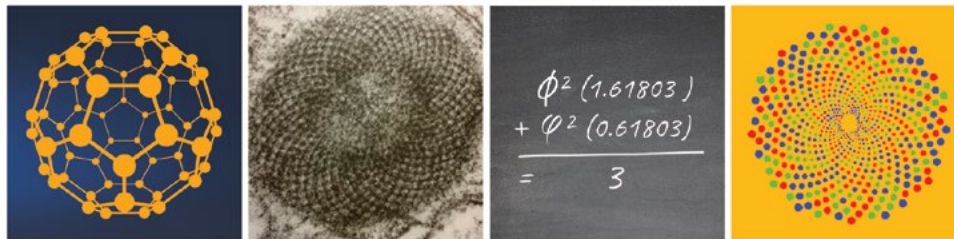
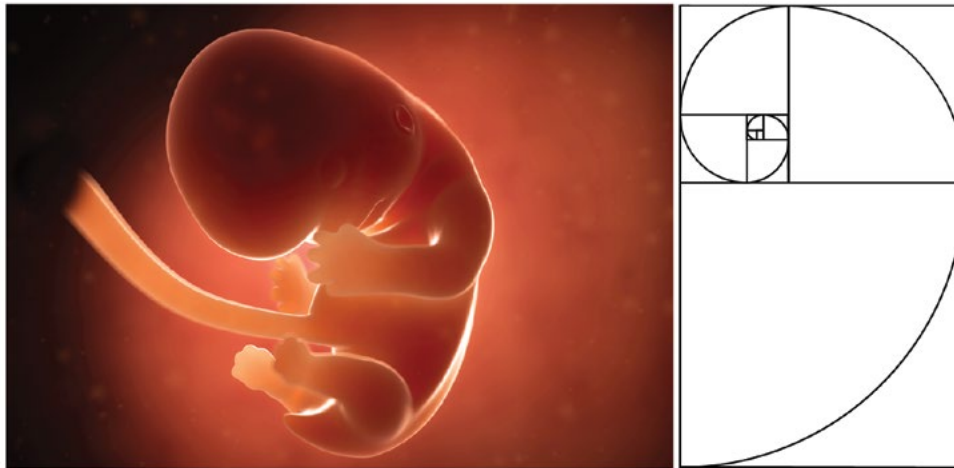
Thus, the photons' electrical plane of polarization changes position step-by-step, from Vertically Linearly Polarized Light (VLPL) into Hyperpolarized Light that has circular left and right polarization and Linearly Vertical and Horizontal polarization ("sunflower photons pattern"). This unique photon pattern, arranged by the Fibonacci Law, is the ideal energy-structure/symmetry that is fully compatible with our biostructures.

Due to its quantum properties, Quantum Hyperlight is unstoppable and unlimited, transmitting its energy, information and frequency through non-covalent bonds and the body's Living Matrix* of biomolecules, cells and organs. Through the Resonance principles, Quantum Hyperlight can maintain and restore the disturbed biological structures, bringing them into homeostasis (natural healthy state).

** (Living Matrix Connective Tissue concept by biophysicist James L. Oschman)*

FIBONACCI SEQUENCE

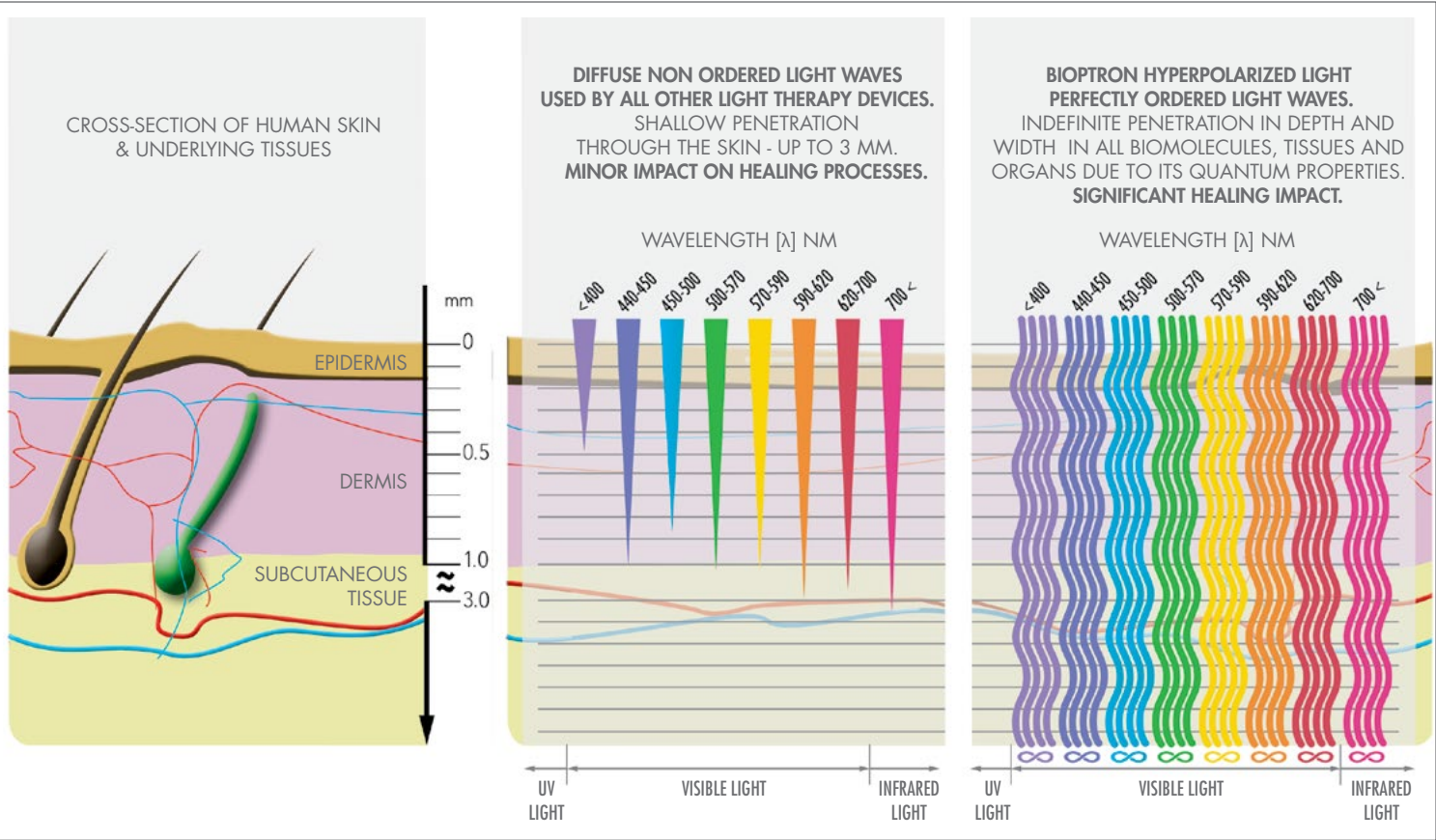
In mathematics, the Fibonacci numbers are an integer sequence, called the Fibonacci Sequence, and characterized by the fact that every number, after the first two, is the sum of the two preceding ones: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144... Around 1200 AD, the mathematician Leonardo Fibonacci discovered the unique properties of the Fibonacci sequence. This sequence directly relates to the Golden Ratio. It can be applied to the proportions of a rectangle, called the Golden Rectangle. This is known as one of the most visually satisfying of all geometric forms: hence the appearance of the Golden Ratio in art (e.g., the Mona Lisa and the Last Supper).



