Quantum physical foundations of regenerative medicine

Damage and repair

Our organism is constantly exposed to small and also larger damaging influences. Life means constant destruction of molecules, structures and their regeneration.

Health and disease are not to be regarded as fixed states, but rather as dynamic transitions between damage and repair.

In particular, free radicals from the cellular energy metabolism and from environmental toxins are responsible for the processes of destruction on the cell walls, on proteins and on the finest tissue structures.

Daily exercise also leads again and again to small micro-injuries in the smallest areas of the musculature, the tendons, the joint cartilage, etc.. These mostly unnoticed micro-damages lead daily to impairments in cell metabolism and ultimately in the organism due to the process and structural disturbances caused.

These must be repaired quickly, because if they persist over a longer period of time, they can lead to pathological changes and even degeneration of the tissue.

The self-healing with its repair processes can be overtaxed by a strong increase in damaging factors. The lack of regeneration after severe damage means either acute or chronic complaints or diseases.

The structure of the human organism

The human organism is made up of individual cells that form the different organs. If we break down the cells further, we come to the various molecules and the different atoms.

All atoms consist of the atomic nucleus and a certain number of electrons on the orbits. Between the atomic nucleus and the electrons is the so-called "empty space", which is called a vacuum and makes up 99.999 % of the volume of an atom. The so-called mass components - atomic nucleus and electrons - make up only 0.001% of the volume of the entire atom.

All matter is made up of atoms and thus consists of the aforementioned masses (atomic nucleus, electrons) and the vacuum space.

All material structures, including all living things in this world, are made up of individual, different atoms, according to this principle.

Quantum physics and atoms

The physical interrelationships in the atomic and subatomic realm are primarily concerned with force and time components. Force effects build the connections between the atomic nucleus and electrons and between the atoms in a molecule. The shape or spatial arrangement of molecules is also dependent on these force components, which are effective over a certain period of time.

In our organism, for example, building blocks or functional substances such as proteins are created that are functional for a certain period of time. The structure and spatial folding of these proteins are decisive for their function. Our body cells manage any work of structural, functional or energy metabolism exclusively with proteins.

Our human organism needs more than 50,000, possibly more than 100,000 different proteins.

The information for the composition and structure of the proteins must be retrieved from the D N A at the right time. The proteins are then produced in the cell and must then be brought to their site of action. Only at their actual destination should they unfold their activity. Each cell manages its structural, functional and regenerative metabolism with the help of the adequate proteins.

The idea of creation

Our planet is home to an enormous variety of manifestations. All forms of life are based on a blueprint that is based on comprehensive information. Here we can speak of primordial information that contains why a human being is a human being, a horse is a horse, or a snowflake is a snowflake. All these formation mechanisms are based on primordial information from a universal spirit or whatever one may call it.

Configuration and conformation

All proteins are built up by a corresponding amino acid sequence. Their spatial arrangement, which is equally quite crucial for their functionality, is based on specific binding forces between the individual molecules and atoms, which spatially shape the overall protein accordingly. The amino acid sequence is the basic framework, the configuration is the spatial design which represents the so-called passive form of the protein (enzyme).

The protein is converted into the active state by ATP or by a so-called potential impact with electromagnetic fields. This activation is accompanied by a change in the spatial 'arrangement from the configuration to the so-called conformation. Only in the conformational state is the protein active and able to do its work.

This relationship naturally also applies to proteins involved in regeneration and healing processes.

Failure of proteins

Wrong binding forces between atoms and molecules result in a wrong conformation of the proteins. Thus, the enzyme cannot develop its intended activity and becomes ineffective.

Already at the molecular level, we need adequate bonds in the proteins for the correct conformation for regeneration and healing. Thus, already at this level, quite a few disease conditions could also be seen as temporally local disturbances of the binding between molecules. The healing of these pathological changes depends on their restoration.

Molecular bonds consist of time and force operations

Non-corresponding energies or wrong information cause a disturbance of the adequate bonds on a molecular level. Some cause takes effect here and an unfavourable new state is created. To achieve healing, the original state must be restored. This can only be done through adequate energy - information that re-establishes the correct binding forces. Only then does the "re-generation" - of the original state succeed or, as one expresses it in computer language, the "reset". Healing does not mean bringing about a new state, but rather a return to the "old state" - to the "original state".

