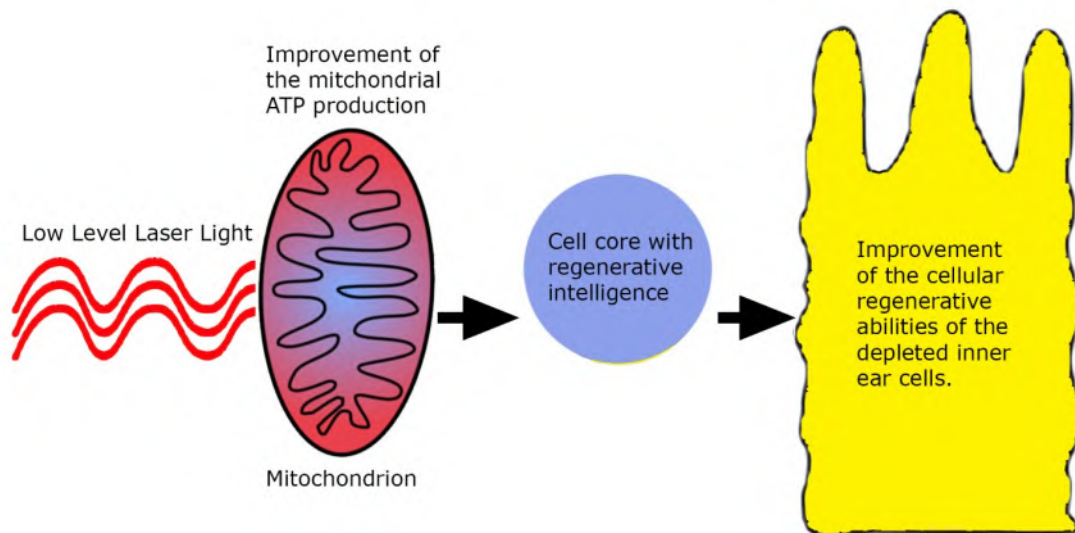




The Biological Effects Of Low Level Laser Light On The Ear



Prologue

Many people are telling me: "Do not make it so complicated, say your laser is working and that's it.

More or less they are right because usually the doctors are not explaining in detail how their medications are working.

For many generations, patients, doctors, chemists and the public have a stable relationship of trusting each other. Regarding my work with laser light on the ears it is different:

1. The importance and function of the inner ear organ is currently not known by the general public. As well as the correct interpretation of the inner ear alarm signals.
2. My points of view are basically different from the official ENT (Ears Nose and Throat) doctor's' points of view regarding this issue.

Due to this situation, I created my website <https://luxspaibiza.com/> in English, German and Spanish in order to inform the public of this issue.

Every interested person can use this website information to inform himself regarding his own biological inner ear situation by comparing his own audiogram with my information there.

3. The therapy with light, particularly with laser light is for the majority of people quite unknown.

Therefore nearly all my patients, colleagues and also the general public are asking, “How does light therapy work”?

Due to the fact that this is not an easy question to answer, I published numerous publications on <https://luxspaibiza.com/lllt-why-it-works>

The objective of this that was to clarify and make more comprehensible this subject.

I am not a physicist nor a biochemist, I am only a simple doctor who takes his text books seriously.

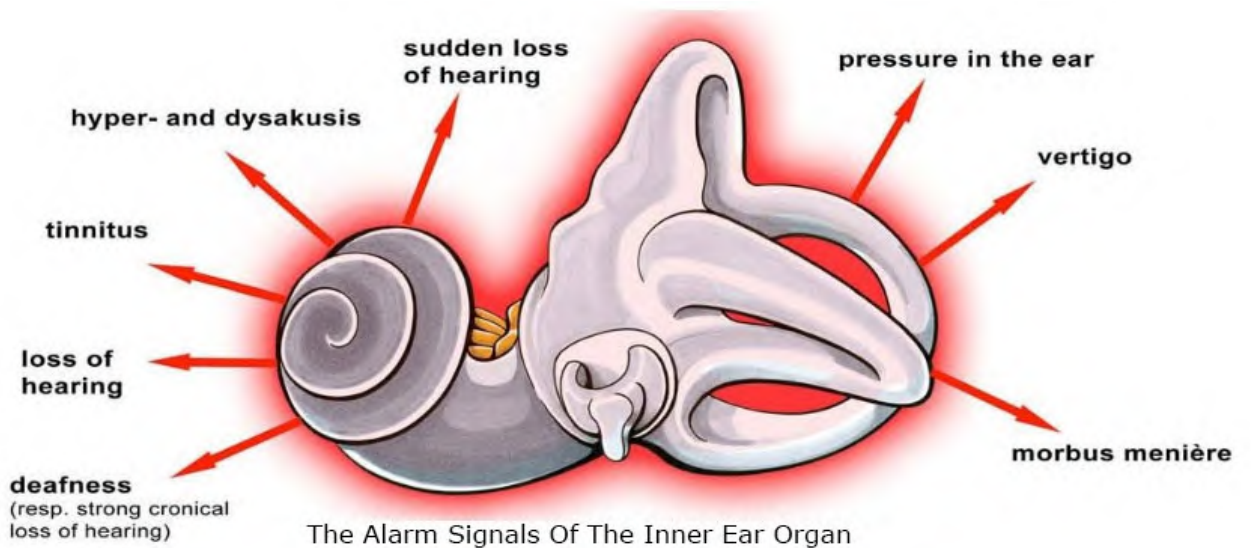
The main reason for writing this text is to help the patients suffering with inner ear problems, particularly children.

More and more children are being forced to use hearing aids and cochlea implants.

There are more than 30 years of non-invasive, scientifically proven Low Level Laser Therapy (LLLT) investigations and clinical results. This validates the unnecessary of this situation.

Our Topical Ear Situation

Nowadays more and more people of all ages are suffering from aggressive alarm signals (symptoms) of their inner ear organs.



We are talking about millions of people suffering daily. The noise related problems in the ear has become a daily routine.

The medical solution to this problem is to increase the proliferation of hearing aid sales and cochlea implant centers.

The big question is: “Where are the laser therapy centers”?

To answer this question, it is necessary to define and elaborate on this problem..