75% of the biomolecules are arranged in accordance with Fibonacci sequence, which resembles the look of Fibonacci's spiral – the Golden Ratio.



DISTINCTION IN LIGHT PENETRATION AND THE HEALING EFFECTS OF DIFFERENT KINDS OF LIGHT



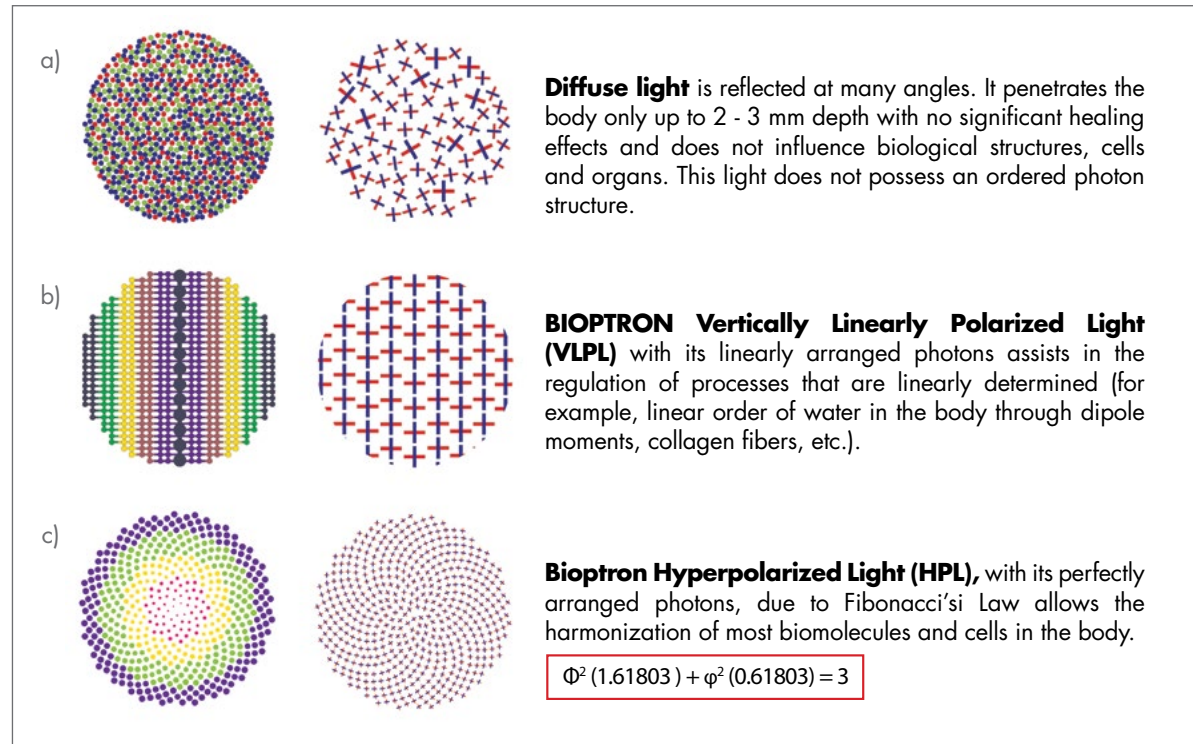
In general, the penetration of light depends upon both tissue type and the kind of light.

Penetration of Diffuse Light and Its Health Efficiency

Diffuse light is chaotic, with the disordered electromagnetic fields of photons. This “chaos” acts disorderly on body water molecules with its dipole moments and on biomolecules with its positive and negative charges (their reunion again creates dipole moments). Diffuse light penetration is limited with no efficient healing effects. The benefit of diffuse light to repair imbalances exists, but is of minor importance for healing.

VLPL Penetration and Its Health Efficiency

VLPL, with its linearly arranged photons, assists in the regulation of processes that are linearly determined and has the ability to arrange body water and dipole moments of biomolecules (for example, linear order of water in the body through dipole moments, collagen fibers, etc.). VLPL penetrates some tissues to a depth of up to 2 - 10 mm. When the tissue is rich in water, the penetration is as deep as 20 mm. Vertically Linearly Polarized Light achieves much deeper and wider penetration than diffuse light, with efficient healing effects. Due to its linear character, if VLPL encounters denser obstacles, it will be absorbed by the tissue, thus bringing therapeutic healing effects to the organism.