Regeneration and healing therefore require the so-called original information about the state before the illness as well as a time operation back to this original state.

For an adequate bond, three components must be fulfilled:

1. Force component
2. Time component
3. Meaning and significance

All living forms are to be considered as space-time constructions. Healing thus occurs at this level through force creation and force dissolution between atoms and molecules. In these processes of re-creation, time goes in the direction of the past. The whole thing can only proceed adequately through recourse to previously stored information. Health depends on whether the binding force can be restored at the right place and at the right time.

Cellular and molecular healing forces

Regeneration is seen in medicine today primarily at the molecular and cellular level.

In the case of a tissue defect, such as a wound, there is a release of immune factors and growth factors, the immigration of defence and clearance cells, which all together remove the destroyed tissue and, as far as possible, restore new tissue in the sense of regeneration. However, these cellular and molecular reactions must be activated and controlled. The term self-healing summarises all these processes and their informative principle.

Organisation of the healing forces

How does the organism know how to clear the defective tissue and rebuild it?

Who tells it that the repair is complete - that is, that all growth factors and repair mechanisms can be switched off? Until now, the key has been assumed to be in DNA. The DNA of each cell contains the information for the entire body. Nevertheless, each cell shows different functions, since only certain DNA sections are activated. Therefore, superordinate spiritual-informative processes must be responsible for which specific DNA sections are currently released and activated.

Healing in the course of time

If we consider time, it is difficult to restore a well-functioning order in the future. The second thermodynamic law describes exactly the opposite, i.e. that disorder increases with the passage of time.

Healing in the course of time also always includes a time operation back into the past. The healing success is not achieved by a new construction, but by a restoration of the old state. The repair is thus aligned with previously stored information. By stepping back into the past, this former state is regenerated anew, so to speak.

In healing, we must differentiate:

1. Self-organisation of matter through self-regulated energy and time operations
2. Modulation of matter through consciousness-regulated energy and time operations
3. Modulation of matter by external energies - e.g. light and other electromagnetic fields or by food

The pivotal points in this process are assumed to be the spins (torques) of the electrons according to the theories of quantum physics.

The following are dependent on the positions of the spins:

1. Coulomb energy, i.e. the electrostatic interaction energy between atoms and molecules e.g. antiparallel spins have greater Coulomb energies than parallel spins
2. Kinetic energy (accelerated motion) of electrons
3. Temporal and gravitational parameters

Thus, the state of the spins determines the bonding properties within molecules (shape, structure, form), i.e. also that of proteins.

Everything that influences the spins thus also influences disease and healing.

Disease means disturbance or injury of shape, structure and form.

Where do form, structure and shape come from?

Here, the idea of creation or the original information is assumed as the basis. The primordial information realises the plan that, as already mentioned, a horse is built up into a horse, a human being into a human being or a snowflake into a snowflake.

This primordial information acts via the spins and thus via the bonds between atoms and molecules, which thereby build up the typical form, structure, shape in each case. In addition to the spins, the masses of the atoms, i.e. the electrons and atomic nuclei, are also at the centre of this process. There are only these two masses, there are no other masses in the organism.

How is the form, structure, shape built up?

This happens through

1. Energies that become forces on the masses.
2. energies that become time flows on the masses.
3. energies that give meaning and significance.
4. spins that are carriers and mediators of these energies.

How to influence the spins?

The main task of bionic medicine will be to influence the spins. From this point of view, research is being done into how self-healing takes place in the organism, what information it uses for this purpose and where the information comes from.

Fields and potentials are stores of information

Our organism is entirely made up of the two mass building blocks - atomic nucleus and electrons. Both basic building blocks have charges. These are the source of potentials. Field energy and potential have been precisely correlated with electrical charges for almost 14 billion years.

Charges and charge distributions, with their associated fields and potentials, represent the basis of all so-called chemical processes. Chemical processes are in fact physical processes in the sense of the physics of the outer electron shells.

Different charges produce different potentials. If different potentials exist next to each other, so-called potential gradients are created. These create the electric and magnetic field forces. Each charge can also perform work with the help of the electromagnetic field. It is assumed that this energy, which appears inexhaustible, comes from the vacuum space.