My own medical experience with Low Level Laser Therapy (LLLT)

In my experience as a general doctor, more and more of my patients have told me that they suffer from one or more of the inner ear alarm signals in the above image concerning the inner ear.

Of course, I referred these patients to my ENT colleagues. The result was that even the ear specialists could not help them.

Approximately 30 years ago I discovered information regarding LLLT and its benefits in treating the healing of wounds and orthopedic problems.

I bought my first laser and used it very intensively, first on myself and with my family. Due to the beneficial results I then started to use LLLT on my patients.

I was therefore able to experience the positive medical bio-stimulative effectiveness of LLLT on many different medical problems.

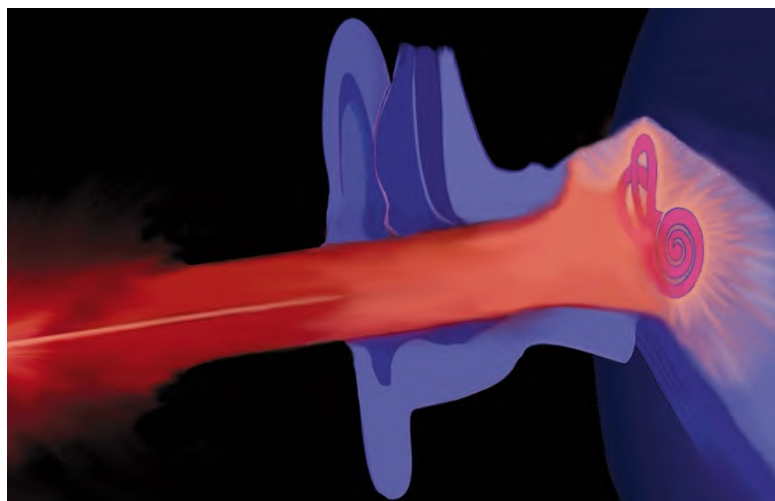
Very soon, I saw the value of LLLT also on the inner ear organs.



Therapy Situation of the high dosage LLLT by Dr. Wilden in his office, in Jesus (Ibiza / Spain)



Therapy application of the Home Therapy with our Lux Spa Home Laser by Dr. Wilden / Inner Ear Laser.



All ears like to feel the beneficial light energy

Now after more than 30 years of experience I am convinced that it is possible to avoid numerous ear problems by taking into consideration two factors:

1. Knowledge of the anatomy and function of our inner ear organs together with the importance of their protection against daily audio aggression.
2. Popular public access to professional LLLT services

New Knowledge and Old Scientific Dogmas

When old paradigms and generally accepted views are replaced by new ones, the old paradigms reluctantly lose their power and are replaced with the new paradigms.

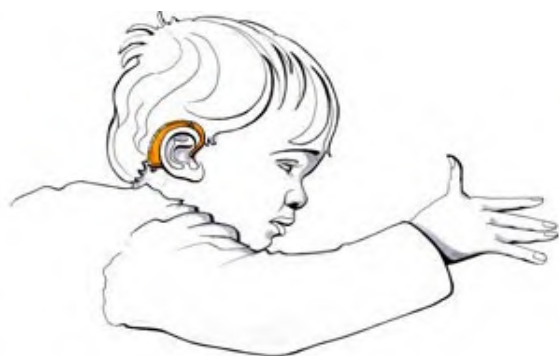


Old ENT Dogmas

Some of the old ENT opinions and dogmas regarding our ears are:

- Our hearing cells are not able to be regenerated. Due to this reason, hearing aids and cochlea implants are the only popular existing option to “improve” the hearing of human beings.
- All ear alarm signals do not emanate from within the inner ear organs.
- The origin of all inner ear alarm signals are “unknown” and will remain so forever.
- Hearing aids have no medical side effects

- The fact that hearing aids amplify all of the surrounding sounds into already fatigued hearing cells is ignored and not discussed.
- The connection between the constant increase of sales of hearing aids and cochlea implants are not being discussed, either in the world of the ear specialists or in the public.



Child with Hearing Aid



Child with CI



Young man with a cochlea implant (CI)

A cochlea Implant is the irreversible destruction of all the hearing cells inside the cochlea and the replacement by an ear prosthesis.



Old Biological Dogmas

Until now the official biological dogmas claim:

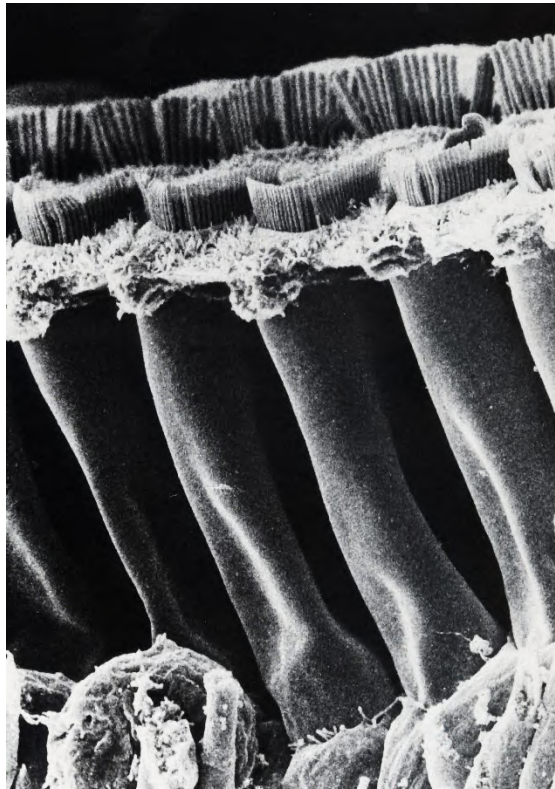
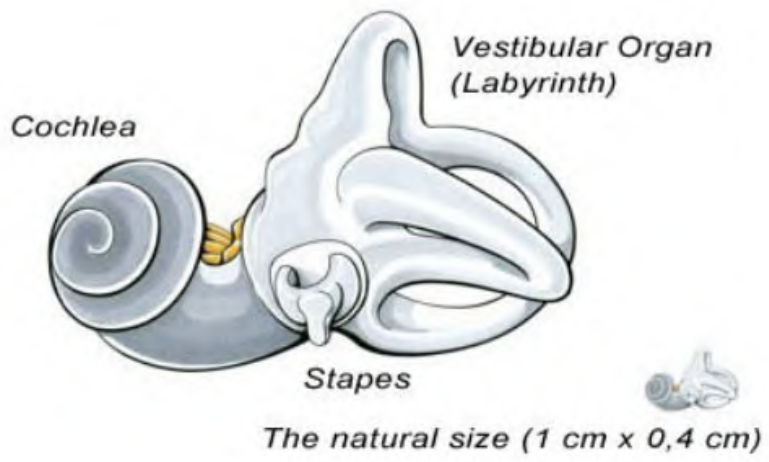
- Beside the production of vitamin D and the tanning of the skin, light has no biological significance for humans and therefore void of any therapeutic value.
- The common biological and medical opinion is that light is not able to penetrate into our body and therefore is not creating any biologically relevant activity within the cells.