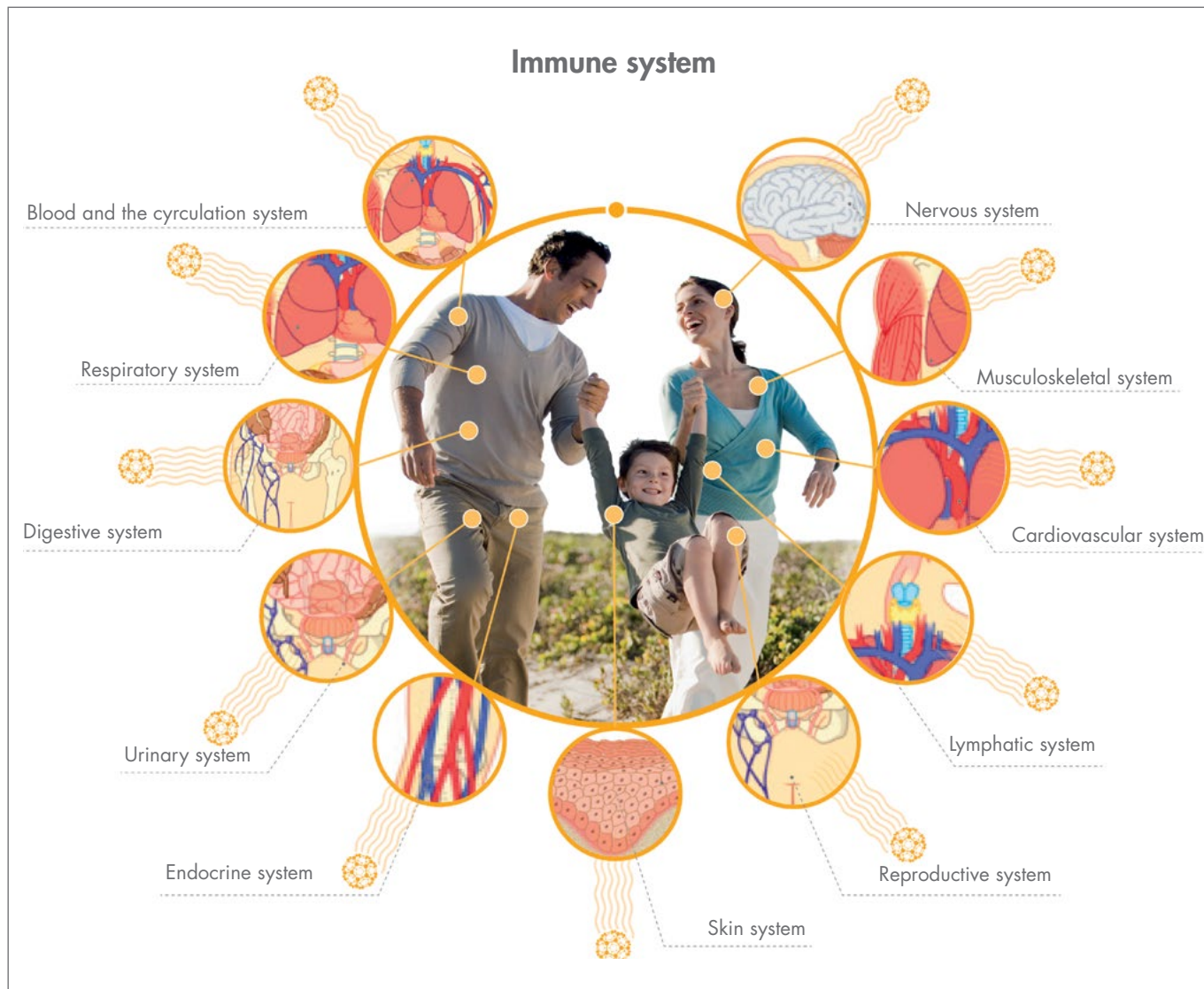


BIOPTRON® Quantum Hyperlight - Penetration and Its Health Efficiency

Quantum Hyperlight as a unique quantum light with its perfectly ordered photons, according to the Fibonacci Law, penetrates deep into the body. According to the Fibonacci Law $\Phi^2 (1.61803) + \varphi^2 (0.61803) = 3$, **dipole moments and biomolecules and electromagnetism in tissue have the same arrangement as Quantum Hyperlight photons, making it fully compatible with biological structures.**

Quantum Hyperlight communicates with the molecules, cells and tissues, conveying the ideal C_{60} harmony and its energetic state, inducing harmonization and equilibrium in energetically disturbed biological structures, accelerating natural healing processes. At the same time, because of the perfect Quantum Hyperlight symmetry, biomolecules directly absorb the energy necessary for life that results from the electrical and magnetic characteristics of Quantum Hyperlight. In effect, under its influence, the cell is stimulated to heal itself, regaining its natural equilibrium and energetic properties.

BIOPTRON® QUANTUM HYPERLIGHT IS RECOGNIZED AS A UNIQUE METHOD OF TREATMENT FOR DIFFERENT MEDICAL INDICATIONS



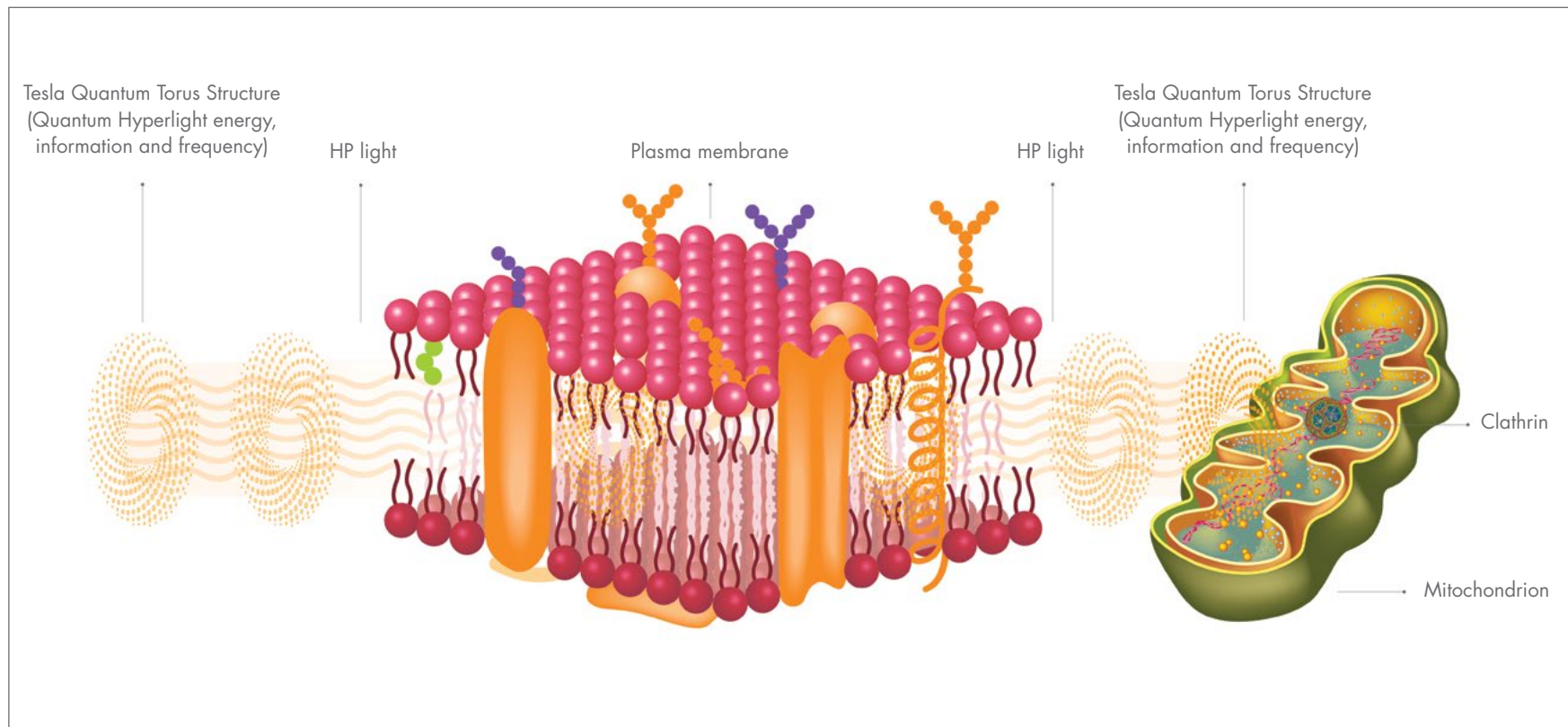
Information:

We recommend consulting a physician before using BIOPTRON® Hyperlight therapy in order to receive professional advice as to whether this treatment is advisable or some other medical treatment may be necessary. Due to the Quantum properties, the list of medical conditions that can be treated with Quantum Hyperlight is long. It can be used efficiently in all medical branches and for all parts of the body [Ref. 2.5-13.4]. **The duration of daily treatment for each disease is usually 4 - 10 minutes per zone of treatment, once or twice a day.**

According to BIOPTRON® scientific research:

1. Quantum Hyperlight maintains cells, **delaying** the apoptosis process (natural **cell death**). It has been shown that Quantum Hyperlight stimulates cell plasma membranes to **promote an optimal healthy state of the cell**.
2. Quantum Hyperlight maintains cell functions, reducing the number of necrotic cells, thus **reducing the necrosis processes** (premature cell death) [Ref. 12.6].

When Quantum Hyperlight is applied, it penetrates the plasma membranes of dysfunctional cells and creates a spatial rearrangement of their structural components; **it maintains and restores cells in the whole body into their natural, healthy state.**



THE MAIN THERAPEUTIC EFFECTS OF BIOPTRON® QUANTUM HYPERLIGHT:

1. Quantum Hyperlight stimulates tissue self-repair processes and prevents tissue degradation (even for deeper systems, such as nerves, tendons, cartilage, bones, and internal organs).