Every organism as a whole body, but also every organ, every cell, every molecule down to the proton and electron has specific charge contents and thus specific potential quantities. All important functions of our body are bound to potentials. We know the action potentials, the resting potentials, the zeta potentials, the injury potentials, the redox potentials, etc.

Injury potentials are caused by attacks or destructive forces (e.g. free radicals) that partially destroy the cell wall. This changes the ion permeability and the membranes lose tension up to depolarisation or even tension reversal.

Injury potentials usually lead to hypopolarisation of the cell walls. These voltage reductions initiate healing processes.

Potentials act without forces

The special thing about potentials is that they influence the phases of the electron velocities. Thus they act on charges. Potentials are a physical reality and not just mathematical constructs. They do not do any work themselves, as they do not have any forces of their own. However, they have the possibilities to bring about changes in charges in the sense of an information character.

The effects of the potentials on charged parts are also effective in regions where all fields have disappeared. According to Evans, all electromagnetic phenomena start with scalar potentials. According to Tiller, scalar waves have a mediator function between vacuum and electromagnetic field.

Potentials of the vacuum organise the forces of the electromagnetic fields. These build up space-time. Potentials are composite physical quantities and have both longitudinal-polarised and time-polarised implied structures.

All electromagnetic structures consist of scalar potentials - these can be assigned to information due to their internal structure. Overall, all fields consist of information (Wheeler, Feynman, Jaynes). The electromagnetic field does not exist in space-time, but represents an info-memory unit. The electrostatic Coulomb potential contains longitudinal and time-like polarisation.

Binding energy and lifetime of the bonds

The information quanta for force transmission are probably directly coupled with the information quanta for time transmission. This statement results from the fact that the magnitude of the binding energy between molecules is strictly correlated with the magnitude of the time duration of the bond.

Examples of the correlation between magnitude of charge and time duration of the bond:

A bond of 0.13 - 0.32 eV corresponds to an average lifetime of 10-10 to 10-12 seconds (e.g. water clusters).
A bond of 1.5 eV corresponds to 1.3 years of average lifetime
A bond of 1.8 eV corresponds to 30,000 years of average lifetime (e.g. DNA)

On the time axis back in the direction of the past

When an electron is excited in the microworld of atoms, it emits a wave that travels in the direction of the future as well as a wave that travels in the direction of the past. It is thus a time-symmetrical mixture of propagating waves. The waves that go back in time are called advanced waves, the waves that go into the future are called retarded waves.

Particles thus interact with each other in a time-symmetrical manner with continuous feedback of advanced and retarded information. In non-linear, so-called phase-conjugate systems, matter is pumped with the help of specific longitudinally polarised radiation and an incident beam is then reflected into the past. This works in experiments both in optics and in chemical reactions that run back into the past.

Biological time operation

If a microscopic time order is destroyed, this inevitably also has an effect on the macroscopic level. In this respect, these biological time operations with advanced and retarded waves also decide on illness and healing. According to these model concepts, the strategically important starting point for triggering a disease can be reversed with the help of specific potentials.

The plausibility of this theory has been proven in several experiments, e.g. by Gariaev on diabetic rats. The retrieval of information from the past with the help of potentials is also known through experiments in the company Ciba Geigy. The patent-pending process describes the application of potentials to fish eggs, plant seeds and bacteria, which brought long-extinct species back to life. For example, trout extinct 150 years ago, primordial ferns, earlier wild plants.

Summary:

According to Chernetski's experiments, the longitudinal vibration component is capable of controlling, structuring and destructuring the physical vacuum to obtain information.

Longitudinal vibrations are always associated with potentials via their compression and rarefaction of charge accumulations. According to Whittacker, potentials consist of longitudinal and time-like waves. These waves are information for the masses (atomic nucleus and electron) when they collapse as photons or as quanta. If one lets endogenous vector fields interfere in such a way that the forces cancel each other out, the energy adds up. According to quantum theory, there is then only pure energy in the form of "time-like photons". If this type of energy is specifically encoded in a biological pulsating way, this results in adequate information. The organism reacts with functional changes in the sense of regeneration. This approach has been implemented in the therapeutic devices of quantum medicine and with growing success, the importance of these future-oriented methods is becoming apparent.