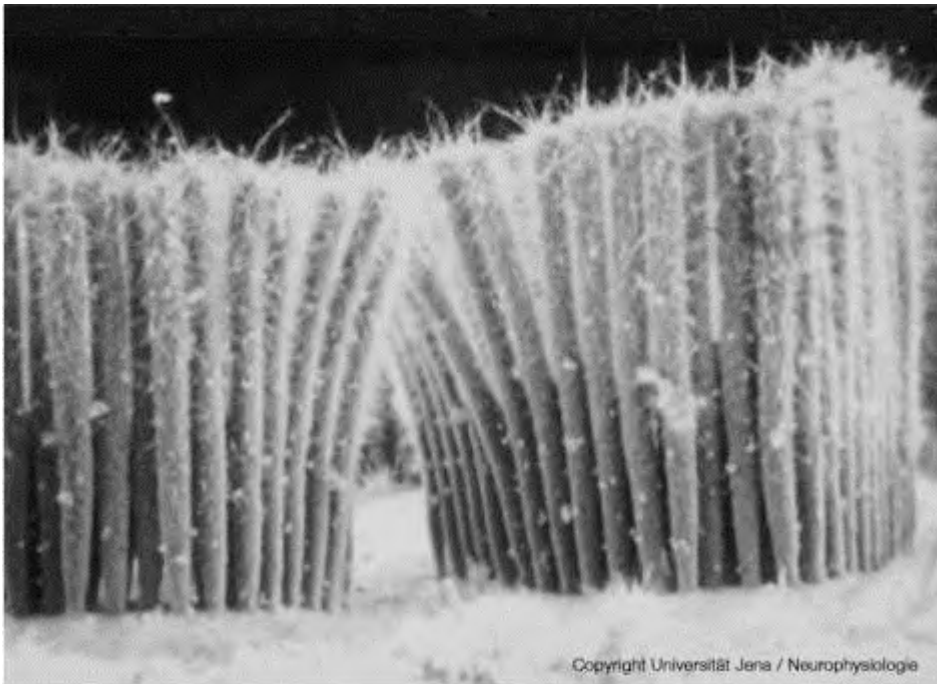
The new scientific knowledge regarding our ears

- Our inner ear organs are miraculous sensory organs.

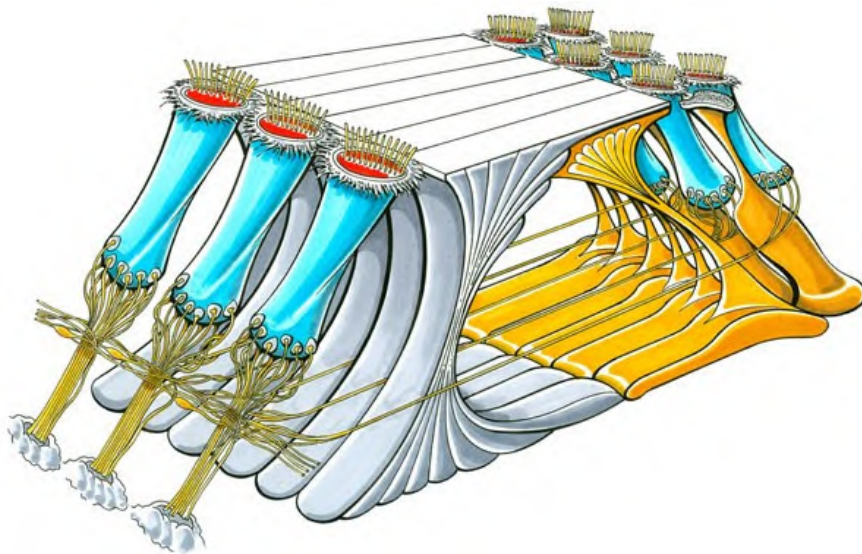
If we know how they are working and treat them well, our ears can stay healthy our entire life.



Electro microscopic photo of healthy hearing cells



Amplification of the so called sensory hairs of hearing cells



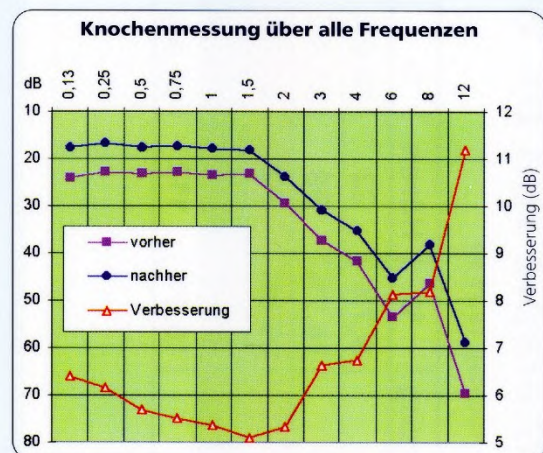
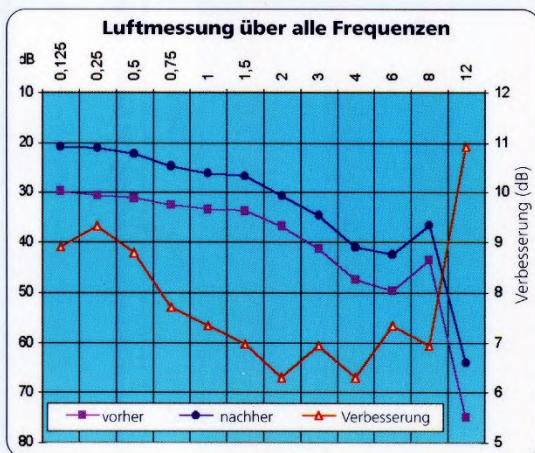
Graphic representation of a section of the Corti Organ

- Our hearing and equilibrium cells have the strongest regeneration capacity of all our body cells.