Below are a few health effects of the therapy we provide:

- Improved regulation of cellular proliferation
- Enhanced cellular energy
- Release of growth factors
- Excellent neovascularization and promotion of angiogenesis
- Accelerated wound healing (by increased RNA and protein synthesis, particularly the production of collagen and elastin)
- Significant improvement in the quality of scar tissue
- Stimulation of nerve functions
- Increase in cellular oxygenation and detoxification

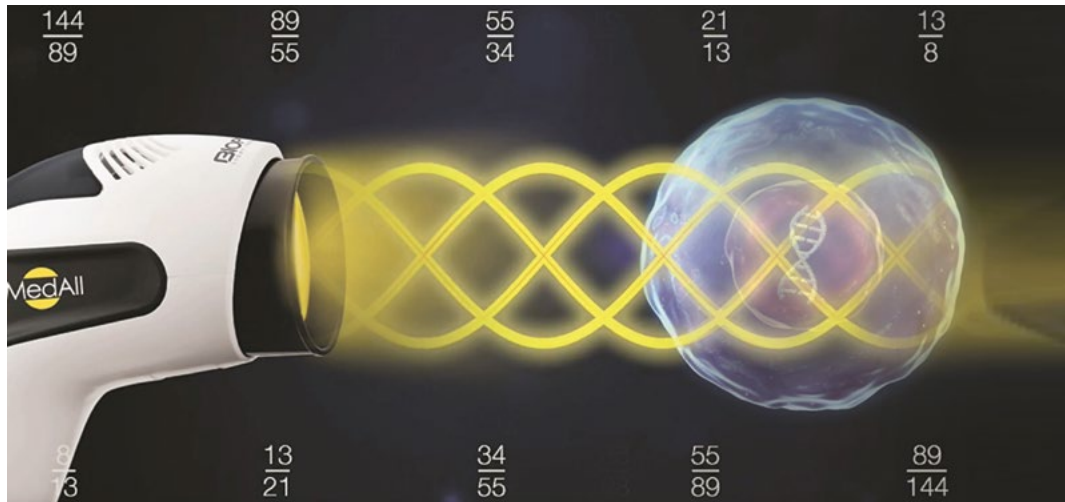
2. Stimulates the body's natural defense mechanisms

- Eradicates pathogenic microorganisms (acne vulgaris, herpes simplex and zoster viruses)
- Activates natural killer cells

3. Significantly reduces the pain sensation

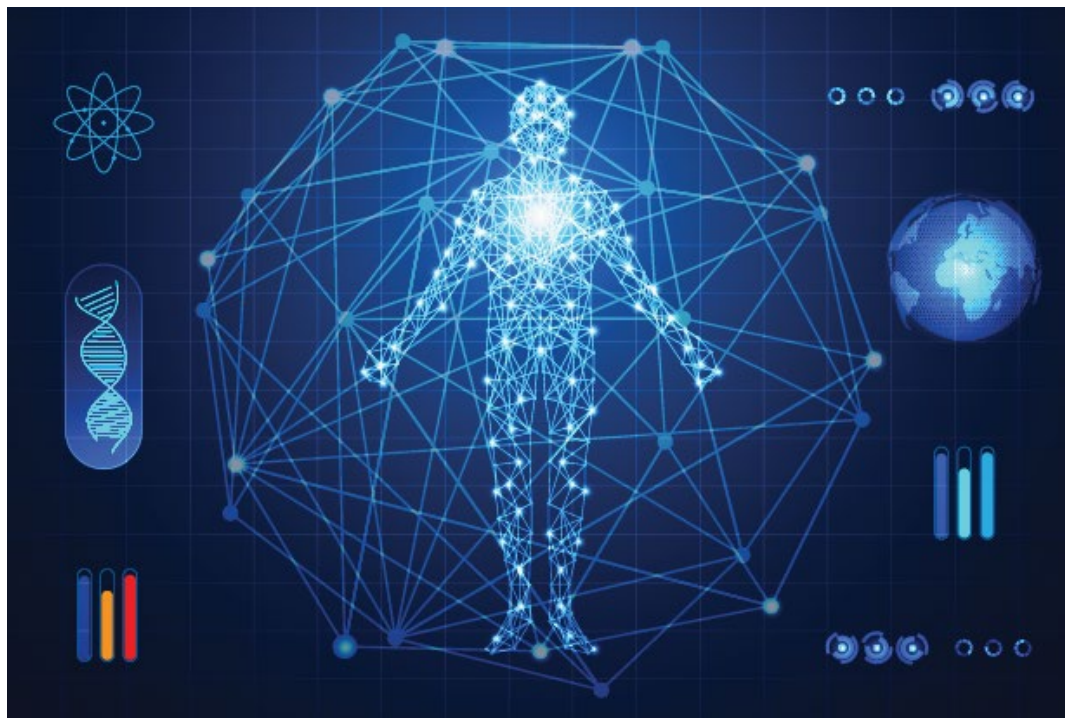
- Reduces swelling and hematomas as well as the resolution of inflammation caused by injuries and autoimmune diseases
- Improves deep microcirculation
- Reduces muscle spasms
- Decreases pain transmission by direct action on peripheral nerves

4. Quantum Hyperlight thermo-sensory and opto-sensory stimulation has sensory and neural effects that can reduce the symptoms of SAD and non-seasonal depression. It can be sensed by the skin (thermo-sensory stimulation) as well as by photoreceptors in the eye (opto-sensory stimulation).



Quantum Hyperlight accelerates the healing processes - it promotes deep microcirculation and cell biostimulation at the quantum level, and in this way improves the body's defence system.

Due to its quantum properties, Quantum Hyperlight has a positive and long-lasting effect not only on the treated area, but also on the whole body.



The results:

- Light is absorbed by living tissues, increasing the level of ATP (adenosine triphosphate), which improves the cell metabolism
- Increased cellular energy
- Increased deep microcirculation and cell biostimulation
- Increased protein synthesis (production of collagen and elastin)
- Reduced swelling and inflammation
- Reinforces the body's defence system
- Stimulates regenerative and reparative processes in all biological structures
- Significant acceleration of wound healing
- Relieves pain or decreases its intensity - efficient natural analgesic, no side effects

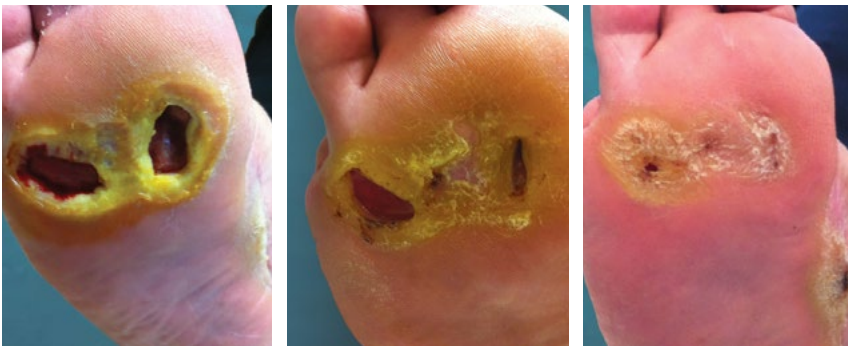
BIOPTRON® QUANTUM HYPERLIGHT FOR WOUND HEALING

BIOPTRON® Quantum Hyperlight significantly reduces the time required for complete epithelialization (dermal regeneration) of damaged skin and reduces scar formation. It helps to **accelerate the healing time and reduces the length of hospital stays while improving life quality.**

Conservative approach to deep dermal burn wounds with BIOPTRON® Light Therapy



RETROAURICULAR EXULCERATION: Healing was achieved after seven weeks of BIOPTRON® Hyperlight treatment.



