

Cellular regeneration attributed to Fulvic acid electrolyte

Living cells are single bipolar mechanisms, meaning they have a positive and negative composition, and work similar to batteries. Cells are made up of a positively charged acidic central core or nucleus, which is surrounded by the negatively charged alkaline cytoplasm. The components are separated by semi-permeable membranes. Each cell is a single structural unit that functions as a member of the total living organism. Once a cell dies, and eventually in the natural scheme of things, comes into contact with the appropriate soil microbes, it will ultimately break down and turn into a humic substance.

Over 50% of hospital patients treated with humic acid for various chronic diseases noticed that they were able to sleep more relaxed.

Bingwen Su, Jiangxi Humic Acid, 3 (1985)

Research has shown that two very important components of humic substances are nucleic acids and amino acids, which are remnants from the nucleus, cytoplasm, and protein building blocks of once-living cells. Nucleic and amino acids are absolutely essential to all living things.

There are potentially thousands of individual nucleic and amino acids in humic substances. These nucleic and amino acids are preserved intact within humic substances, where they are believed to remain stable indefinitely. The nucleic acids consist of negatively charged DNA from the breakdown of the nucleus of cells, and positively charged RNA from the cytoplasm of cells, which also remain stable in humic substances.

Of interest here, are the nucleic acids and amino acids which are major constituents of the fulvic acid fraction of humic substances. Since fulvic acids are of low molecular weight, and water soluble on both sides of the pH scale, they are readily absorbed through semi-permeable membranes, and function actively in association with living cells.

Complexed into the fulvic, nucleic, and amino acid team, are innumerable essential minerals and rare earth elements. Fulvic acid contains literally hundreds of complex minerals which include traces of virtually every element listed in the Periodic Table. Together, all of these components function in unison, as fulvates (salts of fulvic acid), making fulvic acid an extremely powerful electrolyte.

Hospital studies show that patients with normally incurable epidemic Hemorrhagic Fever were able to be successfully treated with humic extracts, which stopped bleeding, restored circulation, removed clots, was anti-viral, and significantly bolstered and regulated the immune system.

Yinzhang Cui, Humic Acid, 1 (1991)

Because of its many nutritional components and electrolytic power, fulvic acid has instant cellular revitalizing, replenishing, and nourishing characteristics unlike anything else. Fulvic acid's electrolytic value also has been shown to increase permeability of bio-membranes, which means that it can sensitize cell membranes for better absorption or assimilation of other things in its presence.

It is essential that the electrical potential of all cells remain balanced and "charged". A high quality electrolyte is essential for proper cellular function. An electrolyte is a substance that dissolves in water or other suitable medium, that will conduct electrical current. An electrolyte is essential to cells because in molecular processes it permits electrons to be set loose, transferring electrical current, by allowing the flow of ions. Fulvic acid is a polyelectrolyte which means "much electric."

The value of an electrolyte can be shown by an experiment that was done by researchers on a giant amoeba, which is a microscopic single cell animal. Under a microscope the electrolytic potential of the amoeba, which is normally 20 millivolts, was depressed to zero. The researchers then noticed astonishing changes as the amoeba become dysfunctional, the outer membrane then ruptured in several places, and internal components began to flow out into the surrounding fluid. At that point researchers visually concluded that the form and structure of the amoeba had disintegrated and it was for all purposes dead. Upon increasing the electrolytic charge, the form of the amoeba reconstructed and became active and healthy again. This same test was repeated many times with the same results.

"The cell is immortal. It is merely the fluid in which it floats which degenerates. Renew this fluid at intervals, give the cells what they require for nutrition and, as far as we know, the pulsation of life may go on forever."

--Dr. Alexis Carrel, Nobel Prize in Medicine

Although plant and animal cells have slightly different makeup, leading scientists agree that their metabolic functions, components, and requirements are exactly the same. For instance; in plants there are chlorophyll molecules which are the light receptors responsible for the photosynthesis process. These chlorophyll molecules are very similar in structure to the heme molecule of human red blood cells (hemoglobin).

Extensive hospital eye clinic studies using humic extracts showed 100% success in curing eye diseases caused by virus, bacteria, or fungus, also healing ulcerous wounds, relieving inflammation, and stopping hemorrhaging, without side effects.

Guofan, Tang, Jiangxi Humic Acid, 3 (1984)

The physical health of all organisms, both plant and animal, can be expressed in terms of electrical potential. It is essential that the electrolytic potential of all organisms be maintained at optimum levels, otherwise weakness, degenerative disease, and eventual death will result.

Fulvic acid has been proven to be one of nature's most perfect and powerful organic polyelectrolytes. Because many of fulvic acid's constituents were once involved in photosynthesis, the fulvic retains that latent energy potential stored inside its solar charged molecular structure, which can balance cell life on the molecular level, providing regulated positive and negative charges as needed, acting as both a donor or acceptor. Within the complexities of fulvic acids, the individual molecules are similar but not identical. This variation in makeup allows a variety of possible reactions, positive or negative, or in some cases alternating, to assist the balance.

Because of its unique polyelectrolytic properties, fulvic acid can influence the formation or transmutation of new species of metal ions. This means fulvic acid can convert existing minerals into new minerals.

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