The New Knowledge Regarding LLLT

- LLLT radiates compressed light (electromagnetic light energy) into afflicted body cells.
- The result of this is an improvement of the respective biological quality of the treated organ.
- Everyone that undergoes laser treatment has immediate results.
- In the case of healing wounds with LLLT, this is easily observed visually and is measurable.
- Regarding the ears, it is easily measured with a hearing test before and after some LLLT treatments.



The above graph illustrates the initial improvements of the hearing capacity after 5-10 days in my office and/or after 4-8 weeks of Home Therapy with our Lux Spa Home Laser by Dr. Wilden

Laser Therapy is a therapy with light energy

In our times engineers and technical experts have been using for numerous years, light energy to produce electrical energy.



Photovoltaic

But what does the term energy signify in the world of biology?

Why should light be used technically but not biologically?

It seems that evolution is assumed to be less intelligent than our engineers.

Why is it so difficult for physicians and biologists to accept that light has an important value for our body cells?

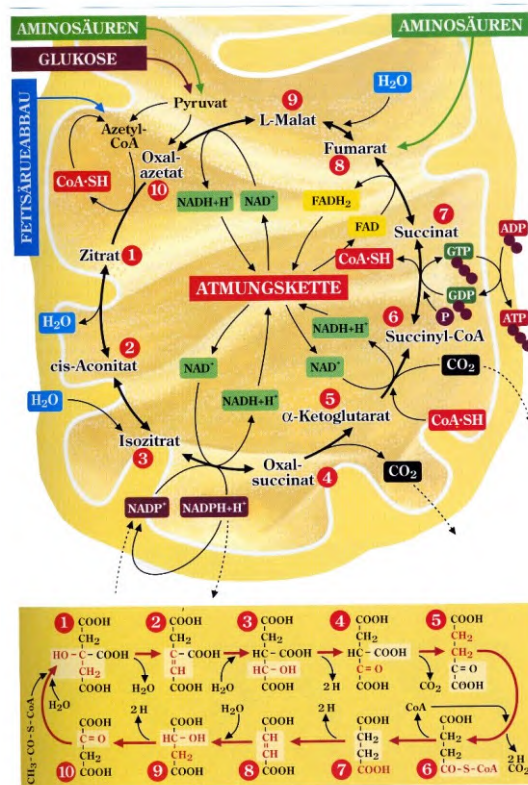
I suspect the main reason for this status quo are the old biological concepts of how energy is acting inside our body cells.



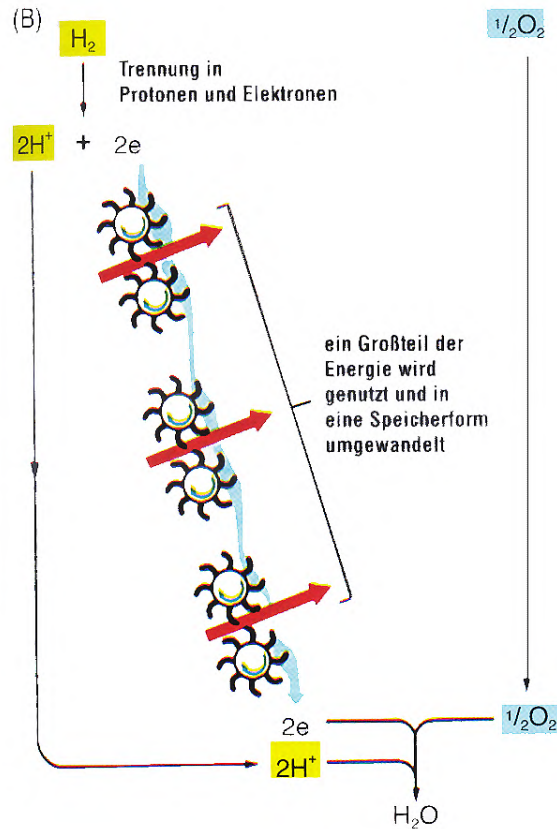
The old energy concepts of the biologic science

The old concepts of the official biological sciences regarding the energy which is acting inside our cells, is that there are little energy packages or particles (electrons) which are flowing from one molecule to the next.

- This is a clear misconception of the proper definition of energy.



An illustration demonstrating outdated concepts of energy by biologists



Another illustration of the classic hydrodynamic energy concept of biology

- Electromagnetic interactions between molecular structures are non-existent.

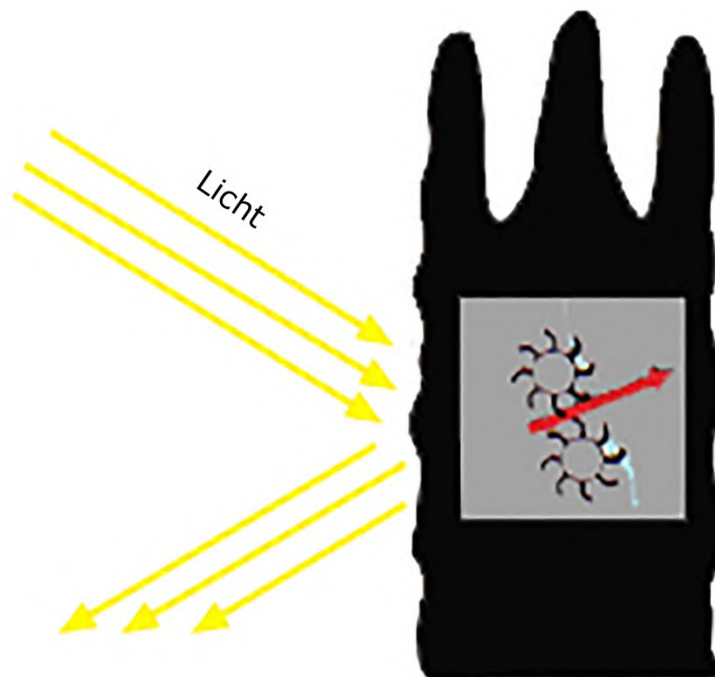
The main biological dogma is:

- Human and animal cells are basically not able to use electromagnetic energy. It is assumed that they have to transfer the electromagnetic energy into some type of aqueous form.