ULCERA PEDIS: Diabetes mellitus healing [A1] was achieved after nine months with BIOPTRON® exposure.



Start therapy

After 12 days

After 15 months

Monstrey et al (2002a)



Start therapy

After 15 days

After 19 days

After 29 days

After 9 months

Monstrey et al (2002b)

Hyper Light in the treatment of 2nd degree burn



The first day

The third day

The fifth day

The seventh day

A second degree burn was caused by hot cosmetic wax. HL was applied for 7 days and complete healing occurred in 14-21 days. Wound healing of this kind normally takes up to 40 days.

Source: Dr Biljana Lucic and Dr Milica Komnenic, ZEPTER MEDICAL General practice, Belgrade

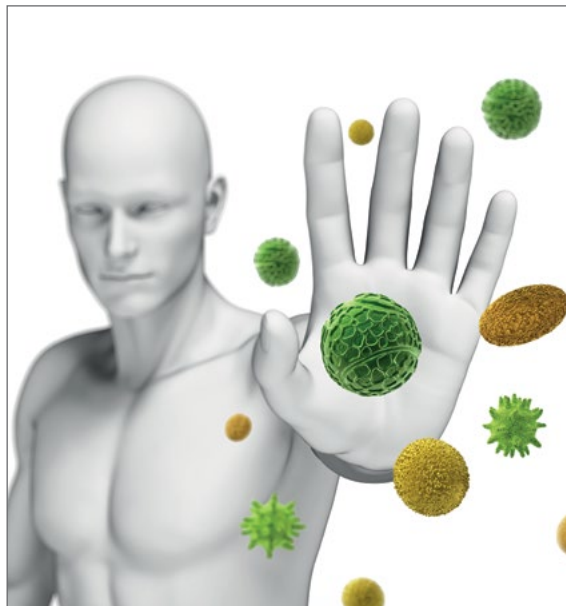
Less hypertrophic scarring and superficial second-degree burns can be treated with conventional local medical treatments in combination with Quantum Hyperlight treatment. Several studies have shown that the routine use of Quantum Hyperlight for the treatment of these burns can significantly reduce the time necessary for complete epithelialization (regeneration of the skin) of the damaged skin (complete healing), reducing the risk of scar formation that is functionally and aesthetically unacceptable. Further, Quantum Hyperlight can reduce the need for surgery in the treatment of deep dermal burns, particularly those located in the areas where the likelihood of scar formation after surgery is extremely high.

Quantum Hyperlight is a highly valuable choice of treatment in avoiding surgery in patients with deep dermal burns:

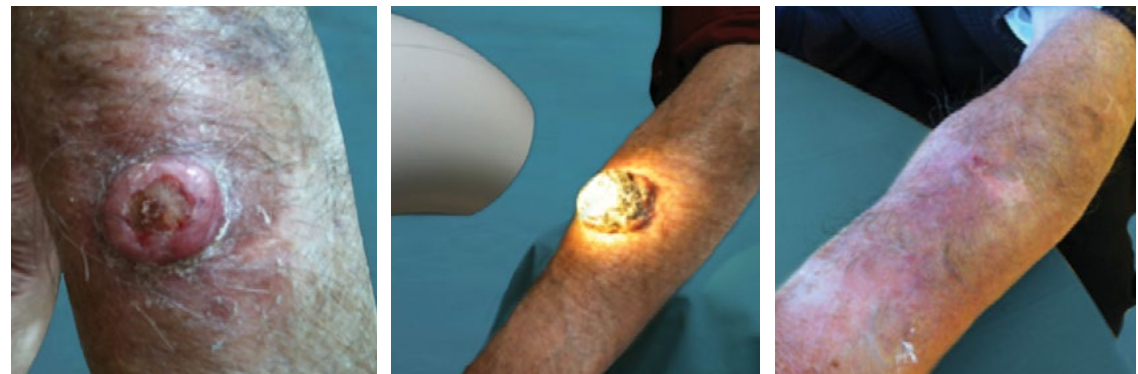
- No operation risks
- Less pain
- No skin grafts needed

These wounds often require the surgical removal of dead tissue and transplantation of the skin (skin grafting).

BIOPTRON® QUANTUM HYPERLIGHT AS A NATURAL IMMUNE BOOSTER



Quantum Hyperlight activates nonspecific cellular and humoral immunities by several means. It first eradicates pathogenic microorganisms (acne, for example) and stimulates natural killer cells [Ref. 6.1 - 6.27].



14. November 2011

29. November 2011

14. April 2011

SKIN TUMOR: Treatment with BIOPTRON® Quantum Hyperlight (Courtesy of Dr. Surböck, Mariazell)



BIOPTRON® QUANTUM HYPERLIGHT FOR PAIN RELIEF

Quantum Hyperlight significantly reduces one's pain sensation [Ref 7.1 - 7.22], swelling and hematomas, and reduces inflammation caused by injuries, degenerative diseases or autoimmune diseases. One can experience improved microcirculation, reduced muscle spasms and the activation of natural pain-killing processes.

In the field of pain treatment, HLPL can be used as a monotherapy and/or a complementary therapy in the following cases:

- **Rheumatology:** osteoarthritis, rheumatoid arthritis (chronic), and arthrosis
- **Physiotherapy:** lower back pain, shoulder and neck pain, carpal tunnel syndrome, scar tissue, injuries of the movement apparatus-locomotor systems
- **Sports medicine:** injuries to the soft tissues or muscles, tendons and ligaments: muscle cramps, sprains, strains, bruises, tendon inflammations, ligaments and muscle tears, tennis elbow



Quantum Hyperlight importantly optimizes muscle metabolism, accelerates tissue development in athletes and promotes healing after sports injuries, thus reducing one's downtime [Ref 5.1 - 5.8). It is effective for: muscle spasms, sprains, strains, tendonitis, ligament and muscle tears, contusions, tennis elbow/golfer's elbow, shoulder rotator cuff strain, calf and hamstring injuries, back pain, swelling, spasms and knots, neck pain, pre and post-training stiffness, plantar fasciitis, etc.

BIOPTRON® QUANTUM HYPERLIGHT IN DERMATOLOGY/SKIN DISEASES

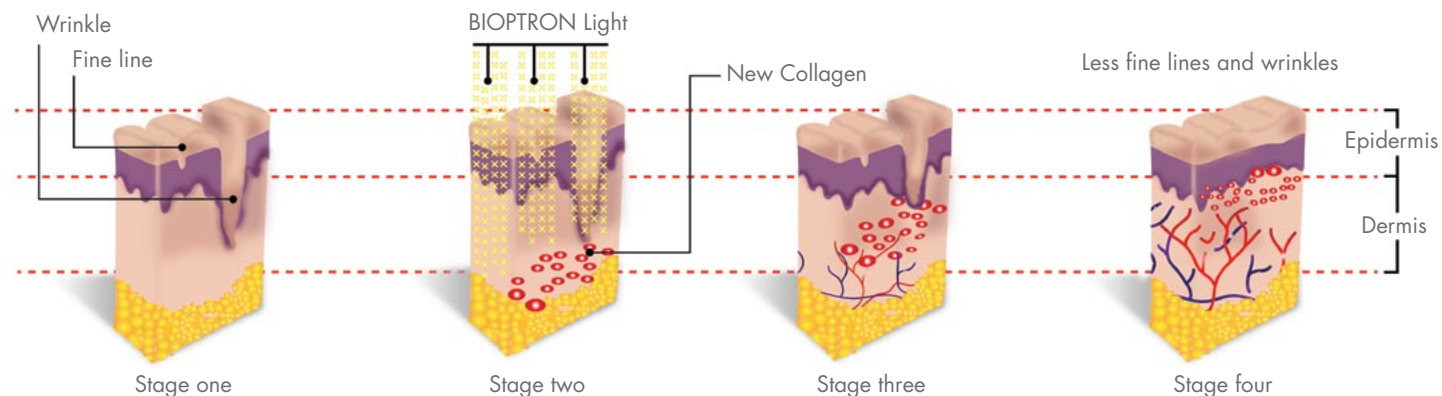
BIOPTRON® QUANTUM HYPERLIGHT can significantly help to heal skin diseases [Ref 4.1 - 4.5].

These include: atopic dermatitis, herpes simplex, herpes zoster, psoriasis, eczema, rosacea, mucosal injuries, acne and surface bacterial infections. HLPL stimulates tissue self-repair processes and prevents tissue degradation (even of deeper structures, such as nerves, tendons, cartilage, bones and internal organs).

- Improves the body's regulation of cellular proliferation
- Enhances cellular energy
- Releases growth factors
- Enhances neovascularization and promotes angiogenesis
- Accelerates wound healing (by increased RNA and protein synthesis, particularly the production of collagen and elastin)
- Improvement in the quality of scar tissue, Quantum Hyperlight accelerates wound and burn healing, making it up to twice as fast, at the same time reducing pain, discomfort and scarring [Ref. 3.1 - 3.16]

In the field of wound healing, it could also help as a complementary therapy for the following conditions: post-surgical wounds, burns, transplants, healing after trauma, venous ulcers (stasis ulcers), pressure ulcers, skin grafts, venous leg ulcers (stasis ulcers), decubitus (pressure) sores, diabetic foot ulcers.

The main mechanism of Quantum Hyperlight and its influence on healing wounds without scarring is related to the orthogonal arrangement of collagen type I and III with collagen type VII in the basal membrane. At the quantum level, it stimulates the basal membrane very rapidly, which reduces, prevents and averts the formation of scars.





BIOPTRON® QUANTUM HYPERLIGHT FOR DERMATOLOGICAL SCALP AND HAIR DISORDERS

Quantum Hyperlight stimulates the immune system and stabilizes the production of keratinocytes, whilst minimizing the occurrence of scaly, flaky scalp patches and eliminating dryness of the scalp. Quantum Hyperlight brings back hair shine and **strengthens hair follicles**. Early clinical testing has demonstrated a **60% reduction in hair loss during only one month of treatment** [Ref. 14.1 - 14.3].



BIOPTRON® QUANTUM HYPERLIGHT IN AESTHETICS & ANTI-AGING

Quantum Hyperlight slows down the skin's natural ageing process. It stimulates specific cells in the skin known as fibroblasts which produce collagen and elastin and is a natural **rejuvenation treatment for the skin** [Ref. 13.1 - 13.7].

Our product **reduces both fine and deep wrinkles by stimulating elastin and collagen production**. The effect is a rejuvenation of the skin via a smoother complexion.

The **BIOPTRON**[®] **Quantum Hyperlight spectrum** promotes a series of soothing processes in the skin:

The 900 nm promotes peripheral vasodilatation, improving **deep skin circulation**.

The 830 nm provides protein delivery to mastocytes, which are associated with **tissue repair**.

The 660 nm stimulates collagen production and thus contributes to tighter, **firmer skin and reduces traces of ageing**.

The 633 - 640 nm stimulates the production of adenosine triphosphate (ATP, the molecule that transfers energy to cells). The increase in cell activity stimulates **skin repair along with the regeneration processes and combats the appearance of fine wrinkles**.

The 590 nm stimulate the formation of new blood vessels, helping the **skin maintain its moisture and retain its elasticity**.

525 nm **eliminates melanosomes** (skin cells that contain melanin).

The Quantum Hyperlight wavelengths of more than 400 nm penetrate into the layers of the dermis and epidermis by interacting with lymphocytes, **strengthening the immune system as well as skin repair processes. Regeneration and tensioning the skin for a visibly younger appearance**.



BIOPTRON® BLUE VERTICALLY LINEARLY POLARIZED LIGHT (VLPL) IN DENTISTRY - ADJUVANT ORAL TREATMENT



The **BIOPTRON®** Vertically Linearly Polarized Light efficiently fights oral infections and/or inflammation, **stimulating elastin and collagen production for faster oral healing** [Ref. 8.1].

Clinical Research Box [Ref. 8.2]: Clinical studies have shown that **BIOPTRON®** Blue VLPL applied into the oral cavity for ten minutes during five consecutive days **significantly reduces plaque formation** in adult dental patients. Besides, phototherapeutic treatment of dental diseases of various etiopathogenesis with **BIOPTRON®** blue spectrum showed positive influences on immune cells (T-lymphocytes for cell immunity), increased the local concentration of immunoglobulins (B lymphocytes for humoral immunity) and stimulates the proliferation of fibroblasts for the formation of collagen and stimulated angiogenesis (the formation of new blood vessels).

In patients with parodontium - dental orthodontic diseases, the treatment with **BIOPTRON®** Blue VLPL for 4-6 minutes for a duration of 8-10 sessions shortened an individual's recovery time and reduced the consequences of cryotherapy and facilitated epithelization by 1.5 to 2 times.

More importantly, **BIOPTRON®** Blue VLPL reduced drug load and local anesthesia and induced local regenerative and immunostimulating actions. Taken together, these observations contribute to the **improvement of the treatment quality and shorten a disease duration**. **BIOPTRON®** Blue VLPL has the following properties: **antibacterial and antiviral action, it accelerates healing processes** after oral surgery, supports the periodontal regeneration process after clinical therapy (periodontal disease and dental plaque), **reduces swelling, increases tissue regeneration and assists in orthodontal pain reduction**.