A scientific explanation of such a hypothetic energy transformation is currently non-existent.

However these outdated energy concepts have a very strong and deep influence on our perception of ourselves.

We imagine and feel our body as cut off from the natural solar radiation and have difficulty in accepting that there are light electromagnetic processes inside our body.



The old biological view is that our body cells are dark inside and somehow impermeable to light, producing their energy in a more or less hydrodynamic way.

The outdated biological science is seeing the cell as a space inside the universe which is cut off from any electromagnetic energy.

The result, therefore, for all of us is that we feel our body as cut off from light.

This is producing a general mistrust towards any kind of light therapy.

This is perhaps an explanation for the fact that laser therapy centers in our cities are virtually non-existent.



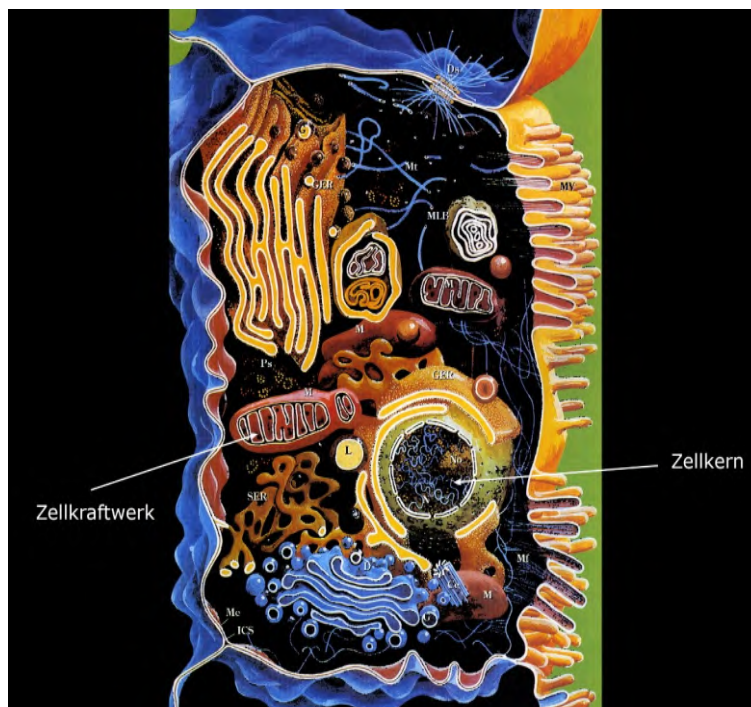
The New Knowledge regarding our cellular energy.

In the moment we replace the old biological mass concept of energy with the electromagnetic nature of our body energy, we can begin to understand very well about the energy which is acting inside our cells as well as the biotechnology of our cellular energy production.

We can therefore use laser light as a medical method with a clearly defined scientific ground.

Our cellular power station (mitochondria) is working like a solar power station.

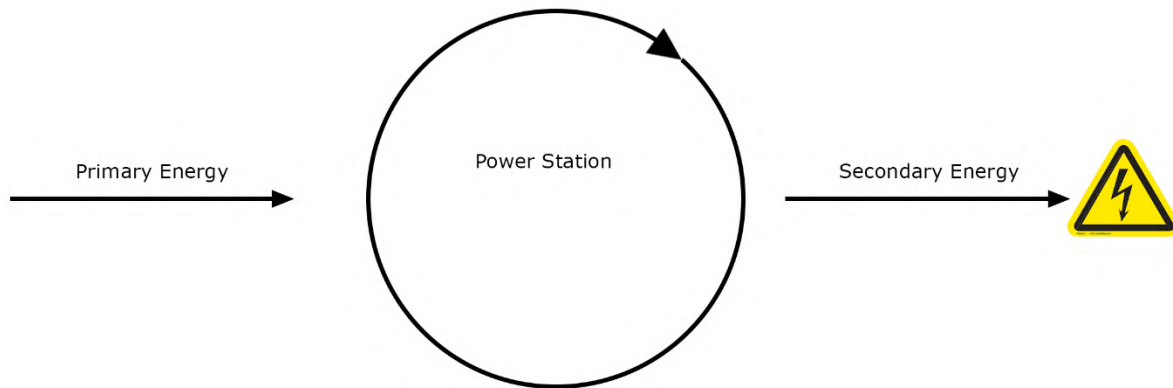
All body cells have cellular power stations to produce ATP



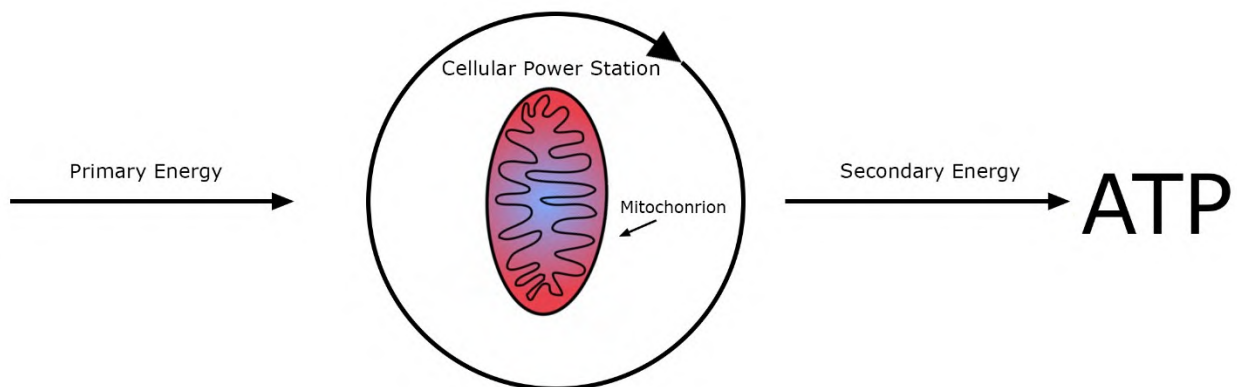
View of the inner organs of a cell

The biological cellular power stations are following the same principles as our solar energy power stations.