BIOPTRON® QUANTUM HYPERLIGHT FOR SEASONAL AFFECTIVE DISORDER (SAD)

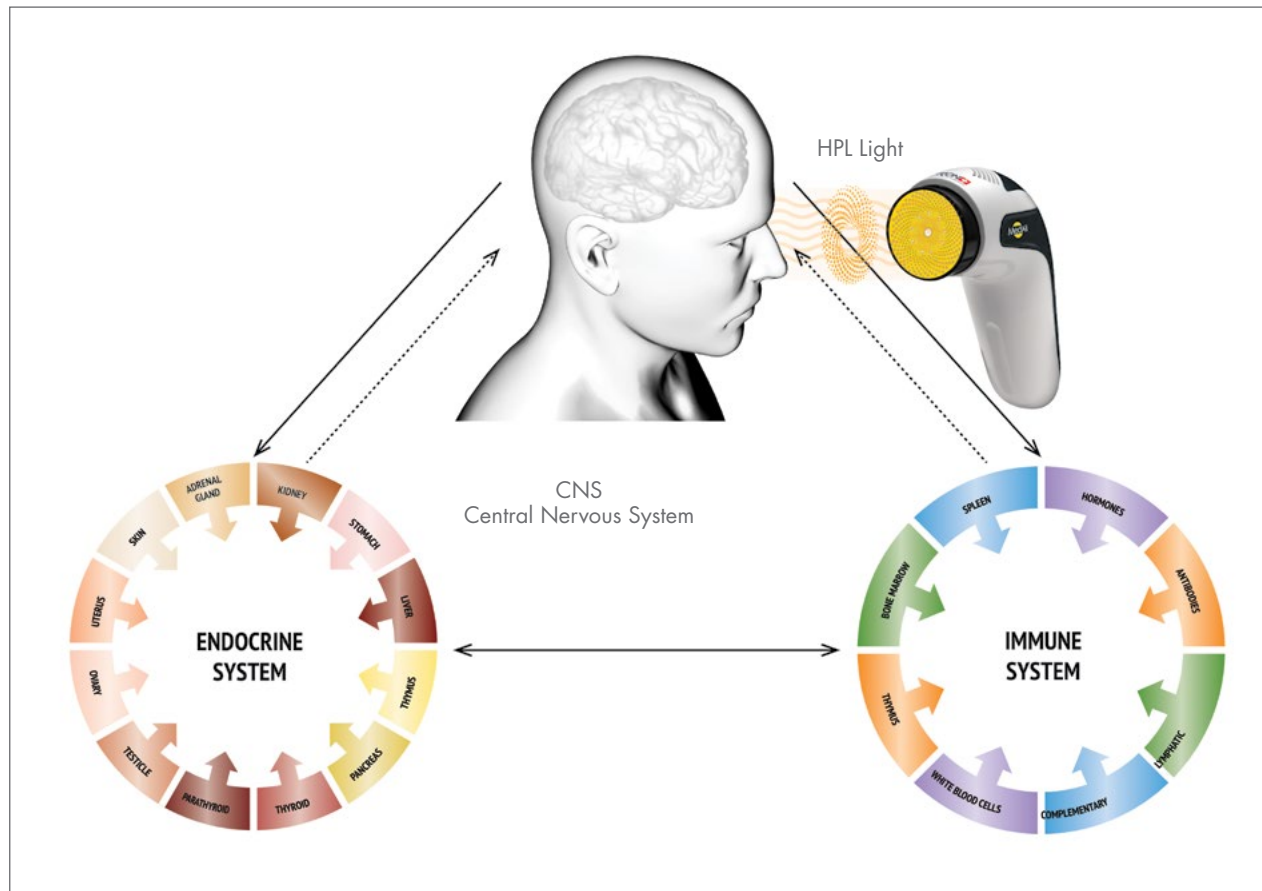
BIOPTRON® Quantum Hyperlight is medically approved and ideal for the treatment of seasonal depression. This system can be used as a monotherapy or in combination with other medical treatments.

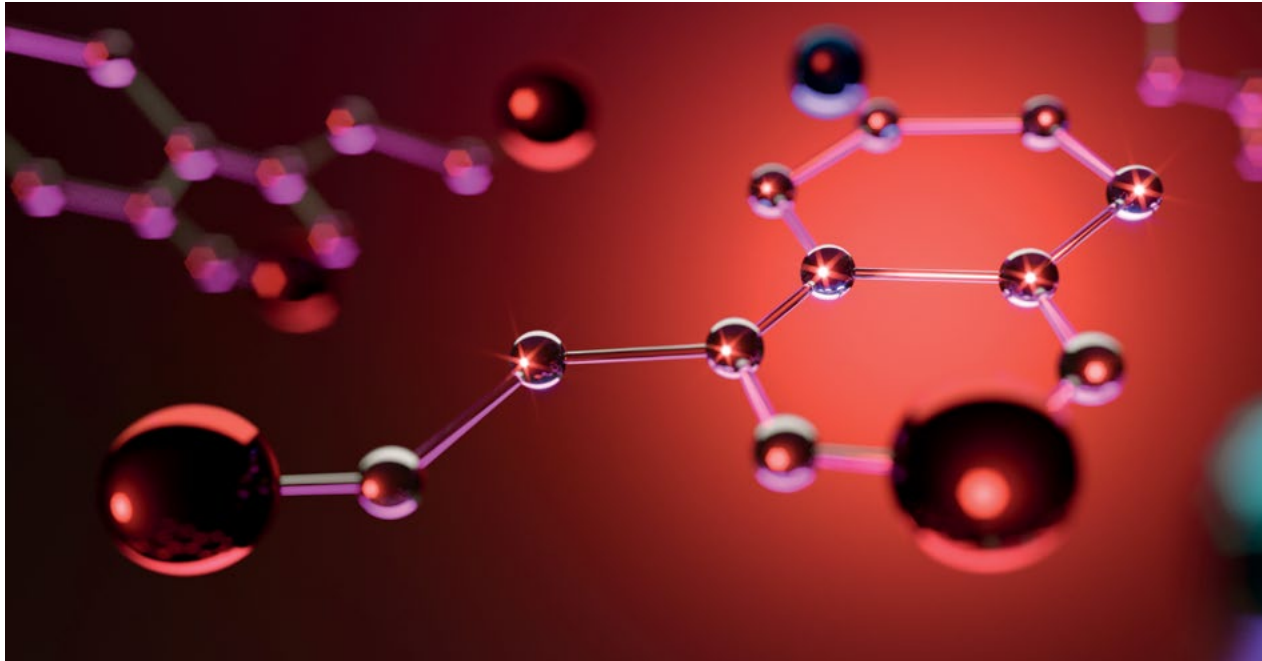
Skin-sensory and optic-sensory stimulation light deprivation and consequently the disruption of the circadian rhythm is associated with the increased risk of serious psychological disorders, including depression.



Quantum Hyperlight has sensory and neural effects that can reduce the symptoms of seasonal affective disorder (SAD) and non-seasonal depression: it has an intensity of more than 10,000 Lux. Conventional light therapy devices provide a light intensity of 10,000 light units (called Lux). A daily treatment of about 30 minutes is considered effective.

The light intensity in all BIOPTRON® products (BIOPTRON® MedAll, BIOPTRON® Pro 1 and BIOPTRON® 2) exceeds 10,000 Lux. As a point of comparison, the luminance of standard room light is approximately 500 Lux; a cloudy day equals up to 5,000 Lux and mid-day summer sunlight reaches at least 50,000 Lux [Ref. 9.1-9.6].





Clinical Research Box:

The scientific studies have shown that there is a change in the EEG signal under the influence of medical Quantum Hyperlight and that this effect can be used to alleviate depression or help in its treatment.

Exposure:

20 - 40 min. = 20 cm distance,
40 - 60 min. = 30 cm distance or
60 - 120 min. = 40 cm distance.

The BIOPTRON® pilot study on the neuroendocrine effects of HLPL in the domain of visible and infrared light has shown positive effects. Researchers have investigated the effects of Quantum Hyperlight through the neuroendocrine-immune system on general blood parameters (red and white blood cells, hemoglobin, potassium, sodium, etc.) as well as insomnia, depression, heart rhythm, blood pressure, other parameters and the psychological parameters of personality.

Participants in the study were exposed to BIOPTRON® Quantum Hyperlight in ten minute sessions (3 x per week on the face, with open eyes, at a 40 cm distance). The **results indicated a significant decline in anxiety, even for the subjects within the normal range of values.** There was considerable improvement regarding the somatization of anxiety disorder, i.e. a reduction of cardiovascular, respiratory and digestive symptomatology, as well as **significant improvements in the quality of sleep** (evident by improvements in a person's melatonin levels).

Results showed **increases in serotonin and dopamine levels and decreases in stress hormone.** At the same time, the exposure to such light is beneficial for sleep because of the effects on melatonin, as shown by clinical parameters. As a result, the general recommendation for sleeping problems with the Quantum Hyperlight is five minutes per day at a distance of 40-60 cm.

BIOPTRON® QUANTUM HYPERLIGHT FOR CHILDREN

Quantum Hyperlight can be used for children as a complementary therapy to **reduce pain and promote healing** in various types of conditions, such as: pediatric dermal affections, endogenous eczema, upper respiratory tract infections, allergic respiratory diseases, pediatric musculoskeletal disorders and neurological disorders and deficits. [Ref. 10.1 - 10.4]

Clinical Research Box: Clinical studies of newborn babies in the intensive care unit (including life support systems) with various conditions listed above demonstrated that the exposure to BIOPTRON® Quantum Hyperlight for ten minutes, three or four times daily, improved treatment responses without negative side effects.

Pain was relieved within 24 hours and skin problems decreased within two to three days. The best results have been obtained in the treatment of venous infections [Ref. 10.2].



BIOPTRON® Quantum Hyperlight is also suitable for newborns as well. It can be used in cases of venous infections, after injections, blood collections, fluid or blood infusion, pressure sores in movement-impaired babies, skin rash caused by moist heat, diaper rash.

Quantum Hyperlight therapy can be used to treat yeast infections, skin diseases, phlebitis, decubitus and intertrigo.

Treatment of the eye area should not be performed and blindfolds are provided for children who undergo light therapy.

BIOPTRON® QUANTUM HYPERLIGHT IN VETERINARY MEDICINE

Similar to the medical effects on humans, BIOPTRON® Quantum Hyperlight is also a recommended and **successfully used therapy in veterinary medicine**, in the professional and home care of animals.

BIOPTRON® light therapy ensures fast and effective healing for common, everyday health ailments. It is an easy, effective, non-invasive method of treatment of wounds of different origins, skin problems (e.g., trichophytia, alopecia, bacterial and allergic dermatitis, demodicosis), as well as arthritis pain, problems with cramping syndrome and inflammatory disorders (e.g., otitis externa, mastitis, etc.). Under the influence of Hyperpolarized light, cell disorders can be restored to their natural state, bringing the animal body to a natural energetic equilibrium. [Ref. 11.1 - 11.6].



The images are of a two-year-old horse. The wound was one day old when the treatment started. The course of treatment ended seven weeks later with comprehensive results. The effects reported on biological structures are the same as in humans.



Clinical Research Box:

BIOPTRON® Quantum Hyperlight in cow mastitis treatment, 24 hours after the first exposure, had positive effects and the following results were achieved:

In subclinical mastitis: 40% leukocyte reduction and 43% somatic cell reduction in milk (in relation to baseline).

In clinical mastitis, there were no inflammation symptoms, pain, nor redness; with no need for another exposure and no need for classical antimicrobial drugs.

NOTE: Satisfactory results from veterinary medicine are promising solutions for successful human medicine mastitis treatments (Ref.: 11.7).

TECHNICAL INFORMATION - ADVANCED SWISS TECHNOLOGY AND DESIGN - 3 BIOPTRON® DEVICES

The essence of the BIOPTRON® light therapy system consists of five crucial elements:

1. Light source emits (conveys to Brewster's optical unit) non-polarized, polychromatic and incoherent light,
2. Brewster's optical unit (a patented five-layered optical system) provides vertical linear polarization of up to 95%,
3. Safety glass,
4. Patented BIOPTRON® Filters/Optics that generate unique BIOPTRON Hyperlights (see page 19),
5. Special certificates for medical devices.

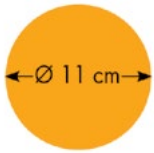
There are three models of the BIOPTRON® device: BIOPTRON® 2, BIOPTRON® Pro1 and BIOPTRON® MedAll.

All BIOPTRON® devices include the same physical characteristics of light and therefore the same beneficial medical effects on the human body. Devices only differ in design and individual treatment area and size.



The BIOPTRON® 2 therapy device is primarily designed for use by health professionals in medical facilities. We offer three different stands (home, professional and wall-mounted) to assure the best space-saving and practical solutions. The device can be positioned so as to ensure comfort for both the patient and medical staff.

The control panel allows the operator to easily program treatment sessions lasting up to 95 minutes, divisible into one-minute increments. The filter diameter (approx. 15 cm) permits the treatment of larger areas and hence offers time effective therapy. The BIOPTRON® 2 guarantees the highest degree of comfort for all applications and, like other BLT devices, is very easy to use.



FILTER DIAMETER

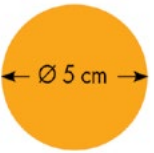


BIOPTRON® Pro1



The BIOPTRON® Pro 1 therapy device is designed for use at home, in hospitals, in treatment centers and other beauty or health care facilities. The device is available either with a functional floor stand or an ergonomic table stand for more user-friendly handling. With an easily adjustable height and head inclination, as well as the ability to rotate the device head up to 360°, this device allows for convenience and comfort.

Treatment times can be easily set using the control panel down to 30 second intervals. The filter diameter of the BIOPTRON® Pro 1 (approx. 11 cm) allows for treatments of various medium-sized areas. An optional wheel set is also available for easier mobility.



FILTER DIAMETER



BIOPTRON® MedAll



The BIOPTRON® MedAll is a small yet powerful device, easy to use and having a state-of-the-art technology. It is intended as a personal polarized light therapy medical device for use in all circumstances and locations. Ergonomic and portable, it can be carried anywhere; on business or leisure trips, fitting easily into your handbag or luggage.

It is available with a floor stand and a sleek case for safe storage and transport. With the 5 cm filter diameter you can cover small, yet precise, treatment areas while experiencing its benefits throughout your entire body. The innovative standby mode saves energy, time and money, as this function uses only 0.5 W of power. The LED timer display (common to all three models of the BIOPTRON® devices) ensures better visibility in all light conditions and highly effective resolution for easy reading. The user-friendly device control interface, consisting of smartly designed buttons, additionally ensures practical and easy usage. Finally, the ergonomic anti-slip grip, in combination with its modern design and biocompatible allergy-free material, guarantees easy handling, safety and comfort while holding the device.

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