In our technical power stations, the secondary energy is electricity.



The secondary energy of our biological cellular power station is always ATP.



ATP (Adenosine triphosphate) is the universal cellular energy unit. Every cellular activity utilizes ATP.

ATP is for cells, approximately the same as electricity for our civilization.

As is the case of both, the technical and biological power stations, the construction and functioning of the respective power stations are always depending on the primary energy.

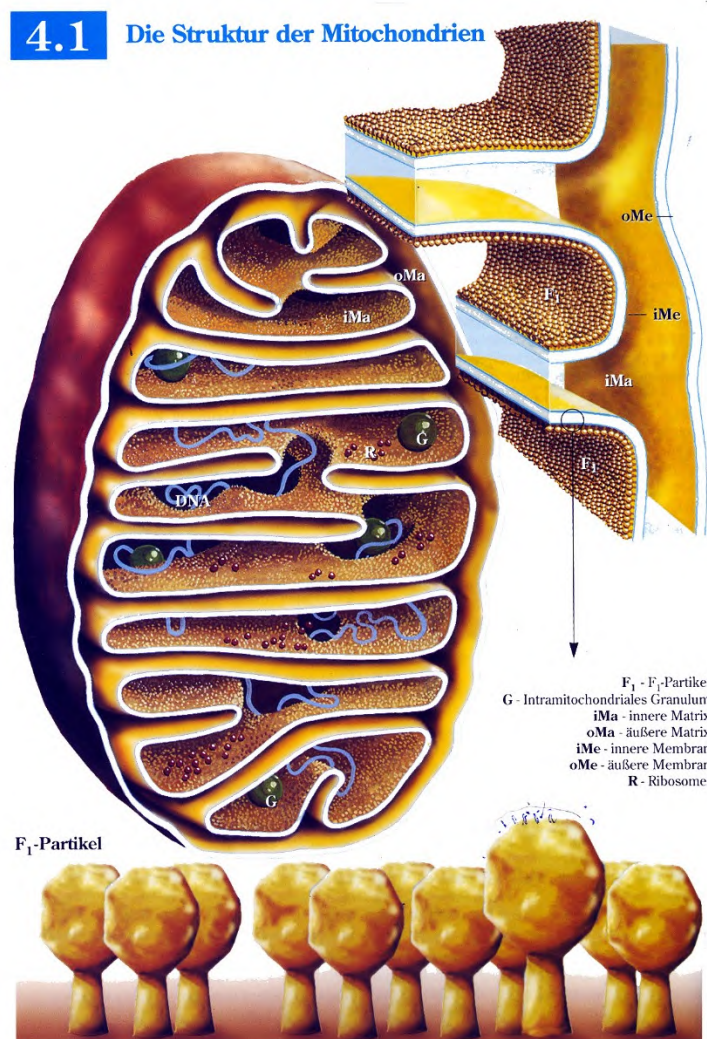
A wind power station looks like a wind wheel because its primary energy is wind.

A water power station looks like it does because its primary energy is water.

And a solar power station looks like it does, because its primary energy is light (electromagnetic radiation).

If we follow the old biological concept of a somehow liquid energy which flows into the mitochondria, our cellular power stations should look like water wheels or turbines.

But in reality our mitochondria has the same principles of construction as a solar power station; a large area constructed of light absorbing material.



The main building feature of our cellular power station is a large folded area.

This large area of our cellular power station is always filled with the same light absorbing molecular structures, the so called *respiration chains*.

Every respiration chain has more than 20 molecular structures, the so called *electron carriers*.

The absorbance behavior of every single electron carrier is well known. Combined they are absorbing the complete light spectrum of our natural solar radiation.

This signifies that all wave lengths of the natural solar radiation which is radiating into our body are directly absorbed by the mitochondria inside our body cells and therefore increases cellular ATP production.

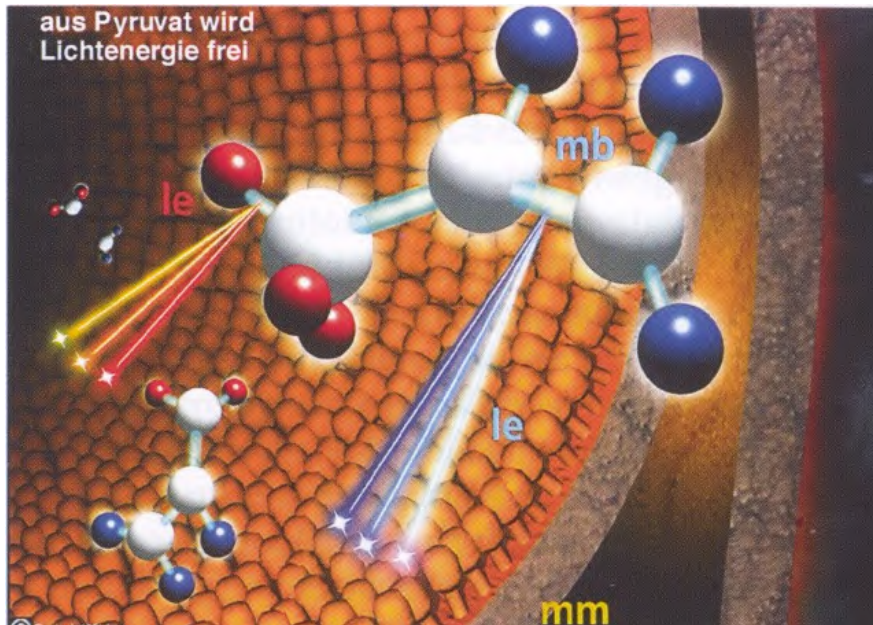
This new scientific perspective also explains the so called obvious general bio-simulative effect of the solar radiation on humans.



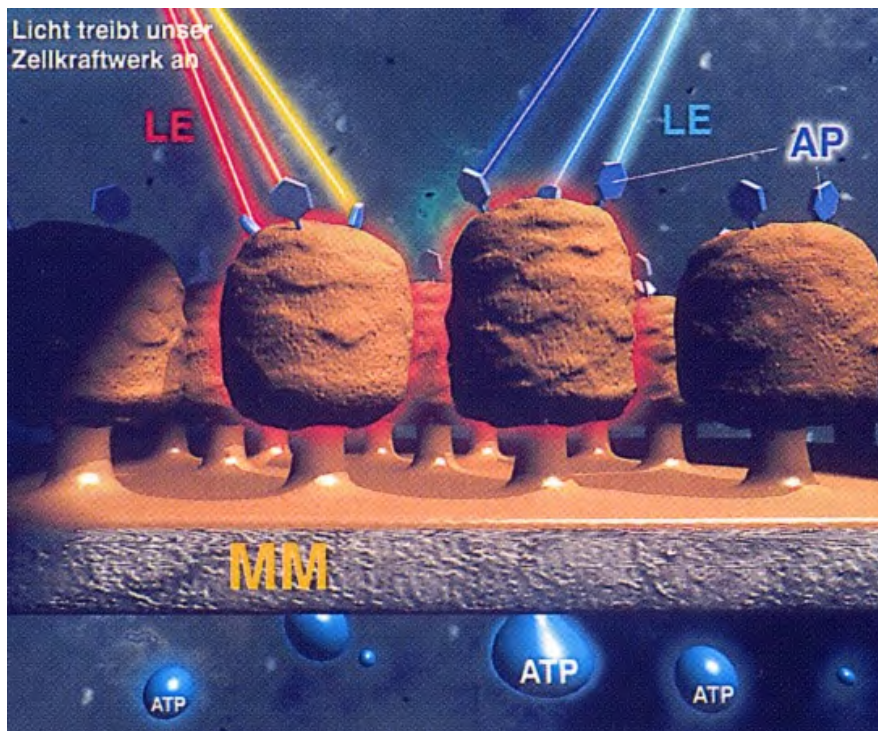
Sun light directly stimulates our cellular energy production.

Our cellular power station is also absorbing and using light as primary energy, which is coming from inside the cell.

This light is coming from the electromagnetically bound energies, released by pyruvate.



The last step in our cellular metabolism is the radiation of light from within the pyruvate molecule and the absorption of this light in our cellular power stations.

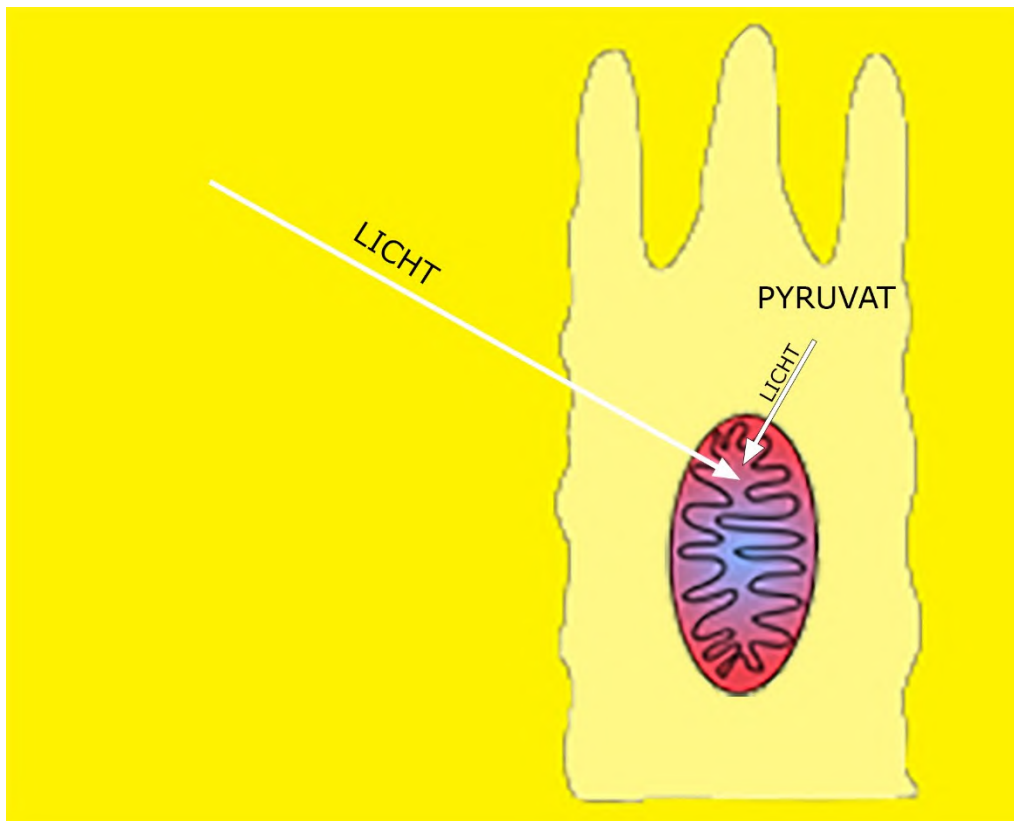


Pyruvate is the last molecule from our food. All the energies from our food (sugar molecules, fat and amino acids) are saved in the bound energies of Pyruvate molecules.

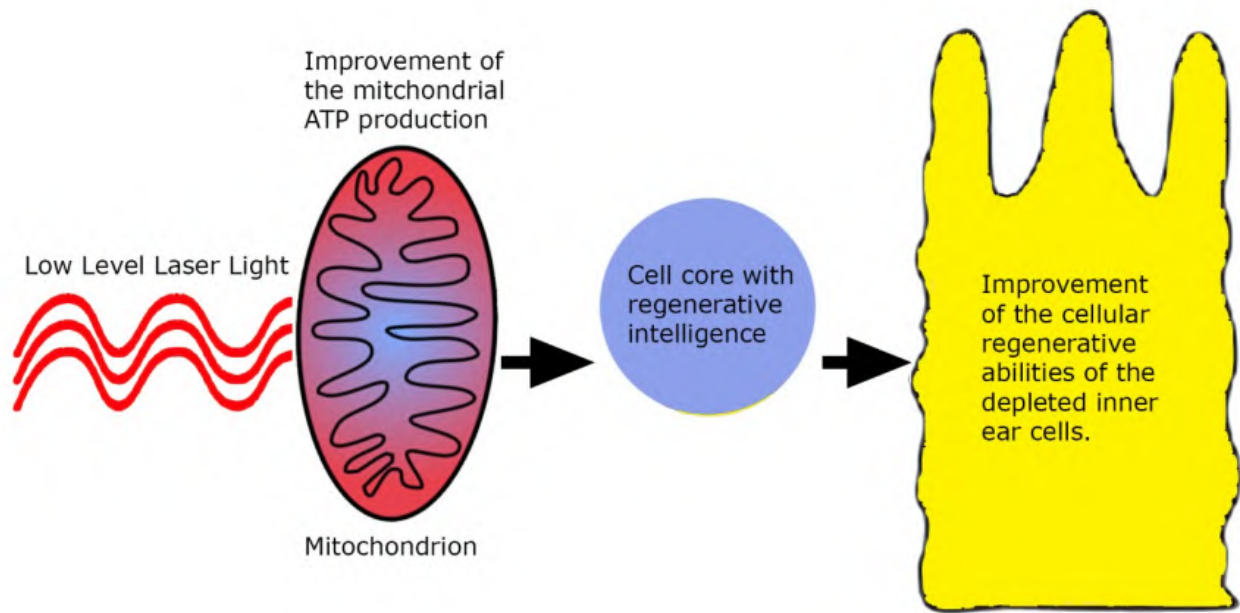
The wave lengths of the electromagnetic bound energies which are released from Pyruvate are the same as our natural solar radiation.

This is not surprising because all our food is produced from sun light.

Our cellular power stations are using light as primary energy, which is coming from outside and within the body.

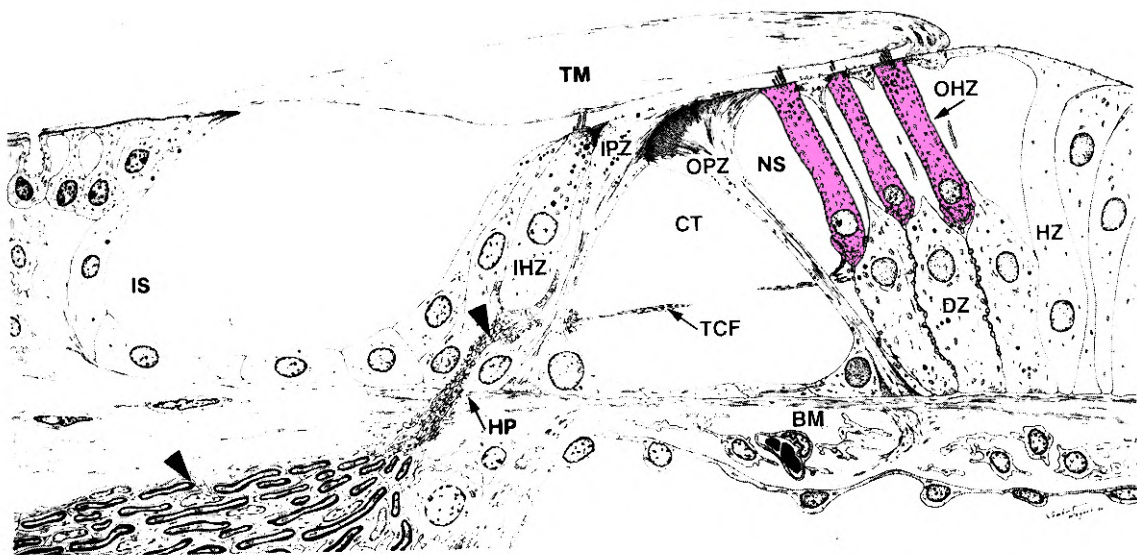


The correct definition in physics regarding the qualities of this energy, behind the molecular reality, is that it is electromagnetic energy. For clarification of the wave aspect of the electron, please go to www.luxspaibiza.com



Laser light radiates compressed light energy into the body cells and into the mitochondria thus improving the ATP production of all body cells.

Due to this process, every exhausted body cell can therefore maximize the inherent healing functions much more efficiently than without laser light.



Our hearing and equilibrium cells have 3 times more cellular power stations than any other body cells (the small black points in the above colored hearing cells).

This explains why there is a very strong natural regeneration power of the hearing and equilibrium cells. As well as their positive biological response to the high quality LLLT on the ears.

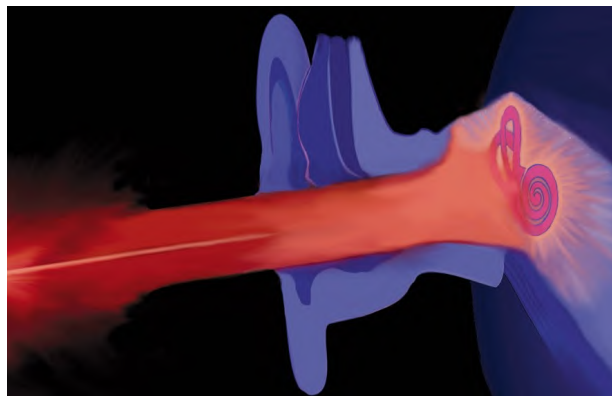


But, dear Ladies and Gentlemen, the most important factor is YOU!

Old opinions will begin to disappear when there is an increase in people willing to examine them and allow themselves to develop a new point of view.

After more than 30 years of positive medical experience regarding LLLT, particularly with the inner ear organs, it is my desire that you give yourself a chance to experience a really new and valid therapy.

Laser light therapy produces a very gentle and pleasant ear sensation during every therapy session, both in the office as well as with our Lux Spa Home Laser by Dr. Wilden / Inner Ear Laser.



Ears ❤️ Our Laser Light